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ENVIRONMENT
& HEALTH

Mr. John Feeney
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NR 716 Site Investigation Addendum, Response to Comments
Former We Energies Third Ward MGP Site; Milwaukee, Wisconsin
BRRTS#s 02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 Off-Site (One Catalano Square)

April 30, 2021

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Dear Mr. Feeney:

On behalf of We Energies, Ramboll is providing this letter response to the Wisconsin Department of Natural Resources (WDNR) comments provided by email and verbally in a meeting between WDNR, We Energies and Ramboll on March 18, 2021 as well as in follow-up email correspondence dated March 29, 2021 on the NR 716 Site Investigation Addendum (SI Addendum), dated November 6, 2020, for the Former We Energies 3rd Ward Manufactured Gas Plant (MGP) Site, Milwaukee, Wisconsin. For ease of review, WDNR comments are formatted in italics, followed by the response. Note that select tables and figures from the SI Addendum have been modified as described in the Response to Comments. The modified tables and figures are included herein, along with pertinent non-revised figures.

Comment 1: Discussion of utilities that go across the river – Do they go under or penetrate the sea wall? What depth are they? Can you put those on the cross sections?

Response: As noted in the SI Addendum, bulkhead wall construction documentation indicates that the 2005 Marine Terminal sheet pile dockwall and 2016 DoMUS sheet pile dockwall (shown on revised Figure 4 attached) are continuous and keyed into the clay at approximately 35 to 40 ft. bgs. The sheet pile dockwall constructed for Trestle Park/Jefferson Street right-of-way was constructed circa 1953, and is also keyed into clay. The following summarizes the sheet pile tip elevations and top of clay:

- The Marine Terminal dockwall has a tip elevation of approximately 545 feet and the top of the clay unit at the dockwall appears to range from 548 to 552 feet (Cross-sections A-A' and B-B' on Figures 8A and 8B – attached for reference with no revisions).,
- The DoMUS dockwall has a tip elevation of approximately 549 feet and the top of the clay unit at the dockwall appears to be approximately 552 feet increasing to 560 feet near Trestle Park/former railroad trestle (Cross-sections C-C' and D-D' on Figures 8C and 8D - attached with revisions for deep utilities).

- The Trestle Park dockwall has a tip elevation of 552 feet and the top of the clay unit at the dockwall appears to be 560 feet near the former railroad trestle (near Cross-section D-D').

A review of historical[1] and recent[2] utility drawings have identified the following utilities that cross the river below the riverbed (mainly in the clay unit) and pass underneath the dockwalls as shown on revised Figure 4:

- In N. Milwaukee Street right-of-way between the Marine Terminal Building and Domus Building (revised Figure 8C – Cross Section C-C'):
  - Underground Wisconsin Electric Power Company (WEPCO) Cable Crossing – a historic map documents the bottom of trench at approximately 546 feet, below the wall. Historic map also shows a 24" gas main and water pipe in utility corridor in same location.
- In N. Jefferson Street right-of-way south of the Domus Building (revised Figure 8D – Cross Section D-D'):
  - Gas Tunnel - a historic map documents the tunnel at approximately 540 feet, below the Trestle Park wall.
  - Underground Wisconsin Electric Power Company (WEPCO) Cable Crossing – a historic map documents the cable crossing at approximately 547 feet, below the Trestle Park wall. A railroad cable is documented as well (unknown depth) and potentially not in use.

Figures 11A and 11B displaying the Conceptual Site Model (CSM) in N. Milwaukee Street and N. Jefferson Street, respectively, have been updated to include the known deep utility locations. In summary, no penetrations or cut-outs were identified for deep utilities that cross the river. The limited shallow connections through these sheet pile walls were identified and discussed in the SI addendum.

Comment 2: Where does/did the old wooden flume lead to away from the river? What was it used for?

Response: It is not known whether the historic timber flume built by and associated with Milwaukee Gas Light Co. (Wisconsin Gas predecessor) led to or away from the river (intake for MGP site) but a flume by definition conveys water. The 1919 drawings included in Attachment D to the SI Addendum do not indicate which direction the flume sloped which would provide an indicator of flow direction. No additional documentation of the flume was located. However, as noted in the SI Addendum, no openings were identified during the dive inspection indicating that the former flume has been closed off through the construction of the 2005 Marine Terminal dockwall.

Comment 3: PFAS/emerging contaminant statement is needed.

Response: An evaluation of emerging contaminants is provided herein for the general MGP site use and pertains to all four open BRRTS cases. Also, the evaluation includes post-MGP use for the Peters=Johnson 3rd Ward Coal Gas MGP Parcel (BRRTS # 02-41-000320) and the 3rd Ward Coal Gas MGP/City of Milwaukee Parcel (BRRTS # 02-41-557054). Post-MGP use evaluation is not required for off-site BRRTS # 02-41-577202 (One Catalano Square) since the specific release the BRRTS pertains to is MGP source-related impacts in the saturated zone. For the Hoffmann parcel BRRTS case (# 02-41-557057), an evaluation of emerging contaminants for post-MGP uses (and known discharge

[1] Port of Milwaukee Drawing D1-2-10-10 (dated Feb. 24, 1975) and Drawing D2-3-85 (dated Dec. 23, 1953)
[2] June 5, 2014 Plat of Survey Map of Trestle Park for City of Milwaukee by Chaput Land Surveys

not by We Energies or its predecessors) will be provided separately with the next NR 700 submittal associated with this BRRTS/parcel.

The Third Ward MGP was operated by the Wisconsin Gas Company and its predecessors between the 1860s and the 1950s. The main MGP features included retort buildings, purifying tanks and purifier houses, coal sheds, gas holders, tar wells/tanks, below grade holding tanks, and other processing facilities. The plant was decommissioned between 1957 and 1959 and sold by Wisconsin Gas.

Following MGP decommissioning and during 1950s transition, the following post-MGP site uses have been identified on the Peters=Johnson and City of Milwaukee Parcels:

- Petroleum storage – crude oil and gasoline
- Glass warehousing
- Truck repair operations, semi-truck parking, scale with warehouse and garages
- Scrap Metal Products
- Manufacturing of pet/animal foods (not the packaging for the pet food)

Underground and above ground storage tanks used primarily for diesel and gasoline were identified associated with these former operating facilities. Currently, the parcels are fully redeveloped with apartment buildings with mostly residential use but also some commercial use (first level). Further details of the site history can be found in the Phase III Environmental Site Investigation Report, Former Third Ward Manufactured Gas Plant (RETEC, 1993).

Based on ITRC's *PFAS Technical and Regulatory Guidance Document* (https://pfas-1.itrcweb.org/) and specifically Section *2.6 PFAS Releases to the Environment,* these major sources are located both in the United States and abroad, and include:

- Industrial facilities that produce PFAS or process PFAS, or facilities that use PFAS chemicals or products in manufacturing or other activities. Primary manufacturing facilities are those where PFAS-containing products are synthesized and made into products or chemical feedstocks, or where PFAS are used as processing aids in fluoropolymer production. Secondary manufacturing facilities may use fluoropolymers and PFAS-based materials produced at primary manufacturing facilities as part of industrial processes, such as the application of coatings to finished products.
  - The following major manufacturing and industrial sources include: building and construction; textiles, leather and apparel (including carpet and furniture); paper products and packaging; metal finishing and plating; cable and wiring; industrial surfactants and fluoropolymer production; and photolithography/semiconductor industry.
- Areas where fluorine-containing Class B firefighting foams are stored, used, or released.
- Waste management facilities, such as landfills.
- Wastewater treatment residuals and areas of biosolids production and application, with more significant impacts associated with industrial wastewater discharges.

Based on the site use history, the known former MGP operations and identified post-MGP site uses do not fall within the primary or secondary manufacturing sectors or other categories. The contaminants of concern (COCs) related to the former Third Ward MGP site as well as the identified post-MGP uses have been adequately analyzed and are defined. MGP operations were discontinued in the late 1950s prior to the common use of PFAS. PFAS is not listed as a potential contaminant of concern for MGP sites

in the WDNR Site Investigation Scoping Guidance (DNR-RR-101E). Based on these facts, we do not believe that PFAS or other emerging contaminants were used, handled or stored at the site.

Comment 4: LNAPL issue at well W-20S – not clear if the text matches the cross section in terms of where the water table is.

Response: The text and cross-section are correct and consistent in representing the water table elevation in the vicinity of W-20S and One Warehouse Building, both indicating the elevation to be less than 580 feet in May 2020. However, Figure 6A (Groundwater Flow Map Upper Shallow Unit – May 2020) required revising to correctly show the May 2020 water table elevation and match the text and cross-section. The prior Figure 6A omitted using W-20S in the groundwater contouring and incorrectly showed a 581 feet elevation contour bisecting the One Warehouse building. The revised Figure 6A uses the equivalent groundwater head at W-20S calculated using the estimated LNAPL density and measured thickness, which is the elevation correctly listed in Table 3 (Groundwater Elevation Table). The use of W-20S elevation resulted in a revised shallow groundwater flow direction in the eastern area of the site, and is further discussed in the next response to comment.

As a side note, the column labeled "Depth to Water" on Table 4 (see attached revised Table 4) was also revised for a more correct description of that column as "Depth to Liquid" corresponding to the depth to the top of LNAPL, at wells where LNAPL is encountered, and the depth to the top of water where no LNAPL is encountered.

Comment 5: Provide additional information regarding the NAPL identified in boring W-42D.

Response: The W-42D boring log (attached for reference in Attachment A) identifies phase-separated liquid with a strong, tar-like odor, and a PID reading of 320 in a thin sand seam located immediately above the peat layer from 10.8 to 11.2 feet below ground surface (bgs). The 1993 RETEC report indicates this to be a DNAPL. Nearby boring W-42D-1 (attached for reference in Attachment A) located south did not observe any indications of phase-separated liquid, odors, or PID readings at the similar depth interval between 10 and 12 feet bgs. Both boring locations are shown on revised Figure 5. Also at this boring, although peat was not observed to be present, the log indicates two layers of high plasticity clay at around 11 feet and 12-13 feet around the same elevation as the peat in W-42D (11-14.5 feet) providing containment to downward migration.

Ramboll's professional judgement is that shallow groundwater quality would not be significantly affected because of the thin and isolated NAPL presence. As with other DNAPL at the site, the DNAPL is believed to be relatively immobile and in a stable condition. It is shallow and being contained vertically by the 3.5-foot thick peat layer and likely adsorbing into the soft peat layer (top of peat had odor and elevated PID). This is also supported by no indications of shallow contamination being present in boring W-42D-1 located just south of W-42D (nor any impacts indicated at this boring to 26 feet). Therefore, Figure 9A representing the extent of shallow contamination in the Upper Shallow unit is estimated correctly in the W-42D vicinity (between PAL and ES) [Figure 9A was revised for shallow groundwater flow only]. Additionally, Figure 10 remains an accurate representation of the overall 2020 ES and PAL Exceedance Boundary (attached – no revisions)

As mentioned previously, the shallow groundwater flow has been revised as shown on Figure 6A. Ramboll researched the nearby BRRTS cases, specifically closed LUST BRRTS 03-41-561415, to obtain water table elevations in the W-42D vicinity and those elevations measured in 2015 are reflected on revised Figure 6A. The extent of potential shallow groundwater impacts that may be migrating from this location are defined both laterally and vertically based on:

- W-42D is not above NR 140 enforcement standards (screened 26-31 feet) based on 2015 data (the last time it was sampled before it was paved over). The benzene concentration was 0.95 ug/L and the naphthalene concentration was non-detectable. As a reminder, during the 2007 timeframe, MMSD conducted various dewatering activities for sewer improvements in the site vicinity which was previously reported as likely causing the slightly elevated BTEX and naphthalene from 2007 to 2010 (shows decreasing trend to 2015 data).
- The top of peat slopes to the southeast, and the shallow water table elevation follows this slope based on revised Figure 6A, and also RETEC's shallow water table elevation map (1992) and the illustrated difference in shallow and deep water elevations (see RETEC figures in Attachment B).
- Well nest W-41S/W-41DL/W-41D is downgradient from this location in the southeast direction. In December 2020, shallow well W-41S had only benzene just above the NR 140 ES (16.4 ug/L) with naphthalene below the NR 140 PAL. More importantly considering a site-wide downward vertical gradient, the dissolved phase impacts in the deeper zone (lower shallow unit and clay) are well-defined in this direction at both W-41DL (installed in 2019) and W-41D. These wells indicate non-detectable to low level VOC and PAH concentrations, with occasional exceedances of the NR 140 PAL for benzene, benzo(a)pyrene, benzo(b)fluoranthene, and chrysene. The extent of NR 140 exceedances in the lower shallow unit are shown on Figure 5.

Comment 6: The additional vapor intrusion related work that is recommended is additional groundwater monitoring at the water table well MW-104S near the Marine Terminal building to confirm that benzene is below PAL since the first (of two rounds) sampling had ES exceedances for benzene and naphthalene. The last round I have data for in your report was collected on May 12, 2020. I hope the well wasn't abandoned. From Attachment A, it looks like only W-104D was abandoned.

Response: Additional groundwater samples were collected on December 14 and 15, 2020. Table 5 has been updated to include historical results through December 2020, and the groundwater laboratory report is included in Attachment C. Benzene and naphthalene were not detected at well W-104S during this sampling event confirming that benzene and naphthalene remain below the NR 140 Preventative Action Limits (PALs). The non-detectable levels of volatile compounds benzene and naphthalene in both the May and December 2020 sampling rounds provide a high level of confidence that the vapor intrusion pathway is not of concern at the Marine Terminal building.

We Energies plans to continue to sample site-wide groundwater (subset or all wells) including W-104S on a semi-annual or annual basis until all BRRTS cases are closed. We Energies will notify the WDNR if concentrations at this well would increase and potentially indicate a vapor concern.

REFERENCES

ITRC, *PFAS Technical and Regulatory Guidance Document* (https://pfas-1.itrcweb.org/)
Phase III Environmental Site Investigation, Former Third Ward Manufactured Gas Plant, RETEC, 1993

We appreciate your assistance on the review of these responses. Please do not hesitate to contact us with any questions.

Sincerely,

Julie A Zimdars, PE
Senior Managing Engineer
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"I, JULIE A. ZIMDARS, HEREBY CERTIFY THAT I AM A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF WISCONSIN, REGISTERED IN ACCORDANCE WITH THE REQUIREMENTS OF CH. A–E 4, WIS. ADM. CODE; THAT THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE RULES OF PROFESSIONAL CONDUCT IN CH. A–E 8, WIS. ADM. CODE; AND THAT, TO THE BEST OF MY KNOWLEDGE, ALL INFORMATION CONTAINED IN THIS DOCUMENT IS CORRECT AND THE DOCUMENT WAS PREPARED IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS IN CHS. NR 700 TO 726, WIS. ADM. CODE."

Brian G. Hennings, PG
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"I, BRIAN G. HENNINGS, HEREBY CERTIFY THAT I AM A HYDROGEOLOGIST AS THAT TERM IS DEFINED IN S. NR 712.03 (1), WIS. ADM. CODE, AM REGISTERED IN ACCORDANCE WITH THE REQUIREMENTS OF CH. GHSS 2, WIS. ADM. CODE, OR LICENSED IN ACCORDANCE WITH THE REQUIREMENTS OF CH. GHSS 3, WIS. ADM. CODE, AND THAT, TO THE BEST OF MY KNOWLEDGE, ALL OF THE INFORMATION CONTAINED IN THIS DOCUMENT IS CORRECT AND THE DOCUMENT WAS PREPARED IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS IN CHS. NR 700 TO 726, WIS. ADM. CODE."

Abigail Small, PE
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TABLES

FIGURES

ATTACHMENTS

Attachment A	W-42D and W-42D-1 Boring Logs
Attachment B	Phase III RETEC figures (3) – Elevation of the Top of the Peat Bed(s), Elevations of Water Levels in Shallow Wells 11/11/92 and Difference in Water Level Elevations Between Shallow and Deep Wells 11/11/92
Attachment C	Groundwater Laboratory Analytical Report - December 14 & 15, 2020

cc: Mr. Frank Dombrowski, WBS/We Energies

TABLES

Table 4. NAPL Accumulation in Wells

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS # 02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP),
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee),
02-41-557057 (Hoffmann),
02-41-577202 (One Catalano Square) (off-site)

Location	Date	Depth to Liquid (ft) [1]	LNAPL Thickness (ft)	DNAPL Thickness (ft)
RW-3	11/19/2003	9.94	Trace	--
	3/17/2005	10.10	Trace	--
	9/19/2005	9.90	Trace	--
	3/26/2007	11.35	--	0.67
	3/24/2008	9.45	--	0.52
	3/29/2010	9.73	--	0.61
	6/1/2010	9.46	--	0.53
	8/23/2016	8.55	--	1.00
	12/1/2016	8.61	--	0.85
	2/28/2017	8.81	--	1.05
	8/30/2017	8.12	--	0.95
	9/29/2017	--	--	0.60
	Average of Observed NAPL:		--	**0.75**
SB-1	10/13/2008	7.19	--	**--**
	11/26/2008	7.82	--	17.3
	Average of Observed NAPL:		--	**17.3**
SB-3A	10/2/2008	5.53	--	--
	10/7/2008	5.46	--	Trace
	10/9/2008	5.28	--	Trace
	10/13/2008	5.33	--	Trace
	10/14/2008	5.31	--	Trace
	11/7/2008	5.50	--	Trace
	11/26/2008	5.78	--	1.10
	Average of Observed NAPL:		--	**1**

Table 4. NAPL Accumulation in Wells

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02-41-557057 (Hoffmann),
02-41-577202 (One Catalano Square) (off-site)

Location	Date	Depth to Liquid (ft) [1]	LNAPL Thickness (ft)	DNAPL Thickness (ft)
W-20S	11/19/2003	7.50	0.80	--
	3/8/2004	7.08	0.38	--
	6/7/2004	7.02	0.57	--
	9/7/2004	7.66	0.81	--
	12/6/2004	7.55	0.73	--
	3/17/2005	7.62	0.73	--
	6/29/2005	7.60	0.68	--
	9/19/2005	7.55	0.67	--
	12/27/2005	7.42	0.47	--
	3/20/2006 [2]	7.42	0.67	--
	9/25/2006 [2]	8.83	1.66	--
	3/26/2007	7.51	0.74	--
	9/18/2007	7.57	0.81	--
	3/24/2008	6.45	0.14	--
	3/23/2009	6.92	0.24	--
	6/2/2009	7.00	0.15	--
	12/2/2009	7.16	0.25	--
	3/29/2010	7.03	0.20	--
	6/1/2010	7.00	0.21	--
	8/22/2016	6.85	0.80	--
	12/1/2016	6.78	0.70	--
	2/27/2017	6.67	0.95	--
	12/18/2019	6.69	0.69	--
	5/11/2020	6.55	0.50	--
	Average of Observed NAPL:		**0.61**	**--**
W-20I	3/17/2005	6.38	Trace	--
	9/19/2005	6.69	Trace	--
	9/18/2007	7.05	Trace	--
	8/22/2016	6.58	Trace	0.35
	12/1/2016	6.45	Trace	0.23
	2/27/2017	6.69	Trace	0.25
	12/18/2019	6.5	--	0.3
	5/11/2020	6.32	--	0.23
	12/15/2020	6.38	nm [7]	0.60
	Average of Observed NAPL:		**Trace**	**0.33**

Table 4. NAPL Accumulation in Wells

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02-41-557057 (Hoffmann),
02-41-577202 (One Catalano Square) (off-site)

Location	Date	Depth to Liquid (ft) [1]	LNAPL Thickness (ft)	DNAPL Thickness (ft)
W-22I	12/6/2004	8.28	Trace	--
	3/20/2006 [2]	10.82	Trace	--
	9/25/2006 [2]	12.19	Trace	--
	Average of Observed NAPL:		**Trace**	**--**
W-53D	11/29/2003	12.43	--	10.18
	3/8/2004	13.08	Trace	9.78
	6/7/2004	11.57	--	7.69
	9/7/2004	11.30	--	2.73
	12/6/2004	11.48	--	9.73
	3/17/2005	12.43	--	6.78
	6/29/2005	11.66	--	10.43
	9/19/2005	11.87	--	9.54
	12/27/2005	11.78	--	3.41
	3/20/2006 [2]	14.69	--	7.03
	9/25/2006 [2]	17.44	--	5.73
	3/26/2007	14.72	--	14.62
	9/18/2007	12.08	--	9.27
	3/24/2008	13.34	--	8.93
	3/23/2009	12.23	--	9.81
	6/2/2009	14.36	--	30.52 [3]
	9/28/2009	11.75	--	10.96
	12/2/2009	12.8	--	11.33
	3/29/2010	13.03	--	11.26
	12/1/2016	11.58	--	10.47
	3/6/2017	11.76	--	10.80
	7/11/2017 [4]	--	--	-- [6]
	8/30/2017	15.58 [5]	--	-- [6]
	9/29/2017	17.85 [5]	--	7.42
	11/21/2017	15.47	--	-- [6]
	Average of Observed NAPL:		**--**	**10**

Table 4. NAPL Accumulation in Wells

Former Third Ward MGP, Milwaukee, Wisconsin
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02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee),
02-41-557057 (Hoffmann),
02-41-577202 (One Catalano Square) (off-site)

Location	Date	Depth to Liquid (ft) [(1)]	LNAPL Thickness (ft)	DNAPL Thickness (ft)
W-104DL	11/7/2019	7.77	--	--
	11/15/2019	7.94	--	Trace
	11/21/2019	7.93	--	Trace
	12/16/2019	8.21	--	Trace
	2/12/2020	8.04	--	--
	5/11/2020	7.71	--	Trace
	12/15/2020	8.14	--	Trace
	Average of Observed NAPL:		**--**	**Trace**
TW-111	12/1/2016	11.19	--	3.02
	2/28/2017	11.55	--	3.06
	Average of Observed NAPL:		**--**	**3.0**
TW-115	12/1/2016	9.87	--	3.70
	2/28/2017	10.19	--	4.26
	Average of Observed NAPL:		**--**	**4.0**

[O: GFF 3/23/17 C: KLT 3/24/17 U: AAS 10/28/20, U: AAS: 4/23/21]

Notes:

1. Depth to liquid measured from top of casing. Corresponds to depth to LNAPL where LNAPL was encountered and depth to water where LNAPL was not encountered.
2. Depth to water and NAPL measured during dewatering activities for local utility work.
3. DNAPL thickness measurement is anomalous and not correct given a 42-foot known well depth. Value not included in observed NAPL average.
4. Extraction pipe inside of well was replaced prior to this measurement.
5. Well is no longer properly recharging between monitoring events.
6. DNAPL thickness measurement using string and sinker method was inconclusive.
7. nm = LNAPL observed on probe but not able to be measured due to probe malfunction.

Table only includes sampling events and those wells where NAPL was assessed.

--	No NAPL noted
ft	feet
LNAPL	Light Non-Aqueous Phase Liquid
DNAPL	Dense Non-Aqueous Phase Liquid
NAPL	Non-Aqueous Phase Liquid

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
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Station Name:				W-13																		W-20I								
Depth Level Unit:				Upper Shallow																		Lower Shallow								
Sample Date (m/d/yyyy):	Units	WI GW PAL	WI GW ES	6/18/2002	11/20/2003	3/9/2004	3/11/2004	6/8/2004	9/10/2004	12/8/2004	3/18/2005	3/22/2005	9/20/2005	3/23/2006	9/27/2006	3/29/2007	9/20/2007	3/27/2008	9/3/2008	3/30/2009	9/30/2009	3/21/2005	9/19/2005	3/23/2006	10/2/2006	3/28/2007	9/20/2007	3/25/2008	2/28/2017	12/18/2019
BTEX																														
Benzene	µg/L	0.5	**5**	<0.1 U	2.8	1.4	--	7.4	12	16	8.1	--	14	8.5	5.2	8.4	21	12	14	<0.2 U	8.6	7,900	6,600	5,600	7,100	5,600	5,800	6,100	3,470	3,670
Ethylbenzene	µg/L	140	**700**	<0.25 U	8.2	4	--	11	25	29	14	--	24	17	44	33	120	98	79	0.95 J	60	3,500	2,700	3,000	4,000	3,500	3,200	3,200	2,430	2,260
Toluene	µg/L	160	**800**	<0.1 U	0.47	<0.2 U	--	1.4	1.6	2.1	0.67	--	0.96	0.59 J	0.35 J	0.61 J	4.9	2.8	2.1	<0.5 U	1.4	2,400	1,800	2,000	2,600	1,400	910	1,700	217	117 J
Xylene, o	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	872	747
Xylenes, m + p	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,190	826
Xylenes, Total [1]	µg/L	400	**2,000**	<0.25 U	3.4	1.6	--	4.2	8.6	12	4.4	--	8.8	2.8	5.9	9.2	55	38	30	<0.5 U	25	2,800	2,100	2,100	3,100	2,500	2,200	2,700	2,062	1573
Total BTEX [2]	µg/L	NS	**NS**	<0.7 U	14.87	7	--	24	47.2	59.1	27.17	--	47.76	28.89	55.45	51.21	200.9	150.8	125.1	0.95	95	16600	13200	12700	16800	13000	12110	13700	8179	7620
VOCs																														
1,1,1,2-Tetrachloroethane	µg/L	7	**70**	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<1 U	<0.25 U	<0.25 U	--	<40.00 U	<40 U	<20 U	<40 U	<62 U	<25 U	<50 U	<18.1 U	<26.9 U
1,1,1-Trichloroethane	µg/L	40	**200**	<0.25 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<2 U	<0.5 U	<0.5 U	--	<80.0 U	<80 U	<40 U	<80 U	<120 U	<50 U	<100 U	<50.0 U	<24.5 U
1,1,2,2-Tetrachloroethane	µg/L	0.02	**0.2**	<0.25 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.8 U	<0.2 U	<0.2 U	--	<32.0 U	<32 U	<16 U	<32 U	<50 U	<20 U	<40 U	<24.9 U	<27.5 U
1,1,2-Trichloroethane	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<1 U	<0.25 U	<0.25 U	--	<40.00 U	<40 U	<20 U	<40 U	<62 U	<25 U	<50 U	<19.7 U	<55.2 U
1,1-Dichloroethane	µg/L	85	**850**	<0.25 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<2 U	<0.5 U	<0.5 U	--	<80.0 U	<80 U	<40 U	<80 U	<120 U	<50 U	<100 U	<24.2 U	<27.3 U
1,1-Dichloroethene	µg/L	0.7	**7**	<0.25 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<2 U	<0.5 U	<0.5 U	--	<80.0 U	<80 U	<40 U	<80 U	<120 U	<50 U	<100 U	<41.0 U	<24.5 U
1,1-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<2 U	<0.5 U	<0.5 U	--	<80.0 U	<80 U	<40 U	<80 U	<120 U	<50 U	<100 U	<44.1 U	<54.0 U
1,2,3-Trichlorobenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<1 U	<0.25 U	<0.25 U	--	<40.00 U	<40 U	<20 U	<40 U	<62 U	<25 U	<50 U	<213 U	<62.6 U
1,2,3-Trichloropropane	µg/L	12	**60**	<0.25 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<2 U	<0.5 U	<0.5 U	--	<80.0 U	<80 U	<40 U	<80 U	<120 U	<50 U	<100 U	<50.0 U	<59.1 U
1,2,4-Trichlorobenzene	µg/L	14	**70**	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<1 U	<0.25 U	<0.25 U	--	<40.00 U	<40 U	<20 U	<40 U	<62 U	<25 U	<50 U	<221 U	<95.1 U
1,2-Dibromo-3-chloropropane	µg/L	0.02	**0.2**	<0.25 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<2 U	<0.5 U	<0.5 U	--	<80.0 U	<80 U	<40 U	<80 U	<120 U	<50 U	<100 U	<216 U	<176 U
1,2-Dibromoethane	µg/L	0.005	**0.05**	<0.25 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.8 U	<0.2 U	<0.2 U	--	<32.0 U	<32 U	<16 U	<32 U	<50 U	<20 U	<40 U	<17.8 U	<82.9 U
1,2-Dichlorobenzene	µg/L	60	**600**	<0.25 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.8 U	<0.2 U	<0.2 U	--	<32.0 U	<32 U	<16 U	<32 U	<50 U	<20 U	<40 U	<50.0 U	<70.5 U
1,2-Dichloroethane	µg/L	0.5	**5**	<0.25 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<2 U	<0.5 U	<0.5 U	--	<80.0 U	<80 U	<40 U	<80 U	<120 U	<50 U	<100 U	<16.8 U	<28.0 U
1,2-Dichloropropane	µg/L	0.5	**5**	<0.25 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<2 U	<0.5 U	<0.5 U	--	<80.0 U	<80 U	<40 U	<80 U	<120 U	<50 U	<100 U	<23.3 U	<28.3 U
1,2,4-Trimethylbenzene	µg/L	NS	**NS**	<0.1 U	4.7	2.6	--	3.1	9.4	9.5	4.2	--	9.4	6.2	4.9	9.6	31	26	25	0.22 J	24	390	260	68	420	350	320	320	356	250 J
1,3,5-Trimethylbenzene	µg/L	NS	**NS**	<0.1 U	<0.2 U	<0.2 U	--	<0.2 U	0.46	0.39	0.2	--	0.57 J	<0.2 U	0.25 J	0.54 J	5.5	2.9	2	<0.2 U	2	74	70 J	72	170	62 J	88	98 J	111	<87.3 U
Trimethylbenzenes, Total [3]	µg/L	96	**480**	<0.2 U	4.7	2.6	--	3.1	9.86	9.89	4.4	--	9.97 J	6.2	5.15 J	10.14 J	36.5	28.9	27	0.22 J	26	464	330 J	140	590	412 J	408 J	418 J	467	250
1,3-Dichlorobenzene	µg/L	120	**600**	<0.25 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.8 U	<0.2 U	<0.2 U	--	<32.0 U	<32 U	<16 U	<32 U	<50 U	<20 U	<40 U	<50.0 U	<62.8 U
1,3-Dichloropropane	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<1 U	<0.25 U	<0.25 U	--	<40.00 U	<40 U	<20 U	<40 U	<62 U	<25 U	<50 U	<50.0 U	<82.6 U
1,4-Dichlorobenzene	µg/L	15	**75**	<0.25 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.8 U	<0.5 U	<0.5 U	--	<32.0 U	<32 U	<16 U	<32 U	<50 U	<20 U	<40 U	<50.0 U	<94.4 U
2,2-Dichloropropane	µg/L	NS	**NS**	<0.25 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<2 U	<0.5 U	<0.5 U	--	<80.0 U	<80 U	<40 U	<80 U	<120 U	<50 U	<100 U	<48.4 U	<227 U
2,3-Dichloropropene	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	<0.25 U	<0.25 U	<1 U	<0.25 U	<0.25 U	--	--	--	--	--	<62 U	<25 U	<50 U	--	--
2-Chlorotoluene	µg/L	NS	**NS**	<0.1 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<2 U	<0.5 U	<0.5 U	--	<80.0 U	<80 U	<40 U	<80 U	<120 U	<50 U	<100 U	<50.0 U	<92.6 U
4-Chlorotoluene	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.8 U	<0.2 U	<0.2 U	--	<32.0 U	<32 U	<16 U	<32 U	<50 U	<20 U	<40 U	<21.4 U	<75.6 U
4-Isopropyltoluene	µg/L	NS	**NS**	<0.25 U	0.31	<0.2 U	--	<0.2 U	0.51	0.45	0.28	--	0.42 J	0.2 J	0.28 J	0.47 J	1.3	<0.8 U	0.87	<0.2 U	--	<32.0 U	<32 U	<16 U	<32 U	<50 U	<20 U	<40 U	<50.0 U	<80.0 U
Bromobenzene	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.8 U	<0.2 U	<0.2 U	--	<32.0 U	<32 U	<16 U	<32 U	<50 U	<20 U	<40 U	<23.0 U	<24.1 U
Bromochloromethane	µg/L	NS	**NS**	<0.25 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<2 U	<0.5 U	<0.5 U	--	<80.0 U	<80 U	<40 U	<80 U	<120 U	<50 U	<100 U	<34.0 U	<36.2 U
Bromodichloromethane	µg/L	0.06	**0.6**	<0.25 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.8 U	<0.2 U	<0.2 U	--	<32.0 U	<32 U	<16 U	<32 U	<50 U	<20 U	<40 U	<50.0 U	<36.4 U
Bromoform	µg/L	0.44	**4.4**	<0.25 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.8 U	<0.2 U	<0.2 U	--	<32.0 U	<32 U	<16 U	<32 U	<50 U	<20 U	<40 U	<50.0 U	<397 U
Bromomethane	µg/L	1	**10**	<0.25 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.8 U	<0.5 U	<0.5 U	--	<32.0 U	<32 U	<16 U	<32 U	<50 U	<20 U	<40 U	<243 U	<97.1 U
Carbon Tetrachloride	µg/L	0.5	**5**	<0.25 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<2 U	<0.5 U	<0.5 U	--	<80.0 U	<80 U	<40 U	<80 U	<120 U	<50 U	<100 U	<50.0 U	<16.6 U
Chlorobenzene	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.8 U	<0.2 U	<0.2 U	--	<32.0 U	<32 U	<16 U	<32 U	<50 U	<20 U	<40 U	<50.0 U	<71.1 U
Chloroethane	µg/L	80	**400**	<0.25 U	<1 U	<1 U	--	<1 U	<1 U	<1 U	<1 U	--	<1 U	<1 U	<1 U	<1 U	<1 U	<4 U	<1 U	<1 U	--	<160 U	<160 U	<80 U	<160 U	<250 U	<100 U	<200 U	<37.5 U	<134 U
Chloroform	µg/L	0.6	**6**	<0.25 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.8 U	<0.2 U	<0.2 U	--	<32.0 U	<32 U	<16 U	<32 U	<50 U	<20 U	<40 U	<250 U	<127 U
Chloromethane	µg/L	3	**30**	<0.25 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	0.49 J	<0.8 U	<0.3 U	<0.3 U	--	<32.0 U	<32 U	<16 U	120	<50 U	<20 U	<40 U	<50.0 U	<219 U
cis-1,2-Dichloroethene	µg/L	7	**70**	<0.25 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	0.61 J	<0.5 U	<2 U	<0.5 U	<0.5 U	--	<80.0 U	<80 U	<40 U	<80 U	<120 U	<50 U	<100 U	<25.6 U	<27.1 U
cis-1,3-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.8 U	<0.2 U	<0.2 U	--	<32.0 U	<32 U	<16 U	<32 U	<50 U	<20 U	<40 U	<50.0 U	<363 U
trans-1,3-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.8 U	<0.2 U	<0.2 U	--	<32.0 U	<32 U	<16 U	<32 U	<50 U	<20 U	<40 U	<23.0 U	<437 U
1,3-Dichloropropene [4]	µg/L	0.04	**0.4**	<0.5 U	<0.4 U	<0.4 U	--	<0.4 U	<0.4 U	<0.4 U	<0.4 U	--	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<1.6 U	<0.4 U	<0.4 U	--	<64 U	<64 U	<32 U	<64 U	<100 U	<40 U	<80 U	<73 U	<800 U
Dibromochloromethane	µg/L	6	**60**	<0.25 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.8 U	<0.2 U	<0.2 U	--	<32.0 U	<32 U	<16 U	<32 U	<50 U	<20 U	<40 U	<50.0 U	<260 U
Dibromomethane	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.8 U	<0.2 U	<0.2 U	--	<32.0 U	<32 U	<16 U	<32 U	<50 U	<20 U	<40 U	<42.7 U	<93.7 U
Freon 12	µg/L	200	**1,000**	<0.25 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<2 U	<0.5 U	<0.5 U	--	<80.0 U	<80 U	<40 U	<80 U	<120 U	<50 U	<100 U	<22.4 U	<50.0 U
Hexachlorobutadiene	µg/L	NS	**NS**	<0.25 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<2 U	<0.5 U	<0.5 U	--	<80.0 U	<80 U	<40 U	<80 U	<120 U	<50 U	<100 U	<211 U	<118 U
Isopropyl ether	µg/L	NS	**NS**	<0.25 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<2 U	<0.5 U	<0.5 U	--	<80.0 U	<80 U	<40 U	<80 U	<120 U	<50 U	<100 U	<50.0 U	<189 U
Isopropylbenzene	µg/L	NS	**NS**	<0.25 U	3.4	1.5	--	2.5	6.8	7.7	4.1	--	7.8	5.6	8.9	7.8	15	16	14	<0.2 U	--	120	82 J	93	130	110 J	110	100 J	82.1 J	68.1 J
Methylene chloride (DCM)	µg/L	0.5	**5**	<0.25 U	<1 U	<1 U	--	1.8	<1 U	<1 U	<1 U	--	<1 U	<1 U	<1 U	<1 U	<1 U	<4 U	<1 U	<1 U	--	<160 U	<160 U	<80 U	<160 U	<250 U	<100 U	<200 U	<23.3 U	<58.1 U
Methyl-tert-butyl-ether	µg/L	12	**60**	<0.25 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<2 U	<0.5 U	<0.5 U	<0.23 U	<80.0 U	<80 U	<40 U	<80 U	<120 U	<50 U	<100 U	<17.4 U	<125 U
Naphthalene	µg/L	10	**100**	0.34	7.5	2.4	--	6	13	20	7	--	25	3.5	3.1	15	200	110	100	0.62 J	--	8,000	5,700	7,500	11,000	7,500	8,000	9,900	9,050	7,460
n-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	0.74	<0.2 U	<0.2 U	<0.2 U	<0.2 U	1.2 J	<0.2 U	<0.2 U	--	<32.0 U	<32 U	<16 U	<32 U	<50 U	<20 U	<40 U	<50.0 U	<70.8 U
n-Propylbenzene	µg/L	NS	**NS**	<0.25 U	2.1	0.84	--	1.1	3.8	4.2	2.2	--	4.2	2.8	4.9	4.1	7.8	8	8.3	<0.5 U	--	<80.0 U	<80 U	<40 U	<80 U	<120 U	<50 U	<100 U	<50.0 U	<81.1 U
sec-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<1 U	<0.25 U	<0.25 U	--	<40.00 U	<40 U	<20 U	<40 U	<62 U	<25 U	<50 U	<219 U	<84.9 U
Styrene	µg/L	10	**100**	<0.25 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.8 U	<0.5 U	<0.5 U	--	<32.0 U	<32 U	<16 U	<32 U	<50 U	<20 U	<40 U	<50.0 U	<46.5 U
tert-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.8 U	<0.2 U	<0.2 U	--	<32.0 U	<32 U	<16 U	<32 U	<50 U	<20 U	<40 U	<18.0 U	<30.4 U
Tetrachloroethene	µg/L	0.5	**5**	<0.25 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<2 U	<0.5 U	<0.5 U	--	<80.0 U	<80 U	<40 U	<80 U	<120 U	<50 U	<100 U	<50.0 U	<32.6 U
trans-1,2-Dichloroethene	µg/L	20	**100**	<0.25 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<2 U	<0.5 U	<0.5 U	--	<80.0 U	<80 U	<40 U	<80 U	<120 U	<50 U	<100 U	<25.7 U	<109 U
Trichloroethene	µg/L	0.5	**5**	<0.25 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.8 U	<0.2 U	<0.2 U	--	<32.0 U	<32 U	<16 U	<32 U	<50 U	<20 U	<40 U	<33.1 U	<25.5 U
Trichlorofluoromethane	µg/L	NS	**NS**	<0.25 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<2 U	<0.5 U	<0.5 U	--	<80.0 U	<80 U	<40 U	<80 U	<120 U	<50 U	<100 U	<18.5 U	<21.5 U
Vinyl Chloride	µg/L	0.02	**0.2**	<0.25 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.80 U	<0.2 U	<0.2 U	--	<32.0 U	<32 U	<16 U	<32 U	<50 U	<20 U	<40 U	<17.6 U	<17.5 U

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:	Units	WI GW PAL	WI GW ES	W-13																		W-20I									
Depth Level Unit:				Upper Shallow																		Lower Shallow									
Sample Date (m/d/yyyy):				6/18/2002	11/20/2003	3/9/2004	3/11/2004	6/8/2004	9/10/2004	12/8/2004	3/18/2005	3/22/2005	9/20/2005	3/23/2006	9/27/2006	3/29/2007	9/20/2007	3/27/2008	9/3/2008	3/30/2009	9/30/2009	3/21/2005	9/19/2005	3/23/2006	10/2/2006	3/28/2007	9/20/2007	3/25/2008	2/28/2017	12/18/2019
PAHs																															
1-Methylnaphthalene	µg/L	NS	**NS**	8.7	24	16	--	32	89	100	55	--	110	35	--	52	160	170	160	4.3	230	--	560	--	1,600	530	1,100	1,400	299	293
2-Methylnaphthalene	µg/L	NS	**NS**	15	<0.3 U	4.8	--	7.9	23	22	15	--	24	25	--	11	26	27	20	2.6 J	40	--	780	--	2,300	730	1,700	2,100	366	357
Acenaphthene	µg/L	NS	**NS**	46	36	16	--	24	65	57	45	--	67	33	--	26	61	69	61	4.8	92	--	180	--	680	180	460	540	100	108
Acenaphthylene	µg/L	NS	**NS**	<2.30 U	<0.25 U	0.52	--	<0.83 U	<0.69 U	<0.69 U	<0.69 U	--	<0.79 U	<0.71 U	--	<0.7 U	<3.5 U	<0.71 U	<0.69 U	<1.7 U	<0.76 U	--	<6.9 U	--	<9.2 U	<3.5 U	<7.2 U	<8.6 U	10.4 J	9.3	
Anthracene	µg/L	600	**3,000**	5.5	3.1	1.1	--	1.9	5.4	4.6	4	--	1.4	3.8	--	3.6	5	7.4	6.1	3.4	7.8	--	18	--	270	36	130	200	22.4 J	6.3 J	
Benzo(a)anthracene	µg/L	NS	**NS**	<1.50 U	0.54	0.4	--	<0.190 U	0.3	0.93	2.1	--	1.8	9.4	--	1.3	0.84	3	0.25	2.4	1.3	--	18	--	160	18	86	110	<3.7 U	<2.4 U	
Benzo(a)pyrene	µg/L	0.02	**0.2**	**1.8**	**0.2**	**0.26**	--	<0.110 U	**0.22**	**0.44**	**1.2**	--	**0.87**	**11**	--	**1.7**	**1.4**	**3.5**	**0.25**	**3.8**	**0.8**	--	**2.8**	--	**120**	**13**	**59**	**67**	<5.2 U	<3.3 U	
Benzo(b)fluoranthene	µg/L	0.02	**0.2**	<0.450 U	0.12	0.071	--	<0.180 U	0.17	0.16	**0.5**	--	**0.26** J	**16**	--	2	1.9	**2.9**	0.14 J	**4.4**	**1.1**	--	<0.98 U	--	**39**	3.9	17	**24**	<2.8 U	**3.9** J	
Benzo(g,h,i)perylene	µg/L	NS	**NS**	<1.70 U	<0.096 U	0.41	--	<0.320 U	0.17	0.23	0.59	--	0.57	15	--	1.5	1.6	2	0.14 J	3.2	0.6	--	1.7 J	--	45	4.9	21	20	<3.3 U	<2.1 U	
Benzo(k)fluoranthene	µg/L	NS	**NS**	0.54	0.11	0.11	--	<0.150 U	0.099	0.19	0.38	--	0.38	8.4	--	1.1	0.89	1.6	0.12 J	1.7	0.22	--	1.4 J	--	27	3.2	8	17	<3.7 U	<2.4 U	
Chrysene	µg/L	0.02	**0.2**	**1.3**	**0.21**	0.19	--	<0.160 U	**0.25**	**0.4**	**1.2**	--	**1.1**	**14**	--	**1.9**	**1.3**	**1.3**	0.099 J	**5.4**	**1.6**	--	**5.5**	--	**88**	**12**	**55**	**69**	**9.9** J	**14.4** J	
Dibenz(a,h)anthracene	µg/L	NS	**NS**	<0.850 U	<0.064 U	<0.072 U	--	<0.210 U	<0.13 U	<0.13 U	<0.13 U	--	<0.15 U	2.3	--	0.31 J	<0.66 U	0.34	<0.13 U	0.35 J	<0.14 U	--	<1.3 U	--	11	0.9 J	5	5.5	<4.9 U	<3.2 U	
Fluoranthene	µg/L	80	**400**	8.6	4.4	1.9	--	1.8	11	12	13	--	18	46	--	11	13	17	7.8	21	17	--	60	--	**590**	81	350	**400**	11.9 J	10.9 J	
Fluorene	µg/L	80	**400**	4.6	2	0.71	--	1.2	4.9	5.9	2.4	--	5.7	2	--	2.6	8.6	14	10	0.45 J	8.3	--	82	--	**600**	120	300	**620**	19.2 J	21.1	
Indeno(1,2,3-cd)pyrene	µg/L	NS	**NS**	1.2	<0.031 U	0.11	--	<0.100 U	0.11	0.2	<0.062 U	--	0.33	12	--	1.7	1.3	3	0.16	3.6	0.84	--	1.1 J	--	38	3.7	18	22	<8.6 U	<5.6 U	
Naphthalene	µg/L	10	**100**	9.4	<0.26 U	1.5	--	8.1	14	25	9.9	--	27	15	--	8.4	**200**	**130**	87	1.9 J	87	--	**6,700**	--	**11,000**	**5,700**	**9,700**	**16,000**	**2,900**	**3,030**	
Phenanthrene	µg/L	NS	**NS**	8.3	1.2	0.57	--	1.4	6.9	8.2	4.1	--	8.1	21	--	6.5	13	14	10	2	17	--	97	--	940	150	450	970	60.7	55.4	
Pyrene	µg/L	50	**250**	6	0.66	1.3	--	0.73	3.8	5.2	5.2	--	6.6	31	--	4.4	3.6	5.5	1.4	14	15	--	16	--	210	32	160	190	16.5 J	25.5	
Total PAH (16) [5]	µg/L	NS	**NS**	93.24	48.54	25.151	--	39.13	112.319	120.45	89.57	--	139.11	239.9	--	74.01	313.43	274.54	184.459	72.4	250.56	--	7183.5	--	14818	6358.6	11819	19254.5	3151	3284.8	
Petroleum Hydrocarbons																															
Diesel Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Gasoline Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Metals																															
Iron, Total	µg/L	150	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	200	**1,700**	--	--	--	--	--	--	--	--	--	
Cyanide																															
Cyanide DISS (amenable)	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	<77 U	--	--	**5,700**	<7.7 U	--	**560**	--	--	--	--	--	--	--	--	--	--	--	--	
Cyanide DISS, total	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	**3,600**	--	--	**6,200**	**2,400**	**3,400**	**4,200**	--	--	--	--	--	--	--	--	--	--	--	--	
Cyanide, Amenable	µg/L	40	**200**	--	--	--	--	--	--	--	--	<7.7 U	**700**	--	--	--	--	--	--	21 J	--	--	--	--	--	--	--	--	--	--	--	
Cyanide, Total	µg/L	40	**200**	--	--	--	--	--	--	--	--	**4,000**	**4,700**	--	--	--	--	--	--	180	--	--	--	--	--	--	--	--	--	--	--	
Lab MNA Parameters																															
Carbon Dioxide	µg/L	NS	**NS**	58,000	88,000	--	37,000	--	56,000	--	48,000	--	58,000	43,000	--	27,000	59,000	--	66,000	10,000	--	--	300,000	--	420,000	450,000	370,000	--	--	--	
Carbon monoxide	mg/L	10,000	**10,000**	<0.4 U	<0.4 U	--	<0.40 U	--	--	--	--	--	--	--	--	<1 U	<1 U	--	<1 U	--	--	--	--	--	<1 U	<1 U	<1 U	--	--	--	
Ethane	µg/L	NS	**NS**	4.800	0.520	--	0.910	--	3.100	--	3.000	--	2.1	2	--	2.6	1.7	2.8	1.6	<0.025 U	--	--	1.4	--	4.1	2.6	1.3	2.3	--	--	
Ethene	µg/L	NS	**NS**	0.029	0.030	--	0.0063	--	<0.0050 U	--	<0.005 U	--	0.04	0.068	--	0.042	<0.025 U	0.18	<0.025 U	<0.025 U	--	--	0.72	--	0.27	0.21	0.25	0.38	--	--	
Iron, Dissolved	µg/L	150	**300**	--	**470**	--	**440**	--	**380**	--	**640**	--	**1,400**	**2,100**	--	**2,300** J	**1,600**	**1,500**	**1,800**	--	--	--	**29,000**	--	**21,000**	**21,000**	**22,000**	**10,000**	--	**26,400**	
Manganese, Dissolved	µg/L	60	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**850**	
Methane	µg/L	NS	**NS**	9,100	1,100	--	2,700	--	7,400	--	5,500	--	5,400	3,300	--	4,200	3,500	4,900	2,800	2	--	--	11,000	--	14,000	17,000	13,000	10,000	--	--	
Nitrogen, NO2 + NO3, Total	µg/L	2,000	**10,000**	<500 U	<24 U	<24 U	--	--	<24 U	--	430	--	48 J	<100 U	--	--	<100 U	<100 U	<100 U	<100 U	--	--	64 J	--	<100 U	690 J	<100 U	<100 U	--	<59 U	
Nitrogen	µg/L	NS	**NS**	15,000	19,000	--	16,000	--	--	--	--	--	--	--	--	20,000	16,000	--	--	21,000	--	--	--	--	5,800	3,500	3,700	--	--	--	
Oxygen	µg/L	NS	**NS**	590	960	--	1,400	--	--	--	--	--	--	--	--	820	670	--	1,400	7,000	--	--	--	--	1,200	<500 U	840	--	--	--	
Sulfate, Total	µg/L	125,000	**250,000**	**320,000**	**250,000**	120,000	--	--	**340,000**	--	**530,000**	--	**320,000**	**700,000**	--	--	**640,000**	**500,000**	**1,000,000**	36,000	**580,000**	--	<10,000 U	--	<10,000 U	4,260	<250 U	56,000	--	<4,400 U	
Field Parameters																															
Dissolved oxygen	mg/L	NS	**NS**	--	2.23	0.31	0.31	0.81	0.37	1.15	0.15	--	0.16	--	--	--	--	--	--	6.05	--	--	--	--	--	--	--	--	--	--	--	
Groundwater, depth to	feet	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.33	--	
Oxidation Reduction Potential	millivolts	NS	**NS**	--	-107.8	-293	-92.9	-129.3	-130.8	-293.6	-180.4	--	-324	--	--	--	--	--	--	-38.6	--	--	--	--	--	--	--	--	--	--	--	
pH, Field	s.u.	NS	**NS**	--	6.93	7.25	7.16	7.04	7.98	7.34	7.37	--	7.12	--	--	--	--	--	--	7.24	--	--	--	--	--	--	--	--	--	--	--	
Specific Conductance, Field	µS/cm	NS	**NS**	--	2,825	1,696	3,476	3,518	4,291	--	3,961	--	5,275	--	--	--	--	--	--	2,528	--	--	--	--	--	--	--	--	--	--	--	
Temperature, Water	Deg C	NS	**NS**	--	18.13	10.65	10.94	15.1	19.34	16.61	10.83	--	19.27	--	--	--	--	--	--	8.97	--	--	--	--	--	--	--	--	--	--	--	
Turbidity, Quantitative	NTUs	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:	Units	WI GW PAL	WI GW ES	W-20S		W-22I																								
Depth Level Unit:				Upper Shallow		Lower Shallow																								
Sample Date (m/d/yyyy):				12/19/2000	6/20/2002	6/20/2002	11/25/2003	3/11/2004	6/8/2004	12/10/2004	3/21/2005	9/23/2005	3/24/2006	9/29/2006	3/28/2007	9/20/2007	3/24/2008	9/9/2008	3/27/2009	9/29/2009	12/3/2009	3/30/2010	6/2/2010	8/27/2015	8/23/2016	8/23/2016 (Dup)	2/28/2017	2/12/2020
BTEX																														
Benzene	µg/L	0.5	**5**	**670**	**530**	**19,000**	**12,000**	**12,000**	**8,400**	**10,000**	**12,000**	**10,000**	**10,000**	**13,000**	**13,000**	**16,000**	**15,000**	**13,000**	**14,000**	**15,000**	**18,000**	**13,000**	**14,000**	**14,000**	**15,500**	**15,900**	**14,100**	**13,600**
Ethylbenzene	µg/L	140	**700**	490	430	**4,500**	**3,000**	**3,200**	**2,600**	**4,000**	**4,300**	**4,400**	**3,600**	**4,400**	**4,100**	**4,400**	**3,900**	**2,400**	**3,700**	**3,300**	**4,600**	**3,100**	**2,800**	**2,800**	**3,110**	**3,150**	**2,470**	**2,170**
Toluene	µg/L	160	**800**	<4.0 U	6.2	**3,800**	**2,700**	**2,200**	**1,700**	**2,300**	**2,500**	**1,900**	**1,800**	**1,900**	**1,700**	**1,700**	**1,400**	660	**1,100**	**810**	**1,200**	680	**800**	110	185	164	209	55.0 J
Xylene, o	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	679	694	601	487
Xylenes, m + p	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	788	762	720	364
Xylenes, Total[1]	µg/L	400	**2,000**	40	51	**2,400**	1,800	1,600	1,100	**2,100**	**2,100**	**2,200**	1,900	**2,500**	**2,400**	**2,600**	**2,300**	1,300	**2,200**	1,900	**2,700**	1,700	1,700	1,400	1,467	1,456	1,321	851
Total BTEX [2]	µg/L	NS	**NS**	1200	1017.2	29700	19500	19000	13800	18400	20900	18500	17300	21800	21200	24700	22600	17360	21000	21010	26500	18480	19300	18310	20262	20670	18100	16676
VOCs																														
1,1,1,2-Tetrachloroethane	µg/L	7	**70**	<10.00 U	<2.50 U	<100.00 U	<10.00 U	<50.00 U	<1.20 U	<50.00 U	<25.00 U	<62 U	<0.25 U	<50 U	<62 U	<100 U	<100 U	<62 U	<62 U	--	--	--	--	<5 U	<22.6 U	<18.1 U	<18.1 U	<26.9 U
1,1,1-Trichloroethane	µg/L	40	**200**	<10.00 U	<2.50 U	<100.00 U	<20.0 U	<100.0 U	<2.5 U	<100.0 U	<50.0 U	<120 U	<0.5 U	<100 U	<120 U	<200 U	<200 U	<120 U	<120 U	--	--	--	--	<4 U	<62.5 U	<50.0 U	<50.0 U	<24.5 U
1,1,2,2-Tetrachloroethane	µg/L	0.02	**0.2**	<10.00 U	<2.50 U	<100.00 U	<8.0 U	<40.0 U	<1.0 U	<40.0 U	<20.0 U	<50 U	<0.2 U	<40 U	<50 U	<80 U	<80 U	<50 U	<50 U	--	--	--	--	<4.6 U	<31.2 U	<24.9 U	<24.9 U	<27.5 U
1,1,2-Trichloroethane	µg/L	0.5	**5**	<10.00 U	<2.50 U	<100.00 U	<10.00 U	<50.00 U	<1.20 U	<50.00 U	<25.00 U	<62 U	<0.25 U	<50 U	<62 U	<100 U	<100 U	<62 U	<62 U	--	--	--	--	<5.6 U	<24.7 U	<19.7 U	<19.7 U	<55.2 U
1,1-Dichloroethane	µg/L	85	**850**	<10.00 U	<2.50 U	<100.00 U	<20.0 U	<100.0 U	<2.5 U	<100.0 U	<50.0 U	<120 U	<0.5 U	<100 U	<120 U	<200 U	<200 U	<120 U	<120 U	--	--	--	--	<3.8 U	<30.2 U	<24.2 U	<24.2 U	<27.3 U
1,1-Dichloroethene	µg/L	0.7	**7**	<10.00 U	<2.50 U	<100.00 U	<20.0 U	<100.0 U	<2.5 U	<100.0 U	<50.0 U	<120 U	<0.5 U	<100 U	<120 U	<200 U	<200 U	<120 U	<120 U	--	--	--	--	<6.2 U	<51.3 U	<41.0 U	<41.0 U	<24.5 U
1,1-Dichloropropene	µg/L	NS	**NS**	<10.00 U	<2.50 U	<100.00 U	<20.0 U	<100.0 U	<2.5 U	<100.0 U	<50.0 U	<120 U	<0.5 U	<100 U	<120 U	<200 U	<200 U	<120 U	<120 U	--	--	--	--	<6.8 U	<55.1 U	<44.1 U	<44.1 U	<54.0 U
1,2,3-Trichlorobenzene	µg/L	NS	**NS**	<10.00 U	<2.50 U	<100.00 U	<10.00 U	<50.00 U	<1.20 U	<50.00 U	<25.00 U	<62 U	<0.25 U	<50 U	<62 U	<100 U	<100 U	<62 U	<62 U	--	--	--	--	<4.8 U	<267 U	<213 U	<213 U	<62.6 U
1,2,3-Trichloropropane	µg/L	12	**60**	<10.00 U	<2.50 U	<100.00 U	<20.0 U	<100.0 U	<2.5 U	<100.0 U	<50.0 U	<120 U	<0.5 U	<100 U	<120 U	<200 U	<200 U	<120 U	<120 U	--	--	--	--	<9 U	<62.5 U	<50.0 U	<50.0 U	<59.1 U
1,2,4-Trichlorobenzene	µg/L	14	**70**	<10.00 U	<2.50 U	<100.00 U	<10.00 U	<50.00 U	<1.20 U	<50.00 U	<25.00 U	<62 U	<0.25 U	<50 U	<62 U	<100 U	<100 U	<62 U	<62 U	--	--	--	--	<6.2 U	<276 U	<221 U	<221 U	<95.1 U
1,2-Dibromo-3-chloropropane	µg/L	0.02	**0.2**	<10.00 U	<2.50 U	<100.00 U	<20.0 U	<100.0 U	<2.5 U	<100.0 U	<50.0 U	<120 U	<0.5 U	<100 U	<120 U	<200 U	<200 U	<120 U	<120 U	--	--	--	--	<17 U	<271 U	<216 U	<216 U	<176 U
1,2-Dibromoethane	µg/L	0.005	**0.05**	<10.00 U	<2.50 U	<100.00 U	<8.0 U	<40.0 U	<1.0 U	<40.0 U	<20.0 U	<50 U	<0.2 U	<40 U	<50 U	<80 U	<80 U	<50 U	<50 U	--	--	--	--	<7.2 U	<22.2 U	<17.8 U	<17.8 U	<82.9 U
1,2-Dichlorobenzene	µg/L	60	**600**	<10.00 U	<2.50 U	<100.00 U	<8.0 U	<40.0 U	<1.0 U	<40.0 U	<20.0 U	<50 U	<0.2 U	<40 U	<50 U	<80 U	<80 U	<50 U	<50 U	--	--	--	--	<5.4 U	<62.5 U	<50.0 U	<50.0 U	<70.5 U
1,2-Dichloroethane	µg/L	0.5	**5**	<10.00 U	<2.50 U	<100.00 U	<20.0 U	<100.0 U	<2.5 U	<100.0 U	<50.0 U	<120 U	<0.5 U	<100 U	<120 U	<200 U	<200 U	<120 U	<120 U	--	--	--	--	<5.6 U	<21.0 U	<16.8 U	<16.8 U	<28.0 U
1,2-Dichloropropane	µg/L	0.5	**5**	<10.00 U	<2.50 U	<100.00 U	<20.0 U	<100.0 U	<2.5 U	<100.0 U	<50.0 U	<120 U	<0.5 U	<100 U	<120 U	<200 U	<200 U	<120 U	<120 U	--	--	--	--	<4 U	<29.1 U	<23.3 U	<23.3 U	<28.3 U
1,2,4-Trimethylbenzene	µg/L	NS	**NS**	38	36	320	210	230	150	280	300	320	280 J	300	300	300	280	120 J	260	240	340	230	240 J	150	183	213	167	120 J
1,3,5-Trimethylbenzene	µg/L	NS	**NS**	<4.0 U	4.1	60	31	<40.0 U	23	50	62	68 J	<100 U	90 J	70 J	96 J	<80 U	<50 U	75 J	50 J	85	44 J	<38 U	38	<62.5 U	81.8 J	<50.0 U	<87.3 U
Trimethylbenzenes, Total [3]	µg/L	96	**480**	38	40.1	380	241	230	173	330	362	388 J	280 J	390 J	370 J	396 J	280	120 J	335 J	290 J	425	274 J	240 J	188	183	294.8 J	167	120
1,3-Dichlorobenzene	µg/L	120	**600**	<10.00 U	<2.50 U	<100.00 U	<8.0 U	<40.0 U	<1.0 U	<40.0 U	<20.0 U	<50 U	<0.2 U	<40 U	<50 U	<80 U	<80 U	<50 U	<50 U	--	--	--	--	<3 U	<62.5 U	<50.0 U	<50.0 U	<62.8 U
1,3-Dichloropropane	µg/L	NS	**NS**	<10.00 U	<2.50 U	<100.00 U	<10.00 U	<50.00 U	<1.20 U	<50.00 U	<25.00 U	<62 U	<0.25 U	<50 U	<62 U	<100 U	<100 U	<62 U	<62 U	--	--	--	--	<2.6 U	<62.5 U	<50.0 U	<50.0 U	<82.6 U
1,4-Dichlorobenzene	µg/L	15	**75**	<10.00 U	<2.50 U	<100.00 U	<8.0 U	<40.0 U	<1.0 U	<40.0 U	<20.0 U	<50 U	<0.2 U	<40 U	<50 U	<80 U	<80 U	<120 U	<120 U	--	--	--	--	<3 U	<62.5 U	<50.0 U	<50.0 U	<94.4 U
2,2-Dichloropropane	µg/L	NS	**NS**	<10.00 U	<2.50 U	<100.00 U	<20.0 U	<100.0 U	<2.5 U	<100.0 U	<50.0 U	<120 U	<0.5 U	<100 U	<120 U	<200 U	<200 U	<120 U	<120 U	--	--	--	--	<6.4 U	<60.5 U	<48.4 U	<48.4 U	<227 U
2,3-Dichloropropene	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	<62 U	<100 U	<100 U	<62 U	<62 U	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	µg/L	NS	**NS**	<4.0 U	<1.0 U	<40.0 U	<20.0 U	<100.0 U	<2.5 U	<100.0 U	<50.0 U	<120 U	<0.5 U	<100 U	<120 U	<200 U	<200 U	<120 U	<120 U	--	--	--	--	<4.2 U	<62.5 U	<50.0 U	<50.0 U	<92.6 U
4-Chlorotoluene	µg/L	NS	**NS**	<10.00 U	<2.50 U	<100.00 U	<8.0 U	<40.0 U	<1.0 U	<40.0 U	<20.0 U	<50 U	<0.2 U	<40 U	<50 U	<80 U	<80 U	<50 U	<50 U	--	--	--	--	<4 U	<26.7 U	<21.4 U	<21.4 U	<75.6 U
4-Isopropyltoluene	µg/L	NS	**NS**	<10.00 U	<2.50 U	<100.00 U	<8.0 U	<40.0 U	4.2	<40.0 U	<20.0 U	<50 U	<0.2 U	<40 U	<50 U	<80 U	<80 U	<50 U	<50 U	--	--	--	--	<3.4 U	<62.5 U	<50.0 U	<50.0 U	<80.0 U
Bromobenzene	µg/L	NS	**NS**	<10.00 U	<2.50 U	<100.00 U	<8.0 U	<40.0 U	<1.0 U	<40.0 U	<20.0 U	<50 U	<0.2 U	<40 U	<50 U	<80 U	<80 U	<50 U	<50 U	--	--	--	--	<5 U	<28.8 U	<23.0 U	<23.0 U	<24.1 U
Bromochloromethane	µg/L	NS	**NS**	<10.00 U	<2.50 U	<100.00 U	<20.0 U	<100.0 U	<2.5 U	<100.0 U	<50.0 U	<120 U	<0.5 U	<100 U	<120 U	<200 U	<200 U	<120 U	<120 U	--	--	--	--	<8 U	<42.5 U	<34.0 U	<34.0 U	<36.2 U
Bromodichloromethane	µg/L	0.06	**0.6**	<10.00 U	<2.50 U	<100.00 U	<8.0 U	<40.0 U	<1.0 U	<40.0 U	<20.0 U	<50 U	<0.2 U	<40 U	<50 U	<80 U	<80 U	<50 U	<50 U	--	--	--	--	<3.4 U	<62.5 U	<50.0 U	<50.0 U	<36.4 U
Bromoform	µg/L	0.44	**4.4**	<10.00 U	<2.50 U	<100.00 U	<8.0 U	<40.0 U	<1.0 U	<40.0 U	<20.0 U	<50 U	<0.2 U	<40 U	<50 U	<80 U	<80 U	<50 U	<50 U	--	--	--	--	<5.6 U	<62.5 U	<50.0 U	<50.0 U	<397 U
Bromomethane	µg/L	1	**10**	<10.00 U	<2.5 U	<100 U	<8.0 U	<40.0 U	<1.0 U	<40.0 U	<20.0 U	<50 U	<0.2 U	<40 U	<50 U	<80 U	<80 U	<120 U	<120 U	--	--	--	--	<6.2 U	<304 U	<243 U	<243 U	<97.1 U
Carbon Tetrachloride	µg/L	0.5	**5**	<10.00 U	<2.50 U	<100.00 U	<20.0 U	<100.0 U	<2.5 U	<100.0 U	<50.0 U	<120 U	<0.5 U	<100 U	<120 U	<200 U	<200 U	<120 U	<120 U	--	--	--	--	<5.2 U	<62.5 U	<50.0 U	<50.0 U	<16.6 U
Chlorobenzene	µg/L	NS	**NS**	<10.00 U	<2.50 U	<100.00 U	<8.0 U	<40.0 U	<1.0 U	<40.0 U	<20.0 U	<50 U	<0.2 U	<40 U	<50 U	<80 U	<80 U	<50 U	<50 U	--	--	--	--	<2.8 U	<62.5 U	<50.0 U	<50.0 U	<71.1 U
Chloroethane	µg/L	80	**400**	<10 U	<2.50 U	<100.00 U	<40 U	<200 U	<5 U	<200 U	<100 U	<250 U	<1 U	<200 U	<250 U	<400 U	<400 U	<250 U	<250 U	--	--	--	--	<6.8 U	<46.8 U	<37.5 U	<37.5 U	<134 U
Chloroform	µg/L	0.6	**6**	<10.00 U	<2.50 U	<100.00 U	<8.0 U	<40.0 U	<1.0 U	<40.0 U	<20.0 U	<50 U	<0.2 U	<40 U	<50 U	<80 U	<80 U	<50 U	<50 U	--	--	--	--	<4 U	<312 U	<250 U	<250 U	<127 U
Chloromethane	µg/L	3	**30**	<10.00 U	<2.5 U	<100 U	<8.0 U	<40.0 U	<1.0 U	<40.0 U	<20.0 U	<50 U	<0.2 U	**170**	<50 U	<80 U	<80 U	<75 U	<75 U	--	--	--	--	<3.6 U	<62.5 U	<50.0 U	<50.0 U	<219 U
cis-1,2-Dichloroethene	µg/L	7	**70**	<10.00 U	<2.50 U	<100.00 U	<20.0 U	<100.0 U	<2.5 U	<100.0 U	<50.0 U	<120 U	<0.5 U	<100 U	<120 U	<200 U	<200 U	<120 U	<120 U	--	--	--	--	<2.4 U	<32.0 U	<25.6 U	<25.6 U	<27.1 U
cis-1,3-Dichloropropene	µg/L	NS	**NS**	<10.00 U	<2.50 U	<100.00 U	<8.0 U	<40.0 U	<1.0 U	<40.0 U	<20.0 U	<50 U	<0.2 U	<40 U	<50 U	<80 U	<80 U	<50 U	<50 U	--	--	--	--	<3.6 U	<62.5 U	<50.0 U	<50.0 U	<363 U
trans-1,3-Dichloropropene	µg/L	NS	**NS**	<10.00 U	<2.50 U	<100.00 U	<8.0 U	<40.0 U	<1.0 U	<40.0 U	<20.0 U	<50 U	<0.2 U	<40 U	<50 U	<80 U	<80 U	<50 U	<50 U	--	--	--	--	<4.2 U	<28.7 U	<23.0 U	<23.0 U	<437 U
1,3-Dichloropropene [4]	µg/L	0.04	**0.4**	<20 U	<5 U	<200 U	<16 U	<80 U	<2 U	<80 U	<40 U	<100 U	<0.4 U	<80 U	<100 U	<160 U	<160 U	<100 U	<100 U	--	--	--	--	<7.8 U	<91.2 U	<73 U	<73 U	<800 U
Dibromochloromethane	µg/L	6	**60**	<10.00 U	<2.50 U	<100.00 U	<8.0 U	<40.0 U	<1.0 U	<40.0 U	<20.0 U	<50 U	<0.2 U	<40 U	<50 U	<80 U	<80 U	<50 U	<50 U	--	--	--	--	<6.4 U	<62.5 U	<50.0 U	<50.0 U	<260 U
Dibromomethane	µg/L	NS	**NS**	<10.00 U	<2.50 U	<100.00 U	<8.0 U	<40.0 U	<1.0 U	<40.0 U	<20.0 U	<50 U	<0.2 U	<40 U	<50 U	<80 U	<80 U	<50 U	<50 U	--	--	--	--	<6.6 U	<53.3 U	<42.7 U	<42.7 U	<93.7 U
Freon 12	µg/L	200	**1,000**	<10.00 U	<2.50 U	<100.00 U	<20.0 U	<100.0 U	<2.5 U	<100.0 U	<50.0 U	<120 U	<0.5 U	<100 U	<120 U	<200 U	<200 U	<120 U	<120 U	--	--	--	--	<4 U	<28.0 U	<22.4 U	<22.4 U	<50.0 U
Hexachlorobutadiene	µg/L	NS	**NS**	<10.00 U	<2.50 U	<100.00 U	<20.0 U	<100.0 U	<2.5 U	<100 U	<50.0 U	<120 U	<0.5 U	<100 U	<120 U	<200 U	<200 U	<120 U	<120 U	--	--	--	--	<5.2 U	<263 U	<211 U	<211 U	<118 U
Isopropyl ether	µg/L	NS	**NS**	<10.00 U	<2.50 U	<100.00 U	<20.0 U	<100.0 U	<2.5 U	<100.0 U	<50.0 U	<120 U	<0.5 U	<100 U	<120 U	<200 U	<200 U	<120 U	<120 U	--	--	--	--	<3 U	<62.5 U	<50.0 U	<50.0 U	<189 U
Isopropylbenzene	µg/L	NS	**NS**	43	35	120	80	76	62	100	110	120 J	98	120 J	110 J	130 J	110 J	<50 U	82 J	--	--	--	--	60	73.3 J	68.7 J	65.1 J	223 J
Methylene chloride (DCM)	µg/L	0.5	**5**	<10.00 U	**20**	**900**	<40 U	<200 U	<5 U	<200 U	<100 U	<250 U	<1 U	<200 U	<250 U	<400 U	<400 U	<250 U	<250 U	--	--	--	--	<14 U	<29.1 U	<23.3 U	**41.2** J	<58.1 U
Methyl-tert-butyl-ether	µg/L	12	**60**	<10.00 U	<2.50 U	<100.00 U	<20.0 U	<100.0 U	<2.5 U	<100.0 U	<50.0 U	<120 U	<0.5 U	<100 U	<120 U	<200 U	<200 U	<120 U	<120 U	<23 U	<120 U	<46 U	<46 U	<4.8 U	<21.8 U	<17.4 U	<17.4 U	<125 U
Naphthalene	µg/L	10	**100**	**250**	**340**	**8,300**	**6,600**	**6,300**	**4,800**	**9,300**	**9,100**	**9,100**	**6,600**	**10,000**	**8,600**	**11,000**	**6,700**	**4,200**	**8,800**	--	--	--	--	**4,400**	**8,510**	**9,150**	**5,770**	**5,470**
n-Butylbenzene	µg/L	NS	**NS**	<10.00 U	<2.50 U	<100.00 U	<8.0 U	<40.0 U	<1.0 U	<40.0 U	<20.0 U	<50 U	<0.2 U	<40 U	<50 U	<80 U	<80 U	<50 U	<50 U	--	--	--	--	<2.6 U	<62.5 U	<50.0 U	<50.0 U	<70.8 U
n-Propylbenzene	µg/L	NS	**NS**	15	15	710	<20.0 U	<100.0 U	12	<100.0 U	<50.0 U	<120 U	19	<100 U	<120 U	<200 U	<200 U	<120 U	<120 U	--	--	--	--	13 J	<62.5 U	<50.0 U	<50.0 U	<81.1 U
sec-Butylbenzene	µg/L	NS	**NS**	<10.00 U	<2.50 U	<100.00 U	<10.00 U	<50.00 U	<1.20 U	<50.00 U	<25.00 U	<62 U	<0.25 U	<50 U	<62 U	<100 U	<100 U	<62 U	<62 U	--	--	--	--	<3 U	<273 U	<219 U	<219 U	<84.9 U
Styrene	µg/L	10	**100**	<10.00 U	<2.50 U	<100.00 U	<8.0 U	<40.0 U	<1.0 U	<40.0 U	<20.0 U	<50 U	<0.2 U	<40 U	<50 U	<80 U	<80 U	<120 U	<120 U	--	--	--	--	<2 U	<62.5 U	<50.0 U	<50.0 U	<46.5 U
tert-Butylbenzene	µg/L	NS	**NS**	<10.00 U	<2.50 U	<100.00 U	<8.0 U	<40.0 U	<1.0 U	<40.0 U	<20.0 U	<50 U	<0.2 U	<40 U	<50 U	<80 U	<80 U	<50 U	<50 U	--	--	--	--	<2.8 U	<22.5 U	<18.0 U	<18.0 U	<30.4 U
Tetrachloroethene	µg/L	0.5	**5**	<10.00 U	<2.50 U	<100.00 U	<20.0 U	<100.0 U	<2.5 U	<100.0 U	<50.0 U	<120 U	<0.5 U	<100 U	<120 U	<200 U	<200 U	<120 U	<120 U	--	--	--	--	<3.4 U	<62.5 U	<50.0 U	<50.0 U	<32.6 U
trans-1,2-Dichloroethene	µg/L	20	**100**	<10.00 U	<2.50 U	<100.00 U	<20.0 U	<100.0 U	<2.5 U	<100.0 U	<50.0 U	<120 U	<0.5 U	<100 U	<120 U	<200 U	<200 U	<120 U	<120 U	--	--	--	--	<5 U	<32.1 U	<25.7 U	<25.7 U	<109 U
Trichloroethene	µg/L	0.5	**5**	<10.00 U	<2.50 U	<100.00 U	<8.0 U	<40.0 U	<1.0 U	<40.0 U	<20.0 U	<50 U	<0.2 U	<40 U	<50 U	<80 U	<80 U	<50 U	<50 U	--	--	--	--	<3.8 U	<41.3 U	<33.1 U	<33.1 U	<25.5 U
Trichlorofluoromethane	µg/L	NS	**NS**	<10.00 U	<2.50 U	<100.00 U	<20.0 U	<100.0 U	<2.5 U	<100.0 U	<50.0 U	<120 U	<0.5 U	<100 U	<120 U	<200 U	<200 U	<120 U	<120 U	--	--	--	--	<3.8 U	<23.1 U	<18.5 U	<18.5 U	<21.5 U
Vinyl Chloride	µg/L	0.02	**0.2**	<10.00 U	<2.50 U	<100.00 U	<8.0 U	<40.0 U	<1.0 U	<40.0 U	<20.0 U	<50 U	<0.2 U	<40 U	<50 U	<80 U	<80 U	<50 U	<50 U	--	--	--	--	<2 U	<21.9 U	<17.6 U	<17.6 U	<17.5 U

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:	Units	WI GW PAL	WI GW ES	W-20S		W-22I																								
Depth Level Unit:				Upper Shallow		Lower Shallow																								
Sample Date (m/d/yyyy):				12/19/2000	6/20/2002	6/20/2002	11/25/2003	3/11/2004	6/8/2004	12/10/2004	3/21/2005	9/23/2005	3/24/2006	9/29/2006	3/28/2007	9/20/2007	3/24/2008	9/9/2008	3/27/2009	9/29/2009	12/3/2009	3/30/2010	6/2/2010	8/27/2015	8/23/2016	8/23/2016 (Dup)	2/28/2017	2/12/2020
PAHs																														
1-Methylnaphthalene	µg/L	NS	**NS**	180	<0.60 U	610	310	340	210	230	360	420	360	390	360	550	300	450	320	350	510	390	260	--	291	336	131	182
2-Methylnaphthalene	µg/L	NS	**NS**	53	39	840	360	370	210	270	410	430	340	380	340	630	320	370	410	360	600	440	250	--	329	352	116	183
Acenaphthene	µg/L	NS	**NS**	55	34	270	99	110	70	78	120	140	110	120	110	170	87	140	87	87	140	110	81	48	72.7	80.8	46.0	60.8
Acenaphthylene	µg/L	NS	**NS**	<0.56 U	<0.24 U	<3.60 U	<5.00 U	<2.50 U	<2.50 U	<6.90 U	<14.00 U	<0.69 U	<0.7 U	<3.6 U	<3.4 U	<3.6 U	<0.69 U	<7.2 U	<0.7 U	<0.71 U	<1.4 U	<8.1 U	<0.69 U	2.6	2 J	1.1 J	<2.4 U	<1.6 U
Anthracene	µg/L	600	**3,000**	2	2.4	69	5.4	4	4.3	3.6	4.6	6	8.9	6	6.7	5.6	6.8	15	3.2	8.1	6.9	4.2	4.8	8.8	2.4 J	1.7 J	<5.1 U	5.3 J
Benzo(a)anthracene	µg/L	NS	**NS**	0.21	0.26	51	2.3	0.7	<0.570 U	1.2	0.93	1.3	4.4	3.4	3.8	0.87	1.2	5	2.7	1.7	0.77	<0.52 U	0.78	2.5	<1.3 U	<0.99 U	<3.7 U	<2.4 U
Benzo(a)pyrene	µg/L	0.02	**0.2**	<0.028 U	0.079	**28**	**2.2**	**2.3**	**1.2**	**1**	<0.650 U	**0.53**	**2.9**	**2.2**	**2.9**	**0.74**	**0.59**	**2.6**	0.16	**1.1**	**0.58**	<0.38 U	**0.52**	**2.1**	<1.2 U	<0.85 U	<5.1 U	<3.3 U
Benzo(b)fluoranthene	µg/L	0.02	**0.2**	<0.044 U	<0.047 U	**5.1**	**1.2**	**1.3**	<0.540 U	<0.980 U	<2.000 U	<0.098 U	**1.4**	**1.2** J	1.6 J	<0.52 U	**0.17** J	<1 U	<0.099 U	**0.29**	**0.43** J	<1.2 U	0.13 J	**2.9**	<1.4 U	<1.0 U	<2.8 U	<1.8 U
Benzo(g,h,i)perylene	µg/L	NS	**NS**	<0.1 U	<0.18 U	15	<1.900 U	1.5	<0.970 U	<1.20 U	<2.40 U	0.23 J	1.1	0.83 J	1.1 J	<0.63 U	<0.12 U	<1.2 U	<0.12 U	0.44	0.26 J	<1.4 U	0.15 J	0.47 J	1.6 J	<0.67 U	<3.3 U	<2.1 U
Benzo(k)fluoranthene	µg/L	NS	**NS**	<0.030 U	0.041	9.2	<0.900 U	1.6	1	<0.490 U	<0.990 U	0.72	0.6	0.67 J	0.57 J	<0.26 U	0.13	0.66 J	<0.049 U	0.12 J	0.11 J	<0.58 U	0.052 J	0.6	<1.5 U	<1.1 U	<3.7 U	<2.4 U
Chrysene	µg/L	0.02	**0.2**	0.04	0.054	**19**	**1.7**	<0.490 U	<0.490 U	**0.53**	<0.830 U	**0.3**	**2.3**	**1.7**	**2.5**	**0.6** J	**0.38**	**2.6**	**0.34**	**1.2**	**0.61**	<0.48 U	**0.42**	**2.5**	<1.1 U	<0.82 U	<6.3 U	<4.1 U
Dibenz(a,h)anthracene	µg/L	NS	**NS**	<0.16 U	<0.088 U	<1.300 U	<1.300 U	<0.650 U	<0.650 U	<1.30 U	<2.60 U	<0.13 U	0.22 J	<0.68 U	<0.65 U	<0.68 U	<0.13 U	<1.3 U	<0.13 U	<0.13 U	<0.27 U	<1.5 U	<0.13 U	<0.04 U	<1.4 U	58.9	<4.9 U	<3.2 U
Fluoranthene	µg/L	80	**400**	2.9	1.6	52	15	17	12	5.9	12	7.8	20	17	20	24	10	41	7.2	13	9.9	<0.95 U	6.9	4.8	2.5 J	3 JB	<5.2 U	<3.4 U
Fluorene	µg/L	80	**400**	19	12	120	31	34	22	26	36	40	33	33	40	37	39	62	27	34	49	33	20	13	14.4	17	7.6 J	11.0 J
Indeno(1,2,3-cd)pyrene	µg/L	NS	**NS**	<0.085 U	<0.036 U	12	<0.620 U	2.5	0.47	<0.620 U	<1.300 U	0.11 J	0.76	0.61 J	0.71 J	<0.33 U	<0.062 U	0.64 J	<0.063 U	0.28	0.14 J	<0.73 U	0.087 J	0.55	<0.93 U	6 J	<8.6 U	<5.6 U
Naphthalene	µg/L	10	**100**	**190**	1.2	**7,200**	**5,900**	**5,700**	**2,000**	**4,000**	**6,400**	**5,100**	**7,200**	**7,000**	**6,800**	**12,000**	**5,900**	**8,300**	**6,300**	**6,000**	**9,800**	**8,500**	**3,700**	**5,200**	**4,880**	**4,910**	**2,130**	**3,400**
Phenanthrene	µg/L	NS	**NS**	14	2.8	310	33	47	28	23	33	37	51	48	46	43	29	63	24	38	36	30	26	23	21.6	25.1 B	15.4 J	18.1 J
Pyrene	µg/L	50	**250**	0.71	0.68	15	3.6	14	5.9	3	3	4	7.4	5.9	6.5	2.5	0.35	5.5	9	25	20	<0.52 U	1.6	8.4	2.9 JB	4.3 JB	<3.7 U	2.8 J
Total PAH (16) [5]	µg/L	NS	**NS**	283.86	55.114	8175.3	6094.4	5935.9	2144.87	4142.23	6609.53	5337.99	7443.98	7240.51	7042.38	12284.3	6074.62	8638	6460.6	6210.23	10064.7	8677.2	3842.44	5320.22	5000.1	5107.9	2199	3498
Petroleum Hydrocarbons																														
Diesel Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	23,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	25,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals																														
Iron, Total	µg/L	150	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**1,400**	**1,400**	**1,300**	**910**	**1,000** J	--	--	--	--	--
Cyanide																														
Cyanide DISS (amenable)	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide DISS, total	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide, Amenable	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide, Total	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lab MNA Parameters																														
Carbon Dioxide	µg/L	NS	**NS**	--	85,000	70,000	77,000	74,000	--	--	70,000	59,000	110,000	210,000	260,000	260,000	--	230,000	290,000	--	--	--	--	200,000	--	--	--	--
Carbon monoxide	mg/L	10,000	**10,000**	--	<0.4 U	<0.4 U	<0.40 U	<0.40 U	--	--	--	--	--	<1 U	<1 U	<1 U	--	<1 U	--	--	--	--	--	--	--	--	--	--
Ethane	µg/L	NS	**NS**	--	3.000	24.000	15.000	16.000	--	--	16.000	22	28	33	46	44	40	21	33	--	--	--	--	20	--	--	--	--
Ethene	µg/L	NS	**NS**	--	<0.005 U	0.030	0.035	0.012	--	--	0.019	0.08	0.092	0.12	0.11	0.069	0.12	0.031	0.041	--	--	--	--	24	--	--	--	--
Iron, Dissolved	µg/L	150	**300**	--	--	--	**570**	**360**	--	--	**400**	**540**	**500**	**740**	**630**	**720**	**1,200**	**1,500**	--	--	--	--	--	**1,300**	**1,320**	**1,360**	--	**1,950**
Manganese, Dissolved	µg/L	60	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	226	234	--	243
Methane	µg/L	NS	**NS**	--	7,300	11,000	14,000	12,000	--	--	14,000	13,000	15,000	15,000	20,000	19,000	20,000	12,000	18,000	--	--	--	--	14,000	9,860	5,500	--	9,650
Nitrogen, NO2 + NO3, Total	µg/L	2,000	**10,000**	<500 U	65	280	<24 U	<24 U	--	--	<24 U	91 B	<100 U	<100 U	<500 U	<100 U	<100 U	<100 U	<100 U	--	--	--	--	<45 U	<95 U	<95 U	--	<59 U
Nitrogen	µg/L	NS	**NS**	--	14,000	13,000	12,000	8,100	--	--	--	--	--	10,000	6,000	4,900	--	--	5,900	--	--	--	--	11,000	--	--	--	--
Oxygen	µg/L	NS	**NS**	--	590	540	610	490	--	--	--	--	--	1,800	870	910	--	1,300	1,300	--	--	--	--	3,500	--	--	--	--
Sulfate, Total	µg/L	125,000	**250,000**	130,000	7,000	150,000	240,000	**280,000**	--	--	220,000	150,000	160,000	51,000	11,600	5,600 J	9,600	13,000	<1,500 U	5,100	39,000	35,000	<4,000 U	12,000 B	10,300 J	15,900 J	--	<2,200 U
Field Parameters																														
Dissolved oxygen	mg/L	NS	**NS**	--	--	--	-0.03	-0.27	0.25	0.3	0	0.13	1.16	0.11	0.22	1.35	0.39	0.74	0.06	--	--	--	--	--	0.13	0.13	0.25	0.09
Groundwater, depth to	feet	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.67	7.67	7.96	7.70
Oxidation Reduction Potential	millivolts	NS	**NS**	--	--	--	-354.8	-325.6	-342	-383.3	-356.1	-382	-376.9	-321.1	-223.2	-317.2	-216.9	-99.2	-272	--	--	--	--	--	-278	-278	-237	-300.2
pH, Field	s.u.	NS	**NS**	--	--	--	6.94	7.03	7.13	7.4	7.21	7.12	7.23	6.87	6.59	6.77	7.22	6.42	6.68	--	--	--	--	--	7.14	7.14	6.99	6.97
Specific Conductance, Field	µS/cm	NS	**NS**	--	--	--	2,484	2,833	2,332	1,806	2,190	2,388	3,425	3,737	3,758	3,579	3,475	4,040	4,352	--	--	--	--	--	4.43	4.43	4,770	4892.4
Temperature, Water	Deg C	NS	**NS**	--	--	--	12.79	10.21	9.78	12.92	11.23	12.53	11.4	12.98	11.51	12.44	10.85	11.78	10.41	--	--	--	--	--	15.30	15.30	10.80	8.96
Turbidity, Quantitative	NTUs	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.5	3.5	0.0	5.76

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:				W-22S																						W-23S			
Depth Level Unit:				Upper Shallow																						Upper Shallow			
Sample Date (m/d/yyyy):	Units	WI GW PAL	WI GW ES	12/20/2000	6/20/2002	11/26/2003	3/11/2004	6/8/2004	9/11/2004	12/10/2004	3/23/2005	9/23/2005	3/24/2006	9/29/2006	3/28/2007	9/20/2007	3/25/2008	9/8/2008	3/27/2009	12/3/2009	3/29/2010	6/1/2010	8/27/2015	8/23/2016	2/28/2017	2/12/2020	12/21/2000	6/20/2002	11/25/2003	3/11/2004
BTEX																													
Benzene	µg/L	0.5	**5**	**56**	**65**	**11**	**13**	**20**	**39**	**30**	**10**	**78**	**39**	**100**	**45**	**11**	**52**	**110**	**64**	**54**	**43**	**39**	**26**	**55**	**26.8**	**55.0**	**7,400**	**5,100**	**2,600**	**2,400**
Ethylbenzene	µg/L	140	**700**	330	160	56	50	61	120	120	57	130	54	140	77	18	220	250	360	180	190	210	8.2	6.1	2.5	2.3	**4,100**	**3,300**	**2,900**	**3,100**
Toluene	µg/L	160	**800**	3.3	4.8	1.3	1.9	2.4	<4.0 U	2.9	<2.0 U	3.7	12	3.3	<1.6 U	0.46 J	2.5	4.5 J	4.9 J	3.3 J	2.8 J	2.9 J	<0.11 U	<0.50 U	<0.50 U	0.23 J	**2,000**	**1,400**	**1,200**	**1,600**
Xylene, o	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.50 U	<0.50 U	<0.26 U	--	--	--	--
Xylenes, m + p	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.0 U	<1.0 U	<0.47 U	--	--	--	--
Xylenes, Total [1]	µg/L	400	**2,000**	59	39	19	19	22	57	44	16	12	32	19	13 J	2.8	21	43	36	22	14	13 J	1.1	<1.5 U	<1.5 U	<0.73 U	**5,800**	**4,100**	**3,700**	**3,900**
Total BTEX [2]	µg/L	NS	**NS**	448.3	268.8	87.3	83.9	105.4	216	196.9	83	223.7	137	262.3	135	32.26	295.5	407.5	464.9	259.3	249.8	264.9	35.3	61.1	29.3	57.53	19300	13900	10400	11000
VOCs																													
1,1,1,2-Tetrachloroethane	µg/L	7	**70**	<2.50 U	<1.10 U	<0.50 U	<0.25 U	<0.25 U	<5.00 U	<2.50 U	<2.50 U	<0.25 U	<0.25 U	<0.25 U	<2 U	<0.25 U	<0.25 U	<1 U	<2 U	--	--	--	<0.25 U	<0.18 U	<0.18 U	<0.27 U	<50.00 U	<120.00 U	<5.00 U	<0.25 U
1,1,1-Trichloroethane	µg/L	40	**200**	<2.50 U	<2.80 U	<1.0 U	<0.5 U	<0.5 U	<10.0 U	<5.0 U	<5.0 U	<0.5 U	<0.5 U	<0.5 U	<4 U	<0.5 U	<0.5 U	<2 U	<4 U	--	--	--	<0.2 U	<0.50 U	<0.50 U	<0.24 U	<50.00 U	<120.00 U	<10.0 U	<0.5 U
1,1,2,2-Tetrachloroethane	µg/L	0.02	**0.2**	<2.50 U	<3.90 U	<0.4 U	<0.2 U	<0.2 U	<4.0 U	<2.0 U	<2.0 U	<0.2 U	<0.2 U	<0.2 U	<1.6 U	<0.2 U	<0.2 U	<0.8 U	<1.6 U	--	--	--	<0.23 U	<0.25 U	<0.25 U	<0.28 U	<50.00 U	<120.00 U	<4.0 U	<0.2 U
1,1,2-Trichloroethane	µg/L	0.5	**5**	<2.50 U	<1.50 U	<0.50 U	<0.25 U	<0.25 U	<5.00 U	<2.50 U	<2.50 U	<0.25 U	<0.25 U	<0.25 U	<2 U	<0.25 U	<0.25 U	<1 U	<2 U	--	--	--	<0.28 U	<0.20 U	<0.20 U	<0.55 U	<50.00 U	<120.00 U	<5.00 U	<0.25 U
1,1-Dichloroethane	µg/L	85	**850**	<2.50 U	<2.50 U	<1.0 U	<0.5 U	<0.5 U	<10.0 U	<5.0 U	<5.0 U	<0.5 U	<0.5 U	<0.5 U	<4 U	<0.5 U	<0.5 U	<2 U	<4 U	--	--	--	<0.19 U	<0.24 U	<0.24 U	<0.27 U	<50.00 U	<120.00 U	<10.0 U	<0.5 U
1,1-Dichloroethene	µg/L	0.7	**7**	<2.50 U	<7.30 U	<1.0 U	<0.5 U	<0.5 U	<10.0 U	<5.0 U	<5.0 U	<0.5 U	<0.5 U	<0.5 U	<4 U	<0.5 U	<0.5 U	<2 U	<4 U	--	--	--	<0.31 U	<0.41 U	<0.41 U	<0.24 U	<50.00 U	<120.00 U	<10.0 U	<0.5 U
1,1-Dichloropropene	µg/L	NS	**NS**	<2.50 U	<6.30 U	<1.0 U	<0.5 U	<0.5 U	<10.0 U	<5.0 U	<5.0 U	<0.5 U	<0.5 U	<0.5 U	<4 U	<0.5 U	<0.5 U	<2 U	<4 U	--	--	--	<0.34 U	<0.44 U	<0.44 U	<0.54 U	<50.00 U	<120.00 U	<10.0 U	<0.5 U
1,2,3-Trichlorobenzene	µg/L	NS	**NS**	<2.50 U	<3.20 U	<0.50 U	<0.25 U	<0.25 U	<5.00 U	<2.50 U	<2.50 U	<0.25 U	<0.25 U	<0.25 U	<2 U	<0.25 U	<0.25 U	<1 U	<2 U	--	--	--	<0.24 U	<2.1 U	<2.1 U	<0.63 U	<50.00 U	<120.00 U	<5.00 U	<0.25 U
1,2,3-Trichloropropane	µg/L	12	**60**	<2.50 U	<2.80 U	<1.0 U	<0.5 U	<0.5 U	<10.0 U	<5.0 U	<5.0 U	<0.5 U	<0.5 U	<0.5 U	<4 U	<0.5 U	<0.5 U	<2 U	<4 U	--	--	--	<0.45 U	<0.50 U	<0.50 U	<0.59 U	<50.00 U	<120.00 U	<10.0 U	<0.5 U
1,2,4-Trichlorobenzene	µg/L	14	**70**	<2.50 U	<1.80 U	<0.50 U	<0.25 U	<0.25 U	<5.00 U	<2.50 U	<2.50 U	<0.25 U	<0.25 U	<0.25 U	<2 U	<0.25 U	<0.25 U	<1 U	<2 U	--	--	--	<0.31 U	<2.2 U	<2.2 U	<0.95 U	<50.00 U	<120.00 U	<5.00 U	<0.25 U
1,2-Dibromo-3-chloropropane	µg/L	0.02	**0.2**	<2.50 U	<14.0 U	<1.0 U	<0.5 U	<0.5 U	<10.0 U	<5.0 U	<5.0 U	<0.5 U	<0.5 U	<0.5 U	<4 U	<0.5 U	<0.5 U	<2 U	<4 U	--	--	--	<0.87 U	<2.2 U	<2.2 U	<1.8 U	<50.00 U	<120.00 U	<10.0 U	<0.5 U
1,2-Dibromoethane	µg/L	0.005	**0.05**	<2.50 U	<1.60 U	<0.4 U	<0.2 U	<0.2 U	<4.0 U	<2.0 U	<2.0 U	<0.2 U	<0.2 U	<0.2 U	<1.6 U	<0.2 U	<0.2 U	<0.8 U	<1.6 U	--	--	--	<0.36 U	<0.18 U	<0.18 U	<0.83 U	<50.00 U	<120.00 U	<4.0 U	<0.2 U
1,2-Dichlorobenzene	µg/L	60	**600**	<2.50 U	<2.0 U	<0.4 U	<0.2 U	<0.2 U	<4.0 U	<2.0 U	<2.0 U	<0.2 U	<0.2 U	<0.2 U	<1.6 U	<0.2 U	<0.2 U	<0.8 U	<1.6 U	--	--	--	<0.27 U	<0.50 U	<0.50 U	<0.71 U	<50.00 U	<120.00 U	<4.0 U	<0.2 U
1,2-Dichloroethane	µg/L	0.5	**5**	<2.50 U	<2.0 U	<1.0 U	<0.5 U	<0.5 U	<10.0 U	<5.0 U	<5.0 U	<0.5 U	<0.5 U	<0.5 U	<4 U	<0.5 U	<0.5 U	<2 U	<4 U	--	--	--	<0.28 U	<0.17 U	<0.17 U	<0.28 U	<50.00 U	<120.00 U	<10.0 U	<0.5 U
1,2-Dichloropropane	µg/L	0.5	**5**	<2.50 U	<2.90 U	<1.0 U	<0.5 U	<0.5 U	<10.0 U	<5.0 U	<5.0 U	<0.5 U	<0.5 U	<0.5 U	<4 U	<0.5 U	<0.5 U	<2 U	<4 U	--	--	--	<0.2 U	<0.23 U	<0.23 U	<0.28 U	<50.00 U	<120.00 U	<10.0 U	<0.5 U
1,2,4-Trimethylbenzene	µg/L	NS	**NS**	56	99	50	47	55	40	37	40	12	23	57	39	8.3	60	65	110	110	180	170	2.1	0.9 J	<0.50 U	<0.84 U	530	420	400	460
1,3,5-Trimethylbenzene	µg/L	NS	**NS**	<1.0 U	<3.30 U	0.74	0.77	0.87	<4.0 U	<2.0 U	<2.0 U	<0.2 U	1.7	0.65 J	<1.6 U	<0.2 U	0.46 J	3	<1.6 U	<0.95 U	<1.9 U	<0.95 U	<0.18 U	<0.50 U	<0.50 U	<0.87 U	130	120	91	110
Trimethylbenzenes, Total [3]	µg/L	96	**480**	56	**99**	50.74	47.77	55.87	40	37	40	12	24.7	57.65 J	39	8.3	60.46 J	68	**110**	**110**	**180**	**170**	2.1	0.9 J	<1 U	<1.71 U	**660**	**540**	**491**	**570**
1,3-Dichlorobenzene	µg/L	120	**600**	<2.50 U	<2.20 U	<0.4 U	<0.2 U	<0.2 U	<4.0 U	<2.0 U	<2.0 U	<0.2 U	<0.2 U	<0.2 U	<1.6 U	<0.2 U	<0.2 U	<0.8 U	<1.6 U	--	--	--	<0.15 U	<0.50 U	<0.50 U	<0.63 U	<50.00 U	<120.00 U	<4.0 U	<0.2 U
1,3-Dichloropropane	µg/L	NS	**NS**	<2.50 U	<1.50 U	<0.50 U	<0.25 U	<0.25 U	<5.00 U	<2.50 U	<2.50 U	<0.25 U	<0.25 U	<0.25 U	<2 U	<0.25 U	<0.25 U	<1 U	<2 U	--	--	--	<0.13 U	<0.50 U	<0.50 U	<0.83 U	<50.00 U	<120.00 U	<5.00 U	<0.25 U
1,4-Dichlorobenzene	µg/L	15	**75**	<2.50 U	<3.50 U	<0.4 U	<0.2 U	<0.2 U	<4.0 U	<2.0 U	<2.0 U	<0.2 U	<0.2 U	<0.2 U	<1.6 U	<0.2 U	<0.2 U	<2 U	<4 U	--	--	--	<0.15 U	<0.50 U	<0.50 U	<0.94 U	<50.00 U	<120.00 U	<4.0 U	<0.2 U
2,2-Dichloropropane	µg/L	NS	**NS**	<2.50 U	<3.70 U	<1.0 U	<0.5 U	<0.5 U	<10.0 U	<5.0 U	<5.0 U	<0.5 U	<0.5 U	<0.5 U	<4 U	<2.5 U	<0.5 U	<2 U	<4 U	--	--	--	<0.32 U	<0.48 U	<0.48 U	<2.3 U	<50.00 U	<120.00 U	<10.0 U	<0.5 U
2,3-Dichloropropene	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	<2 U	<0.25 U	<0.25 U	<1 U	<2 U	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	µg/L	NS	**NS**	<1.0 U	<2.80 U	<1.0 U	<0.5 U	<0.5 U	<10.0 U	<5.0 U	<5.0 U	<0.5 U	<0.5 U	<0.5 U	<4 U	<0.5 U	<0.5 U	<2 U	<4 U	--	--	--	<0.21 U	<0.50 U	<0.50 U	<0.93 U	<20.0 U	<50.0 U	<10.0 U	<0.5 U
4-Chlorotoluene	µg/L	NS	**NS**	<2.50 U	<4.70 U	<0.4 U	<0.2 U	<0.2 U	<4.0 U	<2.0 U	<2.0 U	<0.2 U	<0.2 U	<0.2 U	<1.6 U	<0.2 U	<0.2 U	<0.8 U	<1.6 U	--	--	--	<0.2 U	<0.21 U	<0.21 U	<0.76 U	<50.00 U	<120.00 U	<4.0 U	<0.2 U
4-Isopropyltoluene	µg/L	NS	**NS**	3.1	4.8	1.4	2	2.4	<4.0 U	<2.0 U	<2.0 U	0.36 J	<0.2 U	2.5	1.8 J	0.33 J	1.7	1.4 J	1.7 J	--	--	--	<0.17 U	<0.50 U	<0.50 U	<0.80 U	<50.00 U	<120.00 U	5.8	7.2
Bromobenzene	µg/L	NS	**NS**	<2.50 U	<2.0 U	<0.4 U	<0.2 U	<0.2 U	<4.0 U	<2.0 U	<2.0 U	<0.2 U	<0.2 U	<0.2 U	<1.6 U	<0.2 U	<0.2 U	<0.8 U	<1.6 U	--	--	--	<0.25 U	<0.23 U	<0.23 U	<0.24 U	<50.00 U	<120.00 U	<4.0 U	<0.2 U
Bromochloromethane	µg/L	NS	**NS**	<2.50 U	<3.20 U	<1.0 U	<0.5 U	<0.5 U	<10.0 U	<5.0 U	<5.0 U	<0.5 U	<0.5 U	<0.5 U	<4 U	<0.5 U	<0.5 U	<2 U	<4 U	--	--	--	<0.4 U	<0.34 U	<0.34 U	<0.36 U	<50.00 U	<120.00 U	<10.0 U	<0.5 U
Bromodichloromethane	µg/L	0.06	**0.6**	<2.50 U	<2.0 U	<0.4 U	<0.2 U	<0.2 U	<4.0 U	<2.0 U	<2.0 U	<0.2 U	<0.2 U	<0.2 U	<1.6 U	<0.2 U	<0.2 U	<0.8 U	<1.6 U	--	--	--	<0.17 U	<0.50 U	<0.50 U	<0.36 U	<50.00 U	<120.00 U	<4.0 U	<0.2 U
Bromoform	µg/L	0.44	**4.4**	<2.50 U	<1.40 U	<0.4 U	<0.2 U	<0.2 U	<4.0 U	<2.0 U	<2.0 U	<0.2 U	<0.2 U	<0.2 U	<1.6 U	<0.2 U	<0.2 U	<0.8 U	<1.6 U	--	--	--	<0.28 U	<0.50 U	<0.50 U	<4.0 U	<50.00 U	<120.00 U	<4.0 U	<0.2 U
Bromomethane	µg/L	1	**10**	<2.50 U	<4.60 U	<0.4 U	<0.2 U	<0.2 U	<4.0 U	<2.0 U	<2.0 U	<0.2 U	<0.2 U	<2 U	<1.6 U	<0.2 U	<0.2 U	<2 U	<4 U	--	--	--	<0.31 U	<2.4 U	<2.4 U	<0.97 U	<50.00 U	**210** B	<4.0 U	<0.2 U
Carbon Tetrachloride	µg/L	0.5	**5**	<2.50 U	<4.0 U	<1.0 U	<0.5 U	<0.5 U	<10.0 U	<5.0 U	<5.0 U	<0.5 U	<0.5 U	<0.5 U	<4 U	<0.5 U	<0.5 U	<2 U	<4 U	--	--	--	<0.26 U	<0.50 U	<0.50 U	<0.17 U	<50.00 U	<120.00 U	<10.0 U	<0.5 U
Chlorobenzene	µg/L	NS	**NS**	<2.50 U	<2.20 U	<0.4 U	<0.2 U	<0.2 U	<4.0 U	<2.0 U	<2.0 U	<0.2 U	<0.2 U	<0.2 U	<1.6 U	<0.2 U	<0.2 U	<0.8 U	<1.6 U	--	--	--	<0.14 U	<0.50 U	<0.50 U	<0.71 U	<50.00 U	<120.00 U	<4.0 U	<0.2 U
Chloroethane	µg/L	80	**400**	<2.5 U	<12.0 U	<2 U	<1 U	<1 U	<20 U	<10 U	<10 U	<1 U	<1 U	<1 U	<8 U	<1 U	<1 U	<4 U	<8 U	--	--	--	<0.34 U	<0.37 U	<0.37 U	<1.3 U	<50 U	<120.00 U	<20 U	<1 U
Chloroform	µg/L	0.6	**6**	<2.50 U	<1.80 U	<0.4 U	<0.2 U	<0.2 U	<4.0 U	<2.0 U	<2.0 U	<0.2 U	<0.2 U	<0.2 U	<1.6 U	<0.2 U	<0.2 U	<0.8 U	<1.6 U	--	--	--	<0.2 U	<2.5 U	<2.5 U	<1.3 U	<50.00 U	<120.00 U	<4.0 U	<0.2 U
Chloromethane	µg/L	3	**30**	<2.50 U	<3.80 U	<0.4 U	<0.2 U	<0.2 U	<4.0 U	<2.0 U	<2.0 U	<0.2 U	<0.2 U	<0.2 U	<1.6 U	<0.2 U	<0.2 U	<1.2 U	<2.4 U	--	--	--	<0.18 U	<0.50 U	<0.50 U	<2.2 U	<50.00 U	<120 U	<4.0 U	<0.2 U
cis-1,2-Dichloroethene	µg/L	7	**70**	<2.50 U	<2.30 U	<1.0 U	<0.5 U	<0.5 U	<10.0 U	<5.0 U	<5.0 U	<0.5 U	<0.5 U	<0.5 U	<4 U	<0.5 U	<0.5 U	<2 U	<4 U	--	--	--	<0.12 U	<0.26 U	<0.26 U	<0.27 U	<50.00 U	<120.00 U	<10.0 U	<0.5 U
cis-1,3-Dichloropropene	µg/L	NS	**NS**	<2.50 U	<1.70 U	<0.4 U	<0.2 U	<0.2 U	<4.0 U	<2.0 U	<2.0 U	<0.2 U	<0.2 U	<0.2 U	<1.6 U	<0.2 U	<0.2 U	<0.8 U	<1.6 U	--	--	--	<0.18 U	<0.50 U	<0.50 U	<3.6 U	<50.00 U	<120.00 U	<4.0 U	<0.2 U
trans-1,3-Dichloropropene	µg/L	NS	**NS**	<2.50 U	<1.30 U	<0.4 U	<0.2 U	<0.2 U	<4.0 U	<2.0 U	<2.0 U	<0.2 U	<0.2 U	<0.2 U	<1.6 U	<0.2 U	<0.2 U	<0.8 U	<1.6 U	--	--	--	<0.21 U	<0.23 U	<0.23 U	<4.4 U	<50.00 U	<120.00 U	<4.0 U	<0.2 U
1,3-Dichloropropene [4]	µg/L	0.04	**0.4**	<5 U	<3 U	<0.8 U	<0.4 U	<0.4 U	<8 U	<4 U	<4 U	<0.4 U	<0.4 U	<0.4 U	<3.2 U	<0.4 U	<0.4 U	<1.6 U	<3.2 U	--	--	--	<0.39 U	<0.73 U	<0.73 U	<8 U	<100 U	<240 U	<8 U	<0.4 U
Dibromochloromethane	µg/L	6	**60**	<2.50 U	<1.0 U	<0.4 U	<0.2 U	<0.2 U	<4.0 U	<2.0 U	<2.0 U	<0.2 U	<0.2 U	<0.2 U	<1.6 U	<0.2 U	<0.2 U	<0.8 U	<1.6 U	--	--	--	<0.32 U	<0.50 U	<0.50 U	<2.6 U	<50.00 U	<120.00 U	<4.0 U	<0.2 U
Dibromomethane	µg/L	NS	**NS**	<2.50 U	<1.10 U	<0.4 U	<0.2 U	<0.2 U	<4.0 U	<2.0 U	<2.0 U	<0.2 U	<0.2 U	<0.2 U	<1.6 U	<0.2 U	<0.2 U	<0.8 U	<1.6 U	--	--	--	<0.33 U	<0.43 U	<0.43 U	<0.94 U	<50.00 U	<120.00 U	<4.0 U	<0.2 U
Freon 12	µg/L	200	**1,000**	<2.50 U	<4.90 U	<1.0 U	<0.5 U	<0.5 U	<10.0 U	<5.0 U	<5.0 U	<0.5 U	<0.5 U	<5 U	<4 U	<2.5 U	<0.5 U	<2 U	<4 U	--	--	--	<0.2 U	<0.22 U	<0.22 U	<0.50 U	<50.00 U	<120.00 U	<10.0 U	<0.5 U
Hexachlorobutadiene	µg/L	NS	**NS**	<2.50 U	<3.70 U	<1.0 U	<0.5 U	<0.5 U	<10.0 U	<5 U	<5.0 U	<0.5 U	<0.5 U	<0.5 U	<4 U	<0.5 U	<0.5 U	<2 U	<4 U	--	--	--	<0.26 U	<2.1 U	<2.1 U	<1.2 U	<50.00 U	<120.00 U	<10.0 U	<0.5 U
Isopropyl ether	µg/L	NS	**NS**	<2.50 U	<1.30 U	<1.0 U	<0.5 U	<0.5 U	<10.0 U	<5.0 U	<5.0 U	<0.5 U	<0.5 U	<0.5 U	<4 U	<0.5 U	<0.5 U	<2 U	<4 U	--	--	--	<0.15 U	<0.50 U	<0.50 U	<1.9 U	<50.00 U	<120.00 U	<10.0 U	<0.5 U
Isopropylbenzene	µg/L	NS	**NS**	25	23	12	12	14	11	12	11	17	7.4	15	9.4	2.4	20	15	24	--	--	--	3.9	3.3	2.1	3.8 J	94	<120.00 U	76	93
Methylene chloride (DCM)	µg/L	0.5	**5**	<2.50 U	**23**	<2 U	<1 U	<1 U	<20 U	<10 U	<10 U	<1 U	<1 U	<1 U	<8 U	<1 U	<1 U	<4 U	<8 U	--	--	--	<0.68 U	<0.23 U	<0.23 U	<0.58 U	<50.00 U	**900**	<20 U	<1 U
Methyl-tert-butyl-ether	µg/L	12	**60**	<2.50 U	<1.40 U	<1.0 U	<0.5 U	<0.5 U	<10.0 U	<5.0 U	<5.0 U	<0.5 U	<0.5 U	<0.5 U	<4 U	<0.5 U	<0.5 U	<2 U	<4 U	<1.2 U	<2.3 U	<1.2 U	<0.24 U	<0.17 U	<0.17 U	<1.2 U	<50.00 U	<120.00 U	<10.0 U	<0.5 U
Naphthalene	µg/L	10	**100**	**130**	**410**	**440**	**320**	**280**	**300**	**260**	**190**	21	**140**	**350**	**240**	49	**210**	**600**	**1,200**	--	--	--	2.1	<2.5 U	<2.5 U	<1.2 U	**9,100**	**2,300**	**6,800**	**6,200**
n-Butylbenzene	µg/L	NS	**NS**	<2.50 U	<4.40 U	1.3	<0.2 U	<0.2 U	<4.0 U	<2.0 U	<2.0 U	<0.2 U	0.78	1.4	1.7 J	0.26 J	<0.2 U	<0.8 U	<1.6 U	--	--	--	<0.13 U	1	0.70 J	<0.71 U	<50.00 U	<120.00 U	<4.0 U	<0.2 U
n-Propylbenzene	µg/L	NS	**NS**	15	20	11	10	11	<10.0 U	7.5	6.9	10	4.7	12	6.9 J	1.6 J	11	9.9	13 J	--	--	--	3.7	3.6	2.0	1.8 J	<50.00 U	<120.00 U	19	26
sec-Butylbenzene	µg/L	NS	**NS**	<2.50 U	<4.50 U	0.76	<0.25 U	<0.25 U	<5.00 U	<2.50 U	<2.50 U	0.61 J	0.35 J	0.74 J	<2 U	<0.25 U	<0.25 U	<1 U	<2 U	--	--	--	<0.15 U	<2.2 U	<2.2 U	<0.85 U	<50.00 U	<120.00 U	<5.00 U	<0.25 U
Styrene	µg/L	10	**100**	<2.50 U	<1.60 U	<0.4 U	<0.2 U	<0.2 U	<4.0 U	<2.0 U	<2.0 U	<0.2 U	<0.2 U	<0.2 U	<1.6 U	<0.2 U	<0.2 U	<2 U	<4 U	--	--	--	<0.1 U	<0.50 U	<0.50 U	<0.47 U	<50.00 U	<120.00 U	<4.0 U	<0.2 U
tert-Butylbenzene	µg/L	NS	**NS**	<2.50 U	<3.80 U	<0.4 U	<0.2 U	<0.2 U	<4.0 U	<2.0 U	<2.0 U	<0.2 U	<0.2 U	<0.2 U	<1.6 U	<0.2 U	<0.2 U	<0.8 U	<1.6 U	--	--	--	<0.14 U	<0.18 U	<0.18 U	<0.30 U	<50.00 U	<120.00 U	<4.0 U	<0.2 U
Tetrachloroethene	µg/L	0.5	**5**	<2.50 U	<6.30 U	<1.0 U	<0.5 U	<0.5 U	<10.0 U	<5.0 U	<5.0 U	**6**	<0.5 U	<0.5 U	<4 U	<0.5 U	<0.5 U	<2 U	<4 U	--	--	--	<0.17 U	<0.50 U	<0.50 U	<0.33 U	<50.00 U	<120.00 U	<10.0 U	<0.5 U
trans-1,2-Dichloroethene	µg/L	20	**100**	<2.50 U	<3.90 U	<1.0 U	<0.5 U	<0.5 U	<10.0 U	<5.0 U	<5.0 U	<0.5 U	<0.5 U	<0.5 U	<4 U	<0.5 U	<0.5 U	<2 U	<4 U	--	--	--	<0.25 U	<0.26 U	<0.26 U	<1.1 U	<50.00 U	<120.00 U	<10.0 U	<0.5 U
Trichloroethene	µg/L	0.5	**5**	<2.50 U	<4.90 U	<0.4 U	<0.2 U	<0.2 U	<4.0 U	<2.0 U	<2.0 U	<0.2 U	<0.2 U	<0.2 U	<1.6 U	<0.2 U	<0.2 U	<0.8 U	<1.6 U	--	--	--	<0.19 U	<0.33 U	<0.33 U	<0.26 U	<50.00 U	<120.00 U	<4.0 U	<0.2 U
Trichlorofluoromethane	µg/L	NS	**NS**	<2.50 U	<5.80 U	<1.0 U	<0.5 U	<0.5 U	<10.0 U	<5.0 U	<5.0 U	<0.5 U	<0.5 U	<0.5 U	<4 U	<0.5 U	<0.5 U	<2 U	<4 U	--	--	--	<0.19 U	<0.18 U	<0.18 U	<0.21 U	<50.00 U	<120.00 U	<10.0 U	<0.5 U
Vinyl Chloride	µg/L	0.02	**0.2**	<2.50 U	<4.60 U	<0.4 U	<0.2 U	<0.2 U	<4.0 U	<2.0 U	<2.0 U	<0.2 U	<0.2 U	<0.2 U	<1.6 U	<0.2 U	<0.2 U	<0.8 U	<1.6 U	--	--	--	<0.1 U	<0.18 U	<0.18 U	<0.17 U	<50.00 U	<120.00 U	<4.0 U	<0.2 U

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:				W-22S																						W-23S			
Depth Level Unit:	Units	WI GW PAL	WI GW ES	Upper Shallow																						Upper Shallow			
Sample Date (m/d/yyyy):				12/20/2000	6/20/2002	11/26/2003	3/11/2004	6/8/2004	9/11/2004	12/10/2004	3/23/2005	9/23/2005	3/24/2006	9/29/2006	3/28/2007	9/20/2007	3/25/2008	9/8/2008	3/27/2009	12/3/2009	3/29/2010	6/1/2010	8/27/2015	8/23/2016	2/28/2017	2/12/2020	12/21/2000	6/20/2002	11/25/2003	3/11/2004
PAHs																													
1-Methylnaphthalene	µg/L	NS	**NS**	370	240	220	350	--	130	120	200	170	140	290	4.8	300	210	360	190	210	150	170	--	38.2	12.1	26.4	390	420	430	140
2-Methylnaphthalene	µg/L	NS	**NS**	480	650	610	360	--	450	370	480	340	330	680	190	820	590	1,100	640	660	470	590	--	<0.014 U	<0.047 U	<0.026 U	550	480	390	470
Acenaphthene	µg/L	NS	**NS**	350	160	150	150	--	120	93	120	95	91	170	58	230	160	260	160	160	120	160	110	61.2	35.5	79.2	190	170	180	130
Acenaphthylene	µg/L	NS	**NS**	<2.90 U	<2.40 U	<0.83 U	<2.60 U	--	<2.30 U	<0.69 U	<1.70 U	<0.69 U	<0.71 U	<0.73 U	2.8	42	<0.69 U	<0.69 U	<0.7 U	<0.72 U	<7.6 U	<0.7 U	2.3	1.3	0.90	1.8	<12.00 U	<2.40 U	<5.00 U	<2.60 U
Anthracene	µg/L	600	**3,000**	11	9.7	14	6.7	--	11	9.5	12	7	8.6	14	4.9	12	11	20	8	11	9.9	15	8.4	6.5	2.7	7.9	11	13	12	7.9
Benzo(a)anthracene	µg/L	NS	**NS**	0.55	<1.60 U	0.4	<0.580 U	--	0.21	0.19	0.3	0.18	0.096 J	0.22	0.12 J	0.17	0.047 J	0.12 J	0.062 J	<0.046 U	0.24	0.14	0.21	0.12 J	0.10 J	0.16 J	<0.370 U	<1.60 U	<1.100 U	<0.580 U
Benzo(a)pyrene	µg/L	0.02	**0.2**	<0.140 U	<0.160 U	<0.110 U	<0.340 U	--	<0.110 U	<0.032 U	<0.080 U	0.054 J	<0.033 U	0.1 J	<0.032 U	0.072 J	<0.032 U	0.032 J	0.062 J	<0.033 U	<0.035 U	<0.033 U	<0.08 U	<0.023 U	<0.10 U	<0.055 U	<0.580 U	<0.160 U	<0.660 U	<0.340 U
Benzo(b)fluoranthene	µg/L	0.02	**0.2**	<0.220 U	<0.480 U	<0.180 U	<0.550 U	--	<0.330 U	<0.098 U	<0.240 U	<0.098 U	<0.1 U	**0.21** J	<0.099 U	<0.1 U	<0.098 U	<0.098 U	<0.1 U	<0.1 U	<0.11 U	<0.1 U	<0.06 U	<0.028 U	<0.055 U	0.051 J	<0.920 U	<0.480 U	<1.100 U	<0.550 U
Benzo(g,h,i)perylene	µg/L	NS	**NS**	<0.52 U	<1.80 U	<0.320 U	<1.000 U	--	<0.40 U	<0.12 U	<0.30 U	<0.12 U	<0.12 U	<0.13 U	<0.12 U	<0.13 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U	<0.13 U	<0.12 U	<0.30 U	0.042 J	<0.065 U	<0.036 U	<2.2 U	<1.80 U	<1.900 U	<1.000 U
Benzo(k)fluoranthene	µg/L	NS	**NS**	<0.150 U	<0.300 U	<0.150 U	<0.470 U	--	<0.160 U	<0.049 U	<0.120 U	<0.049 U	<0.051 U	<0.052 U	<0.049 U	<0.052 U	<0.049 U	0.071 J	<0.05 U	<0.051 U	<0.054 U	<0.05 U	<0.05 U	<0.029 U	<0.073 U	0.052 J	<0.620 U	<0.300 U	<0.900 U	<0.470 U
Chrysene	µg/L	0.02	**0.2**	<0.068 U	<0.380 U	<0.160 U	<0.510 U	--	<0.140 U	<0.041 U	0.1	0.076 J	0.069 J	0.18	0.084 J	0.099 J	0.047 J	0.043 J	0.082 J	0.096 J	0.16	0.089 J	0.17 J	0.1 J	0.18 J	**0.32** J	<0.280 U	<0.380 U	<0.980 U	<0.510 U
Dibenz(a,h)anthracene	µg/L	NS	**NS**	<0.83 U	<0.900 U	<0.210 U	<0.670 U	--	<0.43 U	<0.13 U	<0.32 U	<0.13 U	<0.13 U	<0.14 U	<0.13 U	<0.14 U	<0.13 U	<0.13 U	<0.13 U	<0.14 U	<0.14 U	<0.13 U	<0.04 U	<0.029 U	<0.096 U	<0.053 U	<3.40 U	<0.910 U	<1.300 U	<0.670 U
Fluoranthene	µg/L	80	**400**	11	7.9	9.5	3.6	--	8.5	6.4	12	9.6	7.9	13	3.7	10	10	12	10	6.5	9	9.2	7.8	5.7	3.0	6.6	3.8	2.4	6.8	6.8
Fluorene	µg/L	80	**400**	170	180	170	53	--	140	110	140	97	93	200	54	200	150	270	140	150	140	160	120	38.9	13.8	13.9	61	54	69	130
Indeno(1,2,3-cd)pyrene	µg/L	NS	**NS**	<0.430 U	<0.360 U	<0.100 U	<0.320 U	--	<0.210 U	<0.062 U	<0.160 U	<0.062 U	<0.064 U	<0.065 U	<0.063 U	<0.065 U	<0.062 U	<0.062 U	<0.063 U	<0.065 U	<0.068 U	<0.063 U	<0.06 U	<0.019 U	<0.17 U	<0.093 U	<1.800 U	<0.370 U	<0.620 U	<0.320 U
Naphthalene	µg/L	10	**100**	**200**	14	45	**4,300**	--	19	38	**120**	29	56	**310**	4.2	28	**110**	**930**	**460**	**900**	**1,100**	**990**	1.5	0.22 J	0.23 J	0.57	**5,000**	**5,400**	**5,600**	3.2
Phenanthrene	µg/L	NS	**NS**	73	71	69	36	--	72	51	66	26	26	85	7.8	52	47	85	41	49	48	54	14	4.6	1.7	0.67	43	53	47	58
Pyrene	µg/L	50	**250**	1.1	0.99	3.9	1.7	--	2.5	3.3	2.5	3.8	1.5	0.96	0.7	1.9	2.1	1.1	9.5	13	3.6	1.8	3.8	2.1	2.0	4.5	<1.000 U	<0.150 U	2.5	3.2
Total PAH (16) [5]	µg/L	NS	**NS**	816.65	443.59	461.8	4551	--	373.21	311.39	472.9	267.71	284.165	793.67	136.304	576.241	490.194	1578.37	828.706	1289.6	1430.9	1390.23	268.18	120.782	60.11	115.723	5308.8	5692.4	5917.3	339.1
Petroleum Hydrocarbons																													
Diesel Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals																													
Iron, Total	µg/L	150	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**1,800**	**1,600**	**750**	**650** J	--	--	--	--	--	--	--	--
Cyanide																													
Cyanide DISS (amenable)	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide DISS, total	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide, Amenable	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide, Total	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lab MNA Parameters																													
Carbon Dioxide	µg/L	NS	**NS**	--	6,900	5,200	3,400	--	4,500	--	5,900	87,000	34,000	16,000	45,000	11,000	--	13,000	21,000	--	--	--	19,000	--	--	--	--	92,000	83,000	61,000
Carbon monoxide	mg/L	10,000	**10,000**	--	<0.4 U	<0.40 U	<0.40 U	--	--	--	--	--	--	<1 U	<1 U	<1 U	--	<1 U	--	--	--	--	--	--	--	--	--	<0.4 U	<0.40 U	<0.40 U
Ethane	µg/L	NS	**NS**	--	1.300	0.520	0.620	--	1.100	--	0.460	1	1	1.9	1.4	1.7	1	1.2	0.66	--	--	--	1.5	--	--	--	--	6.400	5.900	6.400
Ethene	µg/L	NS	**NS**	--	0.050	0.042	0.032	--	0.047	--	0.047	0.17	0.14	0.14	0.082	0.093	0.044	0.031	0.057	--	--	--	<0.13 U	--	--	--	--	0.079	0.045	0.037
Iron, Dissolved	µg/L	150	**300**	--	--	**590**	**390**	--	**330**	--	**540**	**1,200**	**4,300**	**950**	**920**	**1,200** J	**780**	**860**	--	--	--	--	**1,100**	**1,770**	--	**1,360**	--	--	**1,700**	**1,900**
Manganese, Dissolved	µg/L	60	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**124**	--	55.2	--	--	--	--
Methane	µg/L	NS	**NS**	--	1,000	300	290	--	650	--	250	250	510	2,300	1,000	1,200	570	1,100	530	--	--	--	2,200	1,520	--	839	--	12,000	10,000	7,500
Nitrogen, NO2 + NO3, Total	µg/L	2,000	**10,000**	<500 U	52	<24 U	<24 U	--	<24 U	--	<24 U	91 B	<100 U	<100 U	<500 U	<100 U	480	<100 U	130 J	--	--	--	<45 U	<95 U	--	<59 U	<500 U	90	<24 U	30
Nitrogen	µg/L	NS	**NS**	--	18,000	23,000	21,000	--	--	--	--	--	--	14,000	22,000	19,000	--	--	22,000	--	--	--	21,000	--	--	--	--	12,000	12,000	13,000
Oxygen	µg/L	NS	**NS**	--	800	1,000	1,700	--	--	--	--	--	--	660	980	1,200	--	1,600	1,800	--	--	--	1,600	--	--	--	--	520	690	590
Sulfate, Total	µg/L	125,000	**250,000**	**730,000**	**970,000**	46,000	53,000	--	**780,000**	--	110,000	**310,000** J	**650,000**	**720,000**	**305,000**	**950,000**	**1,300,000**	**1,300,000**	**680,000**	**980,000**	**600,000**	**360,000**	**320,000** B	**567,000**	--	**450,000**	64,000	57,000	40,000	130,000
Field Parameters																													
Dissolved oxygen	mg/L	NS	**NS**	--	--	0.58	0.06	0.11	0.07	0.13	0.32	0.1	0.19	0.36	0.31	1.54	0.23	0.63	0.06	--	--	--	--	0.17	0.20	0.11	--	--	0.02	0.07
Groundwater, depth to	feet	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.38	6.41	6.20	--	--	--	--
Oxidation Reduction Potential	millivolts	NS	**NS**	--	--	-264.9	-156.8	-131.2	-89.6	-264.2	-118.4	-325.9	-149.7	-211.5	-104.6	-358.2	-257.2	-247.3	-233.1	--	--	--	--	-299	-247	-289.0	--	--	-136.1	-100.9
pH, Field	s.u.	NS	**NS**	--	--	8.3	8.11	7.54	8.42	7.91	7.57	6.87	7.4	7.5	7.03	7.57	7.48	7.2	7.34	--	--	--	--	7.68	7.61	7.63	--	--	7.38	7.38
Specific Conductance, Field	µS/cm	NS	**NS**	--	--	451	2,068	1,392	2,125	568	486	3,877	3,250	3,620	9,730	3,193	5,193	3,720	16,164	--	--	--	--	7	6,670	4,868	--	--	6,035	6,897
Temperature, Water	Deg C	NS	**NS**	--	--	13.05	6.38	9.28	13.89	13.44	7.15	17.45	8.45	16.93	6.52	15.86	7.11	14.95	6.63	--	--	--	--	18.15	8.49	7.52	--	--	14.05	6.78
Turbidity, Quantitative	NTUs	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	6.33	--	--	--	--

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:	Units	WI GW PAL	WI GW ES	W-26I														
Depth Level Unit:				Lower Shallow														
Sample Date (m/d/yyyy):				6/19/2002	11/24/2003	3/10/2004	6/8/2004	9/9/2004	12/7/2004	3/17/2005	3/22/2005	9/20/2005	3/22/2006	3/28/2007	9/19/2007	3/27/2008	9/3/2008	3/26/2009
BTEX																		
Benzene	µg/L	0.5	**5**	0.36	<0.2 U	0.25	<0.2 U	<0.2 U	1	1	--	<0.2 U	<0.2 U	6.9	<0.2 U	0.64 J	0.96	<0.2 U
Ethylbenzene	µg/L	140	**700**	1.6	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	2.6	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Toluene	µg/L	160	**800**	1.7	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	0.81	<0.2 U	<0.2 U	<0.5 U	<0.5 U
Xylene, o	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes, m + p	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes, Total [1]	µg/L	400	**2,000**	10	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	1.6 J	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Total BTEX [2]	µg/L	NS	**NS**	13.66	<1.4 U	0.25	<1.4 U	<1.4 U	1	1	--	<1.4 U	<1.4 U	11.91	<1.4 U	0.64	0.96	<1.7 U
VOCs																		
1,1,1,2-Tetrachloroethane	µg/L	7	**70**	<0.11 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U
1,1,1-Trichloroethane	µg/L	40	**200**	<0.28 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1,2,2-Tetrachloroethane	µg/L	0.02	**0.2**	<0.39 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,1,2-Trichloroethane	µg/L	0.5	**5**	<0.15 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U
1,1-Dichloroethane	µg/L	85	**850**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1-Dichloroethene	µg/L	0.7	**7**	<0.73 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1-Dichloropropene	µg/L	NS	**NS**	<0.63 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2,3-Trichlorobenzene	µg/L	NS	**NS**	<0.32 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U
1,2,3-Trichloropropane	µg/L	12	**60**	<0.28 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2,4-Trichlorobenzene	µg/L	14	**70**	0.18	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U
1,2-Dibromo-3-chloropropane	µg/L	0.02	**0.2**	<1.4 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-Dibromoethane	µg/L	0.005	**0.05**	<0.16 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2-Dichlorobenzene	µg/L	60	**600**	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2-Dichloroethane	µg/L	0.5	**5**	<0.2 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-Dichloropropane	µg/L	0.5	**5**	<0.29 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2,4-Trimethylbenzene	µg/L	NS	**NS**	7.4	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	0.35 J	0.21 J	<0.2 U	<0.2 U	<0.2 U
1,3,5-Trimethylbenzene	µg/L	NS	**NS**	2.1	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Trimethylbenzenes, Total [3]	µg/L	96	**480**	9.5	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	--	<0.4 U	<0.4 U	0.35 J	0.21 J	<0.4 U	<0.4 U	<0.4 U
1,3-Dichlorobenzene	µg/L	120	**600**	<0.22 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,3-Dichloropropane	µg/L	NS	**NS**	<0.15 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U
1,4-Dichlorobenzene	µg/L	15	**75**	<0.35 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.5 U
2,2-Dichloropropane	µg/L	NS	**NS**	<0.37 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
2,3-Dichloropropene	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U
2-Chlorotoluene	µg/L	NS	**NS**	<0.28 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
4-Chlorotoluene	µg/L	NS	**NS**	<0.47 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
4-Isopropyltoluene	µg/L	NS	**NS**	<0.35 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Bromobenzene	µg/L	NS	**NS**	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Bromochloromethane	µg/L	NS	**NS**	<0.32 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Bromodichloromethane	µg/L	0.06	**0.6**	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Bromoform	µg/L	0.44	**4.4**	<0.14 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Bromomethane	µg/L	1	**10**	<0.46 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.5 U
Carbon Tetrachloride	µg/L	0.5	**5**	<0.4 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Chlorobenzene	µg/L	NS	**NS**	<0.22 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Chloroethane	µg/L	80	**400**	<1.2 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	--	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
Chloroform	µg/L	0.6	**6**	<0.18 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Chloromethane	µg/L	3	**30**	<0.38 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.3 U	<0.3 U
cis-1,2-Dichloroethene	µg/L	7	**70**	<0.23 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
cis-1,3-Dichloropropene	µg/L	NS	**NS**	<0.17 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
trans-1,3-Dichloropropene	µg/L	NS	**NS**	<0.13 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,3-Dichloropropene [4]	µg/L	0.04	**0.4**	<0.3 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	--	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U
Dibromochloromethane	µg/L	6	**60**	<0.1 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Dibromomethane	µg/L	NS	**NS**	<0.11 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Freon 12	µg/L	200	**1,000**	<0.49 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Hexachlorobutadiene	µg/L	NS	**NS**	<0.37 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Isopropyl ether	µg/L	NS	**NS**	<0.13 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Isopropylbenzene	µg/L	NS	**NS**	<0.36 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Methylene chloride (DCM)	µg/L	0.5	**5**	3.1	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	--	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
Methyl-tert-butyl-ether	µg/L	12	**60**	<0.14 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Naphthalene	µg/L	10	**100**	1.7	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	1.4	8.8	0.46 J	0.86	<0.25 U	1
n-Butylbenzene	µg/L	NS	**NS**	<0.44 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
n-Propylbenzene	µg/L	NS	**NS**	1.2	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
sec-Butylbenzene	µg/L	NS	**NS**	<0.45 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U
Styrene	µg/L	10	**100**	<0.16 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.5 U
tert-Butylbenzene	µg/L	NS	**NS**	<0.38 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Tetrachloroethene	µg/L	0.5	**5**	<0.63 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
trans-1,2-Dichloroethene	µg/L	20	**100**	<0.39 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Trichloroethene	µg/L	0.5	**5**	<0.49 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Trichlorofluoromethane	µg/L	NS	**NS**	<0.58 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Vinyl Chloride	µg/L	0.02	**0.2**	<0.46 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:				W-26I														
Depth Level Unit:				Lower Shallow														
Sample Date (m/d/yyyy):	Units	WI GW PAL	WI GW ES	6/19/2002	11/24/2003	3/10/2004	6/8/2004	9/9/2004	12/7/2004	3/17/2005	3/22/2005	9/20/2005	3/22/2006	3/28/2007	9/19/2007	3/27/2008	9/3/2008	3/26/2009
PAHs																		
1-Methylnaphthalene	µg/L	NS	**NS**	<0.60 U	<0.44 U	<0.44 U	<0.44 U	<0.33 U	<0.33 U	<0.99 U	--	<0.32 U	0.82 J	<0.89 U	0.5 J	1.4 J	<0.64 U	<0.33 U
2-Methylnaphthalene	µg/L	NS	**NS**	<0.57 U	<0.3 U	<0.3 U	<0.3 U	<0.32 U	<0.32 U	<0.95 U	--	<0.31 U	8.9	<0.86 U	2.4	8.5	2.7	1.4
Acenaphthene	µg/L	NS	**NS**	<0.51 U	<0.58 U	<0.58 U	<0.58 U	<0.34 U	<0.34 U	<1.00 U	--	<0.33 U	1.8	3.2 J	0.69 J	1.1 J	<0.66 U	<0.34 U
Acenaphthylene	µg/L	NS	**NS**	<0.23 U	<0.25 U	<0.25 U	<0.25 U	<0.71 U	<0.70 U	<2.10 U	--	<0.69 U	<0.71 U	<1.9 U	<0.72 U	<1.4 U	<1.4 U	<0.71 U
Anthracene	µg/L	600	**3,000**	<0.092 U	<0.034 U	<0.034 U	<0.034 U	<0.039 U	<0.039 U	<0.120 U	--	<0.038 U	0.71	1.6	0.44	0.56	0.33	0.26
Benzo(a)anthracene	µg/L	NS	**NS**	<0.16 U	<0.056 U	<0.056 U	<0.056 U	<0.045 U	<0.045 U	<0.140 U	--	<0.044 U	1.6	11	0.29	4.6	0.43	0.32
Benzo(a)pyrene	µg/L	0.02	**0.2**	<0.016 U	<0.033 U	0.041	<0.033 U	<0.033 U	<0.033 U	<0.099 U	--	0.059 J	**2.1**	**15**	**0.5**	**5.8**	**0.75**	**0.64**
Benzo(b)fluoranthene	µg/L	0.02	**0.2**	<0.047 U	<0.053 U	<0.053 U	<0.053 U	<0.100 U	<0.100 U	<0.300 U	--	<0.098 U	**3**	24	0.66	**7.8**	**1**	**1.3**
Benzo(g,h,i)perylene	µg/L	NS	**NS**	<0.18 U	<0.096 U	<0.096 U	<0.096 U	<0.12 U	<0.12 U	<0.37 U	--	<0.12 U	2.7	15	0.58	6.7	0.82	0.91
Benzo(k)fluoranthene	µg/L	NS	**NS**	<0.029 U	<0.045 U	<0.045 U	<0.045 U	<0.050 U	<0.050 U	<0.150 U	--	<0.049 U	1.6	12	0.39	4.5	0.6	0.51
Chrysene	µg/L	0.02	**0.2**	<0.037 U	<0.049 U	<0.049 U	<0.049 U	<0.042 U	<0.042 U	<0.130 U	--	0.065 J	**2.6**	**17**	**0.58**	**6.5**	<0.082 U	**0.93**
Dibenz(a,h)anthracene	µg/L	NS	**NS**	<0.088 U	<0.064 U	<0.064 U	<0.064 U	<0.13 U	<0.13 U	<0.40 U	--	<0.13 U	0.31 J	2.6	<0.14 U	0.89	<0.26 U	0.16 J
Fluoranthene	µg/L	80	**400**	<0.13 U	<0.024 U	0.059	0.066	<0.083 U	<0.083 U	<0.250 U	--	0.18 J	12	53	3.4	20	4.7	3.8
Fluorene	µg/L	80	**400**	<0.17 U	<0.064 U	<0.064 U	<0.064 U	<0.064 U	<0.063 U	<0.190 U	--	<0.062 U	0.96	2.2	1	1.8 J	1.3 J	1.3
Indeno(1,2,3-cd)pyrene	µg/L	NS	**NS**	<0.036 U	<0.031 U	<0.031 U	<0.031 U	<0.064 U	<0.063 U	<0.190 U	--	<0.062 U	2.2	16	0.49	7.3	0.98	1.6
Naphthalene	µg/L	10	**100**	<0.67 U	<0.26 U	<0.26 U	<0.26 U	<0.41 U	<0.41 U	<1.2 U	--	<0.4 U	6.3	<1.1 U	2	1.3 J	<0.8 U	2.9
Phenanthrene	µg/L	NS	**NS**	0.06	<0.02 U	0.059	0.045	<0.031 U	<0.031 U	<0.092 U	--	0.1	5.1	17	1.5	11	4.8	2.4
Pyrene	µg/L	50	**250**	<0.014 U	<0.04 U	0.083	<0.04 U	<0.045 U	<0.045 U	<0.140 U	--	0.12 J	6.9	29	2	15	2.6	2.6
Total PAH (16) [5]	µg/L	NS	**NS**	0.06	<0.58 U	0.242	0.111	<0.71 U	<0.7 U	<2.1 U	--	0.524	49.88	218.6	14.52	94.85	18.31	19.63
Petroleum Hydrocarbons																		
Diesel Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals																		
Iron, Total	µg/L	150	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**4,100**
Cyanide																		
Cyanide DISS (amenable)	µg/L	40	**200**	--	--	--	--	--	--	--	--	**1,100**	--	**2,700**	<7.7 U	--	**1,700**	--
Cyanide DISS, total	µg/L	40	**200**	--	--	--	--	--	--	--	--	**8,000**	--	**2,500**	**8,900**	**18,000**	**13,000**	--
Cyanide, Amenable	µg/L	40	**200**	--	--	--	--	--	--	--	**200**	**2,600**	--	--	--	--	--	<34 U
Cyanide, Total	µg/L	40	**200**	--	--	--	--	--	--	--	**11,000**	**8,400**	--	--	--	--	--	**11,000**
Lab MNA Parameters																		
Carbon Dioxide	µg/L	NS	**NS**	240,000	260,000	220,000	--	200,000	--	200,000	--	200,000	150,000	45,000	95,000	--	110,000	140,000
Carbon monoxide	mg/L	10,000	**10,000**	<0.4 U	<0.4 U	<0.40 U	--	--	--	--	--	--	--	<1 U	<1 U	--	<1 U	--
Ethane	µg/L	NS	**NS**	2.100	3.900	1.800	--	3.200	--	2.800	--	3.9	2.8	2.8	3.7	4.8	3.2	3.3
Ethene	µg/L	NS	**NS**	0.011	0.028	0.049	--	0.051	--	<0.005 U	--	0.03	0.063	0.24	<0.025 U	0.13	<0.025 U	<0.025 U
Iron, Dissolved	µg/L	150	**300**	--	**6,800**	**5,600**	--	**4,500**	--	**5,000**	--	**6,800**	**4,900**	**860**	**6,200**	**10,000**	**6,400**	--
Manganese, Dissolved	µg/L	60	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	µg/L	NS	**NS**	150	800	350	--	590	--	400	--	740	1,100	1,300	790	1,300	950	690
Nitrogen, NO2 + NO3, Total	µg/L	2,000	**10,000**	77	<24 U	170	--	160	--	<24 U	--	<24 U	<100 U	<500 U	<100 U	<100 U	<100 U	140 J
Nitrogen	µg/L	NS	**NS**	15,000	15,000	16,000	--	--	--	--	--	--	--	18,000	14,000	--	--	14,000
Oxygen	µg/L	NS	**NS**	690	730	630	--	--	--	--	--	--	--	1,100	1,500	--	1,300	1,300
Sulfate, Total	µg/L	125,000	**250,000**	**600,000**	8,100	**890,000**	--	**690,000**	--	**650,000**	--	**740,000**	**750,000**	237,000	**790,000**	**1,100,000**	**860,000**	**700,000**
Field Parameters																		
Dissolved oxygen	mg/L	NS	**NS**	--	7.3	0.11	1.44	0.14	0.21	0.07	--	0.12	0.33	0.75	0.15	0.19	0.1	0.03
Groundwater, depth to	feet	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	millivolts	NS	**NS**	--	-141.6	-302.8	-151.7	-72.7	-167.5	-156.2	--	-129.9	-84	-60.3	-332.8	-107.2	-179.2	-256.6
pH, Field	s.u.	NS	**NS**	--	6.88	7.06	6.92	7.69	6.23	8.97	--	6.79	7.28	7.09	7.25	7.11	7.03	6.96
Specific Conductance, Field	µS/cm	NS	**NS**	--	7,978	7,124	6,814	6,875	6,727	5,847	--	6,326	8,084	4,168	5,180	37,255	7,229	8,966
Temperature, Water	Deg C	NS	**NS**	--	15.3	14.93	13.92	14.59	15.69	14.9	--	14.99	15.18	13.41	14.82	14.92	18.72	14.49
Turbidity, Quantitative	NTUs	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:	Units	WI GW PAL	WI GW ES	W-26S															
Depth Level Unit:				Upper Shallow															
Sample Date (m/d/yyyy):				12/20/2000	6/19/2002	11/24/2003	3/10/2004	6/8/2004	9/9/2004	12/8/2004	3/18/2005	3/22/2005	9/19/2005	3/28/2007	9/19/2007	3/27/2008	9/3/2008	3/26/2009	9/29/2009
BTEX																			
Benzene	µg/L	0.5	**5**	20	85	83	3	37	54	78	44	--	33	<0.2 U	27	21	26	24	26
Ethylbenzene	µg/L	140	**700**	<0.25 U	0.61	<1.0 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.22 U
Toluene	µg/L	160	**800**	<0.1 U	<0.39 U	<0.4 U	<0.2 U	<0.2 U	0.3	0.22	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.5 U	<0.25 U
Xylene, o	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes, m + p	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes, Total [1]	µg/L	400	**2,000**	<0.25 U	<1.1 U	<1.0 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	0.44 J
Total BTEX [2]	µg/L	NS	**NS**	20	85.61	83	3	37	54.3	78.22	44	--	33	<1.4 U	27	21	26	24	26.44
VOCs																			
1,1,1,2-Tetrachloroethane	µg/L	7	**70**	<0.25 U	<0.11 U	<0.50 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--
1,1,1-Trichloroethane	µg/L	40	**200**	<0.25 U	<0.28 U	<1.0 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--
1,1,2,2-Tetrachloroethane	µg/L	0.02	**0.2**	<0.25 U	<0.39 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--
1,1,2-Trichloroethane	µg/L	0.5	**5**	<0.25 U	<0.15 U	<0.50 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--
1,1-Dichloroethane	µg/L	85	**850**	<0.25 U	<0.25 U	<1.0 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--
1,1-Dichloroethene	µg/L	0.7	**7**	<0.25 U	<0.73 U	<1.0 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--
1,1-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.63 U	<1.0 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--
1,2,3-Trichlorobenzene	µg/L	NS	**NS**	<0.25 U	<0.32 U	<0.50 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--
1,2,3-Trichloropropane	µg/L	12	**60**	<0.25 U	<0.28 U	<1.0 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--
1,2,4-Trichlorobenzene	µg/L	14	**70**	<0.25 U	<0.18 U	<0.50 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--
1,2-Dibromo-3-chloropropane	µg/L	0.02	**0.2**	<0.25 U	<1.4 U	<1.0 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--
1,2-Dibromoethane	µg/L	0.005	**0.05**	<0.25 U	<0.16 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--
1,2-Dichlorobenzene	µg/L	60	**600**	<0.25 U	<0.2 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--
1,2-Dichloroethane	µg/L	0.5	**5**	<0.25 U	<0.2 U	<1.0 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--
1,2-Dichloropropane	µg/L	0.5	**5**	<0.25 U	<0.29 U	<1.0 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--
1,2,4-Trimethylbenzene	µg/L	NS	**NS**	<0.1 U	<0.32 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.25 U
1,3,5-Trimethylbenzene	µg/L	NS	**NS**	<0.1 U	<0.33 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.19 U
Trimethylbenzenes, Total [3]	µg/L	96	**480**	<0.2 U	<0.65 U	<0.8 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	--	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.44 U
1,3-Dichlorobenzene	µg/L	120	**600**	<0.25 U	<0.22 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--
1,3-Dichloropropane	µg/L	NS	**NS**	<0.25 U	<0.15 U	<0.50 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--
1,4-Dichlorobenzene	µg/L	15	**75**	<0.25 U	<0.35 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.5 U	--
2,2-Dichloropropane	µg/L	NS	**NS**	<0.25 U	<0.37 U	<1.0 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--
2,3-Dichloropropene	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--
2-Chlorotoluene	µg/L	NS	**NS**	<0.1 U	<0.28 U	<1.0 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--
4-Chlorotoluene	µg/L	NS	**NS**	<0.25 U	<0.47 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--
4-Isopropyltoluene	µg/L	NS	**NS**	<0.25 U	<0.35 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--
Bromobenzene	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--
Bromochloromethane	µg/L	NS	**NS**	<0.25 U	<0.32 U	<1.0 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--
Bromodichloromethane	µg/L	0.06	**0.6**	<0.25 U	<0.2 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--
Bromoform	µg/L	0.44	**4.4**	<0.25 U	<0.14 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--
Bromomethane	µg/L	1	**10**	<0.25 U	<0.46 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.5 U	--
Carbon Tetrachloride	µg/L	0.5	**5**	<0.25 U	<0.4 U	<1.0 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--
Chlorobenzene	µg/L	NS	**NS**	<0.25 U	<0.22 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--
Chloroethane	µg/L	80	**400**	<0.25 U	<1.2 U	<2 U	<1 U	<1 U	<1 U	<1 U	<1 U	--	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	--
Chloroform	µg/L	0.6	**6**	<0.25 U	<0.18 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--
Chloromethane	µg/L	3	**30**	<0.25 U	<0.38 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.3 U	<0.3 U	--
cis-1,2-Dichloroethene	µg/L	7	**70**	<0.25 U	<0.23 U	<1.0 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--
cis-1,3-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.17 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--
trans-1,3-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.13 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--
1,3-Dichloropropene [4]	µg/L	0.04	**0.4**	<0.5 U	<0.3 U	<0.8 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	--	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	--
Dibromochloromethane	µg/L	6	**60**	<0.25 U	<0.1 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--
Dibromomethane	µg/L	NS	**NS**	<0.25 U	<0.11 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--
Freon 12	µg/L	200	**1,000**	<0.25 U	<0.49 U	<1.0 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--
Hexachlorobutadiene	µg/L	NS	**NS**	<0.25 U	<0.37 U	<1.0 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--
Isopropyl ether	µg/L	NS	**NS**	<0.25 U	<0.13 U	<1.0 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--
Isopropylbenzene	µg/L	NS	**NS**	0.91	0.82	0.54	0.48	0.62	0.88	0.56	0.49	--	0.73	0.31 J	0.67	0.29 J	0.48 J	0.45 J	--
Methylene chloride (DCM)	µg/L	0.5	**5**	<0.25 U	<0.87 U	<2 U	<1 U	<1 U	<1 U	<1 U	<1 U	--	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	--
Methyl-tert-butyl-ether	µg/L	12	**60**	<0.25 U	<0.14 U	<1.0 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.23 U
Naphthalene	µg/L	10	**100**	<0.25 U	<0.35 U	0.82	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	0.59 J	0.44 J	<0.25 U	0.41 J	<0.25 U	0.4	--
n-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.44 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--
n-Propylbenzene	µg/L	NS	**NS**	<0.25 U	<0.46 U	<1.0 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--
sec-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.45 U	<0.50 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--
Styrene	µg/L	10	**100**	<0.25 U	<0.16 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.5 U	--
tert-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.38 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--
Tetrachloroethene	µg/L	0.5	**5**	<0.25 U	<0.63 U	<1.0 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--
trans-1,2-Dichloroethene	µg/L	20	**100**	<0.25 U	<0.39 U	<1.0 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--
Trichloroethene	µg/L	0.5	**5**	<0.25 U	<0.49 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--
Trichlorofluoromethane	µg/L	NS	**NS**	<0.25 U	<0.58 U	<1.0 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--
Vinyl Chloride	µg/L	0.02	**0.2**	<0.25 U	<0.46 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:	Units	WI GW PAL	WI GW ES	W-26S															
Depth Level Unit:				Upper Shallow															
Sample Date (m/d/yyyy):				12/20/2000	6/19/2002	11/24/2003	3/10/2004	6/8/2004	9/9/2004	12/8/2004	3/18/2005	3/22/2005	9/19/2005	3/28/2007	9/19/2007	3/27/2008	9/3/2008	3/26/2009	9/29/2009
PAHs																			
1-Methylnaphthalene	µg/L	NS	**NS**	<0.46 U	<0.57 U	<0.44 U	<0.48 U	<0.44 U	0.35	<0.32 U	<0.32 U	--	<0.32 U	<0.33 U	0.53 J	<0.33 U	<0.64 U	0.33 J	0.89 J
2-Methylnaphthalene	µg/L	NS	**NS**	<0.7 U	<0.54 U	<0.3 U	2.4	<0.3 U	5.8	<0.31 U	3.6	--	5.5	<0.32 U	5.2	<0.32 U	5.5	3.6	10
Acenaphthene	µg/L	NS	**NS**	24	11	<0.58 U	5.6	14	22	<0.33 U	9.6	--	12	3.1	14	5.8	9.8	9.6	29
Acenaphthylene	µg/L	NS	**NS**	1.6	<0.22 U	<0.25 U	<0.27 U	<0.25 U	<0.71 U	<0.70 U	<0.69 U	--	1.1 J	<0.71 U	1 J	<0.71 U	<1.4 U	1.3 J	1.7 J
Anthracene	µg/L	600	**3,000**	0.44	0.22	<0.034 U	0.039	0.045	0.15	<0.038 U	0.084	--	0.088 J	0.045 J	0.34	0.11 J	0.34	0.064 J	0.6
Benzo(a)anthracene	µg/L	NS	**NS**	0.048	<0.15 U	<0.056 U	<0.061 U	<0.056 U	<0.045 U	0.053	<0.044 U	--	0.074 J	<0.045 U	<0.046 U	<0.045 U	0.84	<0.045 U	<0.045 U
Benzo(a)pyrene	µg/L	0.02	**0.2**	<0.031 U	<0.015 U	<0.033 U	<0.036 U	<0.033 U	<0.033 U	<0.032 U	<0.032 U	--	<0.032 U	<0.033 U	<0.033 U	<0.033 U	**0.97**	<0.033 U	<0.033 U
Benzo(b)fluoranthene	µg/L	0.02	**0.2**	<0.050 U	<0.045 U	<0.053 U	<0.058 U	<0.053 U	<0.100 U	<0.099 U	<0.098 U	--	<0.098 U	<0.1 U	<0.1 U	<0.1 U	**0.89**	<0.1 U	<0.1 U
Benzo(g,h,i)perylene	µg/L	NS	**NS**	<0.12 U	<0.17 U	<0.096 U	<0.100 U	<0.096 U	<0.12 U	<0.12 U	<0.12 U	--	<0.12 U	<0.12 U	<0.12 U	<0.12 U	0.66	<0.12 U	<0.12 U
Benzo(k)fluoranthene	µg/L	NS	**NS**	<0.034 U	<0.028 U	<0.045 U	<0.049 U	<0.045 U	<0.050 U	<0.049 U	<0.049 U	--	<0.049 U	<0.051 U	<0.051 U	<0.051 U	0.59	<0.05 U	<0.051 U
Chrysene	µg/L	0.02	**0.2**	<0.015 U	<0.035 U	<0.049 U	<0.053 U	<0.049 U	<0.042 U	<0.041 U	<0.041 U	--	0.044 J	<0.042 U	<0.043 U	<0.042 U	0.13 J	<0.042 U	<0.042 U
Dibenz(a,h)anthracene	µg/L	NS	**NS**	<0.19 U	<0.084 U	<0.064 U	<0.070 U	<0.064 U	<0.13 U	<0.13 U	<0.13 U	--	<0.13 U	<0.13 U	<0.14 U	<0.13 U	<0.26 U	<0.13 U	<0.13 U
Fluoranthene	µg/L	80	**400**	2.1	0.37	<0.024 U	0.35	0.53	0.86	0.47	0.47	--	0.57	0.11 J	0.63	0.3	2.3	0.3	0.91
Fluorene	µg/L	80	**400**	<0.034 U	<0.16 U	<0.064 U	<0.070 U	<0.064 U	0.46	0.19	<0.062 U	--	0.5	<0.064 U	<0.06 U	<0.064 U	<0.12 U	<0.063 U	1.4
Indeno(1,2,3-cd)pyrene	µg/L	NS	**NS**	<0.096 U	<0.034 U	<0.031 U	<0.034 U	<0.031 U	<0.064 U	<0.063 U	<0.062 U	--	<0.062 U	<0.064 U	<0.065 U	<0.064 U	1.1	<0.063 U	<0.064 U
Naphthalene	µg/L	10	**100**	<0.26 U	<0.64 U	<0.26 U	0.78	<0.26 U	3.6	<0.4 U	<0.4 U	--	3	<0.41 U	3.5	<0.41 U	<0.8 U	1.8	1.4
Phenanthrene	µg/L	NS	**NS**	<0.016 U	0.068	<0.02 U	0.057	0.08	0.045	0.042	<0.03 U	--	0.068 J	<0.031 U	0.13 J	0.13 J	0.65	<0.031 U	0.08 J
Pyrene	µg/L	50	**250**	0.85	0.48	<0.04 U	0.29	0.41	0.54	0.51	0.3	--	0.72	<0.045 U	0.24	0.18	1.7	0.18	0.75
Total PAH (16) [5]	µg/L	NS	**NS**	29.038	12.138	<0.58 U	7.116	15.065	27.655	1.265	10.454	--	18.164	3.255	19.84	6.52	19.97	13.244	35.84
Petroleum Hydrocarbons																			
Diesel Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals																			
Iron, Total	µg/L	150	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**7,000**	**8,300**
Cyanide																			
Cyanide DISS (amenable)	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	**5,000**	**12,000**	<7.7 U	--	**2,700**	--	--
Cyanide DISS, total	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	**27,000**	**26,000**	**19,000**	**21,000**	**25,000**	--	--
Cyanide, Amenable	µg/L	40	**200**	--	--	--	--	--	--	--	--	**2,000**	**3,000**	--	--	--	--	<34 U	--
Cyanide, Total	µg/L	40	**200**	--	--	--	--	--	--	--	--	**33,000**	**25,000**	--	--	--	--	**20,000**	--
Lab MNA Parameters																			
Carbon Dioxide	µg/L	NS	**NS**	--	42,000	53,000	57,000	--	41,000	--	33,000	--	36,000	50,000	51,000	--	44,000	35,000	--
Carbon monoxide	mg/L	10,000	**10,000**	--	<0.4 U	<0.4 U	<0.40 U	--	--	--	--	--	--	<1 U	<1 U	--	<1 U	--	--
Ethane	µg/L	NS	**NS**	--	4.800	3.800	8.900	--	3.700	--	3.300	--	4	11	3.1	3.8	3.2	2.9	--
Ethene	µg/L	NS	**NS**	--	0.012	0.013	0.064	--	0.026	--	<0.005 U	--	<0.025 U	<0.025 U	<0.025 U	0.095	<0.025 U	<0.025 U	--
Iron, Dissolved	µg/L	150	**300**	--	--	**7,500**	**9,900**	--	**6,900**	--	**10,000**	--	**9,600**	**14,000**	**8,400**	**9,200**	**9,900**	--	--
Manganese, Dissolved	µg/L	60	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	µg/L	NS	**NS**	--	470	560	780	--	380	--	480	--	380	1,200	390	740	510	580	--
Nitrogen, NO2 + NO3, Total	µg/L	2,000	**10,000**	<500 U	52	26	<24 U	--	<24 U	--	<24 U	--	120	<500 U	<100 U	<100 U	<100 U	<100 U	--
Nitrogen	µg/L	NS	**NS**	--	18,000	20,000	19,000	--	--	--	--	--	--	20,000	15,000	--	--	19,000	--
Oxygen	µg/L	NS	**NS**	--	7,000	820	860	--	--	--	--	--	--	890	1,100	--	1,400	1,600	--
Sulfate, Total	µg/L	125,000	**250,000**	<2,000 U	20,000	15,000	**2,100,000**	--	**1,900,000**	--	**2,000,000**	--	**1,800,000**	**1,730,000**	**1,400,000**	**1,200,000**	**1,300,000**	**1,600,000**	**1,500,000**
Field Parameters																			
Dissolved oxygen	mg/L	NS	**NS**	--	--	9.73	0.08	1.06	0.12	0.12	0.05	--	0.11	0.08	0	0.04	0.1	0.01	--
Groundwater, depth to	feet	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	millivolts	NS	**NS**	--	--	-234	-304.3	-209.3	-134.5	-346.8	-251.6	--	-339.9	-252.7	-259.5	-113.8	-111.6	-206.5	--
pH, Field	s.u.	NS	**NS**	--	--	7.42	7.51	7.42	8.16	6.05	7.53	--	7.42	7.56	7.26	7.36	7.7	7.48	--
Specific Conductance, Field	µS/cm	NS	**NS**	--	--	13,692	11,999	9,219	10,232	8,595	8,006	--	8,094	7,800	8,489	8,740	1,066	22,536	--
Temperature, Water	Deg C	NS	**NS**	--	--	18.74	10.91	13.32	17.28	17.95	11.59	--	20.2	10.41	20.37	4.7	18.03	9.2	--
Turbidity, Quantitative	NTUs	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:	Units	WI GW PAL	WI GW ES	W-27D																	
Depth Level Unit:				Clay																	
Sample Date (m/d/yyyy):				6/17/2002	11/20/2003	3/10/2004	6/7/2004	9/7/2004	12/8/2004	3/17/2005	9/20/2005	3/22/2006	9/27/2006	3/26/2007	9/18/2007	3/26/2008	9/5/2008	3/24/2009	8/25/2015	8/22/2016	2/27/2017	12/17/2019
BTEX																					
Benzene	µg/L	0.5	**5**	<0.1 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	0.41 J	<0.2 U	<0.2 U	<0.074 U	<0.50 U	<0.50 U	<0.25 U
Ethylbenzene	µg/L	140	**700**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.13 U	<0.50 U	<0.50 U	<0.22 U
Toluene	µg/L	160	**800**	0.27	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.5 U	<0.11 U	<0.50 U	<0.50 U	<0.17 U
Xylene, o	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.50 U	<0.50 U	<0.26 U
Xylenes, m + p	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.0 U	<1.0 U	<0.47 U
Xylenes, Total [1]	µg/L	400	**2,000**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.068 U	<1.5 U	<1.5 U	<0.73 U
Total BTEX [2]	µg/L	NS	**NS**	0.27	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	0.41	<1.7 U	<1.7 U	<0.382 U	<3 U	<3 U	<1.37 U
VOCs																					
1,1,1,2-Tetrachloroethane	µg/L	7	**70**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.18 U	<0.18 U	<0.27 U
1,1,1-Trichloroethane	µg/L	40	**200**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.2 U	<0.50 U	<0.50 U	<0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.02	**0.2**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.23 U	<0.25 U	<0.25 U	<0.28 U
1,1,2-Trichloroethane	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.28 U	<0.20 U	<0.20 U	<0.55 U
1,1-Dichloroethane	µg/L	85	**850**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.19 U	<0.24 U	<0.24 U	<0.27 U
1,1-Dichloroethene	µg/L	0.7	**7**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.31 U	<0.41 U	<0.41 U	<0.24 U
1,1-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.34 U	<0.44 U	<0.44 U	<0.54 U
1,2,3-Trichlorobenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.24 U	<2.1 U	<2.1 U	<0.63 U
1,2,3-Trichloropropane	µg/L	12	**60**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.45 U	<0.50 U	<0.50 U	<0.59 U
1,2,4-Trichlorobenzene	µg/L	14	**70**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.31 U	<2.2 U	<2.2 U	<0.95 U
1,2-Dibromo-3-chloropropane	µg/L	0.02	**0.2**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.87 U	<2.2 U	<2.2 U	<1.8 U
1,2-Dibromoethane	µg/L	0.005	**0.05**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.36 U	<0.18 U	<0.18 U	<0.83 U
1,2-Dichlorobenzene	µg/L	60	**600**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.27 U	<0.50 U	<0.50 U	<0.71 U
1,2-Dichloroethane	µg/L	0.5	**5**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.28 U	<0.17 U	<0.17 U	<0.28 U
1,2-Dichloropropane	µg/L	0.5	**5**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.2 U	<0.23 U	<0.23 U	<0.28 U
1,2,4-Trimethylbenzene	µg/L	NS	**NS**	0.44	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.14 U	<0.50 U	<0.50 U	<0.84 U
1,3,5-Trimethylbenzene	µg/L	NS	**NS**	<0.1 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.18 U	<0.50 U	<0.50 U	<0.87 U
Trimethylbenzenes, Total [3]	µg/L	96	**480**	0.44	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.32 U	<1 U	<1 U	<1.71 U
1,3-Dichlorobenzene	µg/L	120	**600**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.15 U	<0.50 U	<0.50 U	<0.63 U
1,3-Dichloropropane	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.13 U	<0.50 U	<0.50 U	<0.83 U
1,4-Dichlorobenzene	µg/L	15	**75**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.5 U	<0.15 U	<0.50 U	<0.50 U	<0.94 U
2,2-Dichloropropane	µg/L	NS	**NS**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.32 U	<0.48 U	<0.48 U	<2.3 U
2,3-Dichloropropene	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	--	--	--
2-Chlorotoluene	µg/L	NS	**NS**	<0.1 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.21 U	<0.50 U	<0.50 U	<0.93 U
4-Chlorotoluene	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.21 U	<0.76 U
4-Isopropyltoluene	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.17 U	<0.50 U	<0.50 U	<0.80 U
Bromobenzene	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.25 U	<0.23 U	<0.23 U	<0.24 U
Bromochloromethane	µg/L	NS	**NS**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.4 U	<0.34 U	<0.34 U	<0.36 U
Bromodichloromethane	µg/L	0.06	**0.6**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.17 U	<0.50 U	<0.50 U	<0.36 U
Bromoform	µg/L	0.44	**4.4**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.28 U	<0.50 U	<0.50 U	<4.0 U
Bromomethane	µg/L	1	**10**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.5 U	<0.31 U	<2.4 U	<2.4 U	<0.97 U
Carbon Tetrachloride	µg/L	0.5	**5**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.26 U	<0.50 U	<0.50 U	<0.17 U
Chlorobenzene	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.14 U	<0.50 U	<0.50 U	<0.71 U
Chloroethane	µg/L	80	**400**	<0.25 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<0.34 U	<0.37 U	<0.37 U	<1.3 U
Chloroform	µg/L	0.6	**6**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<2.5 U	<2.5 U	<1.3 U
Chloromethane	µg/L	3	**30**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.3 U	<0.3 U	<0.18 U	<0.50 U	<0.50 U	<2.2 U
cis-1,2-Dichloroethene	µg/L	7	**70**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.12 U	<0.26 U	<0.26 U	<0.27 U
cis-1,3-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.18 U	<0.50 U	<0.50 U	<3.6 U
trans-1,3-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.23 U	<0.23 U	<4.4 U
1,3-Dichloropropene [4]	µg/L	0.04	**0.4**	<0.5 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.39 U	<0.73 U	<0.73 U	<8 U
Dibromochloromethane	µg/L	6	**60**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.32 U	<0.50 U	<0.50 U	<2.6 U
Dibromomethane	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.33 U	<0.43 U	<0.43 U	<0.94 U
Freon 12	µg/L	200	**1,000**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.2 U	<0.22 U	<0.22 U	<0.50 U
Hexachlorobutadiene	µg/L	NS	**NS**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.26 U	<2.1 U	<2.1 U	<1.2 U
Isopropyl ether	µg/L	NS	**NS**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.15 U	<0.50 U	<0.50 U	<1.9 U
Isopropylbenzene	µg/L	NS	**NS**	0.58	<0.2 U	<0.2 U	<0.2 U	0.24	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.14 U	<0.14 U	<0.14 U	<0.39 U
Methylene chloride (DCM)	µg/L	0.5	**5**	<0.25 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	1.6	<1 U	<1 U	<1 U	<1 U	<0.68 U	<0.23 U	<0.23 U	<0.58 U
Methyl-tert-butyl-ether	µg/L	12	**60**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.24 U	<0.17 U	<0.17 U	<1.2 U
Naphthalene	µg/L	10	**100**	0.3	<0.25 U	<0.25 U	<0.25 U	0.25	<0.25 U	<0.25 U	0.48 J	<0.25 U	<0.25 U	<0.25 U	<0.25 U	0.46 J	<0.25 U	<0.25 U	<0.16 U	<2.5 U	<2.5 U	<1.2 U
n-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.13 U	<0.50 U	<0.50 U	<0.71 U
n-Propylbenzene	µg/L	NS	**NS**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.13 U	<0.50 U	<0.50 U	<0.81 U
sec-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.15 U	<2.2 U	<2.2 U	<0.85 U
Styrene	µg/L	10	**100**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.5 U	<0.1 U	<0.50 U	<0.50 U	<0.47 U
tert-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.14 U	<0.18 U	<0.18 U	<0.30 U
Tetrachloroethene	µg/L	0.5	**5**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.17 U	<0.50 U	<0.50 U	<0.33 U
trans-1,2-Dichloroethene	µg/L	20	**100**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.25 U	<0.26 U	<0.26 U	<1.1 U
Trichloroethene	µg/L	0.5	**5**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.19 U	<0.33 U	<0.33 U	<0.26 U
Trichlorofluoromethane	µg/L	NS	**NS**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.19 U	<0.18 U	<0.18 U	<0.21 U
Vinyl Chloride	µg/L	0.02	**0.2**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.1 U	<0.18 U	<0.18 U	<0.17 U

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:	Units	WI GW PAL	WI GW ES	W-27D																		
Depth Level Unit:				Clay																		
Sample Date (m/d/yyyy):				6/17/2002	11/20/2003	3/10/2004	6/7/2004	9/7/2004	12/8/2004	3/17/2005	9/20/2005	3/22/2006	9/27/2006	3/26/2007	9/18/2007	3/26/2008	9/5/2008	3/24/2009	8/25/2015	8/22/2016	2/27/2017	12/17/2019
PAHs																						
1-Methylnaphthalene	µg/L	NS	**NS**	<0.55 U	<0.44 U	<0.45 U	<0.44 U	<0.32 U	<0.33 U	<0.32 U	<0.32 U	<0.32 U	<0.34 U	<0.33 U	<0.34 U	<0.32 U	<0.32 U	<0.33 U	--	0.025 J	<0.0057 U	0.012 J
2-Methylnaphthalene	µg/L	NS	**NS**	<0.52 U	<0.3 U	<0.31 U	<0.3 U	<0.31 U	<0.32 U	<0.31 U	<0.31 U	<0.31 U	<0.33 U	<0.32 U	<0.33 U	<0.31 U	<0.31 U	<0.32 U	--	0.0061 J	0.0049 J	0.0052 J
Acenaphthene	µg/L	NS	**NS**	<0.46 U	<0.58 U	<0.60 U	<0.58 U	<0.33 U	<0.34 U	<0.33 U	<0.33 U	<0.33 U	<0.35 U	<0.34 U	<0.35 U	<0.33 U	<0.33 U	<0.34 U	<0.25 U	0.016 J	<0.0058 U	0.011 J
Acenaphthylene	µg/L	NS	**NS**	<0.21 U	<0.25 U	<0.26 U	<0.25 U	<0.69 U	<0.70 U	<0.69 U	<0.69 U	<0.7 U	<0.73 U	<0.7 U	<0.73 U	<0.69 U	<0.69 U	<0.7 U	<0.22 U	<0.0048 U	<0.0048 U	<0.0052 U
Anthracene	µg/L	600	**3,000**	<0.084 U	<0.034 U	<0.035 U	<0.034 U	<0.038 U	<0.039 U	<0.038 U	<0.038 U	<0.038 U	<0.04 U	<0.039 U	<0.04 U	<0.038 U	<0.038 U	<0.039 U	<0.27 U	<0.0040 U	<0.010 U	<0.011 U
Benzo(a)anthracene	µg/L	NS	**NS**	<0.14 U	<0.056 U	<0.058 U	<0.056 U	<0.044 U	<0.045 U	<0.044 U	<0.044 U	<0.044 U	<0.046 U	<0.045 U	<0.047 U	<0.044 U	<0.044 U	<0.045 U	<0.046 U	<0.0050 U	<0.0073 U	<0.0079 U
Benzo(a)pyrene	µg/L	0.02	**0.2**	<0.014 U	<0.033 U	<0.034 U	<0.033 U	<0.032 U	<0.033 U	<0.032 U	<0.032 U	<0.032 U	<0.034 U	<0.033 U	<0.034 U	<0.032 U	<0.032 U	<0.033 U	<0.08 U	<0.0043 U	<0.010 U	<0.011 U
Benzo(b)fluoranthene	µg/L	0.02	**0.2**	<0.042 U	<0.053 U	<0.055 U	<0.053 U	<0.098 U	<0.100 U	<0.098 U	<0.098 U	<0.099 U	<0.1 U	<0.1 U	<0.1 U	<0.098 U	<0.098 U	<0.1 U	<0.065 U	<0.0052 U	<0.0055 U	<0.0060 U
Benzo(g,h,i)perylene	µg/L	NS	**NS**	<0.16 U	<0.096 U	<0.099 U	<0.096 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U	<0.13 U	<0.12 U	<0.13 U	<0.12 U	<0.12 U	<0.12 U	<0.3 U	0.012 J	<0.0065 U	<0.0071 U
Benzo(k)fluoranthene	µg/L	NS	**NS**	<0.026 U	<0.045 U	<0.046 U	<0.045 U	<0.049 U	<0.050 U	<0.049 U	<0.049 U	<0.049 U	<0.052 U	<0.05 U	<0.052 U	<0.049 U	<0.049 U	<0.05 U	<0.051 U	<0.0055 U	<0.0073 U	<0.0079 U
Chrysene	µg/L	0.02	**0.2**	<0.033 U	<0.049 U	<0.050 U	<0.049 U	<0.041 U	<0.042 U	<0.041 U	<0.041 U	<0.041 U	<0.043 U	<0.042 U	<0.044 U	<0.041 U	<0.041 U	<0.042 U	<0.055 U	<0.0042 U	<0.013 U	<0.014 U
Dibenz(a,h)anthracene	µg/L	NS	**NS**	<0.080 U	<0.064 U	<0.066 U	<0.064 U	<0.13 U	<0.13 U	<0.13 U	<0.13 U	<0.13 U	<0.14 U	<0.13 U	<0.14 U	<0.13 U	<0.13 U	<0.13 U	<0.041 U	<0.0055 U	<0.0096 U	<0.011 U
Fluoranthene	µg/L	80	**400**	<0.12 U	<0.024 U	<0.025 U	<0.024 U	<0.081 U	<0.083 U	<0.081 U	<0.081 U	<0.082 U	<0.085 U	<0.083 U	<0.086 U	<0.081 U	<0.081 U	<0.083 U	<0.37 U	0.011 J	<0.010 U	<0.011 U
Fluorene	µg/L	80	**400**	<0.15 U	<0.064 U	<0.066 U	<0.064 U	<0.062 U	<0.063 U	<0.062 U	<0.062 U	<0.063 U	<0.065 U	<0.063 U	<0.066 U	<0.062 U	<0.062 U	<0.063 U	<0.2 U	0.0099 J	<0.0077 U	<0.0084 U
Indeno(1,2,3-cd)pyrene	µg/L	NS	**NS**	<0.032 U	<0.031 U	<0.032 U	<0.031 U	<0.062 U	<0.063 U	<0.062 U	<0.062 U	<0.063 U	<0.065 U	<0.063 U	<0.066 U	<0.062 U	<0.062 U	<0.063 U	<0.06 U	<0.0035 U	<0.017 U	<0.019 U
Naphthalene	µg/L	10	**100**	<0.61 U	<0.26 U	<0.27 U	<0.26 U	<0.4 U	<0.41 U	<0.4 U	0.46 J	<0.4 U	<0.42 U	0.48 J	<0.43 U	0.86 J	<0.4 U	<0.41 U	<0.25 U	0.022 J	<0.018 U	0.037 J
Phenanthrene	µg/L	NS	**NS**	<0.021 U	<0.02 U	<0.021 U	<0.02 U	<0.03 U	<0.031 U	<0.03 U	<0.03 U	<0.03 U	<0.032 U	<0.031 U	<0.032 U	<0.03 U	<0.03 U	<0.031 U	<0.24 U	0.015 J	<0.013 U	<0.015 U
Pyrene	µg/L	50	**250**	<0.013 U	<0.04 U	<0.041 U	<0.04 U	<0.044 U	<0.045 U	<0.044 U	<0.044 U	<0.044 U	<0.046 U	<0.045 U	<0.047 U	<0.044 U	<0.044 U	<0.045 U	<0.34 U	0.019 JB	0.011 J	<0.0081 U
Total PAH (16) [5]	µg/L	NS	**NS**	<0.61 U	<0.58 U	<0.6 U	<0.58 U	<0.69 U	<0.7 U	<0.69 U	0.46	<0.7 U	<0.73 U	0.48	<0.73 U	0.86	<0.69 U	<0.7 U	<0.37	0.1049	0.011	0.048
Petroleum Hydrocarbons																						
Diesel Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals																						
Iron, Total	µg/L	150	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**2,700**	--	--	--	--
Cyanide																						
Cyanide DISS (amenable)	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide DISS, total	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide, Amenable	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide, Total	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lab MNA Parameters																						
Carbon Dioxide	µg/L	NS	**NS**	370,000	400,000	280,000	--	340,000	--	350,000	310,000	360,000	290,000	340,000	320,000	--	330,000	--	320,000	--	--	--
Carbon monoxide	mg/L	10,000	**10,000**	<0.4 U	<0.4 U	<0.40 U	--	--	--	--	--	--	<1 U	<1 U	<1 U	--	<1 U	--	--	--	--	--
Ethane	µg/L	NS	**NS**	1.900	2.900	1.500	--	2.100	--	5.300	2	2.2	1.6	2.5	1.9	2.5	1.4	--	3.8	--	--	--
Ethene	µg/L	NS	**NS**	0.022	0.013	0.045	--	<0.0050 U	--	<0.005 U	<0.025 U	<0.025 U	0.031	<0.025 U	<0.025 U	0.12	<0.025 U	--	<0.13 U	--	--	--
Iron, Dissolved	µg/L	150	**300**	--	**29,000**	**15,000**	--	**24,000**	--	**29,000**	**32,000**	**25,000**	**28,000**	**24,000**	**28,000**	**27,000**	**30,000**	--	**34,000**	**35,900**	--	**33,000**
Manganese, Dissolved	µg/L	60	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**721**	--	**699**
Methane	µg/L	NS	**NS**	15,000	18,000	16,000	--	15,000	--	25,000	18,000	22,000	14,000	21,000	17,000	21,000	18,000	--	13,000	14,300	--	18,900
Nitrogen, NO2 + NO3, Total	µg/L	2,000	**10,000**	<500 U	120	<24 U	--	240	--	<24 U	<24 U	150 J	<100 U	550	<100 U	<0.5 U	<100 U	<100 U	<45 U	<95 U	--	<59 U
Nitrogen	µg/L	NS	**NS**	4,200	2,500	4,200	--	--	--	--	--	--	4,000	2,500	4,600	--	--	--	9,000	--	--	--
Oxygen	µg/L	NS	**NS**	560	200	290	--	--	--	--	--	--	<500 U	<500 U	1,300	--	1,100	--	1,500	--	--	--
Sulfate, Total	µg/L	125,000	**250,000**	<2,000 U	<2,000 U	13,000	--	28,000	--	25,000	10,000 J	<10,000 U	13,000 J	4,470 B,	250 J	<1,500 U	1,500 J	<1,500 U	6,300 B	<10,000 U	--	<2,200 U
Field Parameters																						
Dissolved oxygen	mg/L	NS	**NS**	--	0.19	0.13	0.55	0.47	0.24	0.13	0.19	0.33	0.17	0.45	0.07	0.29	0.36	0.39	--	0.14	0.17	0.12
Groundwater, depth to	feet	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.73	8.42	7.31
Oxidation Reduction Potential	millivolts	NS	**NS**	--	-143.2	-106.2	-154.4	-110.9	-104.6	-170.5	-104.3	-148	-128.9	-184	-163.8	-99	82.1	-133.3	--	-159	-106	-119.2
pH, Field	s.u.	NS	**NS**	--	6.72	6.76	6.8	6.63	6.55	6.76	6.38	6.79	6.75	6.34	6.55	6.72	6.75	6.42	--	6.84	6.76	6.88
Specific Conductance, Field	µS/cm	NS	**NS**	--	1,535	1,791	1,618	1,811	--	1,694	1,923	1,920	1,782	1,848	1,726	1,848	1,652	2,405	--	2.17	2,030	2041.1
Temperature, Water	Deg C	NS	**NS**	--	13.31	13.22	13.33	13.16	13.24	13.29	12.69	13.3	13.27	13.36	13.3	13.38	13.14	13.27	--	15.54	11.10	9.56
Turbidity, Quantitative	NTUs	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	47.8	6.8	2.94

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:				W-27S																				
Depth Level Unit:				Upper Shallow																				
Sample Date (m/d/yyyy):	Units	WI GW PAL	WI GW ES	12/20/2000	6/18/2002	11/24/2003	3/10/2004	6/7/2004	9/8/2004	12/8/2004	3/18/2005	9/20/2005	3/22/2006	9/26/2006	3/26/2007	9/18/2007	3/26/2008	9/2/2008	3/24/2009	8/25/2015	8/22/2016	2/27/2017	12/17/2019
BTEX																								
Benzene	µg/L	0.5	**5**	<0.1 U	0.27	<0.2 U	<0.2 U	<0.2 U	0.3	0.4	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	0.4 J	<0.2 U	<0.2 U	<0.074 U	<0.50 U	<0.50 U	<0.25 U
Ethylbenzene	µg/L	140	**700**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.13 U	<0.50 U	<0.50 U	<0.22 U
Toluene	µg/L	160	**800**	<0.1 U	<0.1 U	0.25	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.5 U	<0.11 U	<0.50 U	<0.50 U	<0.17 U
Xylene, o	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.50 U	<0.50 U	<0.26 U
Xylenes, m + p	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.0 U	<1.0 U	<0.47 U
Xylenes, Total [1]	µg/L	400	**2,000**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.068 U	<1.5 U	<1.5 U	<0.73 U
Total BTEX [2]	µg/L	NS	**NS**	<0.7 U	0.27	0.25	<1.4 U	<1.4 U	0.3	0.4	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	0.4	<1.7 U	<1.7 U	<0.382 U	<3 U	<3 U	<1.37 U
VOCs																								
1,1,1,2-Tetrachloroethane	µg/L	7	**70**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.18 U	<0.18 U	<0.27 U
1,1,1-Trichloroethane	µg/L	40	**200**	<0.25 U	<0.25 U	1.2	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.2 U	<0.50 U	<0.50 U	<0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.02	**0.2**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.23 U	<0.25 U	<0.25 U	<0.28 U
1,1,2-Trichloroethane	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.28 U	<0.20 U	<0.20 U	<0.55 U
1,1-Dichloroethane	µg/L	85	**850**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.19 U	<0.24 U	<0.24 U	<0.27 U
1,1-Dichloroethene	µg/L	0.7	**7**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.31 U	<0.41 U	<0.41 U	<0.24 U
1,1-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.34 U	<0.44 U	<0.44 U	<0.54 U
1,2,3-Trichlorobenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.24 U	<2.1 U	<2.1 U	<0.63 U
1,2,3-Trichloropropane	µg/L	12	**60**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.45 U	<0.50 U	<0.50 U	<0.59 U
1,2,4-Trichlorobenzene	µg/L	14	**70**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.31 U	<2.2 U	<2.2 U	<0.95 U
1,2-Dibromo-3-chloropropane	µg/L	0.02	**0.2**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.87 U	<2.2 U	<2.2 U	<1.8 U
1,2-Dibromoethane	µg/L	0.005	**0.05**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.36 U	<0.18 U	<0.18 U	<0.83 U
1,2-Dichlorobenzene	µg/L	60	**600**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.27 U	<0.50 U	<0.50 U	<0.71 U
1,2-Dichloroethane	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.28 U	<0.17 U	<0.17 U	<0.28 U
1,2-Dichloropropane	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.2 U	<0.23 U	<0.23 U	<0.28 U
1,2,4-Trimethylbenzene	µg/L	NS	**NS**	<0.1 U	<0.1 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.14 U	<0.50 U	<0.50 U	<0.84 U
1,3,5-Trimethylbenzene	µg/L	NS	**NS**	<0.1 U	<0.1 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.18 U	<0.50 U	<0.50 U	<0.87 U
Trimethylbenzenes, Total [3]	µg/L	96	**480**	<0.2 U	<0.2 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.32 U	<1 U	<1 U	<1.71 U
1,3-Dichlorobenzene	µg/L	120	**600**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.15 U	<0.50 U	<0.50 U	<0.63 U
1,3-Dichloropropane	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.13 U	<0.50 U	<0.50 U	<0.83 U
1,4-Dichlorobenzene	µg/L	15	**75**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.5 U	<0.15 U	<0.50 U	<0.50 U	<0.94 U
2,2-Dichloropropane	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.32 U	<0.48 U	<0.48 U	<2.3 U
2,3-Dichloropropene	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	--	--	--
2-Chlorotoluene	µg/L	NS	**NS**	<0.1 U	<0.1 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.21 U	<0.50 U	<0.50 U	<0.93 U
4-Chlorotoluene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.21 U	<0.76 U
4-Isopropyltoluene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.17 U	<0.50 U	<0.50 U	<0.80 U
Bromobenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.25 U	<0.23 U	<0.23 U	<0.24 U
Bromochloromethane	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.4 U	<0.34 U	<0.34 U	<0.36 U
Bromodichloromethane	µg/L	0.06	**0.6**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.17 U	<0.50 U	<0.50 U	<0.36 U
Bromoform	µg/L	0.44	**4.4**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.28 U	<0.50 U	<0.50 U	<4.0 U
Bromomethane	µg/L	1	**10**	<0.25 U	0.31	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.31 U	<2.4 U	<2.4 U	<0.97 U
Carbon Tetrachloride	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.26 U	<0.50 U	<0.50 U	<0.17 U
Chlorobenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.14 U	<0.50 U	<0.50 U	<0.71 U
Chloroethane	µg/L	80	**400**	<0.25 U	<0.25 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<0.34 U	<0.37 U	<0.37 U	<1.3 U
Chloroform	µg/L	0.6	**6**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<2.5 U	<2.5 U	<1.3 U
Chloromethane	µg/L	3	**30**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.3 U	<0.3 U	<0.18 U	<0.50 U	<0.50 U	<2.2 U
cis-1,2-Dichloroethene	µg/L	7	**70**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.12 U	<0.26 U	<0.26 U	<0.27 U
cis-1,3-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.18 U	<0.50 U	<0.50 U	<3.6 U
trans-1,3-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.23 U	<0.23 U	<4.4 U
1,3-Dichloropropene [4]	µg/L	0.04	**0.4**	<0.5 U	<0.5 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.39 U	<0.73 U	<0.73 U	<8 U
Dibromochloromethane	µg/L	6	**60**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.32 U	<0.50 U	<0.50 U	<2.6 U
Dibromomethane	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.33 U	<0.43 U	<0.43 U	<0.94 U
Freon 12	µg/L	200	**1,000**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.2 U	<0.22 U	<0.22 U	<0.50 U
Hexachlorobutadiene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.26 U	<2.1 U	<2.1 U	<1.2 U
Isopropyl ether	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.15 U	<0.50 U	<0.50 U	<1.9 U
Isopropylbenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	0.39	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.14 U	<0.14 U	<0.14 U	<0.39 U
Methylene chloride (DCM)	µg/L	0.5	**5**	<0.25 U	<0.25 U	<1 U	<1 U	<1 U	1.2	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<0.68 U	<0.23 U	<0.23 U	<0.58 U
Methyl-tert-butyl-ether	µg/L	12	**60**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.24 U	<0.17 U	<0.17 U	<1.2 U
Naphthalene	µg/L	10	**100**	<0.25 U	0.42	<0.25 U	<0.25 U	<0.25 U	<0.25 U	0.28	<0.25 U	0.38 J	<0.25 U	<0.25 U	<0.25 U	<0.25 U	0.68 J	<0.25 U	<0.25 U	<0.16 U	<2.5 U	<2.5 U	<1.2 U
n-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.13 U	<0.50 U	<0.50 U	<0.71 U
n-Propylbenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.13 U	<0.50 U	<0.50 U	<0.81 U
sec-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.15 U	<2.2 U	<2.2 U	<0.85 U
Styrene	µg/L	10	**100**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.5 U	<0.1 U	<0.50 U	<0.50 U	<0.47 U
tert-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.14 U	<0.18 U	<0.18 U	<0.30 U
Tetrachloroethene	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.17 U	<0.50 U	<0.50 U	<0.33 U
trans-1,2-Dichloroethene	µg/L	20	**100**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.25 U	<0.26 U	<0.26 U	<1.1 U
Trichloroethene	µg/L	0.5	**5**	<0.25 U	<0.25 U	0.38	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.19 U	<0.33 U	<0.33 U	<0.26 U
Trichlorofluoromethane	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.18 U	<0.18 U	<0.18 U	<0.21 U
Vinyl Chloride	µg/L	0.02	**0.2**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.1 U	<0.18 U	<0.18 U	<0.17 U

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:	Units	WI GW PAL	WI GW ES	W-27S																			
Depth Level Unit:				Upper Shallow																			
Sample Date (m/d/yyyy):				12/20/2000	6/18/2002	11/24/2003	3/10/2004	6/7/2004	9/8/2004	12/8/2004	3/18/2005	9/20/2005	3/22/2006	9/26/2006	3/26/2007	9/18/2007	3/26/2008	9/2/2008	3/24/2009	8/25/2015	8/22/2016	2/27/2017	12/17/2019
PAHs																							
1-Methylnaphthalene	µg/L	NS	**NS**	<0.42 U	<0.54 U	30	<0.45 U	<0.44 U	<0.32 U	<0.32 U	<0.32 U	<0.32 U	<0.33 U	<0.33 U	<0.33 U	<0.34 U	<0.32 U	<0.32 U	<0.33 U	--	0.0034 J	<0.0058 U	<0.0066 U
2-Methylnaphthalene	µg/L	NS	**NS**	<0.64 U	<0.51 U	16	<0.31 U	<0.3 U	<0.31 U	<0.31 U	<0.31 U	<0.31 U	<0.32 U	<0.32 U	<0.32 U	<0.33 U	<0.31 U	<0.31 U	<0.32 U	--	0.0053 J	<0.0049 U	<0.0054 U
Acenaphthene	µg/L	NS	**NS**	<0.23 U	<0.46 U	5.6	<0.60 U	<0.58 U	<0.33 U	<0.33 U	<0.33 U	<0.33 U	<0.34 U	<0.34 U	<0.34 U	<0.35 U	<0.33 U	<0.33 U	<0.34 U	<0.24 U	<0.0048 U	0.0060 J	0.027 J
Acenaphthylene	µg/L	NS	**NS**	<0.58 U	<0.21 U	<0.25 U	<0.26 U	<0.25 U	<0.69 U	<0.70 U	<0.69 U	<0.69 U	<0.7 U	<0.71 U	<0.72 U	<0.73 U	<0.69 U	<0.69 U	<0.7 U	<0.21 U	0.0076 J	0.015 J	<0.0055 U
Anthracene	µg/L	600	**3,000**	0.085	<0.083 U	0.59	<0.035 U	<0.034 U	<0.038 U	<0.038 U	<0.038 U	<0.038 U	<0.039 U	<0.039 U	<0.04 U	<0.04 U	<0.038 U	<0.038 U	<0.039 U	<0.26 U	0.013 J	0.017 J	<0.012 U
Benzo(a)anthracene	µg/L	NS	**NS**	0.052	<0.14 U	0.21	<0.058 U	<0.056 U	<0.044 U	<0.044 U	<0.044 U	<0.044 U	<0.045 U	<0.045 U	<0.046 U	<0.047 U	<0.044 U	<0.044 U	<0.045 U	<0.045 U	<0.0050 U	<0.0075 U	<0.0084 U
Benzo(a)pyrene	µg/L	0.02	**0.2**	<0.027 U	<0.014 U	<0.033 U	<0.034 U	<0.033 U	<0.032 U	<0.032 U	<0.032 U	<0.032 U	<0.033 U	<0.033 U	<0.033 U	<0.034 U	<0.032 U	<0.032 U	<0.033 U	<0.078 U	<0.0043 U	<0.010 U	<0.012 U
Benzo(b)fluoranthene	µg/L	0.02	**0.2**	<0.046 U	<0.042 U	<0.053 U	<0.055 U	<0.053 U	<0.098 U	<0.099 U	<0.098 U	<0.098 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.098 U	<0.098 U	<0.1 U	<0.064 U	<0.0052 U	<0.0057 U	<0.0064 U
Benzo(g,h,i)perylene	µg/L	NS	**NS**	<0.11 U	<0.16 U	<0.096 U	<0.099 U	<0.096 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U	<0.13 U	<0.12 U	<0.12 U	<0.12 U	<0.3 U	0.012 J	<0.0067 U	<0.0075 U
Benzo(k)fluoranthene	µg/L	NS	**NS**	<0.031 U	<0.026 U	<0.045 U	<0.046 U	<0.045 U	<0.049 U	<0.049 U	<0.049 U	<0.049 U	<0.05 U	<0.051 U	<0.051 U	<0.052 U	<0.049 U	<0.049 U	<0.05 U	<0.051 U	<0.0055 U	<0.0075 U	<0.0084 U
Chrysene	µg/L	0.02	**0.2**	<0.013 U	<0.033 U	<0.049 U	<0.050 U	<0.049 U	<0.041 U	<0.041 U	<0.041 U	<0.041 U	<0.042 U	<0.042 U	<0.043 U	<0.044 U	<0.041 U	<0.041 U	<0.042 U	<0.054 U	<0.0041 U	<0.013 U	<0.014 U
Dibenz(a,h)anthracene	µg/L	NS	**NS**	<0.17 U	<0.079 U	<0.064 U	<0.066 U	<0.064 U	<0.13 U	<0.13 U	<0.13 U	<0.13 U	<0.13 U	<0.13 U	<0.14 U	<0.14 U	<0.13 U	<0.13 U	<0.13 U	<0.04 U	<0.0054 U	<0.0099 U	0.013 J
Fluoranthene	µg/L	80	**400**	0.13	0.14	1.4	<0.025 U	<0.024 U	<0.081 U	<0.082 U	<0.081 U	<0.081 U	<0.083 U	<0.084 U	<0.084 U	<0.086 U	0.1 J	<0.081 U	<0.083 U	<0.36 U	0.011 J	<0.011 U	<0.012 U
Fluorene	µg/L	80	**400**	<0.031 U	<0.15 U	3.6	<0.066 U	<0.064 U	<0.062 U	<0.063 U	<0.062 U	<0.062 U	<0.063 U	<0.064 U	<0.065 U	<0.066 U	<0.062 U	<0.062 U	<0.063 U	<0.19 U	<0.0039 U	<0.0079 U	<0.0089 U
Indeno(1,2,3-cd)pyrene	µg/L	NS	**NS**	<0.088 U	<0.032 U	<0.031 U	<0.032 U	<0.031 U	<0.062 U	<0.063 U	<0.062 U	<0.062 U	<0.063 U	<0.064 U	<0.065 U	<0.066 U	<0.062 U	<0.062 U	<0.063 U	<0.059 U	<0.0035 U	<0.017 U	<0.020 U
Naphthalene	µg/L	10	**100**	<0.23 U	<0.6 U	30	<0.27 U	<0.26 U	<0.4 U	<0.4 U	<0.4 U	0.45 J	<0.41 U	<0.41 U	<0.42 U	<0.43 U	1.1 J	<0.4 U	<0.41 U	<0.24 U	0.0094 J	<0.018 U	<0.020 U
Phenanthrene	µg/L	NS	**NS**	0.17	0.065	1.9	<0.021 U	<0.02 U	<0.03 U	<0.03 U	<0.03 U	<0.03 U	<0.031 U	<0.031 U	<0.031 U	<0.032 U	0.081 J	<0.03 U	<0.031 U	<0.24 U	0.011 J	<0.014 U	<0.015 U
Pyrene	µg/L	50	**250**	0.081	0.074	0.12	<0.041 U	<0.04 U	<0.044 U	<0.044 U	<0.044 U	<0.044 U	<0.045 U	<0.045 U	<0.046 U	<0.047 U	<0.044 U	<0.044 U	<0.045 U	<0.34 U	0.019 JB	0.012 J	<0.0085 U
Total PAH (16) [5]	µg/L	NS	**NS**	0.518	0.279	43.42	<0.6 U	<0.58 U	<0.69 U	<0.7 U	<0.69 U	0.45	<0.7 U	<0.71 U	<0.72 U	<0.73 U	1.281	<0.69 U	<0.7 U	<0.36	0.083	0.05	0.04
Petroleum Hydrocarbons																							
Diesel Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals																							
Iron, Total	µg/L	150	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**310**	--	--	--	--
Cyanide																							
Cyanide DISS (amenable)	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide DISS, total	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide, Amenable	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide, Total	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lab MNA Parameters																							
Carbon Dioxide	µg/L	NS	**NS**	--	160,000	180,000	120,000	--	320,000	--	120,000	130,000	140,000	160,000	140,000	150,000	--	140,000	360,000	110,000	--	--	--
Carbon monoxide	mg/L	10,000	**10,000**	--	<0.4 U	<0.4 U	<0.40 U	--	--	--	--	--	--	<1 U	<1 U	<1 U	--	<1 U	--	--	--	--	--
Ethane	µg/L	NS	**NS**	--	0.018	0.045	0.016	--	1.300	--	0.290	0.053	0.032	0.099	<0.025 U	<0.025 U	0.025	<0.025 U	<1.400 U	<0.14 U	--	--	--
Ethene	µg/L	NS	**NS**	--	<0.005 U	0.0052	0.028	--	<0.0050 U	--	<0.005 U	<0.025 U	0.028	0.034	<0.025 U	0.3	0.025	<0.025 U	<0.025 U	<0.13 U	--	--	--
Iron, Dissolved	µg/L	150	**300**	--	--	**4,200**	<42 U	--	**28,000**	--	<42 U	**1,200**	<42 U	**1,900**	<42 U	<42 U	<16 U	**1,100**	--	<100 U	57.8 J	--	**12,400**
Manganese, Dissolved	µg/L	60	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**547**	--	**755**
Methane	µg/L	NS	**NS**	--	22	4,400	1.8	--	13,000	--	440	6,700	1,100	9,600	24	2.6	33	69	18,000	2.2	14.2	--	10,400
Nitrogen, NO2 + NO3, Total	µg/L	2,000	**10,000**	1,400	<500 U	1,600	**25,000**	--	110	--	**24,000**	2,300	8,100	4,300	**21,000**	**18,000**	**10,000**	<100 U	6,700	9,200 B	4,300	--	300
Nitrogen	µg/L	NS	**NS**	--	16,000	17,000	19,000	--	--	--	--	--	--	8,500	29,000	15,000	--	--	19,000	21,000	--	--	--
Oxygen	µg/L	NS	**NS**	--	4,300	700	1,200	--	--	--	--	--	--	1,600	4,000	1,300	--	3,700	3,600	5,300	--	--	--
Sulfate, Total	µg/L	125,000	**250,000**	**490,000**	**400,000**	**260,000**	**370,000**	--	31,000	--	**610,000**	**330,000**	**500,000**	**360,000**	**463,000**	**350,000**	**390,000**	240,000	**360,000**	**400,000** B	**266,000**	--	165,000
Field Parameters																							
Dissolved oxygen	mg/L	NS	**NS**	--	--	1.5	0.28	0.57	0.2	0.65	0.19	0.23	0.14	0.13	0.72	0.13	0.39	0.17	2.71	--	0.26	0.18	0.08
Groundwater, depth to	feet	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.33	6.81	6.65
Oxidation Reduction Potential	millivolts	NS	**NS**	--	--	-135.8	99.8	102.8	-133.6	-67.1	-0.3	-25.7	31.5	-114	33.6	5.1	-49.5	13	16	--	45	6	-113.5
pH, Field	s.u.	NS	**NS**	--	--	6.84	6.94	6.91	7.63	5.72	6.95	6.58	6.78	6.53	6.67	6.73	6.92	6.6	6.65	--	7.15	6.78	6.97
Specific Conductance, Field	µS/cm	NS	**NS**	--	--	12,995	11,339	12,756	1,788	11,400	16,773	12,445	2,044	1,567	17,190	15,787	14,904	1,478	17,547	--	17.8	17,300	17059.4
Temperature, Water	Deg C	NS	**NS**	--	--	15.29	9.96	11.12	13.09	14.79	11.34	14.49	11.61	14.94	8.87	15.7	10.76	14.88	8.27	--	18.21	10.02	12.23
Turbidity, Quantitative	NTUs	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.9	27.9	56.42

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:	Units	WI GW PAL	WI GW ES	W-41D																							W-41DL		
Depth Level Unit:				Clay																							Lower Shallow		
Sample Date (m/d/yyyy):				6/18/2002	11/21/2003	3/9/2004	6/9/2004	9/8/2004	12/9/2004	3/18/2005	9/21/2005	3/20/2006	9/26/2006	3/27/2007	9/18/2007	3/25/2008	9/4/2008	3/24/2009	8/26/2015	8/22/2016	2/27/2017	12/17/2019	5/11/2020	12/14/2020	2/12/2020	5/11/2020	12/14/2020
BTEX																													
Benzene	µg/L	0.5	**5**	<0.1 U	0.31	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	1.1	**35**	<0.2 U	<0.074 U	<0.50 U	<0.50 U	<0.25 U	1.4	<0.25 U	<0.25 U	<0.25 U	0.33 J
Ethylbenzene	µg/L	140	**700**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	1.2 J	<0.5 U	<0.13 U	<0.50 U	<0.50 U	<0.22 U	1.4	<0.32 U	<0.22 U	<0.32 U	<0.32 U
Toluene	µg/L	160	**800**	0.36	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	0.67 J	<0.5 U	<0.11 U	<0.50 U	<0.50 U	<0.17 U	5.8	<0.27 U	<0.17 U	<0.27 U	<0.27 U
Xylene, o	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.50 U	<0.50 U	<0.26 U	3.1	<0.26 U	<0.26 U	<0.26 U	<0.26 U
Xylenes, m + p	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.0 U	<1.0 U	<0.47 U	5.6	<0.47 U	<0.47 U	<0.47 U	0.62 J
Xylenes, Total [1]	µg/L	400	**2,000**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	3.8	<0.5 U	<0.068 U	<1.5 U	<1.5 U	<0.73 U	8.7	<0.73 U	<0.73 U	<0.73 U	0.62
Total BTEX [2]	µg/L	NS	**NS**	0.36	0.31	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	1.1	40.67	<1.7 U	<0.382 U	<3 U	<3 U	<1.37 U	17.3	<1.57 U	<1.37 U	<1.57 U	0.95
VOCs																													
1,1,1,2-Tetrachloroethane	µg/L	7	**70**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.18 U	<0.18 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U
1,1,1-Trichloroethane	µg/L	40	**200**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.2 U	<0.50 U	<0.50 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.02	**0.2**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.23 U	<0.25 U	<0.25 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U
1,1,2-Trichloroethane	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.28 U	<0.20 U	<0.20 U	<0.55 U	<0.55 U	<0.55 U	<0.55 U	<0.55 U	<0.55 U
1,1-Dichloroethane	µg/L	85	**850**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.19 U	<0.24 U	<0.24 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U
1,1-Dichloroethene	µg/L	0.7	**7**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.31 U	<0.41 U	<0.41 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U
1,1-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.34 U	<0.44 U	<0.44 U	<0.54 U	<0.54 U	<0.54 U	<0.54 U	<0.54 U	<0.54 U
1,2,3-Trichlorobenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.24 U	<2.1 U	<2.1 U	<0.63 U	<2.2 U	<2.2 U	<0.63 U	<2.2 U	<2.2 U
1,2,3-Trichloropropane	µg/L	12	**60**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.45 U	<0.50 U	<0.50 U	<0.59 U	<0.59 U	<0.59 U	<0.59 U	<0.59 U	<0.59 U
1,2,4-Trichlorobenzene	µg/L	14	**70**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.31 U	<2.2 U	<2.2 U	<0.95 U	<0.95 U	<0.95 U	<0.95 U	<0.95 U	<0.95 U
1,2-Dibromo-3-chloropropane	µg/L	0.02	**0.2**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.87 U	<2.2 U	<2.2 U	<1.8 U	<1.8 U	<1.8 U	<1.8 U	<1.8 U	<1.8 U
1,2-Dibromoethane	µg/L	0.005	**0.05**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.36 U	<0.18 U	<0.18 U	<0.83 U	<0.83 U	<0.83 U	<0.83 U	<0.83 U	<0.83 U
1,2-Dichlorobenzene	µg/L	60	**600**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.27 U	<0.50 U	<0.50 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U
1,2-Dichloroethane	µg/L	0.5	**5**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.28 U	<0.17 U	<0.17 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U
1,2-Dichloropropane	µg/L	0.5	**5**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.2 U	<0.23 U	<0.23 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U
1,2,4-Trimethylbenzene	µg/L	NS	**NS**	<0.1 U	<0.2 U	<0.2 U	0.4	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	0.79	<0.2 U	<0.14 U	<0.50 U	<0.50 U	<0.84 U	7.4	<0.84 U	<0.84 U	<0.84 U	<0.84 U
1,3,5-Trimethylbenzene	µg/L	NS	**NS**	<0.1 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	1.4	<0.2 U	<0.18 U	<0.50 U	<0.50 U	<0.87 U	1.8 J	<0.87 U	<0.87 U	<0.87 U	<0.87 U
Trimethylbenzenes, Total [3]	µg/L	96	**480**	<0.2 U	<0.4 U	<0.4 U	0.4	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	2.19	<0.4 U	<0.32 U	<1 U	<1 U	<1.71 U	9.2	<1.71 U	<1.71 U	<1.71 U	<1.71 U
1,3-Dichlorobenzene	µg/L	120	**600**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.15 U	<0.50 U	<0.50 U	<0.63 U	<0.63 U	<0.63 U	<0.63 U	<0.63 U	<0.63 U
1,3-Dichloropropane	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.13 U	<0.50 U	<0.50 U	<0.83 U	<0.83 U	<0.83 U	<0.83 U	<0.83 U	<0.83 U
1,4-Dichlorobenzene	µg/L	15	**75**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.5 U	<0.15 U	<0.50 U	<0.50 U	<0.94 U	<0.94 U	<0.94 U	<0.94 U	<0.94 U	<0.94 U
2,2-Dichloropropane	µg/L	NS	**NS**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.32 U	<0.48 U	<0.48 U	<2.3 U	<2.3 U	<2.3 U	<2.3 U	<2.3 U	<2.3 U
2,3-Dichloropropene	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	--	--	--	--	--
2-Chlorotoluene	µg/L	NS	**NS**	<0.1 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.21 U	<0.50 U	<0.50 U	<0.93 U	<0.93 U	<0.93 U	<0.93 U	<0.93 U	<0.93 U
4-Chlorotoluene	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.21 U	<0.76 U	<0.76 U	<0.76 U	<0.76 U	<0.76 U	<0.76 U
4-Isopropyltoluene	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	0.31 J	<0.2 U	<0.17 U	<0.50 U	<0.50 U	<0.80 U	<0.80 U	<0.80 U	<0.80 U	<0.80 U	<0.80 U
Bromobenzene	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.25 U	<0.23 U	<0.23 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U
Bromochloromethane	µg/L	NS	**NS**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.4 U	<0.34 U	<0.34 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U
Bromodichloromethane	µg/L	0.06	**0.6**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.17 U	<0.50 U	<0.50 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U
Bromoform	µg/L	0.44	**4.4**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.28 U	<0.50 U	<0.50 U	<4.0 U	<4.0 U	<4.0 U	<4.0 U	<4.0 U	<4.0 U
Bromomethane	µg/L	1	**10**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.31 U	<2.4 U	<2.4 U	<0.97 U	<0.97 U	<0.97 U	<0.97 U	<0.97 U	<0.97 U
Carbon Tetrachloride	µg/L	0.5	**5**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.26 U	<0.50 U	<0.50 U	<0.17 U	<1.1 U	<1.1 U	<0.17 U	<1.1 U	<1.1 U
Chlorobenzene	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.14 U	<0.50 U	<0.50 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U
Chloroethane	µg/L	80	**400**	<0.25 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<0.34 U	<0.37 U	<0.37 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U
Chloroform	µg/L	0.6	**6**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<2.5 U	<2.5 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U
Chloromethane	µg/L	3	**30**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.3 U	<0.3 U	<0.18 U	<0.50 U	<0.50 U	<2.2 U	<2.2 U	<2.2 U	<2.2 U	<2.2 U	<2.2 U
cis-1,2-Dichloroethene	µg/L	7	**70**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.12 U	<0.26 U	<0.26 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U
cis-1,3-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.18 U	<0.50 U	<0.50 U	<3.6 U	<3.6 U	<3.6 U	<3.6 U	<3.6 U	<3.6 U
trans-1,3-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.23 U	<0.23 U	<4.4 U	<4.4 U	<4.4 U	<4.4 U	<4.4 U	<4.4 U
1,3-Dichloropropene [4]	µg/L	0.04	**0.4**	<0.5 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.39 U	<0.73 U	<0.73 U	<8 U	<8 U	<8.0 U	<8 U	<8 U	<8.0 U
Dibromochloromethane	µg/L	6	**60**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.32 U	<0.50 U	<0.50 U	<2.6 U	<2.6 U	<2.6 U	<2.6 U	<2.6 U	<2.6 U
Dibromomethane	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.33 U	<0.43 U	<0.43 U	<0.94 U	<0.94 U	<0.94 U	<0.94 U	<0.94 U	<0.94 U
Freon 12	µg/L	200	**1,000**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.2 U	<0.22 U	<0.22 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Hexachlorobutadiene	µg/L	NS	**NS**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.26 U	<2.1 U	<2.1 U	<1.2 U	<1.5 U	<1.5 U	<1.2 U	<1.5 U	<1.5 U
Isopropyl ether	µg/L	NS	**NS**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.15 U	<0.50 U	<0.50 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U
Isopropylbenzene	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	7.4	<0.2 U	<0.14 U	<0.14 U	<0.14 U	<0.39 U	<1.7 U	<1.7 U	<0.39 U	<1.7 U	<1.7 U
Methylene chloride (DCM)	µg/L	0.5	**5**	<0.25 U	<1 U	<1 U	1	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<0.68 U	<0.23 U	<0.23 U	<0.58 U	<0.58 U	<0.58 U	<0.58 U	<0.58 U	<0.58 U
Methyl-tert-butyl-ether	µg/L	12	**60**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.24 U	<0.17 U	<0.17 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U
Naphthalene	µg/L	10	**100**	1.2	<0.25 U	<0.25 U	0.32	<0.25 U	0.57	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	1.3	9.1	<0.25 U	<0.16 U	<2.5 U	<2.5 U	<1.2 U	5.8	<1.2 U	<1.2 U	<1.2 U
n-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.13 U	<0.50 U	<0.50 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U
n-Propylbenzene	µg/L	NS	**NS**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	4.5	<0.5 U	<0.13 U	<0.50 U	<0.50 U	<0.81 U	<0.81 U	<0.81 U	<0.81 U	<0.81 U	<0.81 U
sec-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.25 U	0.28	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	0.71 J	<0.25 U	<0.15 U	<2.2 U	<2.2 U	<0.85 U	<0.85 U	<0.85 U	<0.85 U	<0.85 U	<0.85 U
Styrene	µg/L	10	**100**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.5 U	<0.1 U	<0.50 U	<0.50 U	<0.47 U	<3.0 U	<3.0 U	<0.47 U	<3.0 U	<3.0 U
tert-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.14 U	<0.18 U	<0.18 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
Tetrachloroethene	µg/L	0.5	**5**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.17 U	<0.50 U	<0.50 U	<0.33 U	<0.33 U	<0.33 U	<0.33 U	<0.33 U	<0.33 U
trans-1,2-Dichloroethene	µg/L	20	**100**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.25 U	<0.26 U	<0.26 U	<1.1 U	<0.46 U	<0.46 U	<1.1 U	<0.46 U	<0.46 U
Trichloroethene	µg/L	0.5	**5**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.19 U	<0.33 U	<0.33 U	<0.26 U	<0.26 U	<0.26 U	<0.26 U	<0.26 U	<0.26 U
Trichlorofluoromethane	µg/L	NS	**NS**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.19 U	<0.18 U	<0.18 U	<0.21 U	<0.21 U	<0.21 U	<0.21 U	<0.21 U	<0.21 U
Vinyl Chloride	µg/L	0.02	**0.2**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.1 U	<0.18 U	<0.18 U	<0.17 U	<0.17 U	<0.17 U	<0.17 U	<0.17 U	<0.17 U

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:				W-41D																						W-41DL		
Depth Level Unit:				Clay																						Lower Shallow		
Sample Date (m/d/yyyy):	Units	WI GW PAL	WI GW ES	6/18/2002	11/21/2003	3/9/2004	6/9/2004	9/8/2004	12/9/2004	3/18/2005	9/21/2005	3/20/2006	9/26/2006	3/27/2007	9/18/2007	3/25/2008	9/4/2008	3/24/2009	8/26/2015	8/22/2016	2/27/2017	12/17/2019	5/11/2020	12/14/2020	2/12/2020	5/11/2020	12/14/2020
PAHs																												
1-Methylnaphthalene	µg/L	NS	**NS**	<0.54 U	<0.44 U	<0.45 U	<0.44 U	<0.32 U	<0.35 U	<0.32 U	<0.32 U	<0.32 U	<0.34 U	<0.33 U	<0.34 U	<0.33 U	<0.32 U	<0.33 U	--	0.029 J	0.0061 J	<0.0063 U	1.3	<0.0061 U	<0.0063 U	<0.0056 U	0.063
2-Methylnaphthalene	µg/L	NS	**NS**	<0.51 U	<0.3 U	<0.31 U	<0.3 U	<0.31 U	<0.34 U	<0.31 U	<0.31 U	<0.31 U	<0.33 U	<0.32 U	<0.33 U	<0.32 U	<0.31 U	<0.32 U	--	0.019 J	0.0057 J	0.0065 J	1.5	<0.0051 U	<0.0052 U	<0.0047 U	0.10
Acenaphthene	µg/L	NS	**NS**	<0.46 U	<0.58 U	<0.59 U	<0.58 U	<0.33 U	<0.36 U	<0.33 U	<0.33 U	<0.33 U	<0.35 U	<0.34 U	<0.35 U	<0.34 U	<0.33 U	<0.34 U	<0.23 U	0.034 J	<0.0060 U	0.012 J	0.018 J	<0.0063 U	<0.0065 U	<0.0058 U	<0.0060 U
Acenaphthylene	µg/L	NS	**NS**	<0.21 U	<0.25 U	<0.26 U	<0.25 U	<0.70 U	<0.76 U	<0.70 U	<0.69 U	<0.7 U	<0.74 U	<0.7 U	<0.73 U	<0.7 U	<0.69 U	<0.7 U	<0.20 U	0.0053 J	0.0077 J	<0.0054 U	0.0080 J	<0.0052 U	<0.0053 U	<0.0047 U	<0.0049 U
Anthracene	µg/L	600	**3,000**	<0.083 U	<0.034 U	<0.035 U	<0.034 U	<0.038 U	<0.042 U	<0.038 U	<0.038 U	<0.038 U	<0.041 U	<0.039 U	<0.04 U	<0.039 U	<0.038 U	<0.039 U	<0.25 U	0.012 J	0.014 J	0.023 J	0.011 J	<0.011 U	<0.011 U	<0.010 U	<0.010 U
Benzo(a)anthracene	µg/L	NS	**NS**	<0.14 U	<0.056 U	<0.057 U	<0.056 U	<0.044 U	<0.048 U	<0.044 U	<0.044 U	<0.044 U	<0.047 U	<0.045 U	<0.046 U	<0.045 U	0.14	<0.045 U	<0.04 U	0.039 J	0.078	0.046	0.042	<0.0079 U	<0.0080 U	<0.0072 U	0.21
Benzo(a)pyrene	µg/L	0.02	**0.2**	<0.014 U	<0.033 U	<0.034 U	<0.033 U	<0.032 U	<0.035 U	<0.032 U	<0.032 U	<0.032 U	<0.034 U	0.038 J	<0.034 U	<0.033 U	0.17	<0.033 U	<0.07 U	0.047 J	0.14	0.084	0.068	<0.011 U	<0.011 U	<0.010 U	0.034 J
Benzo(b)fluoranthene	µg/L	0.02	**0.2**	<0.042 U	<0.053 U	<0.054 U	<0.053 U	<0.099 U	<0.110 U	<0.099 U	<0.098 U	<0.099 U	<0.11 U	<0.1 U	<0.1 U	<0.1 U	0.15 J	<0.1 U	<0.06 U	0.14	**0.40**	0.14	0.14	<0.0060 U	<0.0061 U	<0.0055 U	0.14
Benzo(g,h,i)perylene	µg/L	NS	**NS**	<0.16 U	<0.096 U	<0.098 U	<0.096 U	<0.12 U	<0.13 U	<0.12 U	<0.12 U	<0.12 U	<0.13 U	<0.12 U	<0.13 U	<0.12 U	<0.12 U	<0.12 U	<0.28 U	0.081	0.21	0.093	0.081	<0.0071 U	<0.0072 U	<0.0065 U	0.083
Benzo(k)fluoranthene	µg/L	NS	**NS**	<0.026 U	<0.045 U	<0.046 U	<0.045 U	<0.049 U	<0.054 U	<0.049 U	<0.049 U	<0.049 U	<0.053 U	<0.05 U	<0.052 U	<0.05 U	<0.049 U	<0.05 U	<0.048 U	0.046 J	0.15	0.072	0.065	<0.0079 U	<0.0080 U	<0.0072 U	0.058
Chrysene	µg/L	0.02	**0.2**	<0.033 U	<0.049 U	<0.050 U	<0.049 U	<0.041 U	<0.045 U	<0.041 U	<0.041 U	<0.041 U	<0.044 U	0.075 J	<0.043 U	0.044 J	0.17	<0.042 U	<0.05 U	0.14	**0.31**	0.14	0.13	<0.014 U	<0.014 U	<0.012 U	0.019 J
Dibenz(a,h)anthracene	µg/L	NS	**NS**	<0.079 U	<0.064 U	<0.065 U	<0.064 U	<0.13 U	<0.14 U	<0.13 U	<0.13 U	<0.13 U	<0.14 U	<0.13 U	<0.14 U	<0.13 U	<0.13 U	<0.13 U	<0.04 U	0.012 J	0.035 J	0.013 J	<0.0098 U	<0.010 U	<0.011 U	<0.0095 U	<0.0099 U
Fluoranthene	µg/L	80	**400**	<0.12 U	<0.024 U	<0.024 U	<0.024 U	<0.082 U	<0.089 U	<0.082 U	<0.081 U	<0.082 U	<0.087 U	0.23 J	<0.085 U	0.2 J	0.37	<0.083 U	<0.34 U	0.21	0.38	0.19	0.22	<0.011 U	<0.011 U	<0.010 U	0.26
Fluorene	µg/L	80	**400**	<0.15 U	<0.064 U	<0.065 U	<0.064 U	<0.063 U	<0.068 U	<0.063 U	<0.062 U	<0.063 U	<0.067 U	<0.063 U	<0.065 U	<0.063 U	<0.062 U	<0.063 U	<0.18 U	0.019 J	<0.0078 U	<0.0086 U	0.016 J	<0.0083 U	<0.0085 U	<0.0076 U	<0.0079 U
Indeno(1,2,3-cd)pyrene	µg/L	NS	**NS**	<0.032 U	<0.031 U	<0.032 U	<0.031 U	<0.063 U	<0.068 U	<0.063 U	<0.062 U	<0.063 U	<0.067 U	<0.063 U	<0.065 U	<0.063 U	<0.062 U	<0.063 U	<0.06 U	0.06	0.16	0.064 J	0.053 J	<0.018 U	<0.019 U	<0.017 U	0.060 J
Naphthalene	µg/L	10	**100**	0.77	<0.26 U	<0.27 U	<0.26 U	<0.4 U	<0.44 U	<0.4 U	<0.4 U	<0.4 U	<0.43 U	2.8	<0.42 U	<0.41 U	<0.4 U	<0.41 U	1	0.033 J	<0.018 U	<0.020 U	0.92	<0.019 U	<0.020 U	<0.017 U	0.13
Phenanthrene	µg/L	NS	**NS**	0.11	<0.02 U	<0.02 U	<0.02 U	<0.03 U	<0.033 U	<0.03 U	<0.03 U	<0.03 U	<0.032 U	0.09 J	<0.032 U	0.17	0.18	<0.031 U	<0.23 U	0.13	0.15	0.072 J	0.092	<0.014 U	0.015 J	<0.013 U	0.15
Pyrene	µg/L	50	**250**	0.077	<0.04 U	<0.041 U	<0.04 U	<0.044 U	<0.048 U	<0.044 U	<0.044 U	<0.044 U	<0.047 U	0.08 J	<0.046 U	0.19	0.35	<0.045 U	<0.32 U	0.15 B	0.32	0.21	0.18	<0.0080 U	<0.0081 U	<0.0073 U	0.26
Total PAH (16) [5]	µg/L	NS	**NS**	0.957	<0.58 U	<0.59 U	<0.58 U	<0.7 U	<0.76 U	<0.7 U	<0.69 U	<0.7 U	<0.74 U	3.313	<0.73 U	0.604	1.53	<0.7 U	1	1.1583	2.3547	1.159	2.044	<0.019 U	0.015	<0.017 U	1.404
Petroleum Hydrocarbons																												
Diesel Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals																												
Iron, Total	µg/L	150	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**23,000**	--	--	--	--	--	--	--	--	--
Cyanide																												
Cyanide DISS (amenable)	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide DISS, total	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide, Amenable	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide, Total	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lab MNA Parameters																												
Carbon Dioxide	µg/L	NS	**NS**	280,000	390,000	360,000	--	290,000	--	330,000	170,000	--	250,000	280,000	290,000	--	33,000	350,000	320,000	--	--	--	--	--	--	--	--
Carbon monoxide	mg/L	10,000	**10,000**	<0.4 U	<0.4 U	<0.40 U	--	--	--	--	--	--	<1 U	<1 U	<1 U	--	<1 U	--	--	--	--	--	--	--	--	--	--
Ethane	µg/L	NS	**NS**	4.400	3.300	3.800	--	1.700	--	6.400	3.2	5.3	4	4.6	3.8	4.6	0.2	3.2	3.4	--	--	--	--	--	--	--	--
Ethene	µg/L	NS	**NS**	0.058	<0.005 U	0.160	--	<0.0050 U	--	<0.005 U	0.087	0.085	0.078	0.072	<0.025 U	0.13	0.028	<0.025 U	<0.13 U	--	--	--	--	--	--	--	--
Iron, Dissolved	µg/L	150	**300**	--	**27,000**	**22,000**	--	**24,000**	--	**22,000**	**23,000**	**26,000**	**31,000**	**18,000**	**25,000**	**21,000**	**5,800**	--	**29,000**	**2,560**	--	**424** J	--	--	**25,700**	--	--
Manganese, Dissolved	µg/L	60	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	38.3	--	33.6	--	--	**391**	--	--
Methane	µg/L	NS	**NS**	21,000	22,000	22,000	--	13,000	--	24,000	20,000	32,000	21,000	24,000	23,000	25,000	3,800	24,000	21,000	2,130	--	--	--	--	7,680	--	--
Nitrogen, NO2 + NO3, Total	µg/L	2,000	**10,000**	<500 U	43	170	--	<24 U	--	<24 U	630 B	310 J	<100 U	<0.5 U	<100 U	<100 U	<100 U	<100 U	<45 U	<95 U	--	<59 U	--	--	120 J	--	--
Nitrogen	µg/L	NS	**NS**	5,100	2,400	2,400	--	--	--	--	--	--	3,100	8,300	2,400	--	--	4,100	7,200	--	--	--	--	--	--	--	--
Oxygen	µg/L	NS	**NS**	450	280	230	--	--	--	--	--	--	<500 U	2,100	<500 U	--	7,200	930	1,500	--	--	--	--	--	--	--	--
Sulfate, Total	µg/L	125,000	**250,000**	<2,000 U	5,000	15,000	--	27,000	--	19,000	**260,000**	<10,000 U	<10,000 U	48,100	2,200 J	10,000	1,900 J	4,100 J	6,600 B	<10,000 U	--	51,300	--	--	2,500 J	--	--
Field Parameters																												
Dissolved oxygen	mg/L	NS	**NS**	--	2.07	0.07	1.18	0.25	0.08	0.07	0.17	0.19	0.08	0.29	0.18	0.15	1.13	0.11	--	0.19	0.22	0.13	0.11	0.15	0.07	0.09	0.12
Groundwater, depth to	feet	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.89	6.90	5.99	5.72	5.47	5.76	5.79	5.92
Oxidation Reduction Potential	millivolts	NS	**NS**	--	-169.6	-136.9	-149.8	-99.3	-137.2	-149.8	-115.3	-146.8	-139.4	-117.8	-150.4	-126.4	-73.6	-125.4	--	-100	47	-31.3	-183.4	-80.7	-207.2	-142.0	-2.9
pH, Field	s.u.	NS	**NS**	--	6.75	6.82	6.8	7.96	6.78	6.94	6.66	6.57	6.75	6.62	6.79	6.95	6.6	6.47	--	7.05	6.78	7.01	6.67	6.81	6.69	6.65	6.11
Specific Conductance, Field	µS/cm	NS	**NS**	--	1,886	1,819	1,631	1,771	1,657	1,664	2,058	1,479	1,708	14,854	3,150	3,648	7,240	2,283	--	2.03	5,820	636.4	2345.5	1788.6	1879.2	1665.7	112.8
Temperature, Water	Deg C	NS	**NS**	--	11.57	11.38	11.57	11.53	11.57	11.52	11.06	11.53	11.56	11.55	11.6	11.58	13.46	11.84	--	15.01	11.21	11.48	10.69	8.88	9.84	10.87	9.76
Turbidity, Quantitative	NTUs	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	27.3	25.0	73.95	19.24	82.39	63.45	7.60	0.00

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:	Units	WI GW PAL	WI GW ES	W-41S																						
Depth Level Unit:				Upper Shallow																						
Sample Date (m/d/yyyy):				12/20/2000	6/18/2002	11/21/2003	3/9/2004	6/9/2004	9/8/2004	12/9/2004	3/18/2005	9/21/2005	3/20/2006	9/28/2006	3/28/2007	9/20/2007	3/25/2008	3/28/2008	9/8/2008	3/26/2009	8/24/2015	8/22/2016	2/27/2017	12/17/2019	5/11/2020	12/14/2020
BTEX																										
Benzene	µg/L	0.5	**5**	140	50	140	190	91	130	140	160	120	120	120	120	110	89	--	80	120	64	75.9	92.7	67.9	75.8	16.4
Ethylbenzene	µg/L	140	**700**	0.79	140	2	5.4	4.4	4.2	6	6.5	2.8 J	6.5	5.8	12	8.1	5.3	--	3.8	10	3.9	2.6	5.9	2.4	201	37.0
Toluene	µg/L	160	**800**	0.95	4.2	1.4	1.8	1.3	1.4	1.9	2.1	1.6	2.2	2.3	2.7	1.9	1.7	--	1.4 J	2.6	1.1	<1.2 U	1.8 J	1.2 J	553	2.7
Xylene, o	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.7	3.9	3.2	567	9.6
Xylenes, m + p	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.8 J	7.2	4.9	924	142
Xylenes, Total[1]	µg/L	400	**2,000**	4.6	44	6.9	9.2	7	6.8	9.1	9.6	4.5	8.8	9.4	15	10	10	--	8.1	16	8.3	6.5	11.1	8.1	1491	152
Total BTEX [2]	µg/L	NS	**NS**	146.34	238.2	150.3	206.4	103.7	142.4	157	178.2	128.9	137.5	137.5	149.7	130	106	--	93.3	148.6	77.3	85	111.5	79.6	2320.8	208
VOCs																										
1,1,1,2-Tetrachloroethane	µg/L	7	**70**	<0.25 U	<1.00 U	<0.50 U	<1.20 U	<0.25 U	<0.50 U	<0.25 U	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.25 U	<0.5 U	<0.5 U	--	<0.25 U	<0.25 U	<0.25 U	<0.45 U	<0.36 U	<0.54 U	<0.27 U	<0.54 U
1,1,1-Trichloroethane	µg/L	40	**200**	<0.25 U	<1.00 U	<1.0 U	<2.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U	--	<0.5 U	<0.5 U	<0.2 U	<1.2 U	<1.0 U	<0.49 U	<0.24 U	<0.49 U
1,1,2,2-Tetrachloroethane	µg/L	0.02	**0.2**	<0.25 U	<1.00 U	<0.4 U	<1.0 U	<0.2 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	--	<0.2 U	<0.2 U	<0.23 U	<0.62 U	<0.50 U	<0.55 U	<0.28 U	<0.55 U
1,1,2-Trichloroethane	µg/L	0.5	**5**	<0.25 U	<1.00 U	<0.50 U	<1.20 U	<0.25 U	<0.50 U	<0.25 U	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.25 U	<0.5 U	<0.5 U	--	<0.25 U	<0.25 U	<0.28 U	<0.49 U	<0.39 U	<1.1 U	<0.55 U	<1.1 U
1,1-Dichloroethane	µg/L	85	**850**	<0.25 U	<1 U	<1.0 U	<2.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U	--	<0.5 U	<0.5 U	<0.19 U	<0.60 U	<0.48 U	<0.55 U	<0.27 U	<0.55 U
1,1-Dichloroethene	µg/L	0.7	**7**	<0.25 U	<1.00 U	<1.0 U	<2.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U	--	<0.5 U	<0.5 U	<0.31 U	<1.0 U	<0.82 U	<0.49 U	<0.24 U	<0.49 U
1,1-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<1.00 U	<1.0 U	<2.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U	--	<0.5 U	<0.5 U	<0.34 U	<1.1 U	<0.88 U	<1.1 U	<0.54 U	<1.1 U
1,2,3-Trichlorobenzene	µg/L	NS	**NS**	<0.25 U	<1.00 U	<0.50 U	<1.20 U	<0.25 U	<0.50 U	<0.25 U	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.25 U	<0.5 U	<0.5 U	--	<0.25 U	<0.25 U	<0.24 U	<5.3 U	<4.3 U	<1.3 U	<2.2 U	<4.4 U
1,2,3-Trichloropropane	µg/L	12	**60**	<0.25 U	<1.00 U	<1.0 U	<2.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U	--	<0.5 U	<0.5 U	<0.45 U	<1.2 U	<1.0 U	<1.2 U	<0.59 U	<1.2 U
1,2,4-Trichlorobenzene	µg/L	14	**70**	<0.25 U	<1.00 U	<0.50 U	<1.20 U	<0.25 U	<0.50 U	<0.25 U	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.25 U	<0.5 U	<0.5 U	--	<0.25 U	<0.25 U	<0.31 U	<5.5 U	<4.4 U	<1.9 U	<0.95 U	<1.9 U
1,2-Dibromo-3-chloropropane	µg/L	0.02	**0.2**	<0.25 U	<1.00 U	<1.0 U	<2.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U	--	<0.5 U	<0.5 U	<0.87 U	<5.4 U	<4.3 U	<3.5 U	<1.8 U	<3.5 U
1,2-Dibromoethane	µg/L	0.005	**0.05**	<0.25 U	<1.00 U	<0.4 U	<1.0 U	<0.2 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	--	<0.2 U	<0.2 U	<0.36 U	<0.44 U	<0.36 U	<1.7 U	<0.83 U	<1.7 U
1,2-Dichlorobenzene	µg/L	60	**600**	<0.25 U	<1.00 U	<0.4 U	<1.0 U	<0.2 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	--	<0.2 U	<0.2 U	<0.27 U	<1.2 U	<1.0 U	<1.4 U	<0.71 U	<1.4 U
1,2-Dichloroethane	µg/L	0.5	**5**	<0.25 U	<1.00 U	<1.0 U	<2.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U	--	<0.5 U	<0.5 U	<0.28 U	<0.42 U	<0.34 U	<0.56 U	<0.28 U	<0.56 U
1,2-Dichloropropane	µg/L	0.5	**5**	<0.25 U	<1.00 U	<1.0 U	<2.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U	--	<0.5 U	<0.5 U	<0.2 U	<0.58 U	<0.47 U	<0.57 U	<0.28 U	<0.57 U
1,2,4-Trimethylbenzene	µg/L	NS	**NS**	2	49	2.3	3.9	2.1	2.2	3	4.2	1.6	4.2	3.3	6	3.4	4.6	--	2.1	6.2	2.9	2.7	3.9	2.2 J	273	131
1,3,5-Trimethylbenzene	µg/L	NS	**NS**	2.1	2	3.7	7.6	0.97	1.1	1.8	<0.4 U	1.6	6.9	4.9	8	4.1	5.8	--	2.8	11	2.9	<1.2 U	2.4	1.8 J	143	29.6
Trimethylbenzenes, Total [3]	µg/L	96	**480**	4.1	51	6	11.5	3.07	3.3	4.8	4.2	3.2	11.1	8.2	14	7.5	10.4	--	4.9	17.2	5.8	2.7	6.3	4	416	161
1,3-Dichlorobenzene	µg/L	120	**600**	<0.25 U	<1.00 U	<0.4 U	<1.0 U	<0.2 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	--	<0.2 U	<0.2 U	<0.15 U	<1.2 U	<1.0 U	<1.3 U	<0.63 U	<1.3 U
1,3-Dichloropropane	µg/L	NS	**NS**	<0.25 U	<1.00 U	<0.50 U	<1.20 U	<0.25 U	<0.50 U	<0.25 U	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.25 U	<0.5 U	<0.5 U	--	<0.25 U	<0.25 U	<0.13 U	<1.2 U	<1.0 U	<1.7 U	<0.83 U	<1.7 U
1,4-Dichlorobenzene	µg/L	15	**75**	<0.25 U	<1.00 U	<0.4 U	<1.0 U	<0.2 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	--	<0.5 U	<0.5 U	<0.15 U	<1.2 U	<1.0 U	<1.9 U	<0.94 U	<1.9 U
2,2-Dichloropropane	µg/L	NS	**NS**	<0.25 U	<1 U	<1.0 U	<2.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U	--	<0.5 U	<0.5 U	<0.32 U	<1.2 U	<0.97 U	<4.5 U	<2.3 U	<4.5 U
2,3-Dichloropropene	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	<0.25 U	<0.5 U	<0.5 U	--	<0.25 U	<0.25 U	--	--	--	--	--	--
2-Chlorotoluene	µg/L	NS	**NS**	<0.1 U	<0.4 U	<1.0 U	<2.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U	--	<0.5 U	<0.5 U	<0.21 U	<1.2 U	<1.0 U	<1.9 U	<0.93 U	<1.9 U
4-Chlorotoluene	µg/L	NS	**NS**	<0.25 U	<1.00 U	<0.4 U	<1.0 U	<0.2 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	--	<0.2 U	<0.2 U	<0.2 U	<0.53 U	<0.43 U	<1.5 U	<0.76 U	<1.5 U
4-Isopropyltoluene	µg/L	NS	**NS**	0.28	1.4	0.46	<1.0 U	0.42	0.58	0.68	<0.4 U	<0.4 U	0.88 J	0.7 J	1.1	0.7 J	0.78 J	--	0.53 J	1.4	<0.17 U	<1.2 U	1.1 J	<1.6 U	3.1	<1.6 U
Bromobenzene	µg/L	NS	**NS**	<0.25 U	<1.00 U	<0.4 U	<1.0 U	<0.2 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	--	<0.2 U	<0.2 U	<0.25 U	<0.58 U	<0.46 U	<0.48 U	<0.24 U	<0.48 U
Bromochloromethane	µg/L	NS	**NS**	<0.25 U	<1.00 U	<1.0 U	<2.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U	--	<0.5 U	<0.5 U	<0.4 U	<0.85 U	<0.68 U	<0.72 U	<0.36 U	<0.72 U
Bromodichloromethane	µg/L	0.06	**0.6**	<0.25 U	<1.00 U	<0.4 U	<1.0 U	<0.2 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	--	<0.2 U	<0.2 U	<0.17 U	<1.2 U	<1.0 U	<0.73 U	<0.36 U	<0.73 U
Bromoform	µg/L	0.44	**4.4**	<0.25 U	<1.00 U	<0.4 U	<1.0 U	<0.2 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	--	<0.2 U	<0.2 U	<0.28 U	<1.2 U	<1.0 U	<7.9 U	<4.0 U	<7.9 U
Bromomethane	µg/L	1	**10**	<0.25 U	<1.00 U	<0.4 U	<1.0 U	<0.2 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.2 U	<0.2 U	<0.4 U	--	<0.5 U	<0.5 U	<0.31 U	<6.1 U	<4.9 U	<1.9 U	<0.97 U	<1.9 U
Carbon Tetrachloride	µg/L	0.5	**5**	<0.25 U	<1.00 U	<1.0 U	<2.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U	--	<0.5 U	<0.5 U	<0.26 U	<1.2 U	<1.0 U	<0.33 U	<1.1 U	<2.2 U
Chlorobenzene	µg/L	NS	**NS**	<0.25 U	<1.00 U	<0.4 U	<1.0 U	<0.2 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	--	<0.2 U	<0.2 U	<0.14 U	<1.2 U	<1.0 U	<1.4 U	<0.71 U	<1.4 U
Chloroethane	µg/L	80	**400**	<0.25 U	<1.00 U	<2 U	<5 U	<1 U	<2 U	<1 U	<2 U	<2 U	<2 U	<2 U	<1 U	<2 U	<2 U	--	<1 U	<1 U	<0.34 U	<0.94 U	<0.75 U	<2.7 U	<1.3 U	<2.7 U
Chloroform	µg/L	0.6	**6**	<0.25 U	<1.00 U	<0.4 U	<1.0 U	<0.2 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	--	<0.2 U	<0.2 U	<0.2 U	<6.2 U	<5.0 U	<2.5 U	<1.3 U	<2.5 U
Chloromethane	µg/L	3	**30**	<0.25 U	<1.00 U	<0.4 U	<1.0 U	<0.2 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	<0.4 U	1.2 J	<0.2 U	<0.4 U	<0.4 U	--	<0.3 U	<0.3 U	<0.18 U	<1.2 U	<1.0 U	<4.4 U	<2.2 U	<4.4 U
cis-1,2-Dichloroethene	µg/L	7	**70**	<0.25 U	<1.00 U	<1.0 U	<2.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U	--	<0.5 U	<0.5 U	<0.12 U	<0.64 U	<0.51 U	<0.54 U	<0.27 U	<0.54 U
cis-1,3-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<1.00 U	<0.4 U	<1.0 U	<0.2 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	--	<0.2 U	<0.2 U	<0.18 U	<1.2 U	<1.0 U	<7.3 U	<3.6 U	<7.3 U
trans-1,3-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<1.00 U	<0.4 U	<1.0 U	<0.2 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	--	<0.2 U	<0.2 U	<0.21 U	<0.57 U	<0.46 U	<8.7 U	<4.4 U	<8.7 U
1,3-Dichloropropene [4]	µg/L	0.04	**0.4**	<0.5 U	<2 U	<0.8 U	<2 U	<0.4 U	<0.8 U	<0.4 U	<0.8 U	<0.8 U	<0.8 U	<0.8 U	<0.4 U	<0.8 U	<0.8 U	--	<0.4 U	<0.4 U	<0.39 U	<1.77 U	<1.46 U	<16 U	<8 U	<16.0 U
Dibromochloromethane	µg/L	6	**60**	<0.25 U	<1.00 U	<0.4 U	<1.0 U	<0.2 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	--	<0.2 U	<0.2 U	<0.32 U	<1.2 U	<1.0 U	<5.2 U	<2.6 U	<5.2 U
Dibromomethane	µg/L	NS	**NS**	<0.25 U	<1.00 U	<0.4 U	<1.0 U	<0.2 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	--	<0.2 U	<0.2 U	<0.33 U	<1.1 U	<0.85 U	<1.9 U	<0.94 U	<1.9 U
Freon 12	µg/L	200	**1,000**	<0.25 U	<1.00 U	<1.0 U	<2.5 U	<0.5 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U	--	<0.5 U	<0.5 U	<0.2 U	<0.56 U	<0.45 U	<1.0 U	<0.50 U	<1.0 U
Hexachlorobutadiene	µg/L	NS	**NS**	<0.25 U	<1.00 U	<1.0 U	<2.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U	--	<0.5 U	<0.5 U	<0.26 U	<5.3 U	<4.2 U	<2.4 U	<1.5 U	<2.9 U
Isopropyl ether	µg/L	NS	**NS**	<0.25 U	<1 U	<1.0 U	<2.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U	--	<0.5 U	<0.5 U	<0.15 U	<1.2 U	<1.0 U	<3.8 U	<1.9 U	<3.8 U
Isopropylbenzene	µg/L	NS	**NS**	17	35	15	22	10	14	17	23	14	24	20	27	17	18	--	12	29	14	16.1	21.4	11.9	12.6	5.0 J
Methylene chloride (DCM)	µg/L	0.5	**5**	<0.25 U	<1 U	<2 U	<5 U	1.2	<2 U	<1 U	<2 U	<2 U	<2 U	<2 U	<1 U	<2 U	<2 U	--	<1 U	<1 U	<0.68 U	<0.58 U	0.68 J	<1.2 U	<0.58 U	<1.2 U
Methyl-tert-butyl-ether	µg/L	12	**60**	<0.25 U	<1.00 U	<1.0 U	<2.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U	--	<0.5 U	<0.5 U	<0.24 U	<0.44 U	<0.35 U	<2.5 U	<1.2 U	<2.5 U
Naphthalene	µg/L	10	**100**	28	42	44	60	20	17	27	26	3.6	14	43	93	97	48	--	35	66	94	21	98.8	55.6	39.2	8.9 J
n-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<1.00 U	<0.4 U	<1.0 U	<0.2 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	--	<0.2 U	<0.2 U	<0.13 U	1.3 J	1.9 J	1.5 J	<0.71 U	<1.4 U
n-Propylbenzene	µg/L	NS	**NS**	8.3	19	8	12	5.1	6.9	8.6	12	6.7	13	10	14	8.3	8	--	6.3	20	7.5	9.5	12.4	6.6 J	14.1	6.8 J
sec-Butylbenzene	µg/L	NS	**NS**	1.8	<1.00 U	1.3	1.8	0.82	1.2	1.4	1.6	1.2 J	1.9	1.5 J	1.9	1.2 J	1.2 J	--	0.95	3	1.2	<5.5 U	<4.4 U	<1.7 U	1.7 J	<1.7 U
Styrene	µg/L	10	**100**	<0.25 U	<1.00 U	<0.4 U	<1.0 U	<0.2 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	--	<0.5 U	<0.5 U	<0.1 U	<1.2 U	<1.0 U	<0.93 U	<3.0 U	<6.0 U
tert-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<1.00 U	<0.4 U	<1.0 U	<0.2 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	--	<0.2 U	0.47 J	<0.14 U	<0.45 U	<0.36 U	<0.61 U	<0.30 U	<0.61 U
Tetrachloroethene	µg/L	0.5	**5**	<0.25 U	<1.00 U	<1.0 U	<2.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U	--	<0.5 U	<0.5 U	<0.17 U	<1.2 U	<1.0 U	<0.65 U	<0.33 U	<0.65 U
trans-1,2-Dichloroethene	µg/L	20	**100**	<0.25 U	<1.00 U	<1.0 U	<2.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U	--	<0.5 U	<0.5 U	<0.25 U	<0.64 U	<0.51 U	<2.2 U	<0.46 U	<0.93 U
Trichloroethene	µg/L	0.5	**5**	<0.25 U	<1.00 U	<0.4 U	<1.0 U	<0.2 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	--	<0.2 U	<0.2 U	<0.19 U	<0.83 U	<0.66 U	<0.51 U	<0.26 U	<0.51 U
Trichlorofluoromethane	µg/L	NS	**NS**	<0.25 U	<1.00 U	<1.0 U	<2.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<1 U	<1 U	<1 U	<0.5 U	<1 U	<1 U	--	<0.5 U	<0.5 U	<0.19 U	<0.46 U	<0.37 U	<0.43 U	<0.21 U	<0.43 U
Vinyl Chloride	µg/L	0.02	**0.2**	<0.25 U	<1.00 U	<0.4 U	<1.0 U	<0.2 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.2 U	<0.4 U	<0.4 U	--	<0.2 U	<0.2 U	<0.1 U	<0.44 U	<0.35 U	<0.35 U	<0.17 U	<0.35 U

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:	Units	WI GW PAL	WI GW ES	W-41S																					
Depth Level Unit:				Upper Shallow																					
Sample Date (m/d/yyyy):				12/20/2000	6/18/2002	11/21/2003	3/9/2004	6/9/2004	9/8/2004	12/9/2004	3/18/2005	9/21/2005	3/20/2006	9/28/2006	3/28/2007	9/20/2007	3/25/2008	3/28/2008	9/8/2008	3/26/2009	8/24/2015	8/22/2016	2/27/2017	12/17/2019	5/11/2020	12/14/2020
PAHs																									
1-Methylnaphthalene	µg/L	NS	**NS**	25	32	<0.44 U	34	28	28	23	53	30	20	45	43	42	--	32	0.55 J	74	--	39.2	35.5	28.0	2.9	0.016 J
2-Methylnaphthalene	µg/L	NS	**NS**	8.4	12	<0.3 U	16	4.9	6.1	7.7	27	8.6	6.3	11	26	20	--	9.8	2	43	--	0.67	3.1	8.1	0.15	<0.0052 U
Acenaphthene	µg/L	NS	**NS**	5.8	6.2	<0.58 U	6.1	5.7	6.5	5	10	8.2	6.3	10	8.1	12	--	8.5	4.3	12	11	6.8	6.9	6.1	1.6	0.49
Acenaphthylene	µg/L	NS	**NS**	<0.57 U	<0.21 U	<0.25 U	<0.25 U	<0.25 U	<0.70 U	<0.76 U	<0.71 U	<0.69 U	<0.7 U	<0.71 U	<0.73 U	<0.72 U	--	<0.7 U	<0.69 U	<0.7 U	0.67 J	0.37	0.47	0.35	0.097	0.052
Anthracene	µg/L	600	**3,000**	0.57	0.79	<0.034 U	0.45	0.6	0.78	0.6	0.81	0.72	0.42	1.1	1.2	1.1	--	0.77	0.048 J	1.2	0.94	0.58	0.49	0.83	0.068	<0.011 U
Benzo(a)anthracene	µg/L	NS	**NS**	0.19	0.25	<0.056 U	0.14	<0.056 U	0.2	0.16	0.14	0.18	0.055 J	0.099 J	0.31	0.19	--	0.21	0.19	0.064 J	0.19	<0.015 U	0.075 J	<0.024 U	0.081	0.090
Benzo(a)pyrene	µg/L	0.02	**0.2**	<0.028 U	<0.014 U	<0.033 U	<0.033 U	<0.033 U	<0.033 U	<0.035 U	<0.033 U	<0.032 U	<0.032 U	<0.033 U	0.076 J	0.063 J	--	0.044 J	0.094 J	<0.033 U	<0.081 U	0.013 J	<0.041 U	<0.034 U	0.069	0.029 J
Benzo(b)fluoranthene	µg/L	0.02	**0.2**	<0.045 U	<0.042 U	<0.053 U	<0.053 U	<0.053 U	<0.100 U	<0.110 U	<0.100 U	<0.098 U	<0.099 U	<0.1 U	<0.1 U	<0.1 U	--	<0.1 U	<0.098 U	<0.1 U	<0.066 U	<0.015 U	0.051 J	<0.019 U	0.096	0.070
Benzo(g,h,i)perylene	µg/L	NS	**NS**	<0.1 U	<0.16 U	<0.096 U	<0.096 U	<0.096 U	<0.12 U	<0.13 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U	<0.13 U	<0.12 U	--	<0.12 U	<0.12 U	<0.12 U	<0.31 U	0.024 J	<0.027 U	<0.022 U	0.054	0.044
Benzo(k)fluoranthene	µg/L	NS	**NS**	<0.030 U	<0.026 U	<0.045 U	<0.045 U	<0.045 U	<0.050 U	<0.054 U	<0.050 U	<0.049 U	<0.049 U	<0.051 U	<0.052 U	<0.051 U	--	<0.05 U	0.13	<0.05 U	<0.053 U	<0.016 U	<0.030 U	<0.024 U	0.045	0.023 J
Chrysene	µg/L	0.02	**0.2**	0.025	0.041	<0.049 U	<0.049 U	<0.049 U	<0.042 U	<0.045 U	<0.042 U	0.042 J	<0.041 U	<0.042 U	0.18	0.1 J	--	<0.042 U	0.11 J	0.11 J	**0.2** J	0.048 J	0.083 J	0.082 J	0.13	<0.014 U
Dibenz(a,h)anthracene	µg/L	NS	**NS**	<0.17 U	<0.079 U	<0.064 U	<0.064 U	<0.064 U	<0.13 U	<0.14 U	<0.13 U	<0.13 U	<0.13 U	<0.13 U	<0.14 U	<0.14 U	--	<0.13 U	<0.13 U	<0.13 U	<0.042 U	<0.016 U	<0.039 U	<0.032 U	<0.0099 U	<0.011 U
Fluoranthene	µg/L	80	**400**	0.85	1	<0.024 U	1	1.6	2	1.2	2	2.1	0.97	1.8	2.9	2.1	--	1.5	0.49	2	0.9	0.43	0.41	0.31	0.29	0.085
Fluorene	µg/L	80	**400**	3.1	2.7	<0.064 U	3	3.4	3.8	2.9	6	4.6	3.4	6.9	6.5	7.3	--	4.4	<0.062 U	13	4.9	2.8	2.7	2.5	0.41	0.039 J
Indeno(1,2,3-cd)pyrene	µg/L	NS	**NS**	<0.086 U	<0.032 U	<0.031 U	<0.031 U	<0.031 U	<0.063 U	<0.068 U	<0.064 U	<0.062 U	<0.063 U	<0.064 U	<0.065 U	<0.065 U	--	<0.063 U	<0.062 U	<0.063 U	<0.061 U	<0.010 U	<0.069 U	<0.057 U	0.037 J	0.027 J
Naphthalene	µg/L	10	**100**	31	72	<0.26 U	35	19	12	14	22	4.6	4.3	9.6	48	28	--	16	<0.4 U	39	73	8.2	40.1	31.9	3.7	0.26
Phenanthrene	µg/L	NS	**NS**	1.3	2.2	<0.02 U	1.9	1.8	2.4	1.9	3.1	1.2	0.4	1.8	4.4	2.4	--	1.1	0.14	6.2	5.2	3.7	3.0	2.7	0.026 J	<0.015 U
Pyrene	µg/L	50	**250**	0.27	0.37	<0.04 U	0.43	0.41	0.45	0.59	0.19	0.57	0.17	0.051 J	0.22	0.43	--	0.53	0.46	2.4	0.95	0.34 B	0.38	0.43	0.39	0.23
Total PAH (16) [5]	µg/L	NS	**NS**	43.105	85.551	<0.58 U	48.02	32.51	28.13	26.35	44.24	22.212	16.015	31.35	71.886	53.683	--	33.054	5.962	75.974	97.95	23.305	54.659	45.202	7.093	1.439
Petroleum Hydrocarbons																									
Diesel Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals																									
Iron, Total	µg/L	150	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,100	--	--	--	--	--	--
Cyanide																									
Cyanide DISS (amenable)	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide DISS, total	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide, Amenable	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide, Total	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lab MNA Parameters																									
Carbon Dioxide	µg/L	NS	**NS**	--	110,000	140,000	120,000	--	95,000	--	85,000	110,000	--	59,000	37,000	60,000	--	--	72,000	35,000	59,000	--	--	--	--	--
Carbon monoxide	mg/L	10,000	**10,000**	--	<0.4 U	<0.4 U	<0.40 U	--	--	--	--	--	--	<1 U	<1 U	<1 U	--	--	<1 U	--	--	--	--	--	--	--
Ethane	µg/L	NS	**NS**	--	2.900	1.800	2.300	--	1.200	--	5.300	1.3	2.2	2	3	2.3	2.1	--	0.92	1.7	1	--	--	--	--	--
Ethene	µg/L	NS	**NS**	--	0.053	0.038	0.980	--	0.026	--	<0.005 U	0.042	0.16	0.054	0.035	<0.025 U	0.03	--	<0.025 U	<0.025 U	<0.13 U	--	--	--	--	--
Iron, Dissolved	µg/L	150	**300**	--	--	12,000	8,900	--	11,000	--	8,800	2,500	2,300	5,700	2,000	3,300	1,700	--	5,200	--	5,300	4,610	--	6,100	--	--
Manganese, Dissolved	µg/L	60	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	117	--	126	--	--
Methane	µg/L	NS	**NS**	--	13,000	13,000	12,000	--	8,200	--	14,000	14,000	16,000	13,000	12,000	13,000	11,000	--	10,000	12,000	6,200	8,020	--	--	--	--
Nitrogen, NO2 + NO3, Total	µg/L	2,000	**10,000**	<500 U	<500 U	93	120	--	140	--	65	510 B	<100 U	<100 U	<500 U	<100 U	<100 U	--	<100 U	<100 U	52 J	<95 U	--	<59 U	--	--
Nitrogen	µg/L	NS	**NS**	--	11,000	9,900	12,000	--	--	--	--	--	--	5,800	17,000	10,000	--	--	--	11,000	15,000	--	--	--	--	--
Oxygen	µg/L	NS	**NS**	--	4,200	530	700	--	--	--	--	--	--	670	890	1,600	--	--	840	1,400	3,900	--	--	--	--	--
Sulfate, Total	µg/L	125,000	**250,000**	13,000	<2,000 U	<2,000 U	10,000	--	<2,000 U	--	21,000	<10,000 U	10,000 J	<10,000 U	13,000	<250 U	4,300 J	--	6,900	4,200 J	4,500 J	<10,000 U	--	<2,200 U	--	--
Field Parameters																									
Dissolved oxygen	mg/L	NS	**NS**	--	--	9.91	0.14	3.92	0.21	0.35	0.07	0.11	0.52	0.12	0.24	0	0.19	--	0.63	0.15	--	0.29	0.24	0.11	0.14	0.09
Groundwater, depth to	feet	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.92	5.00	4.80	4.71	4.75
Oxidation Reduction Potential	millivolts	NS	**NS**	--	--	-150.6	-121.4	-147.4	-105.7	-145.4	-138.9	-137.9	-139.9	-131.9	-165.5	-229	-226.1	--	-104.4	-127.2	--	-149	-138	-103.7	-189.2	-55.5
pH, Field	s.u.	NS	**NS**	--	--	6.81	7.19	7.08	7.95	7.02	6.95	6.61	7.17	7.04	8.17	6.67	7.82	--	7	6.89	--	7.33	7.33	6.72	6.85	6.76
Specific Conductance, Field	µS/cm	NS	**NS**	--	--	10,785	12,914	18,626	18,324	19,707	15,773	10,734	9,280	1,139	11,322	10,141	9,025	--	6,082	8,046	--	7.00	4,640	5,583	4090.6	2145.7
Temperature, Water	Deg C	NS	**NS**	--	--	15.37	7.79	9.97	13.53	14.09	10.12	14.34	9.3	15.68	9.44	14.35	10.72	--	15.6	8.16	--	20.25	8.67	10.98	10.69	11.44
Turbidity, Quantitative	NTUs	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.6	1.4	1.71	8.93	3.21

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:				W-42D																				
Depth Level Unit:				Lower Shallow																				
Sample Date (m/d/yyyy):	Units	WI GW PAL	WI GW ES	6/17/2002	11/20/2003	3/9/2004	6/8/2004	9/7/2004	12/8/2004	3/18/2005	9/21/2005	3/22/2006	9/28/2006	3/27/2007	9/20/2007	3/25/2008	3/28/2008	9/5/2008	3/26/2009	9/29/2009	12/3/2009	3/29/2010	6/1/2010	8/24/2015
BTEX																								
Benzene	µg/L	0.5	**5**	0.77	<0.2 U	0.41	0.51	0.52	0.57	0.54	<0.2 U	<0.2 U	<0.2 U	<0.2 U	**38**	**21**	--	**14** J	**23** J	**9.1**	**10**	**7.3**	**7.8**	0.95
Ethylbenzene	µg/L	140	**700**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	**2,000**	**3,700**	--	**3,000**	**3,300**	340	53	<0.22 U	<0.22 U	<0.13 U
Toluene	µg/L	160	**800**	<0.1 U	0.23	0.2	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	4.2	<4 U	--	<25 U	<25 U	<1 U	<0.25 U	<0.25 U	<0.25 U	<0.11 U
Xylene, o	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes, m + p	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes, Total [1]	µg/L	400	**2,000**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	50	62	--	<25 U	<25 U	8.2	4.8	1 J	1.4 J	<0.068 U
Total BTEX [2]	µg/L	NS	**NS**	0.77	0.23	0.61	0.51	0.52	0.57	0.54	<1.4 U	<1.4 U	<1.4 U	<1.4 U	2092.2	3783	--	3014	3323	357.3	67.8	8.3	9.2	0.95
VOCs																								
1,1,1,2-Tetrachloroethane	µg/L	7	**70**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<5 U	--	<12 U	<12 U	--	--	--	--	<0.25 U
1,1,1-Trichloroethane	µg/L	40	**200**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U	--	<25 U	<25 U	--	--	--	--	<0.2 U
1,1,2,2-Tetrachloroethane	µg/L	0.02	**0.2**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<4 U	--	<10 U	<10 U	--	--	--	--	<0.23 U
1,1,2-Trichloroethane	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<5 U	--	<12 U	<12 U	--	--	--	--	<0.28 U
1,1-Dichloroethane	µg/L	85	**850**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U	--	<25 U	<25 U	--	--	--	--	<0.19 U
1,1-Dichloroethene	µg/L	0.7	**7**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U	--	<25 U	<25 U	--	--	--	--	<0.31 U
1,1-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U	--	<25 U	<25 U	--	--	--	--	<0.34 U
1,2,3-Trichlorobenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<5 U	--	<12 U	<12 U	--	--	--	--	<0.24 U
1,2,3-Trichloropropane	µg/L	12	**60**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U	--	<25 U	<25 U	--	--	--	--	<0.45 U
1,2,4-Trichlorobenzene	µg/L	14	**70**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<5 U	--	<12 U	<12 U	--	--	--	--	<0.31 U
1,2-Dibromo-3-chloropropane	µg/L	0.02	**0.2**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U	--	<25 U	<25 U	--	--	--	--	<0.87 U
1,2-Dibromoethane	µg/L	0.005	**0.05**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<4 U	--	<10 U	<10 U	--	--	--	--	<0.36 U
1,2-Dichlorobenzene	µg/L	60	**600**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<4 U	--	<10 U	<10 U	--	--	--	--	<0.27 U
1,2-Dichloroethane	µg/L	0.5	**5**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U	--	<25 U	<25 U	--	--	--	--	<0.28 U
1,2-Dichloropropane	µg/L	0.5	**5**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U	--	<25 U	<25 U	--	--	--	--	<0.2 U
1,2,4-Trimethylbenzene	µg/L	NS	**NS**	0.12	<0.2 U	0.22	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<4 U	--	<10 U	<10 U	1.8 J	1.5	0.62 J	0.97 J	<0.14 U
1,3,5-Trimethylbenzene	µg/L	NS	**NS**	0.18	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<4 U	--	<10 U	<10 U	<0.76 U	0.59 J	<0.19 U	0.25 J	<0.18 U
Trimethylbenzenes, Total [3]	µg/L	96	**480**	0.3	<0.4 U	0.22	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<8 U	--	<20 U	<20 U	1.8 J	2.09 J	0.62 J	1.22 J	<0.32 U
1,3-Dichlorobenzene	µg/L	120	**600**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<4 U	--	<10 U	<10 U	--	--	--	--	<0.15 U
1,3-Dichloropropane	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<5 U	--	<12 U	<12 U	--	--	--	--	<0.13 U
1,4-Dichlorobenzene	µg/L	15	**75**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<4 U	--	<25 U	<25 U	--	--	--	--	<0.15 U
2,2-Dichloropropane	µg/L	NS	**NS**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U	--	<25 U	<25 U	--	--	--	--	<0.32 U
2,3-Dichloropropene	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	<0.25 U	<0.25 U	<5 U	--	<12 U	<12 U	--	--	--	--	--
2-Chlorotoluene	µg/L	NS	**NS**	<0.1 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U	--	<25 U	<25 U	--	--	--	--	<0.21 U
4-Chlorotoluene	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<4 U	--	<10 U	<10 U	--	--	--	--	<0.2 U
4-Isopropyltoluene	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<4 U	--	<10 U	<10 U	--	--	--	--	<0.17 U
Bromobenzene	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<4 U	--	<10 U	<10 U	--	--	--	--	<0.25 U
Bromochloromethane	µg/L	NS	**NS**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U	--	<25 U	<25 U	--	--	--	--	<0.4 U
Bromodichloromethane	µg/L	0.06	**0.6**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<4 U	--	<10 U	<10 U	--	--	--	--	<0.17 U
Bromoform	µg/L	0.44	**4.4**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<4 U	--	<10 U	<10 U	--	--	--	--	<0.28 U
Bromomethane	µg/L	1	**10**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	1.2	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<4 U	--	<25 U	<25 U	--	--	--	--	<0.31 U
Carbon Tetrachloride	µg/L	0.5	**5**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U	--	<25 U	<25 U	--	--	--	--	<0.26 U
Chlorobenzene	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<4 U	--	<10 U	<10 U	--	--	--	--	<0.14 U
Chloroethane	µg/L	80	**400**	<0.25 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<20 U	--	<50 U	<50 U	--	--	--	--	<0.34 U
Chloroform	µg/L	0.6	**6**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<4 U	--	<10 U	<10 U	--	--	--	--	<0.2 U
Chloromethane	µg/L	3	**30**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<4 U	--	<15 U	<15 U	--	--	--	--	<0.18 U
cis-1,2-Dichloroethene	µg/L	7	**70**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U	--	<25 U	<25 U	--	--	--	--	<0.12 U
cis-1,3-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<4 U	--	<10 U	<10 U	--	--	--	--	<0.18 U
trans-1,3-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<4 U	--	<10 U	<10 U	--	--	--	--	<0.21 U
1,3-Dichloropropene [4]	µg/L	0.04	**0.4**	<0.5 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<8 U	--	<20 U	<20 U	--	--	--	--	<0.39 U
Dibromochloromethane	µg/L	6	**60**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<4 U	--	<10 U	<10 U	--	--	--	--	<0.32 U
Dibromomethane	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<4 U	--	<10 U	<10 U	--	--	--	--	<0.33 U
Freon 12	µg/L	200	**1,000**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U	--	<25 U	<25 U	--	--	--	--	<0.2 U
Hexachlorobutadiene	µg/L	NS	**NS**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U	--	<25 U	<25 U	--	--	--	--	<0.26 U
Isopropyl ether	µg/L	NS	**NS**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U	--	<25 U	<25 U	--	--	--	--	<0.15 U
Isopropylbenzene	µg/L	NS	**NS**	0.87	0.39	0.31	0.48	0.27	0.36	0.48	0.24 J	<0.2 U	0.25 J	0.22 J	2.9	<4 U	--	<10 U	<10 U	--	--	--	--	<0.14 U
Methylene chloride (DCM)	µg/L	0.5	**5**	1	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<20 U	--	<50 U	<50 U	--	--	--	--	<0.68 U
Methyl-tert-butyl-ether	µg/L	12	**60**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U	--	<25 U	<25 U	<0.92 U	<0.23 U	<0.23 U	<0.23 U	<0.24 U
Naphthalene	µg/L	10	**100**	<0.25 U	0.51	<0.25 U	0.4	<0.25 U	0.26	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	0.72 J	26	--	30 J	24 J	--	--	--	--	<0.16 U
n-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<4 U	--	<10 U	<10 U	--	--	--	--	<0.13 U
n-Propylbenzene	µg/L	NS	**NS**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U	--	<25 U	<25 U	--	--	--	--	<0.13 U
sec-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<5 U	--	<12 U	<12 U	--	--	--	--	<0.15 U
Styrene	µg/L	10	**100**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<4 U	--	<25 U	<25 U	--	--	--	--	<0.1 U
tert-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<4 U	--	<10 U	<10 U	--	--	--	--	<0.14 U
Tetrachloroethene	µg/L	0.5	**5**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U	--	<25 U	<25 U	--	--	--	--	<0.17 U
trans-1,2-Dichloroethene	µg/L	20	**100**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U	--	<25 U	<25 U	--	--	--	--	<0.25 U
Trichloroethene	µg/L	0.5	**5**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<4 U	--	<10 U	<10 U	--	--	--	--	<0.19 U
Trichlorofluoromethane	µg/L	NS	**NS**	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U	--	<25 U	<25 U	--	--	--	--	<0.19 U
Vinyl Chloride	µg/L	0.02	**0.2**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<4 U	--	<10 U	<10 U	--	--	--	--	<0.1 U

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:	Units	WI GW PAL	WI GW ES	W-42D																				
Depth Level Unit:				Lower Shallow																				
Sample Date (m/d/yyyy):				6/17/2002	11/20/2003	3/9/2004	6/8/2004	9/7/2004	12/8/2004	3/18/2005	9/21/2005	3/22/2006	9/28/2006	3/27/2007	9/20/2007	3/25/2008	3/28/2008	9/5/2008	3/26/2009	9/29/2009	12/3/2009	3/29/2010	6/1/2010	8/24/2015
PAHs																								
1-Methylnaphthalene	µg/L	NS	**NS**	12	5.8	4.6	3.5	2.9	3.6	6.3	6.9	5	6	4.3	12	--	36	34	42	16	13	7.3	6.7	--
2-Methylnaphthalene	µg/L	NS	**NS**	<0.59 U	<0.3 U	<0.31 U	<0.3 U	<0.31 U	<0.32 U	<0.31 U	<0.34 U	<0.32 U	<0.32 U	<0.78 U	1.1 J	--	0.84 J	<0.31 U	2	<0.32 U	<0.32 U	<0.34 U	<0.32 U	--
Acenaphthene	µg/L	NS	**NS**	10	7	3.6	5.6	5.8	5.3	7.9	6.7	6	7.3	6	30	--	50	42	50	18	16	9.2	11	4.7
Acenaphthylene	µg/L	NS	**NS**	<0.24 U	<0.25 U	<0.26 U	<0.25 U	<0.69 U	<0.71 U	<0.70 U	<0.77 U	<0.7 U	<0.7 U	<1.7 U	9.4	--	<0.69 U	<0.69 U	<0.68 U	<0.71 U	<0.72 U	<0.77 U	<0.7 U	<0.23 U
Anthracene	µg/L	600	**3,000**	<0.096 U	0.096	<0.035 U	0.035	0.045	<0.039 U	0.046	<0.042 U	<0.039 U	<0.039 U	<0.095 U	0.069 J	--	0.069 J	0.086 J	0.048 J	0.085 J	0.068 J	0.11 J	0.079 J	<0.28 U
Benzo(a)anthracene	µg/L	NS	**NS**	<0.16 U	0.084	<0.057 U	<0.056 U	<0.044 U	<0.045 U	<0.044 U	0.059 J	<0.045 U	<0.045 U	<0.11 U	<0.045 U	--	<0.044 U	<0.044 U	0.053 J	<0.045 U	<0.046 U	<0.049 U	<0.045 U	<0.048 U
Benzo(a)pyrene	µg/L	0.02	**0.2**	<0.016 U	<0.033 U	<0.034 U	<0.033 U	<0.032 U	<0.033 U	<0.032 U	<0.036 U	<0.033 U	<0.033 U	<0.08 U	<0.033 U	--	<0.032 U	<0.032 U	<0.031 U	<0.033 U	0.059 J	<0.036 U	<0.033 U	<0.083 U
Benzo(b)fluoranthene	µg/L	0.02	**0.2**	<0.049 U	<0.053 U	<0.054 U	<0.053 U	<0.098 U	<0.100 U	<0.099 U	<0.11 U	<0.1 U	<0.1 U	<0.24 U	<0.1 U	--	<0.098 U	<0.098 U	<0.096 U	<0.1 U	<0.1 U	<0.11 U	<0.1 U	<0.068 U
Benzo(g,h,i)perylene	µg/L	NS	**NS**	<0.19 U	<0.096 U	<0.098 U	<0.096 U	<0.12 U	<0.12 U	<0.12 U	<0.13 U	<0.12 U	<0.12 U	<0.3 U	<0.12 U	--	<0.12 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U	<0.13 U	<0.12 U	<0.32 U
Benzo(k)fluoranthene	µg/L	NS	**NS**	<0.030 U	<0.045 U	<0.046 U	<0.045 U	<0.049 U	<0.050 U	<0.049 U	<0.054 U	<0.05 U	<0.05 U	<0.12 U	<0.051 U	--	<0.049 U	<0.049 U	<0.048 U	<0.051 U	<0.051 U	<0.054 U	<0.05 U	<0.054 U
Chrysene	µg/L	0.02	**0.2**	<0.038 U	<0.049 U	<0.050 U	<0.049 U	<0.041 U	<0.042 U	<0.041 U	<0.046 U	<0.042 U	<0.042 U	<0.1 U	<0.042 U	--	<0.041 U	<0.041 U	<0.04 U	<0.042 U	<0.043 U	0.068 J	0.042 J	<0.057 U
Dibenz(a,h)anthracene	µg/L	NS	**NS**	<0.092 U	<0.064 U	<0.065 U	<0.064 U	<0.13 U	<0.13 U	<0.13 U	<0.14 U	<0.13 U	<0.13 U	<0.32 U	<0.13 U	--	<0.13 U	<0.13 U	<0.13 U	<0.13 U	<0.14 U	<0.14 U	<0.13 U	<0.043 U
Fluoranthene	µg/L	80	**400**	<0.14 U	0.15	0.14	0.17	0.14	<0.083 U	0.094	0.091 J	0.11 J	<0.083 U	<0.2 U	0.13 J	--	0.11 J	0.12 J	0.11 J	<0.084 U	<0.084 U	0.49	0.19 J	<0.38 U
Fluorene	µg/L	80	**400**	0.23	0.37	0.083	<0.064 U	0.34	0.22	0.74	0.22 J	0.54	<0.063 U	<0.16 U	3.4	--	4.7	4.7	8.7	1.8	1.8	1.1	1.1	<0.21 U
Indeno(1,2,3-cd)pyrene	µg/L	NS	**NS**	<0.037 U	<0.031 U	<0.032 U	<0.031 U	<0.062 U	<0.064 U	<0.063 U	<0.069 U	<0.063 U	<0.063 U	<0.16 U	<0.064 U	--	<0.062 U	<0.062 U	<0.061 U	<0.064 U	<0.065 U	<0.069 U	<0.063 U	<0.063 U
Naphthalene	µg/L	10	**100**	<0.7 U	<0.26 U	<0.27 U	<0.26 U	<0.4 U	<0.41 U	<0.4 U	0.53 J	<0.41 U	<0.41 U	<1 U	<0.41 U	--	27	37	30	4.7	2.2	<0.44 U	0.68 J	<0.26 U
Phenanthrene	µg/L	NS	**NS**	0.17	0.11	0.13	0.092	<0.03 U	0.063	0.1	0.059 J	0.061 J	<0.031 U	<0.075 U	0.095 J	--	0.15	0.1 J	0.13	0.15	0.13 J	0.33	0.17	<0.25 U
Pyrene	µg/L	50	**250**	<0.015 U	0.12	0.06	0.063	0.058	<0.045 U	0.045	<0.049 U	0.046 J	<0.045 U	<0.11 U	0.066 J	--	0.055 J	<0.044 U	0.19	<0.045 U	<0.046 U	0.84	0.34	<0.36 U
Total PAH (16) [5]	µg/L	NS	**NS**	10.4	7.93	4.013	5.96	6.383	5.583	8.925	7.659	6.757	7.3	6	43.16	--	82.084	84.006	89.231	24.735	20.257	12.138	13.601	4.7
Petroleum Hydrocarbons																								
Diesel Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals																								
Iron, Total	µg/L	150	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4,800	7,900	8,800	6,800	5,600	--
Cyanide																								
Cyanide DISS (amenable)	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide DISS, total	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide, Amenable	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide, Total	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lab MNA Parameters																								
Carbon Dioxide	µg/L	NS	**NS**	160,000	150,000	140,000	--	180,000	--	200,000	130,000	160,000	230,000	210,000	120,000	--	--	150,000	120,000	--	--	--	--	19,000
Carbon monoxide	mg/L	10,000	**10,000**	<0.4 U	<0.4 U	<0.40 U	--	--	--	--	--	--	<1 U	<1 U	<1 U	--	--	<1 U	--	--	--	--	--	--
Ethane	µg/L	NS	**NS**	4.800	2.200	3.400	--	1.000	--	6.300	1.5	4.5	3.2	3.6	2.5	6.7	--	3.5	4.7	--	--	--	--	3.1
Ethene	µg/L	NS	**NS**	<0.005 U	0.012	0.200	--	<0.0050 U	--	<0.005 U	<0.025 U	0.055	<0.025 U	<0.025 U	0.059	0.048	--	<0.025 U	<0.025 U	--	--	--	--	<0.13 U
Iron, Dissolved	µg/L	150	**300**	--	8,700	1,300	--	12,000	--	8,800	7,000	5,500	14,000	14,000	5,600	4,800	--	6,600	--	--	--	--	--	2,500
Manganese, Dissolved	µg/L	60	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	µg/L	NS	**NS**	13,000	10,000	16,000	--	7,100	--	18,000	9,500	16,000	17,000	14,000	15,000	17,000	--	10,000	16,000	--	--	--	--	4,900
Nitrogen, NO2 + NO3, Total	µg/L	2,000	**10,000**	<500 U	<24 U	46	--	170	--	140	610 B	<100 U	<100 U	<0.5 U	<100 U	<100 U	--	<100 U	<100 U	--	--	--	--	130 B
Nitrogen	µg/L	NS	**NS**	11,000	13,000	8,200	--	--	--	--	--	--	4,800	5,500	9,900	--	--	--	9,000	--	--	--	--	17,000
Oxygen	µg/L	NS	**NS**	2,800	710	430	--	--	--	--	--	--	620	<500 U	<500 U	--	--	3,500	1,500	--	--	--	--	3,600
Sulfate, Total	µg/L	125,000	**250,000**	<2,000 U	<2,000 U	10,000	--	4,800	--	26,000	<10,000 U	<10,000 U	<10,000 U	6,370 B,	550 J	2,000 J	--	2,000 J	<1,500 U	<1,500 U	<1,500 U	<1,500 U	<4,000 U	4,300 J
Field Parameters																								
Dissolved oxygen	mg/L	NS	**NS**	--	4.07	0.07	6.98	0.32	0.1	0.09	0.16	0.31	0.14	0.39	0	0.15	--	0.33	0.22	--	--	--	--	--
Groundwater, depth to	feet	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	millivolts	NS	**NS**	--	-121	-38.7	-139.8	-111.3	-111	-138.9	-104.9	-83.1	-91.1	-182.5	-246.5	-170.8	--	-8.1	-133.3	--	--	--	--	--
pH, Field	s.u.	NS	**NS**	--	6.74	6.9	6.98	6.76	6.87	7.01	6.7	6.53	6.52	6.61	6.76	6.82	--	6.71	6.69	--	--	--	--	--
Specific Conductance, Field	µS/cm	NS	**NS**	--	4,918	4,624	5,154	6,152	--	5,844	4,398	2,749	2,192	4,356	5,090	7,366	--	5,401	6,714	--	--	--	--	--
Temperature, Water	Deg C	NS	**NS**	--	13.73	14.14	13.71	13.3	14.21	14.57	12.87	14.73	14.47	15.27	12.83	14.53	--	12.72	13.43	--	--	--	--	--
Turbidity, Quantitative	NTUs	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:				W-45D																						W-45DL			
Depth Level Unit:				Clay																						Lower Shallow			
Sample Date (m/d/yyyy):	Units	WI GW PAL	WI GW ES	6/19/2002	11/24/2003	3/10/2004	6/8/2004	9/9/2004	12/10/2004	3/21/2005	9/23/2005	3/21/2006	9/28/2006	3/27/2007	9/18/2007	3/25/2008	9/4/2008	3/24/2009	8/25/2015	8/22/2016	2/27/2017	12/17/2019	5/11/2020	12/14/2020	2/12/2020	5/11/2020	5/11/2020 (Dup)	12/14/2020
BTEX																													
Benzene	µg/L	0.5	**5**	**8**	<0.2 U	<0.2 U	<0.2 U	**7.7**	0.32	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	0.35 J	<0.2 U	<0.2 U	<0.074 U	<0.50 U	<0.50 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U
Ethylbenzene	µg/L	140	**700**	<2.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.13 U	<0.50 U	<0.50 U	<0.22 U	<0.32 U	<0.32 U	<0.22 U	<0.32 U	<0.32 U	<0.32 U	<0.32 U
Toluene	µg/L	160	**800**	<1.0 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	0.23	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.5 U	<0.11 U	<0.50 U	<0.50 U	<0.17 U	<0.27 U	<0.27 U	<0.17 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U
Xylene, o	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.50 U	<0.50 U	<0.26 U	<0.26 U	<0.26 U	<0.26 U	<0.26 U	<0.26 U	<0.26 U	<0.26 U
Xylenes, m + p	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.0 U	<1.0 U	<0.47 U	<0.47 U	<0.47 U	<0.47 U	<0.47 U	<0.47 U	<0.47 U	<0.47 U
Xylenes, Total [1]	µg/L	400	**2,000**	<2.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.068 U	<1.5 U	<1.5 U	<0.73 U	<0.73 U	<0.73 U	<0.73 U	<0.73 U	<0.73 U	<0.73 U	<0.73 U
Total BTEX [2]	µg/L	NS	**NS**	8	<1.4 U	<1.4 U	<1.4 U	7.7	0.55	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	0.35	<1.7 U	<1.7 U	<0.382 U	<3 U	<3 U	<1.37 U	<1.57 U	<1.57 U	<1.37 U	<1.57 U	<1.57 U	<1.57 U	<1.57 U
VOCs																													
1,1,1,2-Tetrachloroethane	µg/L	7	**70**	<2.50 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.18 U	<0.18 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U
1,1,1-Trichloroethane	µg/L	40	**200**	<2.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.2 U	<0.50 U	<0.50 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.02	**0.2**	<2.50 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.23 U	<0.25 U	<0.25 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U
1,1,2-Trichloroethane	µg/L	0.5	**5**	<2.50 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.28 U	<0.20 U	<0.20 U	<0.55 U	<0.55 U	<0.55 U	<0.55 U	<0.55 U	<0.55 U	<0.55 U	<0.55 U
1,1-Dichloroethane	µg/L	85	**850**	<2.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.19 U	<0.24 U	<0.24 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U
1,1-Dichloroethene	µg/L	0.7	**7**	<2.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.31 U	<0.41 U	<0.41 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U
1,1-Dichloropropene	µg/L	NS	**NS**	<2.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.34 U	<0.44 U	<0.44 U	<0.54 U	<0.54 U	<0.54 U	<0.54 U	<0.54 U	<0.54 U	<0.54 U	<0.54 U
1,2,3-Trichlorobenzene	µg/L	NS	**NS**	<2.50 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.24 U	<2.1 U	<2.1 U	<0.63 U	<2.2 U	<2.2 U	<0.63 U	<2.2 U	<2.2 U	<2.2 U	<2.2 U
1,2,3-Trichloropropane	µg/L	12	**60**	<2.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.45 U	<0.50 U	<0.50 U	<0.59 U	<0.59 U	<0.59 U	<0.59 U	<0.59 U	<0.59 U	<0.59 U	<0.59 U
1,2,4-Trichlorobenzene	µg/L	14	**70**	<2.50 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.31 U	<2.2 U	<2.2 U	<0.95 U	<0.95 U	<0.95 U	<0.95 U	<0.95 U	<0.95 U	<0.95 U	<0.95 U
1,2-Dibromo-3-chloropropane	µg/L	0.02	**0.2**	<2.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.87 U	<2.2 U	<2.2 U	<1.8 U	<1.8 U	<1.8 U	<1.8 U	<1.8 U	<1.8 U	<1.8 U	<1.8 U
1,2-Dibromoethane	µg/L	0.005	**0.05**	<2.50 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.36 U	<0.18 U	<0.18 U	<0.83 U	<0.83 U	<0.83 U	<0.83 U	<0.83 U	<0.83 U	<0.83 U	<0.83 U
1,2-Dichlorobenzene	µg/L	60	**600**	<2.50 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.27 U	<0.50 U	<0.50 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U
1,2-Dichloroethane	µg/L	0.5	**5**	<2.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.28 U	<0.17 U	<0.17 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U
1,2-Dichloropropane	µg/L	0.5	**5**	<2.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.2 U	<0.23 U	<0.23 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U
1,2,4-Trimethylbenzene	µg/L	NS	**NS**	<1 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.14 U	<0.50 U	<0.50 U	<0.84 U	<0.84 U	<0.84 U	<0.84 U	<0.84 U	<0.84 U	<0.84 U	<0.84 U
1,3,5-Trimethylbenzene	µg/L	NS	**NS**	<1.0 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.18 U	<0.50 U	<0.50 U	<0.87 U	<0.87 U	<0.87 U	<0.87 U	<0.87 U	<0.87 U	<0.87 U	<0.87 U
Trimethylbenzenes, Total [3]	µg/L	96	**480**	1 B	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.32 U	<1 U	<1 U	<1.71 U	<1.71 U	<1.71 U	<1.71 U	<1.71 U	<1.71 U	<1.71 U	<1.71 U
1,3-Dichlorobenzene	µg/L	120	**600**	<2.50 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.15 U	<0.50 U	<0.50 U	<0.63 U	<0.63 U	<0.63 U	<0.63 U	<0.63 U	<0.63 U	<0.63 U	<0.63 U
1,3-Dichloropropane	µg/L	NS	**NS**	<2.50 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.13 U	<0.50 U	<0.50 U	<0.83 U	<0.83 U	<0.83 U	<0.83 U	<0.83 U	<0.83 U	<0.83 U	<0.83 U
1,4-Dichlorobenzene	µg/L	15	**75**	<2.50 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.5 U	<0.15 U	<0.50 U	<0.50 U	<0.94 U	<0.94 U	<0.94 U	<0.94 U	<0.94 U	<0.94 U	<0.94 U	<0.94 U
2,2-Dichloropropane	µg/L	NS	**NS**	<2.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.32 U	<0.48 U	<0.48 U	<2.3 U	<2.3 U	<2.3 U	<2.3 U	<2.3 U	<2.3 U	<2.3 U	<2.3 U
2,3-Dichloropropene	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	µg/L	NS	**NS**	<1.0 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.21 U	<0.50 U	<0.50 U	<0.93 U	<0.93 U	<0.93 U	<0.93 U	<0.93 U	<0.93 U	<0.93 U	<0.93 U
4-Chlorotoluene	µg/L	NS	**NS**	<2.50 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.21 U	<0.76 U	<0.76 U	<0.76 U	<0.76 U	<0.76 U	<0.76 U	<0.76 U	<0.76 U
4-Isopropyltoluene	µg/L	NS	**NS**	<2.50 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.17 U	<0.50 U	<0.50 U	<0.80 U	<0.80 U	<0.80 U	<0.80 U	<0.80 U	<0.80 U	<0.80 U	<0.80 U
Bromobenzene	µg/L	NS	**NS**	<2.50 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.25 U	<0.23 U	<0.23 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U
Bromochloromethane	µg/L	NS	**NS**	<2.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.4 U	<0.34 U	<0.34 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U
Bromodichloromethane	µg/L	0.06	**0.6**	<2.50 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.17 U	<0.50 U	<0.50 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U
Bromoform	µg/L	0.44	**4.4**	<2.50 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.28 U	<0.50 U	<0.50 U	<4.0 U	<4.0 U	<4.0 U	<4.0 U	<4.0 U	<4.0 U	<4.0 U	<4.0 U
Bromomethane	µg/L	1	**10**	<2.50 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.5 U	<0.31 U	<2.4 U	<2.4 U	<0.97 U	<0.97 U	<0.97 U	<0.97 U	<0.97 U	<0.97 U	<0.97 U	<0.97 U
Carbon Tetrachloride	µg/L	0.5	**5**	<2.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.26 U	<0.50 U	<0.50 U	<0.17 U	<1.1 U	<1.1 U	<0.17 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U
Chlorobenzene	µg/L	NS	**NS**	<2.50 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.14 U	<0.50 U	<0.50 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U
Chloroethane	µg/L	80	**400**	<2.50 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<0.34 U	<0.37 U	<0.37 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U
Chloroform	µg/L	0.6	**6**	<2.50 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<2.5 U	<2.5 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U
Chloromethane	µg/L	3	**30**	<2.50 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.3 U	<0.3 U	<0.18 U	<0.50 U	<0.50 U	<2.2 U	<2.2 U	<2.2 U	<2.2 U	<2.2 U	<2.2 U	<2.2 U	<2.2 U
cis-1,2-Dichloroethene	µg/L	7	**70**	<2.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.12 U	<0.26 U	<0.26 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U
cis-1,3-Dichloropropene	µg/L	NS	**NS**	<2.50 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.18 U	<0.50 U	<0.50 U	<3.6 U	<3.6 U	<3.6 U	<3.6 U	<3.6 U	<3.6 U	<3.6 U	<3.6 U
trans-1,3-Dichloropropene	µg/L	NS	**NS**	<2.50 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.23 U	<0.23 U	<4.4 U	<4.4 U	<4.4 U	<4.4 U	<4.4 U	<4.4 U	<4.4 U	<4.4 U
1,3-Dichloropropene [4]	µg/L	0.04	**0.4**	<5 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.39 U	<0.73 U	<0.73 U	<8 U	<8 U	<8.0 U	<8 U	<8 U	<8 U	<8 U	<8.0 U
Dibromochloromethane	µg/L	6	**60**	<2.50 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.32 U	<0.50 U	<0.50 U	<2.6 U	<2.6 U	<2.6 U	<2.6 U	<2.6 U	<2.6 U	<2.6 U	<2.6 U
Dibromomethane	µg/L	NS	**NS**	<2.50 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.33 U	<0.43 U	<0.43 U	<0.94 U	<0.94 U	<0.94 U	<0.94 U	<0.94 U	<0.94 U	<0.94 U	<0.94 U
Freon 12	µg/L	200	**1,000**	<2.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.2 U	<0.22 U	<0.22 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Hexachlorobutadiene	µg/L	NS	**NS**	<2.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.26 U	<2.1 U	<2.1 U	<1.2 U	<1.5 U	<1.5 U	<1.2 U	<1.5 U	<1.5 U	<1.5 U	<1.5 U
Isopropyl ether	µg/L	NS	**NS**	<2.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.15 U	<0.50 U	<0.50 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U
Isopropylbenzene	µg/L	NS	**NS**	<2.50 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.14 U	<0.14 U	<0.14 U	<0.39 U	<1.7 U	<1.7 U	<0.39 U	<1.7 U	<1.7 U	<1.7 U	<1.7 U
Methylene chloride (DCM)	µg/L	0.5	**5**	<2.50 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	**1.9**	<1 U	<1 U	<1 U	<1 U	<1 U	<0.68 U	<0.23 U	<0.23 U	<0.58 U	<0.58 U	<0.58 U	<0.58 U	<0.58 U	<0.58 U	<0.58 U	<0.58 U
Methyl-tert-butyl-ether	µg/L	12	**60**	<2.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.24 U	<0.17 U	<0.17 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U
Naphthalene	µg/L	10	**100**	<2.5 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	0.27	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	0.82 J	0.27 J	<0.25 U	<0.16 U	<2.5 U	<2.5 U	<1.2 U	<1.2 U	<1.2 U	2.9 J	1.3 J	1.4 J	<1.2 U
n-Butylbenzene	µg/L	NS	**NS**	<2.50 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.13 U	<0.50 U	<0.50 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U
n-Propylbenzene	µg/L	NS	**NS**	<2.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.13 U	<0.50 U	<0.50 U	<0.81 U	<0.81 U	<0.81 U	<0.81 U	<0.81 U	<0.81 U	<0.81 U	<0.81 U
sec-Butylbenzene	µg/L	NS	**NS**	<2.50 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.15 U	<2.2 U	<2.2 U	<0.85 U	<0.85 U	<0.85 U	<0.85 U	<0.85 U	<0.85 U	<0.85 U	<0.85 U
Styrene	µg/L	10	**100**	<2.50 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.5 U	<0.1 U	<0.50 U	<0.50 U	<0.47 U	<3.0 U	<3.0 U	<0.47 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U
tert-Butylbenzene	µg/L	NS	**NS**	<2.50 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.14 U	<0.18 U	<0.18 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
Tetrachloroethene	µg/L	0.5	**5**	<2.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	**4.6**	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.17 U	<0.50 U	<0.50 U	<0.33 U	<0.33 U	<0.33 U	<0.33 U	<0.33 U	<0.33 U	<0.33 U	<0.33 U
trans-1,2-Dichloroethene	µg/L	20	**100**	<2.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.25 U	<0.26 U	<0.26 U	<1.1 U	<0.46 U	<0.46 U	<1.1 U	<0.46 U	<0.46 U	<0.46 U	<0.46 U
Trichloroethene	µg/L	0.5	**5**	<2.50 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.19 U	<0.33 U	<0.33 U	<0.26 U	<0.26 U	<0.26 U	<0.26 U	<0.26 U	<0.26 U	<0.26 U	<0.26 U
Trichlorofluoromethane	µg/L	NS	**NS**	<2.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.19 U	<0.18 U	<0.18 U	<0.21 U	<0.21 U	<0.21 U	<0.21 U	<0.21 U	<0.21 U	<0.21 U	<0.21 U
Vinyl Chloride	µg/L	0.02	**0.2**	<2.50 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.1 U	<0.18 U	<0.18 U	**0.40** J	<0.17 U	<0.17 U	<0.17 U	<0.17 U	<0.17 U	<0.17 U	<0.17 U

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:	Units	WI GW PAL	WI GW ES	W-45D																					W-45DL			
Depth Unit:				Clay																					Lower Shallow			
Sample Date (m/d/yyyy):				6/19/2002	11/24/2003	3/10/2004	6/8/2004	9/9/2004	12/10/2004	3/21/2005	9/23/2005	3/21/2006	9/28/2006	3/27/2007	9/18/2007	3/25/2008	9/4/2008	3/24/2009	8/25/2015	8/22/2016	2/27/2017	12/17/2019	5/11/2020	12/14/2020	2/12/2020	5/11/2020	5/11/2020 (Dup)	12/14/2020
PAHs																												
1-Methylnaphthalene	µg/L	NS	**NS**	<0.60 U	<0.44 U	<0.45 U	<0.45 U	<0.32 U	<0.35 U	<0.32 U	<0.32 U	<0.32 U	<0.33 U	<0.33 U	<0.34 U	<0.33 U	<0.32 U	<0.33 U	--	<0.0031 U	0.0064 J	<0.0063 U	<0.0058 U	<0.0061 U	0.087	0.086	0.056	0.028 J
2-Methylnaphthalene	µg/L	NS	**NS**	<0.57 U	4.1	<0.31 U	<0.31 U	<0.31 U	<0.34 U	<0.31 U	<0.31 U	<0.31 U	<0.32 U	<0.32 U	<0.33 U	<0.32 U	<0.31 U	<0.32 U	--	0.0032 J	0.0086 J	<0.0053 U	<0.0048 U	<0.0051 U	0.026	0.026 J	0.017 J	<0.0049 U
Acenaphthene	µg/L	NS	**NS**	<0.51 U	9.7	<0.59 U	<0.59 U	<0.33 U	<0.36 U	<0.33 U	<0.33 U	<0.33 U	<0.34 U	<0.34 U	<0.35 U	<0.34 U	<0.33 U	<0.34 U	<0.27 U	<0.0049 U	<0.0058 U	<0.0065 U	0.0062 J	<0.0063 U	0.089	0.074	0.049	0.027 J
Acenaphthylene	µg/L	NS	**NS**	<0.23 U	1.1	<0.26 U	<0.26 U	<0.70 U	<0.76 U	<0.70 U	<0.69 U	<0.7 U	<0.71 U	<0.71 U	<0.73 U	<0.71 U	<0.69 U	<0.72 U	<0.23 U	<0.0049 U	<0.0048 U	<0.0054 U	<0.0049 U	<0.0052 U	<0.0050 U	<0.0055 U	<0.0057 U	<0.0050 U
Anthracene	µg/L	600	**3,000**	<0.092 U	0.17	<0.035 U	<0.035 U	<0.038 U	<0.042 U	<0.038 U	<0.038 U	<0.038 U	<0.039 U	<0.039 U	<0.04 U	<0.039 U	<0.038 U	<0.04 U	<0.29 U	<0.0040 U	<0.010 U	<0.011 U	<0.010 U	0.013 J	<0.010 U	<0.012 U	<0.012 U	<0.010 U
Benzo(a)anthracene	µg/L	NS	**NS**	<0.16 U	<0.056 U	<0.057 U	<0.057 U	<0.044 U	<0.048 U	<0.044 U	<0.044 U	<0.044 U	<0.045 U	<0.045 U	<0.046 U	<0.045 U	<0.044 U	<0.046 U	<0.049 U	<0.0051 U	0.014 J	<0.0081 U	0.049	<0.0079 U	<0.0076 U	<0.0084 U	<0.0087 U	<0.0076 U
Benzo(a)pyrene	µg/L	0.02	**0.2**	<0.016 U	<0.033 U	<0.034 U	<0.034 U	<0.032 U	<0.035 U	<0.032 U	<0.032 U	<0.032 U	<0.033 U	<0.033 U	<0.034 U	<0.033 U	<0.032 U	<0.033 U	<0.085 U	<0.0044 U	0.017 J	<0.011 U	0.084	<0.011 U	<0.011 U	<0.012 U	<0.012 U	<0.011 U
Benzo(b)fluoranthene	µg/L	0.02	**0.2**	<0.047 U	<0.053 U	<0.054 U	<0.054 U	<0.099 U	<0.110 U	<0.099 U	<0.098 U	<0.099 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.098 U	<0.1 U	<0.069 U	<0.0053 U	0.055	<0.0062 U	**0.20**	0.020 J	<0.0057 U	<0.0064 U	<0.0066 U	<0.0057 U
Benzo(g,h,i)perylene	µg/L	NS	**NS**	<0.18 U	<0.096 U	<0.098 U	<0.098 U	<0.12 U	<0.13 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U	<0.13 U	<0.12 U	<0.12 U	<0.12 U	<0.32 U	<0.0035 U	0.023 J	<0.0073 U	0.12	0.013 J	<0.0068 U	<0.0075 U	<0.0078 U	<0.0068 U
Benzo(k)fluoranthene	µg/L	NS	**NS**	<0.029 U	<0.045 U	<0.046 U	<0.046 U	<0.049 U	<0.054 U	<0.049 U	<0.049 U	<0.049 U	<0.051 U	<0.051 U	<0.052 U	<0.051 U	<0.049 U	<0.051 U	<0.055 U	<0.0056 U	0.019 J	<0.0081 U	0.086	<0.0079 U	<0.0076 U	<0.0084 U	<0.0087 U	<0.0076 U
Chrysene	µg/L	0.02	**0.2**	<0.037 U	<0.049 U	<0.050 U	<0.050 U	<0.041 U	<0.045 U	<0.041 U	<0.041 U	<0.041 U	<0.042 U	<0.042 U	<0.043 U	<0.042 U	<0.041 U	<0.043 U	<0.059 U	0.0049 J	0.045 J	<0.014 U	0.18	0.021 J	<0.013 U	<0.014 U	<0.015 U	<0.013 U
Dibenz(a,h)anthracene	µg/L	NS	**NS**	<0.088 U	<0.064 U	<0.065 U	<0.065 U	<0.13 U	<0.14 U	<0.13 U	<0.13 U	<0.13 U	<0.13 U	<0.13 U	<0.14 U	<0.13 U	<0.13 U	<0.14 U	<0.044 U	<0.0055 U	<0.0096 U	<0.011 U	0.012 J	<0.010 U	<0.010 U	<0.011 U	<0.012 U	<0.010 U
Fluoranthene	µg/L	80	**400**	<0.13 U	0.63	<0.024 U	<0.024 U	<0.082 U	<0.089 U	<0.082 U	<0.081 U	<0.082 U	<0.084 U	<0.084 U	<0.085 U	0.12 J	<0.081 U	<0.084 U	<0.39 U	<0.0093 U	0.033 J	<0.011 U	0.34	0.047 J	<0.011 U	<0.012 U	<0.012 U	<0.011 U
Fluorene	µg/L	80	**400**	<0.17 U	<0.064 U	<0.065 U	<0.065 U	<0.063 U	<0.068 U	<0.063 U	<0.062 U	<0.063 U	<0.064 U	<0.064 U	<0.065 U	<0.064 U	<0.062 U	<0.065 U	<0.21 U	<0.0040 U	<0.0077 U	<0.0086 U	<0.0078 U	<0.0083 U	0.0099 J	0.0099 J	<0.0092 U	<0.0080 U
Indeno(1,2,3-cd)pyrene	µg/L	NS	**NS**	<0.036 U	<0.031 U	<0.032 U	<0.032 U	<0.063 U	<0.068 U	<0.063 U	<0.062 U	<0.063 U	<0.064 U	<0.064 U	<0.065 U	<0.064 U	<0.062 U	<0.065 U	<0.064 U	<0.0035 U	0.023 J	<0.019 U	0.088	<0.018 U	<0.018 U	<0.020 U	<0.020 U	<0.018 U
Naphthalene	µg/L	10	**100**	<0.67 U	0.69	<0.27 U	<0.27 U	<0.4 U	<0.44 U	<0.4 U	<0.4 U	<0.4 U	<0.41 U	<0.41 U	<0.42 U	0.46 J	<0.4 U	<0.42 U	<0.27 U	0.0063 J	<0.018 U	<0.020 U	<0.018 U	<0.019 U	1.1	1.2	0.82	0.46
Phenanthrene	µg/L	NS	**NS**	<0.023 U	<0.02 U	<0.02 U	<0.02 U	<0.03 U	<0.033 U	<0.03 U	<0.03 U	<0.03 U	<0.031 U	<0.031 U	<0.032 U	<0.031 U	<0.03 U	<0.031 U	<0.26 U	<0.0076 U	0.019 J	<0.015 U	0.077	<0.014 U	0.016 J	0.015 J	<0.016 U	<0.014 U
Pyrene	µg/L	50	**250**	<0.014 U	0.24	<0.041 U	<0.041 U	<0.044 U	<0.048 U	<0.044 U	<0.044 U	<0.044 U	<0.045 U	<0.045 U	<0.046 U	0.078 J	<0.044 U	<0.046 U	<0.37 U	0.0093 JB	0.031 J	0.010 J	0.25	0.039 J	0.0091 J	<0.0085 U	<0.0088 U	<0.0076 U
Total PAH (16) [5]	µg/L	NS	**NS**	<0.67 U	12.53	<0.59 U	<0.59 U	<0.7 U	<0.76 U	<0.7 U	<0.69 U	<0.7 U	<0.71 U	<0.71 U	<0.73 U	0.658	<0.69 U	<0.72 U	<0.39	0.0205	0.279	0.01	1.4922	0.153	1.224	1.2989	0.869	0.487
Petroleum Hydrocarbons																												
Diesel Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals																												
Iron, Total	µg/L	150	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**23,000**	--	--	--	--	--	--	--	--	--	--
Cyanide																												
Cyanide DISS (amenable)	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide DISS, total	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide, Amenable	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide, Total	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lab MNA Parameters																												
Carbon Dioxide	µg/L	NS	**NS**	380,000	400,000	--	--	320,000	--	380,000	320,000	370,000	310,000	390,000	320,000	--	350,000	400,000	300,000	--	--	--	--	--	--	--	--	--
Carbon monoxide	mg/L	10,000	**10,000**	<0.4 U	<0.4 U	--	--	--	--	--	--	--	<1 U	<1 U	<1 U	--	<1 U	--	--	--	--	--	--	--	--	--	--	--
Ethane	µg/L	NS	**NS**	0.210	0.200	--	--	0.058	--	<0.005 U	0.26	0.36	0.25	0.36	0.23	0.15	0.04	0.088	4.3	--	--	--	--	--	--	--	--	--
Ethene	µg/L	NS	**NS**	0.0092	0.0067	--	--	<0.0050 U	--	<0.005 U	<0.025 U	0.03	<0.025 U	<0.025 U	<0.025 U	0.18	<0.025 U	<0.025 U	6.3	--	--	--	--	--	--	--	--	--
Iron, Dissolved	µg/L	150	**300**	--	**25,000**	**20,000**	--	**17,000**	--	**21,000**	**27,000**	**6,100**	**28,000**	**22,000**	**15,000**	**9,100**	**26,000**	--	**27,000**	**30,200**	--	**12,500**	--	--	**22,600**	--	--	--
Manganese, Dissolved	µg/L	60	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**379**	--	48.4	--	--	**372**	--	--	--
Methane	µg/L	NS	**NS**	19,000	22,000	--	--	16,000	--	29,000	23,000	30,000	22,000	29,000	22,000	13,000	21,000	25,000	18,000	20,600	--	--	--	--	10,700	--	--	--
Nitrogen, NO2 + NO3, Total	µg/L	2,000	**10,000**	150	78	130	--	130	--	410	630 B	250 J	<100 U	560	<100 U	<100 U	<100 U	<100 U	45 J	<95 U	--	<59 U	--	--	170 J	--	--	--
Nitrogen	µg/L	NS	**NS**	6,900	2,600	--	--	--	--	--	--	--	1,800	3,800	3,000	--	--	1,900	9,400	--	--	--	--	--	--	--	--	--
Oxygen	µg/L	NS	**NS**	300	<150 U	--	--	--	--	--	--	--	<500 U	920	760	--	680	<500 U	2,100	--	--	--	--	--	--	--	--	--
Sulfate, Total	µg/L	125,000	**250,000**	4,000	<2,000 U	12,000	--	16,000	--	20,000	85,000	<10,000 U	<10,000 U	4,620 B,	<250 U	77,000	1,700 J	<1,500 U	7,400 B	<10,000 U	--	12,200	--	--	<2,200 U	--	--	--
Field Parameters																												
Dissolved oxygen	mg/L	NS	**NS**	--	0.02	0.14	0.52	0.17	0.14	0.07	0.16	0.4	0.21	0.31	0.16	0.09	0.39	0.32	--	0.11	0.16	0.16	0.09	0.12	0.05	0.10	0.10	0.07
Groundwater, depth to	feet	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.42	7.27	6.17	6.25	6.53	6.74	6.54	6.54	6.61
Oxidation Reduction Potential	millivolts	NS	**NS**	--	-148.2	-117.1	-133.6	-117	-146.5	-161.8	-105.7	-156.9	-150.5	-93.5	-111.4	-70.2	-69.1	-186.8	--	-157	-129	-69.7	-193.6	-81.2	-200.7	-116.7	-116.7	-84.4
pH, Field	s.u.	NS	**NS**	--	6.73	6.68	6.77	7.61	6.67	6.79	6.45	6.76	6.73	6.3	6.52	6.67	6.71	6.5	--	7.00	6.73	6.58	6.67	6.79	6.69	6.66	6.66	6.77
Specific Conductance, Field	µS/cm	NS	**NS**	--	1,802	1,842	1,657	1,796	1,554	1,740	1,873	1,917	1,791	1,822	1,730	7,953	1,711	3,164	--	1.99	1,940	442.6	2080.5	1817.9	1978.6	1100.8	1100.8	134.3
Temperature, Water	Deg C	NS	**NS**	--	11.97	11.69	12.02	11.85	12.32	11.78	11.87	11.84	11.8	11.79	11.93	11.81	11.32	11.79	--	15.35	11.15	12.05	11.04	10.74	7.91	10.42	10.42	10.34
Turbidity, Quantitative	NTUs	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	37.6	0.0	128.91	81.82	0.00	27.95	7.19	7.19	14.97

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:				W-45S																										
Depth Level Unit:				Upper Shallow/Lower Shallow																										
Sample Date (m/d/yyyy):	Units	WI GW PAL	WI GW ES	12/28/2001	6/20/2002	11/25/2003	3/10/2004	6/8/2004	9/10/2004	12/10/2004	3/21/2005	9/21/2005	3/23/2006	9/29/2006	3/28/2007	9/20/2007	3/26/2008	3/28/2008	9/9/2008	3/27/2009	8/25/2015	8/22/2016	2/27/2017	12/17/2019	12/17/2019 (Dup)	5/11/2020	12/14/2020
BTEX																														
Benzene	µg/L	0.5	**5**	**25**	**34**	**20**	**28**	**26**	**42**	**34**	**29**	**34**	**59**	**39**	**43**	**33**	<0.2 U	--	**39**	**29**	**16**	**16**	**13.5**	**3.9**	**1.5**	**9.5**	**1.9**
Ethylbenzene	µg/L	140	**700**	28	25	11	<16.0 U	<10.0 U	<50.0 U	<20.0 U	8.3	<12 U	<20 U	9.3 J	<16 U	6.9 J	<0.5 U	--	6.8	8.6 J	2.3	1.7 J	<1.2 U	<0.22 U	<0.22 U	0.78 J	<0.32 U
Toluene	µg/L	160	**800**	0.37	<5.0 U	<0.8 U	<6.4 U	<4.0 U	<20.0 U	<8.0 U	0.28	<5 U	<8 U	<3.2 U	<6.4 U	<2 U	<0.2 U	--	<0.5 U	<4 U	<0.11 U	<1.0 U	<1.2 U	<0.17 U	<0.17 U	0.30 J	<0.27 U
Xylene, o	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.8	3.9	1.3	0.64 J	3.2	0.61 J
Xylenes, m + p	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.0 U	<2.5 U	<0.47 U	<0.47 U	<0.47 U	<0.47 U
Xylenes, Total [1]	µg/L	400	**2,000**	26	28	19	20	16	<50.0 U	<20.0 U	20	15 J	21 J	29	32 J	31	<0.5 U	--	34	49	5.8	4.8	3.9	1.3	0.64	3.2	0.61
Total BTEX [2]	µg/L	NS	**NS**	79.37	87	50	48	42	42	34	57.58	49	80	77.3	75	70.9	<1.4 U	--	79.8	86.6	24.1	22.5	17.4	5.2	2.14	13.78	2.5
VOCs																														
1,1,1,2-Tetrachloroethane	µg/L	7	**70**	<0.25 U	<12.00 U	<1.00 U	<8.00 U	<0.25 U	<25.00 U	<10.00 U	<0.25 U	<6.2 U	<10 U	<4 U	<8 U	<2.5 U	<0.25 U	--	<0.25 U	<2 U	<0.25 U	<0.36 U	<0.45 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U
1,1,1-Trichloroethane	µg/L	40	**200**	<0.25 U	<12.00 U	<2.0 U	<16.0 U	<0.5 U	<50.0 U	<20.0 U	<0.5 U	<12 U	<20 U	<8 U	<16 U	<5 U	<0.5 U	--	<0.5 U	<4 U	<0.2 U	<1.0 U	<1.2 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.02	**0.2**	<0.25 U	<12.00 U	<0.8 U	<6.4 U	<0.2 U	<20.0 U	<8.0 U	<0.2 U	<5 U	<8 U	<3.2 U	<6.4 U	<2 U	<0.2 U	--	<0.2 U	<1.6 U	<0.23 U	<0.50 U	<0.62 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U
1,1,2-Trichloroethane	µg/L	0.5	**5**	<0.25 U	<12.00 U	<1.00 U	<8.00 U	<0.25 U	<25.00 U	<10.00 U	<0.25 U	<6.2 U	<10 U	<4 U	<8 U	<2.5 U	<0.25 U	--	<0.25 U	<2 U	<0.28 U	<0.39 U	<0.49 U	<0.55 U	<0.55 U	<0.55 U	<0.55 U
1,1-Dichloroethane	µg/L	85	**850**	<0.25 U	<12.00 U	<2.0 U	<16.0 U	<0.5 U	<50.0 U	<20.0 U	<0.5 U	<12 U	<20 U	<8 U	<16 U	<5 U	<0.5 U	--	<0.5 U	<4 U	<0.19 U	<0.48 U	<0.60 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U
1,1-Dichloroethene	µg/L	0.7	**7**	<0.25 U	<12.00 U	<2.0 U	<16.0 U	<0.5 U	<50.0 U	<20.0 U	<0.5 U	<12 U	<20 U	<8 U	<16 U	<5 U	<0.5 U	--	<0.5 U	<4 U	<0.31 U	<0.82 U	<1.0 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U
1,1-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<12.00 U	<2.0 U	<16.0 U	<0.5 U	<50.0 U	<20.0 U	<0.5 U	<12 U	<20 U	<8 U	<16 U	<5 U	<0.5 U	--	<0.5 U	<4 U	<0.34 U	<0.88 U	<1.1 U	<0.54 U	<0.54 U	<0.54 U	<0.54 U
1,2,3-Trichlorobenzene	µg/L	NS	**NS**	<0.25 U	<12.00 U	<1.00 U	<8.00 U	<0.25 U	<25.00 U	<10.00 U	<0.25 U	<6.2 U	<10 U	<4 U	<8 U	<2.5 U	<0.25 U	--	<0.25 U	<2 U	<0.24 U	<4.3 U	<5.3 U	<0.63 U	<0.63 U	<2.2 U	<2.2 U
1,2,3-Trichloropropane	µg/L	12	**60**	<0.25 U	<12.00 U	<2.0 U	<16.0 U	<0.5 U	<50.0 U	<20.0 U	<0.5 U	<12 U	<20 U	<8 U	<16 U	<5 U	<0.5 U	--	<0.5 U	<4 U	<0.45 U	<1.0 U	<1.2 U	<0.59 U	<0.59 U	<0.59 U	<0.59 U
1,2,4-Trichlorobenzene	µg/L	14	**70**	<0.25 U	<12.00 U	<1.00 U	<8.00 U	<0.25 U	<25.00 U	<10.00 U	<0.25 U	<6.2 U	<10 U	<4 U	<8 U	<2.5 U	<0.25 U	--	<0.25 U	<2 U	<0.31 U	<4.4 U	<5.5 U	<0.95 U	<0.95 U	<0.95 U	<0.95 U
1,2-Dibromo-3-chloropropane	µg/L	0.02	**0.2**	<0.25 U	<12.00 U	<2.0 U	<16.0 U	<0.5 U	<50.0 U	<20.0 U	<0.5 U	<12 U	<20 U	<8 U	<16 U	<5 U	<0.5 U	--	<0.5 U	<4 U	<0.87 U	<4.3 U	<5.4 U	<1.8 U	<1.8 U	<1.8 U	<1.8 U
1,2-Dibromoethane	µg/L	0.005	**0.05**	<0.25 U	<12.00 U	<0.8 U	<6.4 U	<0.2 U	<20.0 U	<8.0 U	<0.2 U	<5 U	<8 U	<3.2 U	<6.4 U	<2 U	<0.2 U	--	<0.2 U	<1.6 U	<0.36 U	<0.36 U	<0.44 U	<0.83 U	<0.83 U	<0.83 U	<0.83 U
1,2-Dichlorobenzene	µg/L	60	**600**	<0.25 U	<12.00 U	<0.8 U	<6.4 U	<0.2 U	<20.0 U	<8.0 U	<0.2 U	<5 U	<8 U	<3.2 U	<6.4 U	<2 U	<0.2 U	--	<0.2 U	<1.6 U	<0.27 U	<1.0 U	<1.2 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U
1,2-Dichloroethane	µg/L	0.5	**5**	<0.25 U	<12.00 U	<2.0 U	<16.0 U	<0.5 U	<50.0 U	<20.0 U	<0.5 U	<12 U	<20 U	<8 U	<16 U	<5 U	<0.5 U	--	<0.5 U	<4 U	<0.28 U	<0.34 U	<0.42 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U
1,2-Dichloropropane	µg/L	0.5	**5**	<0.25 U	<12.00 U	<2.0 U	<16.0 U	<0.5 U	<50.0 U	<20.0 U	<0.5 U	<12 U	<20 U	<8 U	<16 U	<5 U	<0.5 U	--	<0.5 U	<4 U	<0.2 U	<0.47 U	<0.58 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U
1,2,4-Trimethylbenzene	µg/L	NS	**NS**	12	12	7.5	10	7.8	<20.0 U	9.2	7.6	7 J	10 J	9 J	11 J	7.7	<0.2 U	--	5.6	9.6	2.3	1.8 J	1.3 J	<0.84 U	<0.84 U	<0.84 U	<0.84 U
1,3,5-Trimethylbenzene	µg/L	NS	**NS**	0.26	<5.0 U	<0.8 U	<6.4 U	<0.2 U	<20.0 U	<8.0 U	<0.2 U	<5 U	<8 U	<3.2 U	<6.4 U	<2 U	<0.2 U	--	<0.2 U	5 J	<0.18 U	<1.0 U	<1.2 U	<0.87 U	<0.87 U	<0.87 U	<0.87 U
Trimethylbenzenes, Total [3]	µg/L	96	**480**	12.26	12	7.5	10	7.8	<40 U	9.2	7.6	7 J	10 J	9 J	11 J	7.7	<0.4 U	--	5.6	14.6 J	2.3	1.8 J	1.3	<1.71 U	<1.71 U	<1.71 U	<1.71 U
1,3-Dichlorobenzene	µg/L	120	**600**	<0.25 U	<12.00 U	<0.8 U	<6.4 U	<0.2 U	<20.0 U	<8.0 U	<0.2 U	<5 U	<8 U	<3.2 U	<6.4 U	<2 U	<0.2 U	--	<0.2 U	<1.6 U	<0.15 U	<1.0 U	<1.2 U	<0.63 U	<0.63 U	<0.63 U	<0.63 U
1,3-Dichloropropane	µg/L	NS	**NS**	<0.25 U	<12.00 U	<1.00 U	<8.00 U	<0.25 U	<25.00 U	<10.00 U	<0.25 U	<6.2 U	<10 U	<4 U	<8 U	<2.5 U	<0.25 U	--	<0.25 U	<2 U	<0.13 U	<1.0 U	<1.2 U	<0.83 U	<0.83 U	<0.83 U	<0.83 U
1,4-Dichlorobenzene	µg/L	15	**75**	<0.25 U	<12.00 U	<0.8 U	<6.4 U	<0.2 U	<20.0 U	<8.0 U	<0.2 U	<5 U	<8 U	<3.2 U	<6.4 U	<2 U	<0.2 U	--	<0.5 U	<4 U	<0.15 U	<1.0 U	<1.2 U	<0.94 U	<0.94 U	<0.94 U	<0.94 U
2,2-Dichloropropane	µg/L	NS	**NS**	<0.25 U	<12.00 U	<2.0 U	<16.0 U	<0.5 U	<50.0 U	<20.0 U	<0.5 U	<12 U	<20 U	<8 U	<16 U	<5 U	<0.5 U	--	<0.5 U	<4 U	<0.32 U	<0.97 U	<1.2 U	<2.3 U	<2.3 U	<2.3 U	<2.3 U
2,3-Dichloropropene	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	<8 U	<2.5 U	<0.25 U	--	<0.25 U	<2 U	--	--	--	--	--	--	--
2-Chlorotoluene	µg/L	NS	**NS**	<0.1 U	<5.0 U	<2.0 U	<16.0 U	<0.5 U	<50.0 U	<20.0 U	<0.5 U	<12 U	<20 U	<8 U	<16 U	<5 U	<0.5 U	--	<0.5 U	<4 U	<0.21 U	<1.0 U	<1.2 U	<0.93 U	<0.93 U	<0.93 U	<0.93 U
4-Chlorotoluene	µg/L	NS	**NS**	<0.25 U	<12.00 U	<0.8 U	<6.4 U	<0.2 U	<20.0 U	<8.0 U	<0.2 U	<5 U	<8 U	<3.2 U	<6.4 U	<2 U	<0.2 U	--	<0.2 U	<1.6 U	<0.2 U	<0.43 U	<0.53 U	<0.76 U	<0.76 U	<0.76 U	<0.76 U
4-Isopropyltoluene	µg/L	NS	**NS**	<0.25 U	<12.00 U	<0.8 U	<6.4 U	<0.2 U	<20.0 U	<8.0 U	<0.2 U	<5 U	<8 U	<3.2 U	<6.4 U	<2 U	<0.2 U	--	0.21 J	<1.6 U	<0.17 U	<1.0 U	<1.2 U	<0.80 U	<0.80 U	<0.80 U	<0.80 U
Bromobenzene	µg/L	NS	**NS**	<0.25 U	<12.00 U	<0.8 U	<6.4 U	<0.2 U	<20.0 U	<8.0 U	<0.2 U	<5 U	<8 U	<3.2 U	<6.4 U	<2 U	<0.2 U	--	<0.2 U	<1.6 U	<0.25 U	<0.46 U	<0.58 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U
Bromochloromethane	µg/L	NS	**NS**	<0.25 U	<12.00 U	<2.0 U	<16.0 U	<0.5 U	<50.0 U	<20.0 U	<0.5 U	<12 U	<20 U	<8 U	<16 U	<5 U	<0.5 U	--	<0.5 U	<4 U	<0.4 U	<0.68 U	<0.85 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U
Bromodichloromethane	µg/L	0.06	**0.6**	<0.25 U	<12.00 U	<0.8 U	<6.4 U	<0.2 U	<20.0 U	<8.0 U	<0.2 U	<5 U	<8 U	<3.2 U	<6.4 U	<2 U	<0.2 U	--	<0.2 U	<1.6 U	<0.17 U	<1.0 U	<1.2 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U
Bromoform	µg/L	0.44	**4.4**	<0.25 U	<12.00 U	<0.8 U	<6.4 U	<0.2 U	<20.0 U	<8.0 U	<0.2 U	<5 U	<8 U	<3.2 U	<6.4 U	<2 U	<0.2 U	--	<0.2 U	<1.6 U	<0.28 U	<1.0 U	<1.2 U	<4.0 U	<4.0 U	<4.0 U	<4.0 U
Bromomethane	µg/L	1	**10**	<0.25 U	**16** B	<0.8 U	<6.4 U	<0.2 U	<20.0 U	<8.0 U	<0.2 U	<5 U	<8 U	<4 U	<6.4 U	<2 U	<0.2 U	--	<0.5 U	<4 U	<0.31 U	<4.9 U	<6.1 U	<0.97 U	<0.97 U	<0.97 U	<0.97 U
Carbon Tetrachloride	µg/L	0.5	**5**	<0.25 U	<12.00 U	<2.0 U	<16.0 U	<0.5 U	<50.0 U	<20.0 U	<0.5 U	<12 U	<20 U	<8 U	<16 U	<5 U	<0.5 U	--	<0.5 U	<4 U	<0.26 U	<1.0 U	<1.2 U	<0.17 U	<0.17 U	<1.1 U	<1.1 U
Chlorobenzene	µg/L	NS	**NS**	<0.25 U	<12.00 U	<0.8 U	<6.4 U	<0.2 U	<20.0 U	<8.0 U	<0.2 U	<5 U	<8 U	<3.2 U	<6.4 U	<2 U	<0.2 U	--	<0.2 U	<1.6 U	<0.14 U	<1.0 U	<1.2 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U
Chloroethane	µg/L	80	**400**	<0.25 U	<12.00 U	<4 U	<32 U	<1 U	<100 U	<40 U	<1 U	<25 U	<40 U	<16 U	<32 U	<10 U	<1 U	--	<1 U	<8 U	<0.34 U	<0.75 U	<0.94 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U
Chloroform	µg/L	0.6	**6**	<0.25 U	<12.00 U	<0.8 U	<6.4 U	<0.2 U	<20.0 U	<8.0 U	<0.2 U	<5 U	<8 U	<3.2 U	<6.4 U	<2 U	<0.2 U	--	<0.2 U	<1.6 U	<0.2 U	<5.0 U	<6.2 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U
Chloromethane	µg/L	3	**30**	<0.25 U	<12 U	<0.8 U	<6.4 U	<0.2 U	<20.0 U	<8.0 U	<0.2 U	<5 U	<8 U	**10** J	<6.4 U	<2 U	<0.2 U	--	<0.3 U	<2.4 U	<0.18 U	<1.0 U	<1.2 U	<2.2 U	<2.2 U	<2.2 U	<2.2 U
cis-1,2-Dichloroethene	µg/L	7	**70**	<0.25 U	<12.00 U	<2.0 U	<16.0 U	<0.5 U	<50.0 U	<20.0 U	<0.5 U	<12 U	<20 U	<8 U	<16 U	<5 U	<0.5 U	--	<0.5 U	<4 U	<0.12 U	<0.51 U	<0.64 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U
cis-1,3-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<12.00 U	<0.8 U	<6.4 U	<0.2 U	<20.0 U	<8.0 U	<0.2 U	<5 U	<8 U	<3.2 U	<6.4 U	<2 U	<0.2 U	--	<0.2 U	<1.6 U	<0.18 U	<1.0 U	<1.2 U	<3.6 U	<3.6 U	<3.6 U	<3.6 U
trans-1,3-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<12.00 U	<0.8 U	<6.4 U	<0.2 U	<20.0 U	<8.0 U	<0.2 U	<5 U	<8 U	<3.2 U	<6.4 U	<2 U	<0.2 U	--	<0.2 U	<1.6 U	<0.21 U	<0.46 U	<0.57 U	<4.4 U	<4.4 U	<4.4 U	<4.4 U
1,3-Dichloropropene [4]	µg/L	0.04	**0.4**	<0.5 U	<24 U	<1.6 U	<12.8 U	<0.4 U	<40 U	<16 U	<0.4 U	<10 U	<16 U	<6.4 U	<12.8 U	<4 U	<0.4 U	--	<0.4 U	<3.2 U	<0.39 U	<1.46 U	<1.77 U	<8 U	<8 U	<8 U	<8.0 U
Dibromochloromethane	µg/L	6	**60**	<0.25 U	<12.00 U	<0.8 U	<6.4 U	<0.2 U	<20.0 U	<8.0 U	<0.2 U	<5 U	<8 U	<3.2 U	<6.4 U	<2 U	<0.2 U	--	<0.2 U	<1.6 U	<0.32 U	<1.0 U	<1.2 U	<2.6 U	<2.6 U	<2.6 U	<2.6 U
Dibromomethane	µg/L	NS	**NS**	<0.25 U	<12.00 U	<0.8 U	<6.4 U	<0.2 U	<20.0 U	<8.0 U	<0.2 U	<5 U	<8 U	<3.2 U	<6.4 U	<2 U	<0.2 U	--	<0.2 U	<1.6 U	<0.33 U	<0.85 U	<1.1 U	<0.94 U	<0.94 U	<0.94 U	<0.94 U
Freon 12	µg/L	200	**1,000**	<0.25 U	<12.00 U	<2.0 U	<16.0 U	<0.5 U	<50.0 U	<20.0 U	<0.5 U	<12 U	<20 U	<10 U	<16 U	<5 U	<0.5 U	--	<0.5 U	<4 U	<0.2 U	<0.45 U	<0.56 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Hexachlorobutadiene	µg/L	NS	**NS**	<0.25 U	<12.00 U	<2.0 U	<16.0 U	<0.5 U	<50.0 U	<20.0 U	<0.5 U	<12 U	<20 U	<8 U	<16 U	<5 U	<0.5 U	--	<0.5 U	<4 U	<0.26 U	<4.2 U	<5.3 U	<1.2 U	<1.2 U	<1.5 U	<1.5 U
Isopropyl ether	µg/L	NS	**NS**	<0.25 U	<12.00 U	<2.0 U	<16.0 U	<0.5 U	<50.0 U	<20.0 U	<0.5 U	<12 U	<20 U	<8 U	<16 U	<5 U	<0.5 U	--	<0.5 U	<4 U	<0.15 U	<1.0 U	<1.2 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U
Isopropylbenzene	µg/L	NS	**NS**	7.3	<12.00 U	5.1	6.4	<4.0 U	<20.0 U	<8.0 U	5.9	5.5 J	8.4 J	7.4 J	8.6 J	7.3	<0.2 U	--	6.4	9	6.4	6	5.1	0.90 J	<0.39 U	4.6 J	<1.7 U
Methylene chloride (DCM)	µg/L	0.5	**5**	<0.25 U	**95**	<4 U	<32 U	<1 U	<100 U	<40 U	<1 U	<25 U	<40 U	<16 U	<32 U	<10 U	<1 U	--	<1 U	<8 U	<0.68 U	<0.47 U	<0.58 U	<0.58 U	<0.58 U	<0.58 U	<0.58 U
Methyl-tert-butyl-ether	µg/L	12	**60**	<0.25 U	<12.00 U	<2.0 U	<16.0 U	<0.5 U	<50.0 U	<20.0 U	<0.5 U	<12 U	<20 U	<8 U	<16 U	<5 U	<0.5 U	--	<0.5 U	<4 U	<0.24 U	<0.35 U	<0.44 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U
Naphthalene	µg/L	10	**100**	**1,100**	**650**	**790**	**990**	**820**	**930**	**970**	**900**	**720**	**1,000**	**1,000**	**850**	**870**	<0.25 U	--	**260**	**790**	9.2	7.4 J	<6.2 U	<1.2 U	<1.2 U	3.8 J	<1.2 U
n-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<12.00 U	<0.8 U	<6.4 U	<0.2 U	<20.0 U	<8.0 U	<0.2 U	<5 U	<8 U	<3.2 U	<6.4 U	<2 U	<0.2 U	--	<0.2 U	<1.6 U	<0.13 U	<1.0 U	<1.2 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U
n-Propylbenzene	µg/L	NS	**NS**	0.8	<12.00 U	<2.0 U	<16.0 U	<0.5 U	<50.0 U	<20.0 U	0.7	<12 U	<20 U	<8 U	<16 U	<5 U	<0.5 U	--	0.66 J	<4 U	<0.13 U	<1.0 U	<1.2 U	<0.81 U	<0.81 U	<0.81 U	<0.81 U
sec-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<12.00 U	<1.00 U	<8.00 U	<0.25 U	<25.00 U	<10.00 U	<0.25 U	<6.2 U	<10 U	<4 U	<8 U	<2.5 U	<0.25 U	--	<0.25 U	<2 U	<0.15 U	<4.4 U	<5.5 U	<0.85 U	<0.85 U	<0.85 U	<0.85 U
Styrene	µg/L	10	**100**	<0.25 U	<12.00 U	<0.8 U	<6.4 U	<0.2 U	<20.0 U	<8.0 U	<0.2 U	<5 U	<8 U	<3.2 U	<6.4 U	<2 U	<0.2 U	--	<0.5 U	<4 U	<0.1 U	<1.0 U	<1.2 U	<0.47 U	<0.47 U	<3.0 U	<3.0 U
tert-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<12.00 U	<0.8 U	<6.4 U	<0.2 U	<20.0 U	<8.0 U	<0.2 U	<5 U	<8 U	<3.2 U	<6.4 U	<2 U	<0.2 U	--	<0.2 U	<1.6 U	<0.14 U	<0.36 U	<0.45 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
Tetrachloroethene	µg/L	0.5	**5**	<0.25 U	<12.00 U	<2.0 U	<16.0 U	<0.5 U	<50.0 U	<20.0 U	<0.5 U	<12 U	<20 U	<8 U	<16 U	<5 U	<0.5 U	--	<0.5 U	<4 U	<0.17 U	<1.0 U	<1.2 U	<0.33 U	<0.33 U	<0.33 U	<0.33 U
trans-1,2-Dichloroethene	µg/L	20	**100**	<0.25 U	<12.00 U	<2.0 U	<16.0 U	<0.5 U	<50.0 U	<20.0 U	<0.5 U	<12 U	<20 U	<8 U	<16 U	<5 U	<0.5 U	--	<0.5 U	<4 U	<0.25 U	<0.51 U	<0.64 U	<1.1 U	<1.1 U	<0.46 U	<0.46 U
Trichloroethene	µg/L	0.5	**5**	<0.25 U	<12.00 U	<0.8 U	<6.4 U	<0.2 U	<20.0 U	<8.0 U	<0.2 U	<5 U	<8 U	<3.2 U	<6.4 U	<2 U	<0.2 U	--	<0.2 U	<1.6 U	<0.19 U	<0.66 U	<0.83 U	2.3	2.2	<0.26 U	<0.26 U
Trichlorofluoromethane	µg/L	NS	**NS**	<0.25 U	<12.00 U	<2.0 U	<16.0 U	<0.5 U	<50.0 U	<20.0 U	<0.5 U	<12 U	<20 U	<8 U	<16 U	<5 U	<0.5 U	--	<0.5 U	<4 U	<0.19 U	<0.37 U	<0.46 U	<0.21 U	<0.21 U	<0.21 U	<0.21 U
Vinyl Chloride	µg/L	0.02	**0.2**	<0.25 U	<12.00 U	<0.8 U	<6.4 U	<0.2 U	<20.0 U	<8.0 U	<0.2 U	<5 U	<8 U	<3.2 U	<6.4 U	<2 U	<0.20 U	--	<0.2 U	<1.6 U	<0.1 U	<0.35 U	<0.44 U	<0.17 U	<0.17 U	<0.17 U	<0.17 U

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:	Units	WI GW PAL	WI GW ES	W-45S																							
Depth Level Unit:				Upper Shallow/Lower Shallow																							
Sample Date (m/d/yyyy):				12/28/2001	6/20/2002	11/25/2003	3/10/2004	6/8/2004	9/10/2004	12/10/2004	3/21/2005	9/21/2005	3/23/2006	9/29/2006	3/28/2007	9/20/2007	3/26/2008	3/28/2008	9/9/2008	3/27/2009	8/25/2015	8/22/2016	2/27/2017	12/17/2019	12/17/2019 (Dup)	5/11/2020	12/14/2020
PAHs																											
1-Methylnaphthalene	µg/L	NS	**NS**	34	22	25	24	--	22	16	24	23	30	35	21	36	--	<0.84 U	25	30	--	11	10.5	9.4	9.2	13.5	1.5
2-Methylnaphthalene	µg/L	NS	**NS**	38	21	27	26	--	24	18	27	24	33	38	21	38	--	<0.82 U	6.1	9	--	9.9	7.7	7.3	7.4	10.4	0.87
Acenaphthene	µg/L	NS	**NS**	<1.4 U	<0.52 U	0.18	<0.58 U	--	<0.33 U	0.38	<0.34 U	<1.6 U	<0.34 U	<0.33 U	<0.34 U	0.66 J	--	<0.87 U	<0.66 U	0.34 J	<0.25 U	0.15	0.15	0.16	0.16	0.25	0.068
Acenaphthylene	µg/L	NS	**NS**	<2.20 U	<0.24 U	<0.25 U	<0.25 U	--	<0.69 U	<0.70 U	<0.70 U	<3.4 U	<0.71 U	<0.7 U	<0.71 U	<0.71 U	--	<1.8 U	<1.4 U	<0.69 U	<0.21 U	0.015 J	0.023 J	0.011 J	0.0083 J	0.017 J	<0.0050 U
Anthracene	µg/L	600	**3,000**	<0.10 U	<0.093 U	<0.034 U	<0.034 U	--	<0.038 U	<0.038 U	<0.039 U	<0.19 U	<0.039 U	<0.038 U	<0.039 U	<0.039 U	--	<0.1 U	<0.076 U	<0.038 U	<0.27 U	0.0047 J	0.010 J	<0.012 U	<0.011 U	<0.010 U	<0.010 U
Benzo(a)anthracene	µg/L	NS	**NS**	<0.110 U	<0.16 U	<0.056 U	<0.056 U	--	<0.044 U	<0.044 U	<0.045 U	<0.22 U	<0.045 U	<0.044 U	<0.045 U	<0.045 U	--	0.29 J	<0.088 U	<0.044 U	<0.045 U	<0.0049 U	0.012 J	<0.0085 U	<0.0077 U	0.0076 J	<0.0076 U
Benzo(a)pyrene	µg/L	0.02	**0.2**	<0.079 U	<0.016 U	<0.033 U	<0.033 U	--	<0.032 U	<0.032 U	<0.033 U	<0.16 U	<0.033 U	<0.032 U	<0.033 U	0.067 J	--	**0.25** J	<0.064 U	<0.032 U	<0.079 U	<0.0042 U	<0.010 U	<0.012 U	<0.011 U	<0.010 U	<0.011 U
Benzo(b)fluoranthene	µg/L	0.02	**0.2**	<0.190 U	<0.047 U	<0.053 U	<0.053 U	--	<0.098 U	<0.099 U	<0.100 U	<0.49 U	<0.1 U	<0.099 U	<0.1 U	<0.1 U	--	**0.49** J	<0.2 U	<0.098 U	<0.064 U	<0.0051 U	0.019 J	<0.0064 U	<0.0059 U	0.016 J	<0.0057 U
Benzo(g,h,i)perylene	µg/L	NS	**NS**	<0.38 U	<0.18 U	<0.096 U	<0.096 U	--	<0.12 U	<0.12 U	<0.12 U	<0.6 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U	--	<0.32 U	<0.24 U	<0.12 U	<0.3 U	0.013 J	0.012 J	<0.0076 U	<0.0069 U	0.0085 J	<0.0068 U
Benzo(k)fluoranthene	µg/L	NS	**NS**	<0.17 U	<0.029 U	<0.045 U	<0.045 U	--	<0.049 U	<0.049 U	<0.050 U	<0.24 U	<0.051 U	<0.049 U	<0.051 U	<0.051 U	--	0.24 J	<0.098 U	<0.049 U	<0.051 U	<0.0054 U	<0.0072 U	<0.0085 U	<0.0077 U	0.0095 J	<0.0076 U
Chrysene	µg/L	0.02	**0.2**	<0.100 U	<0.037 U	<0.049 U	<0.049 U	--	<0.041 U	<0.041 U	<0.042 U	<0.2 U	<0.042 U	<0.041 U	<0.042 U	<0.042 U	--	**0.35**	<0.082 U	<0.041 U	<0.054 U	<0.0040 U	0.015 J	<0.015 U	<0.013 U	0.015 J	0.017 J
Dibenz(a,h)anthracene	µg/L	NS	**NS**	<0.17 U	<0.088 U	<0.064 U	<0.064 U	--	<0.13 U	<0.13 U	<0.13 U	<0.65 U	<0.13 U	<0.13 U	<0.13 U	<0.13 U	--	<0.34 U	<0.26 U	<0.13 U	<0.04 U	<0.0053 U	<0.0095 U	<0.011 U	<0.010 U	<0.0099 U	<0.010 U
Fluoranthene	µg/L	80	**400**	<0.270 U	<0.13 U	<0.024 U	<0.024 U	--	<0.081 U	<0.082 U	<0.083 U	<0.4 U	<0.084 U	<0.082 U	<0.084 U	<0.084 U	--	1	0.17 J	<0.081 U	<0.36 U	0.013 J	0.023 J	<0.012 U	<0.011 U	0.021 J	0.021 J
Fluorene	µg/L	80	**400**	<0.270 U	<0.17 U	<0.064 U	<0.064 U	--	<0.062 U	0.19	<0.063 U	<0.31 U	<0.064 U	0.24	<0.064 U	0.23	--	<0.16 U	<0.12 U	0.16 J	<0.19 U	0.0094 J	0.019 J	<0.0090 U	<0.0081 U	0.013 J	<0.0080 U
Indeno(1,2,3-cd)pyrene	µg/L	NS	**NS**	<0.130 U	<0.036 U	<0.031 U	<0.031 U	--	<0.062 U	<0.063 U	<0.063 U	<0.31 U	<0.064 U	<0.063 U	<0.064 U	<0.064 U	--	<0.16 U	<0.12 U	<0.062 U	<0.059 U	0.0035 J	<0.017 U	<0.020 U	<0.018 U	<0.017 U	<0.018 U
Naphthalene	µg/L	10	**100**	**1,000**	**270**	**680**	**650**	--	**630** J	**410**	**620**	**630**	**780**	**900**	**340**	**660**	--	<1.1 U	**350**	**570**	5.5	2.4	1.9	1.8	1.6	2.1	0.75
Phenanthrene	µg/L	NS	**NS**	<0.270 U	<0.024 U	<0.02 U	0.045	--	<0.03 U	0.044	<0.031 U	<0.15 U	<0.031 U	<0.03 U	<0.031 U	0.077 J	--	0.31 J	0.093 J	<0.03 U	<0.24 U	0.012 J	0.026 J	<0.015 U	<0.014 U	0.019 J	0.021 J
Pyrene	µg/L	50	**250**	<0.210 U	<0.015 U	<0.04 U	<0.04 U	--	<0.044 U	<0.044 U	<0.045 U	<0.22 U	<0.045 U	<0.044 U	<0.045 U	0.075 J	--	0.87	<0.088 U	<0.044 U	<0.34 U	0.019 JB	0.022 J	<0.0086 U	<0.0078 U	0.017 J	0.020 J
Total PAH (16) [5]	µg/L	NS	**NS**	1000	270	680.18	650.045	--	630	410.614	620	630	780	900.24	340	661.109	--	3.8	350.263	570.5	5.5	2.6396	2.231	1.971	1.7683	2.4936	0.897
Petroleum Hydrocarbons																											
Diesel Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals																											
Iron, Total	µg/L	150	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**21,000**	--	--	--	--	--	--	--
Cyanide																											
Cyanide DISS (amenable)	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide DISS, total	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide, Amenable	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide, Total	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lab MNA Parameters																											
Carbon Dioxide	µg/L	NS	**NS**	--	350,000	410,000	340,000	--	330,000	--	360,000	290,000	380,000	330,000	390,000	350,000	--	--	310,000	380,000	360,000	--	--	--	--	--	--
Carbon monoxide	mg/L	10,000	**10,000**	--	<0.4 U	<0.40 U	<0.40 U	--	--	--	--	--	--	<1 U	<1 U	<1 U	--	--	<1 U	--	--	--	--	--	--	--	--
Ethane	µg/L	NS	**NS**	0.390	0.420	1.100	0.590	--	0.560	--	0.270	0.29	0.61	0.54	0.77	0.44	0.025	--	0.22	0.24	1.6	--	--	--	--	--	--
Ethene	µg/L	NS	**NS**	<0.005 U	0.0059	0.033	0.014	--	<0.0050 U	--	<0.005 U	<0.025 U	<0.025 U	0.04	<0.025 U	<0.025 U	0.025	--	<0.025 U	<0.025 U	7.4	--	--	--	--	--	--
Iron, Dissolved	µg/L	150	**300**	--	--	**15,000**	**15,000**	--	**9,200**	--	62	**16,000**	**16,000**	**18,000**	**15,000**	**16,000**	43 J	--	**20,000**	--	**18,000**	**20,700**	--	**22,500**	**21,700**	--	--
Manganese, Dissolved	µg/L	60	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**578**	--	**642**	**615**	--	--
Methane	µg/L	NS	**NS**	8,700	13,000	21,000	19,000	--	16,000	--	20,000	15,000	21,000	16,000	23,000	18,000	9.7	--	16,000	18,000	13,000	17,100	--	--	--	--	--
Nitrogen, NO2 + NO3, Total	µg/L	2,000	**10,000**	860	120	77	110	--	80	--	<24 U	430 B	270 J	<100 U	700 J	<100 U	<100 U	--	<100 U	<100 U	55 J	<95 U	--	<59 U	<59 U	--	--
Nitrogen	µg/L	NS	**NS**	--	8,800	4,800	4,300	--	--	--	--	--	--	6,100	5,500	3,600	--	--	--	6,100	9,600	--	--	--	--	--	--
Oxygen	µg/L	NS	**NS**	--	390	310	360	--	--	--	--	--	--	560	980	<500 U	--	--	1,100	1,100	2,700	--	--	--	--	--	--
Sulfate, Total	µg/L	125,000	**250,000**	18,000	2,800	4,000	18,000	--	39,000	--	31,000	<10,000 U	<10,000 U	<10,000 U	4,680	<250 U	19,000	--	3,200 J	<1,500 U	5,200 B	<10,000 U	--	<2,200 U	3,600 J	--	--
Field Parameters																											
Dissolved oxygen	mg/L	NS	**NS**	--	--	0.11	0.15	0.52	0.3	0.62	0.13	0.29	0.68	0.31	0.51	0	10.29	--	0.45	0.28	--	0.12	0.24	0.09	0.09	0.15	0.17
Groundwater, depth to	feet	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.59	6.25	5.21	5.21	5.45	5.50
Oxidation Reduction Potential	millivolts	NS	**NS**	--	--	-104.2	-86.2	-58.7	-45.3	-63.9	-79.3	-65.8	-54.7	-59.8	-101	-128.8	-158.8	--	-49.1	-83.1	--	-117	-70	-77.4	-77.4	-128.4	-4.9
pH, Field	s.u.	NS	**NS**	--	--	6.73	6.65	6.75	7.43	6.67	6.74	6.4	6.44	6.73	6.38	6.51	8	--	6.25	6.39	--	6.80	6.46	7.05	7.05	6.60	6.33
Specific Conductance, Field	µS/cm	NS	**NS**	--	--	1,772	1,797	1,598	1,750	1,629	1,676	2,045	1,300	1,669	1,733	1,696	181	--	1,700	2,743	--	2.17	2,060	974.6	974.6	1801.9	495.7
Temperature, Water	Deg C	NS	**NS**	--	--	11.43	11.25	11.02	10.98	11.43	11.43	10.64	11.42	11.35	11.41	11.33	10.81	--	11.07	10.59	--	16.22	7.94	9.96	9.96	10.93	10.52
Turbidity, Quantitative	NTUs	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	27.5	5.6	0.55	0.55	8.90	0.00

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:	Units	WI GW PAL	WI GW ES	W-46D																								
Depth Level Unit:				Lower Shallow																								
Sample Date (m/d/yyyy):				12/19/2000	6/19/2002	11/25/2003	3/10/2004	6/8/2004	9/9/2004	3/21/2005	9/20/2005	3/23/2006	9/29/2006	3/28/2007	9/20/2007	3/24/2008	9/9/2008	3/27/2009	9/29/2009	12/3/2009	3/30/2010	6/2/2010	8/26/2015	8/27/2015	8/23/2016	2/28/2017	12/17/2019	5/12/2020	12/15/2020
BTEX																												
Benzene	µg/L	0.5	**5**	7,500	8,300	7,300	5,700	4,700	7,000	6,400	4,000	4,200	5,000	2,100	5,400	4,300	14,000	14,000	2,400	2,200	2,300	1,900	--	1,200	70.6	121	35.7	77.7	41.6
Ethylbenzene	µg/L	140	**700**	<40.00 U	<40.00 U	5.8	4	3.3	<50.0 U	2.4	<50 U	2.1	<40 U	<25 U	<20 U	<50 U	<50 U	<120 U	8.8 J	22	42	31 J	--	2.1	<5.0 U	<12.5 U	0.55 J	<0.32 U	<1.6 U
Toluene	µg/L	160	**800**	<16.0 U	<16.0 U	1.2	0.86	0.75	<20.0 U	0.83	<20 U	1.1	<16 U	<10 U	<8 U	<20 U	<50 U	<120 U	<10 U	<20 U	<10 U	<5 U	--	1.3	<5.0 U	<12.5 U	0.47 J	0.38 J	<1.3 U
Xylene, o	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<5.0 U	<12.5 U	0.37 J	0.38 J	<1.3 U
Xylenes, m + p	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<10.0 U	<25.0 U	1.1 J	0.77 J	<2.3 U
Xylenes, Total [1]	µg/L	400	**2,000**	<40.00 U	<40.00 U	3.1	2.4	1.5	<50.0 U	1.6	<50 U	2.6	<40 U	<25 U	<20 U	<50 U	<50 U	<120 U	<16 U	<20 U	<16 U	9 J	--	2.3	<15 U	<37.5 U	1.47	1.15	<3.6 U
Total BTEX [2]	µg/L	NS	**NS**	7500	8300	7310.1	5707.26	4705.55	7000	6404.83	4000	4205.8	5000	2100	5400	4300	14000	14000	2408.8	2222	2342	1940	--	1205.7	70.6	121	38.19	79.23	41.6
VOCs																												
1,1,1,2-Tetrachloroethane	µg/L	7	**70**	<40.00 U	<40.00 U	<0.25 U	<0.25 U	<0.25 U	<25.00 U	<0.25 U	<25 U	<0.25 U	<20 U	<12 U	<10 U	<25 U	<25 U	<62 U	--	--	--	--	--	<0.5 U	<1.8 U	<4.5 U	<0.27 U	<0.27 U	<1.3 U
1,1,1-Trichloroethane	µg/L	40	**200**	<40.00 U	<40.00 U	<0.5 U	<0.5 U	<0.5 U	<50.0 U	<0.5 U	<50 U	<0.5 U	<40 U	<25 U	<20 U	<50 U	<50 U	<120 U	--	--	--	--	--	<0.4 U	<5.0 U	<12.5 U	<0.24 U	<0.24 U	<1.2 U
1,1,2,2-Tetrachloroethane	µg/L	0.02	**0.2**	<40.00 U	<40.00 U	<0.2 U	<0.2 U	<0.2 U	<20.0 U	<0.2 U	<20 U	<0.2 U	<16 U	<10 U	<8 U	<20 U	<20 U	<50 U	--	--	--	--	--	<0.46 U	<2.5 U	<6.2 U	<0.28 U	<0.28 U	<1.4 U
1,1,2-Trichloroethane	µg/L	0.5	**5**	<40.00 U	<40.00 U	<0.25 U	<0.25 U	<0.25 U	<25.00 U	<0.25 U	<25 U	<0.25 U	<20 U	<12 U	<10 U	<25 U	<25 U	<62 U	--	--	--	--	--	<0.56 U	<2.0 U	<4.9 U	<0.55 U	<0.55 U	<2.8 U
1,1-Dichloroethane	µg/L	85	**850**	<40.00 U	<40.00 U	<0.5 U	<0.5 U	<0.5 U	<50.0 U	<0.5 U	<50 U	<0.5 U	<40 U	<25 U	<20 U	<50 U	<50 U	<120 U	--	--	--	--	--	<0.38 U	<2.4 U	<6.0 U	<0.27 U	<0.27 U	<1.4 U
1,1-Dichloroethene	µg/L	0.7	**7**	<40.00 U	<40.00 U	<0.5 U	<0.5 U	<0.5 U	<50.0 U	<0.5 U	<50 U	<0.5 U	<40 U	<25 U	<20 U	<50 U	<50 U	<120 U	--	--	--	--	--	<0.62 U	<4.1 U	<10.3 U	<0.24 U	<0.24 U	<1.2 U
1,1-Dichloropropene	µg/L	NS	**NS**	<40.00 U	<40.00 U	<0.5 U	<0.5 U	<0.5 U	<50.0 U	<0.5 U	<50 U	<0.5 U	<40 U	<25 U	<20 U	<50 U	<50 U	<120 U	--	--	--	--	--	<0.68 U	<4.4 U	<11.0 U	<0.54 U	<0.54 U	<2.7 U
1,2,3-Trichlorobenzene	µg/L	NS	**NS**	<40.00 U	<40.00 U	<0.25 U	<0.25 U	<0.25 U	<25.00 U	<0.25 U	<25 U	<0.25 U	<20 U	<12 U	<10 U	<25 U	<25 U	<62 U	--	--	--	--	--	<0.48 U	<21.3 U	<53.3 U	<0.63 U	<2.2 U	<11.1 U
1,2,3-Trichloropropane	µg/L	12	**60**	<40.00 U	<40.00 U	<0.5 U	<0.5 U	<0.5 U	<50.0 U	<0.5 U	<50 U	<0.5 U	<40 U	<25 U	<20 U	<50 U	<50 U	<120 U	--	--	--	--	--	<0.9 U	<5.0 U	<12.5 U	<0.59 U	<0.59 U	<3.0 U
1,2,4-Trichlorobenzene	µg/L	14	**70**	<40.00 U	<40.00 U	<0.25 U	<0.25 U	<0.25 U	<25.00 U	<0.25 U	<25 U	<0.25 U	<20 U	<12 U	<10 U	<25 U	<25 U	<62 U	--	--	--	--	--	<0.62 U	<22.1 U	<55.2 U	<0.95 U	<0.95 U	<4.8 U
1,2-Dibromo-3-chloropropane	µg/L	0.02	**0.2**	<40.00 U	<40.00 U	<0.5 U	<0.5 U	<0.5 U	<50.0 U	<0.5 U	<50 U	<0.5 U	<40 U	<25 U	<20 U	<50 U	<50 U	<120 U	--	--	--	--	--	<1.7 U	<21.6 U	<54.1 U	<1.8 U	<1.8 U	<8.8 U
1,2-Dibromoethane	µg/L	0.005	**0.05**	<40.00 U	<40.00 U	<0.2 U	<0.2 U	<0.2 U	<20.0 U	<0.2 U	<20 U	<0.2 U	<16 U	<10 U	<8 U	<20 U	<20 U	<50 U	--	--	--	--	--	<0.72 U	<1.8 U	<4.4 U	<0.83 U	<0.83 U	<4.1 U
1,2-Dichlorobenzene	µg/L	60	**600**	<40.00 U	<40.00 U	<0.2 U	<0.2 U	<0.2 U	<20.0 U	<0.2 U	<20 U	<0.2 U	<16 U	<10 U	<8 U	<20 U	<20 U	<50 U	--	--	--	--	--	<0.54 U	<5.0 U	<12.5 U	<0.71 U	<0.71 U	<3.5 U
1,2-Dichloroethane	µg/L	0.5	**5**	<40.00 U	<40.00 U	<0.5 U	<0.5 U	<0.5 U	<50.0 U	<0.5 U	<50 U	<0.5 U	<40 U	<25 U	<20 U	<50 U	<50 U	<120 U	--	--	--	--	--	<0.56 U	<1.7 U	<4.2 U	<0.28 U	<0.28 U	<1.4 U
1,2-Dichloropropane	µg/L	0.5	**5**	<40.00 U	<40.00 U	<0.5 U	<0.5 U	<0.5 U	<50.0 U	<0.5 U	<50 U	<0.5 U	<40 U	<25 U	<20 U	<50 U	<50 U	<120 U	--	--	--	--	--	<0.4 U	<2.3 U	<5.8 U	<0.28 U	<0.28 U	<1.4 U
1,2,4-Trimethylbenzene	µg/L	NS	**NS**	<16.0 U	<16 U	0.89	0.65	0.48	<20.0 U	0.38	<20 U	11	<16 U	<10 U	<8 U	<20 U	<20 U	<50 U	<10 U	<8 U	<10 U	<5 U	--	<0.28 U	<5.0 U	<12.5 U	<0.84 U	<0.84 U	<4.2 U
1,3,5-Trimethylbenzene	µg/L	NS	**NS**	<16.0 U	<16.0 U	0.25	<0.2 U	<0.2 U	<20.0 U	<0.2 U	<20 U	<0.2 U	<16 U	<10 U	<8 U	<20 U	<20 U	<50 U	<7.6 U	<8 U	<7.6 U	<3.8 U	--	<0.36 U	<5.0 U	<12.5 U	<0.87 U	<0.87 U	<4.4 U
Trimethylbenzenes, Total [3]	µg/L	96	**480**	<32 U	16 B	1.14	0.65	0.48	<40 U	0.38	<40 U	11	<32 U	<20 U	<16 U	<40 U	<40 U	<100 U	<17.6 U	<16 U	<17.6 U	<8.8 U	--	<0.64 U	<10 U	<25 U	<1.71 U	<1.71 U	<8.6 U
1,3-Dichlorobenzene	µg/L	120	**600**	<40.00 U	<40.00 U	<0.2 U	<0.2 U	<0.2 U	<20.0 U	<0.2 U	<20 U	<0.2 U	<16 U	<10 U	<8 U	<20 U	<20 U	<50 U	--	--	--	--	--	<0.3 U	<5.0 U	<12.5 U	<0.63 U	<0.63 U	<3.1 U
1,3-Dichloropropane	µg/L	NS	**NS**	<40.00 U	<40.00 U	<0.25 U	<0.25 U	<0.25 U	<25.00 U	<0.25 U	<25 U	<0.25 U	<20 U	<12 U	<10 U	<25 U	<25 U	<62 U	--	--	--	--	--	<0.26 U	<5.0 U	<12.5 U	<0.83 U	<0.83 U	<4.1 U
1,4-Dichlorobenzene	µg/L	15	**75**	<40.00 U	<40.00 U	<0.2 U	<0.2 U	<0.2 U	<20.0 U	<0.2 U	<20 U	<0.2 U	<16 U	<10 U	<8 U	<20 U	<50 U	<120 U	--	--	--	--	--	<0.3 U	<5.0 U	<12.5 U	<0.94 U	<0.94 U	<4.7 U
2,2-Dichloropropane	µg/L	NS	**NS**	<40.00 U	<40.00 U	<0.5 U	<0.5 U	<0.5 U	<50.0 U	<0.5 U	<50 U	<0.5 U	<40 U	<25 U	<20 U	<50 U	<50 U	<120 U	--	--	--	--	--	<0.64 U	<4.8 U	<12.1 U	<2.3 U	<2.3 U	<11.3 U
2,3-Dichloropropene	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	<12 U	<10 U	<25 U	<25 U	<62 U	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	µg/L	NS	**NS**	<16.0 U	<16.0 U	<0.5 U	<0.5 U	<0.5 U	<50.0 U	<0.5 U	<50 U	<0.5 U	<40 U	<25 U	<20 U	<50 U	<50 U	<120 U	--	--	--	--	--	<0.42 U	<5.0 U	<12.5 U	<0.93 U	<0.93 U	<4.6 U
4-Chlorotoluene	µg/L	NS	**NS**	<40.00 U	<40.00 U	<0.2 U	<0.2 U	<0.2 U	<20.0 U	<0.2 U	<20 U	<0.2 U	<16 U	<10 U	<8 U	<20 U	<20 U	<50 U	--	--	--	--	--	<0.4 U	<2.1 U	<5.3 U	<0.76 U	<0.76 U	<3.8 U
4-Isopropyltoluene	µg/L	NS	**NS**	<40.00 U	<40.00 U	<0.2 U	<0.2 U	<0.2 U	<20.0 U	<0.2 U	<20 U	<0.2 U	<16 U	<10 U	<8 U	<20 U	<20 U	<50 U	--	--	--	--	--	<0.34 U	<5.0 U	<12.5 U	<0.80 U	<0.80 U	<4.0 U
Bromobenzene	µg/L	NS	**NS**	<40.00 U	<40.00 U	<0.2 U	<0.2 U	<0.2 U	<20.0 U	<0.2 U	<20 U	<0.2 U	<16 U	<10 U	<8 U	<20 U	<20 U	<50 U	--	--	--	--	--	<0.5 U	<2.3 U	<5.8 U	<0.24 U	<0.24 U	<1.2 U
Bromochloromethane	µg/L	NS	**NS**	<40.00 U	<40.00 U	<0.5 U	<0.5 U	<0.5 U	<50.0 U	<0.5 U	<50 U	<0.5 U	<40 U	<25 U	<20 U	<50 U	<50 U	<120 U	--	--	--	--	--	<0.8 U	<3.4 U	<8.5 U	<0.36 U	<0.36 U	<1.8 U
Bromodichloromethane	µg/L	0.06	**0.6**	<40.00 U	<40.00 U	<0.2 U	<0.2 U	<0.2 U	<20.0 U	<0.2 U	<20 U	<0.2 U	<16 U	<10 U	<8 U	<20 U	<20 U	<50 U	--	--	--	--	--	<0.34 U	<5.0 U	<12.5 U	<0.36 U	<0.36 U	<1.8 U
Bromoform	µg/L	0.44	**4.4**	<40.00 U	<40.00 U	<0.2 U	<0.2 U	<0.2 U	<20.0 U	<0.2 U	<20 U	<0.2 U	<16 U	<10 U	<8 U	<20 U	<20 U	<50 U	--	--	--	--	--	<0.56 U	<5.0 U	<12.5 U	<4.0 U	<4.0 U	<19.9 U
Bromomethane	µg/L	1	**10**	<40.00 U	<40.00 U	<0.2 U	<8.0 U	<0.2 U	<20.0 U	<0.2 U	<20 U	<0.2 U	<16 U	<10 U	<8 U	<20 U	<50 U	<120 U	--	--	--	--	--	<0.62 U	<24.3 U	<60.9 U	<0.97 U	<0.97 U	<4.9 U
Carbon Tetrachloride	µg/L	0.5	**5**	<40.00 U	<40.00 U	<0.5 U	<0.5 U	<0.5 U	<50.0 U	<0.5 U	<50 U	<0.5 U	<40 U	<25 U	<20 U	<50 U	<50 U	<120 U	--	--	--	--	--	<0.52 U	<5.0 U	<12.5 U	<0.17 U	<1.1 U	<5.4 U
Chlorobenzene	µg/L	NS	**NS**	<40.00 U	<40.00 U	<0.2 U	<0.2 U	<0.2 U	<20.0 U	<0.2 U	<20 U	<0.2 U	<16 U	<10 U	<8 U	<20 U	<20 U	<50 U	--	--	--	--	--	<0.28 U	<5.0 U	<12.5 U	<0.71 U	<0.71 U	<3.6 U
Chloroethane	µg/L	80	**400**	<40 U	<40.00 U	<1 U	<1 U	<1 U	<100 U	<1 U	<100 U	<1 U	<80 U	<50 U	<40 U	<100 U	<100 U	<250 U	--	--	--	--	--	<0.68 U	<3.7 U	<9.4 U	<1.3 U	<1.3 U	<6.7 U
Chloroform	µg/L	0.6	**6**	<40.00 U	<40.00 U	<0.2 U	<0.2 U	<0.2 U	<20.0 U	<0.2 U	<20 U	<0.2 U	<16 U	<10 U	<8 U	<20 U	<20 U	<50 U	--	--	--	--	--	<0.4 U	<25.0 U	<62.5 U	<1.3 U	<1.3 U	<6.4 U
Chloromethane	µg/L	3	**30**	<40.00 U	<40.00 U	<0.2 U	<0.2 U	<0.2 U	<20.0 U	<0.2 U	<20 U	<0.2 U	66	<10 U	<8 U	<20 U	<30 U	<75 U	--	--	--	--	--	<0.36 U	<5.0 U	<12.5 U	<2.2 U	<2.2 U	<10.9 U
cis-1,2-Dichloroethene	µg/L	7	**70**	<40.00 U	<40.00 U	<0.5 U	<0.5 U	<0.5 U	<50.0 U	<0.5 U	<50 U	<0.5 U	<40 U	<25 U	<20 U	<50 U	<50 U	<120 U	--	--	--	--	--	<0.24 U	<2.6 U	<6.4 U	<0.27 U	<0.27 U	<1.4 U
cis-1,3-Dichloropropene	µg/L	NS	**NS**	<40.00 U	<40.00 U	<0.2 U	<0.2 U	<0.2 U	<20.0 U	<0.2 U	<20 U	<0.2 U	<16 U	<10 U	<8 U	<20 U	<20 U	<50 U	--	--	--	--	--	<0.36 U	<5.0 U	<12.5 U	<3.6 U	<3.6 U	<18.1 U
trans-1,3-Dichloropropene	µg/L	NS	**NS**	<40.00 U	<40.00 U	<0.2 U	<0.2 U	<0.2 U	<20.0 U	<0.2 U	<20 U	<0.2 U	<16 U	<10 U	<8 U	<20 U	<20 U	<50 U	--	--	--	--	--	<0.42 U	<2.3 U	<5.7 U	<4.4 U	<4.4 U	<21.9 U
1,3-Dichloropropene [4]	µg/L	0.04	**0.4**	<80 U	<80 U	<0.4 U	<0.4 U	<0.4 U	<40 U	<0.4 U	<40 U	<0.4 U	<32 U	<20 U	<16 U	<40 U	<40 U	<100 U	--	--	--	--	--	<0.78 U	<7.3 U	<18.2 U	<8 U	<8 U	<40.0 U
Dibromochloromethane	µg/L	6	**60**	<40.00 U	<40.00 U	<0.2 U	<0.2 U	<0.2 U	<20.0 U	<0.2 U	<20 U	<0.2 U	<16 U	<10 U	<8 U	<20 U	<20 U	<50 U	--	--	--	--	--	<0.64 U	<5.0 U	<12.5 U	<2.6 U	<2.6 U	<13.0 U
Dibromomethane	µg/L	NS	**NS**	<40.00 U	<40.00 U	<0.2 U	<0.2 U	<0.2 U	<20.0 U	<0.2 U	<20 U	<0.2 U	<16 U	<10 U	<8 U	<20 U	<20 U	<50 U	--	--	--	--	--	<0.66 U	<4.3 U	<10.7 U	<0.94 U	<0.94 U	<4.7 U
Freon 12	µg/L	200	**1,000**	<40.00 U	<40 U	<0.5 U	<0.5 U	<0.5 U	<50.0 U	<0.5 U	<50 U	<0.5 U	<40 U	<25 U	<20 U	<50 U	<50 U	<120 U	--	--	--	--	--	<0.4 U	<2.2 U	<5.6 U	<0.50 U	<0.50 U	<2.5 U
Hexachlorobutadiene	µg/L	NS	**NS**	<40.00 U	<40.00 U	<0.5 U	<0.5 U	<0.5 U	<50.0 U	<0.5 U	<50 U	<0.5 U	<40 U	<25 U	<20 U	<50 U	<50 U	<120 U	--	--	--	--	--	<0.52 U	<21.1 U	<52.6 U	<1.2 U	<1.5 U	<7.3 U
Isopropyl ether	µg/L	NS	**NS**	<40.00 U	<40.00 U	<0.5 U	<0.5 U	<0.5 U	<50.0 U	<0.5 U	<50 U	<0.5 U	<40 U	<25 U	<20 U	<50 U	<50 U	<120 U	--	--	--	--	--	<0.3 U	<5.0 U	<12.5 U	<1.9 U	<1.9 U	<9.4 U
Isopropylbenzene	µg/L	NS	**NS**	<40.00 U	<40.00 U	32	25	20	27	18	<20 U	14	<16 U	19 J	22 J	24 J	24 J	<50 U	--	--	--	--	--	20	18.6	34.9	24.1	14.2	12.8 J
Methylene chloride (DCM)	µg/L	0.5	**5**	<40.00 U	460	<1 U	<1 U	<1 U	<100 U	<1 U	<100 U	<1 U	<80 U	<50 U	<40 U	<100 U	<100 U	<250 U	--	--	--	--	--	<1.4 U	<2.3 U	6.2 J	<0.58 U	<0.58 U	<2.9 U
Methyl-tert-butyl-ether	µg/L	12	**60**	<40.00 U	<40.00 U	8.1	5.4	6.3	<50.0 U	3.3	<50 U	4.6	<40 U	<25 U	<20 U	<50 U	<50 U	<120 U	<9.2 U	<20 U	<9.2 U	<4.6 U	--	<0.48 U	<1.7 U	<4.4 U	<1.2 U	<1.2 U	<6.2 U
Naphthalene	µg/L	10	**100**	61	<40 U	13	4.7	4.9	26	3	<25 U	3.2	22 J	61	41	<25 U	28 J	360	--	--	--	--	--	1.7 J	<25.0 U	<62.5 U	<1.2 U	<1.2 U	<5.9 U
n-Butylbenzene	µg/L	NS	**NS**	<40.00 U	<40.00 U	<0.2 U	<0.2 U	<0.2 U	<20.0 U	<0.2 U	<20 U	<0.2 U	<16 U	<10 U	<8 U	<20 U	<20 U	<50 U	--	--	--	--	--	<0.26 U	<5.0 U	<12.5 U	<0.71 U	<0.71 U	<3.5 U
n-Propylbenzene	µg/L	NS	**NS**	<40.00 U	<40.00 U	4.8	3.3	2.6	<50.0 U	2.4	<50 U	1.4 J	<40 U	<25 U	<20 U	<50 U	<50 U	<120 U	--	--	--	--	--	2.8	<5.0 U	<12.5 U	1.5 J	<0.81 U	<4.1 U
sec-Butylbenzene	µg/L	NS	**NS**	<40.00 U	<40.00 U	<0.25 U	<0.25 U	<0.25 U	<25.00 U	<0.25 U	<25 U	<0.25 U	<20 U	<12 U	<10 U	<25 U	<25 U	<62 U	--	--	--	--	--	<0.3 U	<21.9 U	<54.7 U	<0.85 U	<0.85 U	<4.2 U
Styrene	µg/L	10	**100**	<40.00 U	<40.00 U	<0.2 U	<0.2 U	<0.2 U	<20.0 U	<0.2 U	<20 U	<0.2 U	<16 U	<10 U	<8 U	<20 U	<50 U	<120 U	--	--	--	--	--	<0.2 U	<5.0 U	<12.5 U	<0.47 U	<3.0 U	<15.0 U
tert-Butylbenzene	µg/L	NS	**NS**	<40.00 U	<40.00 U	<0.2 U	<0.2 U	<0.2 U	<20.0 U	<0.2 U	<20 U	<0.2 U	<16 U	<10 U	<8 U	<20 U	<20 U	<50 U	--	--	--	--	--	<0.28 U	<1.8 U	<4.5 U	<0.30 U	<0.30 U	<1.5 U
Tetrachloroethene	µg/L	0.5	**5**	<40.00 U	<40.00 U	<0.5 U	<0.5 U	<0.5 U	<50.0 U	<0.5 U	<50 U	<0.5 U	<40 U	<25 U	<20 U	<50 U	<50 U	<120 U	--	--	--	--	--	<0.34 U	<5.0 U	<12.5 U	<0.33 U	<0.33 U	<1.6 U
trans-1,2-Dichloroethene	µg/L	20	**100**	<40.00 U	<40.00 U	<0.5 U	<0.5 U	<0.5 U	<50.0 U	<0.5 U	<50 U	<0.5 U	<40 U	<25 U	<20 U	<50 U	<50 U	<120 U	--	--	--	--	--	<0.5 U	<2.6 U	<6.4 U	<1.1 U	<0.46 U	<2.3 U
Trichloroethene	µg/L	0.5	**5**	<40.00 U	<40.00 U	<0.2 U	<0.2 U	<0.2 U	<20.0 U	<0.2 U	<20 U	<0.2 U	<16 U	<10 U	<8 U	<20 U	<20 U	<50 U	--	--	--	--	--	<0.38 U	<3.3 U	<8.3 U	<0.26 U	<0.26 U	<1.3 U
Trichlorofluoromethane	µg/L	NS	**NS**	<40.00 U	<40 U	<0.5 U	<0.5 U	<0.5 U	<50.0 U	<0.5 U	<50 U	<0.5 U	<40 U	<25 U	<20 U	<50 U	<50 U	<120 U	--	--	--	--	--	<0.38 U	<1.8 U	<4.6 U	<0.21 U	<0.21 U	<1.1 U
Vinyl Chloride	µg/L	0.02	**0.2**	<40.00 U	<40.00 U	<0.2 U	<0.2 U	<0.2 U	<20.0 U	<0.2 U	<20 U	<0.2 U	<16 U	<10 U	<8 U	<20 U	<20 U	<50 U	--	--	--	--	--	<0.2 U	<1.8 U	<4.4 U	<0.17 U	<0.17 U	<0.87 U

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:	Units	WI GW PAL	WI GW ES	W-46D																										
Depth Level Unit:				Lower Shallow																										
Sample Date (m/d/yyyy):				12/19/2000	6/19/2002	11/25/2003	3/10/2004	6/8/2004	9/9/2004	3/21/2005	9/20/2005	3/23/2006	9/29/2006	3/28/2007	9/20/2007	3/24/2008	9/9/2008	3/27/2009	9/29/2009	12/3/2009	3/30/2010	6/2/2010	8/26/2015	8/27/2015	8/23/2016	2/28/2017	12/17/2019	5/12/2020	12/15/2020
PAHs																														
1-Methylnaphthalene	µg/L	NS	**NS**	25	25	23	16	15	20	13	11	6.3	4.1	11	15	14	<0.32 U	20	20	22	28	21	--	--	11.7	13.3	3.6	1.2	0.49	
2-Methylnaphthalene	µg/L	NS	**NS**	36	1.2	0.38	<0.3 U	<0.3 U	<0.31 U	<0.32 U	<0.31 U	<0.32 U	<0.32 U	<0.32 U	1.6	<0.31 U	<0.31 U	<0.31 U	<0.32 U	<0.32 U	<0.4 U	<0.32 U	--	--	0.025 J	0.091 J	0.081	0.053	0.041	
Acenaphthene	µg/L	NS	**NS**	1.7	1.6	1.5	1.1	0.99	1.4	0.82	0.75 J	0.41 J	<0.34 U	0.67 J	1.3 J	0.82 J	1.6	1.2 J	1.5	1.6	2.2	1.8	--	1.2	1.6	2.2	1.7	1.2	0.96	
Acenaphthylene	µg/L	NS	**NS**	<0.56 U	<0.24 U	<0.25 U	<0.25 U	<0.25 U	<0.70 U	<0.72 U	<0.69 U	<0.71 U	<0.71 U	<0.71 U	<0.73 U	1.6 J	<0.69 U	<0.69 U	<0.7 U	<0.71 U	<0.88 U	<0.71 U	--	<0.23 U	0.037 J	0.031 J	0.012 J	0.013 J	0.0071 J	
Anthracene	µg/L	600	**3,000**	<0.018 U	<0.095 U	<0.034 U	<0.034 U	<0.034 U	<0.038 U	<0.040 U	<0.038 U	<0.039 U	<0.039 U	<0.039 U	0.074 J	<0.038 U	<0.038 U	<0.038 U	<0.039 U	<0.039 U	<0.049 U	<0.039 U	--	<0.29 U	0.012 J	<0.040 U	<0.011 U	<0.010 U	<0.013 U	
Benzo(a)anthracene	µg/L	NS	**NS**	<0.017 U	<0.16 U	<0.056 U	<0.056 U	<0.056 U	<0.044 U	<0.046 U	<0.044 U	<0.045 U	<0.045 U	<0.045 U	0.056 J	<0.044 U	<0.044 U	<0.044 U	<0.045 U	<0.045 U	<0.056 U	<0.045 U	--	<0.048 U	<0.0051 U	<0.029 U	<0.0078 U	<0.0073 U	<0.0096 U	
Benzo(a)pyrene	µg/L	0.02	**0.2**	<0.028 U	<0.016 U	<0.033 U	<0.033 U	<0.033 U	<0.032 U	<0.033 U	<0.032 U	<0.033 U	<0.033 U	<0.033 U	0.066 J	<0.032 U	<0.032 U	<0.032 U	<0.033 U	0.037 J	<0.041 U	<0.033 U	--	<0.08 U	0.0069 J	<0.040 U	<0.011 U	<0.010 U	<0.013 U	
Benzo(b)fluoranthene	µg/L	0.02	**0.2**	<0.044 U	<0.048 U	<0.053 U	<0.053 U	<0.053 U	<0.099 U	<0.100 U	<0.098 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.098 U	<0.098 U	<0.098 U	<0.1 U	<0.1 U	<0.13 U	<0.1 U	--	<0.07 U	<0.0053 U	<0.022 U	0.0075 J	<0.0056 U	<0.0073 U	
Benzo(g,h,i)perylene	µg/L	NS	**NS**	<0.1 U	<0.18 U	<0.096 U	<0.096 U	<0.096 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U	<0.13 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U	<0.15 U	<0.12 U	--	<0.32 U	0.005 J	<0.026 U	<0.0070 U	<0.0066 U	<0.0086 U	
Benzo(k)fluoranthene	µg/L	NS	**NS**	<0.030 U	<0.030 U	<0.045 U	<0.045 U	<0.045 U	<0.049 U	<0.051 U	<0.049 U	<0.051 U	<0.051 U	<0.051 U	<0.052 U	<0.049 U	<0.049 U	<0.049 U	<0.05 U	<0.051 U	<0.063 U	<0.051 U	--	<0.0550 U	<0.0056 U	<0.029 U	<0.0078 U	<0.0073 U	<0.0096 U	
Chrysene	µg/L	0.02	**0.2**	<0.013 U	<0.038 U	<0.049 U	<0.049 U	<0.049 U	<0.041 U	<0.043 U	<0.041 U	<0.042 U	<0.042 U	<0.042 U	0.066 J	<0.041 U	<0.041 U	<0.041 U	<0.042 U	<0.042 U	<0.053 U	<0.042 U	--	<0.06 U	0.0056 J	<0.050 U	<0.013 U	<0.013 U	<0.017 U	
Dibenz(a,h)anthracene	µg/L	NS	**NS**	<0.16 U	<0.091 U	<0.064 U	<0.064 U	<0.064 U	<0.13 U	<0.14 U	<0.13 U	<0.13 U	<0.13 U	<0.13 U	<0.14 U	<0.13 U	<0.13 U	<0.13 U	<0.13 U	<0.13 U	<0.17 U	<0.13 U	--	<0.04 U	<0.0056 U	<0.039 U	<0.010 U	<0.0097 U	<0.013 U	
Fluoranthene	µg/L	80	**400**	<0.1 U	<0.14 U	<0.024 U	<0.024 U	0.18	<0.082 U	<0.084 U	<0.081 U	<0.084 U	<0.084 U	<0.084 U	0.19 J	<0.081 U	<0.081 U	<0.081 U	<0.083 U	<0.084 U	<0.1 U	<0.084 U	--	<0.39 U	0.015 JB	<0.041 U	<0.011 U	<0.010 U	<0.014 U	
Fluorene	µg/L	80	**400**	0.5	<0.17 U	<0.064 U	<0.064 U	0.22	<0.063 U	<0.064 U	<0.062 U	<0.064 U	<0.064 U	<0.064 U	1.1	<0.062 U	<0.062 U	<0.062 U	<0.063 U	0.75	<0.079 U	<0.064 U	--	<0.21 U	<0.0040 U	<0.031 U	<0.0082 U	<0.0077 U	<0.010 U	
Indeno(1,2,3-cd)pyrene	µg/L	NS	**NS**	<0.085 U	<0.037 U	<0.031 U	<0.031 U	<0.031 U	<0.063 U	<0.064 U	<0.062 U	<0.064 U	<0.064 U	<0.064 U	<0.065 U	<0.062 U	<0.062 U	<0.062 U	<0.063 U	<0.064 U	<0.079 U	<0.064 U	--	<0.06 U	<0.0036 U	<0.068 U	<0.018 U	<0.017 U	<0.022 U	
Naphthalene	µg/L	10	**100**	19	7.8	5.3	4	3.8	5	2.7	2.5	2.3	2.9	3.8	4.3	<0.4 U	5	3.7	3.3	3.4	4.4	3.4	--	2.7	1.7	1.8	0.34	0.14	0.11 J	
Phenanthrene	µg/L	NS	**NS**	<0.014 U	0.15	<0.02 U	<0.02 U	0.042	<0.03 U	<0.031 U	<0.03 U	<0.031 U	<0.031 U	0.13	0.26	<0.03 U	0.053 J	<0.03 U	<0.031 U	0.047 J	<0.038 U	<0.031 U	--	<0.26 U	0.015 JB	<0.053 U	<0.014 U	<0.013 U	<0.017 U	
Pyrene	µg/L	50	**250**	<0.048 U	<0.015 U	<0.04 U	<0.04 U	<0.04 U	<0.044 U	<0.046 U	<0.044 U	<0.045 U	<0.045 U	<0.045 U	0.14	<0.044 U	<0.044 U	<0.044 U	<0.045 U	0.07 J	<0.056 U	<0.045 U	--	<0.36 U	0.022 JB	<0.029 U	0.011 J	<0.0074 U	<0.0097 U	
Total PAH (16) [5]	µg/L	NS	**NS**	21.2	9.55	6.8	5.1	5.232	6.4	3.52	3.25	2.71	2.9	4.6	7.552	2.42	6.653	4.9	4.8	5.904	6.6	5.2	--	3.9	3.4185	4.031	2.0705	1.353	1.0771	
Petroleum Hydrocarbons																														
Diesel Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Gasoline Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Metals																														
Iron, Total	µg/L	150	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**12,000**	**8,600**	**9,300**	**9,200**	**9,600**	--	--	--	--	--	--	--	
Cyanide																														
Cyanide DISS (amenable)	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Cyanide DISS, total	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Cyanide, Amenable	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Cyanide, Total	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Lab MNA Parameters																														
Carbon Dioxide	µg/L	NS	**NS**	--	370,000	400,000	320,000	--	330,000	320,000	270,000	330,000	190,000	240,000	220,000	--	370,000	430,000	--	--	--	--	290,000	--	--	--	--	--	--	
Carbon monoxide	mg/L	10,000	**10,000**	--	<0.4 U	<0.40 U	<0.40 U	--	--	--	--	--	<1 U	<1 U	<1 U	--	<1 U	--	--	--	--	--	--	--	--	--	--	--	--	
Ethane	µg/L	NS	**NS**	--	8.200	12.000	13.000	--	9.200	23.000	22	27	17	15	14	14	12	13	--	--	--	--	--	17	--	--	--	--	--	
Ethene	µg/L	NS	**NS**	--	0.0059	0.011	0.018	--	<0.0050 U	<0.005 U	<0.025 U	<0.025 U	0.034	<0.025 U	<0.025 U	0.041	<0.025 U	<0.025 U	--	--	--	--	--	0.73	--	--	--	--	--	
Iron, Dissolved	µg/L	150	**300**	--	--	**12,000**	**9,400**	--	**6,700**	**16,000**	**16,000**	**23,000**	**22,000**	**12,000**	**620** J	**10,000**	**13,000**	--	--	--	--	--	--	**23,000**	**9,920**	--	**2,410**	--	--	
Manganese, Dissolved	µg/L	60	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	253	--	80.0	--	--	
Methane	µg/L	NS	**NS**	--	13,000	19,000	18,000	--	12,000	20,000	15,000	19,000	15,000	20,000	16,000	18,000	15,000	16,000	--	--	--	--	--	15,000	5,430	--	--	--	--	
Nitrogen, NO2 + NO3, Total	µg/L	2,000	**10,000**	<500 U	120	<24 U	35	--	46	430	89	150 J	<100 U	<500 U	<100 U	<100 U	<100 U	<100 U	--	--	--	--	--	<45 U	<95 U	--	<59 U	--	--	
Nitrogen	µg/L	NS	**NS**	--	8,400	2,400	3,000	--	--	--	--	--	6,000	5,900	4,600	--	--	2,700	--	--	--	--	8,600	--	--	--	--	--	--	
Oxygen	µg/L	NS	**NS**	--	440	330	260	--	--	--	--	--	<500 U	1,300	760	--	1,200	550	--	--	--	--	1,600	--	--	--	--	--	--	
Sulfate, Total	µg/L	125,000	**250,000**	9,100	7,700	3,600	9,600	--	16,000	23,000	17,000 J	<10,000 U	16,000 J	4,530	<250 U	1,800 J	1,600 J	<1,500 U	<1,500 U	<1,500 U	<1,500 U	<4,000 U	--	5,600 B	33,900	--	<2,200 U	--	--	
Field Parameters																														
Dissolved oxygen	mg/L	NS	**NS**	--	--	4.69	0.13	1.38	0.18	0.06	0.11	0.61	0.63	0.4	1.03	1.04	0.66	0.26	--	--	--	--	--	--	0.16	0.20	0.10	0.21	0.19	
Groundwater, depth to	feet	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11.37	12.06	11.60	11.16	11.65	
Oxidation Reduction Potential	millivolts	NS	**NS**	--	--	-152	-324.9	-157.3	-86.9	-128.6	-149.3	-96.8	-88.4	-149.3	-237.5	-152.2	-79.6	-83.4	--	--	--	--	--	--	-167	-115	-99.5	-123.1	-175.2	
pH, Field	s.u.	NS	**NS**	--	--	6.7	6.86	6.77	7.46	6.65	6.61	6.79	6.67	6.6	6.27	7.02	6.34	6.47	--	--	--	--	--	--	7.11	6.72	7.17	7.03	7.07	
Specific Conductance, Field	µS/cm	NS	**NS**	--	--	4,206	4,080	3,535	3,621	3,052	3,257	3,327	3,500	3,291	3,565	3,685	3,863	4,665	--	--	--	--	--	--	5.24	4,820	1769.3	1701.8	1675.2	
Temperature, Water	Deg C	NS	**NS**	--	--	14.19	14.55	13.83	13.74	14.38	13.81	14.39	13.23	13.99	13.69	14.32	13.76	12.05	--	--	--	--	--	--	17.95	12.48	11.30	12.92	11.35	
Turbidity, Quantitative	NTUs	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17.5	13.3	0.00	5.46	0.00	

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:	Units	WI GW PAL	WI GW ES	W-48I															
Depth Level Unit:				Upper Shallow															
Sample Date (m/d/yyyy):				12/20/2000	6/21/2002	11/25/2003	3/10/2004	6/8/2004	9/10/2004	12/8/2004	3/22/2005	9/20/2005	3/22/2006	9/27/2006	3/28/2007	9/19/2007	3/26/2008	9/8/2008	3/26/2009
BTEX																			
Benzene	µg/L	0.5	**5**	**5.9**	**7.1**	2.3	**8.3**	2.5	2	3.4	3.7	2.6	2.9	**6.5**	**31**	<0.2 U	0.73	0.21 J	0.31 J
Ethylbenzene	µg/L	140	**700**	0.37	0.41	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	19	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Toluene	µg/L	160	**800**	0.14	2.1	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.5 U
Xylene, o	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes, m + p	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes, Total [1]	µg/L	400	**2,000**	1.8	1.1	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	6.1	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Total BTEX [2]	µg/L	NS	**NS**	8.21	10.71	2.3	8.3	2.5	2	3.4	3.7	2.6	28	6.5	31	<1.4 U	0.73	0.21	0.31
VOCs																			
1,1,1,2-Tetrachloroethane	µg/L	7	**70**	<0.25 U	<0.11 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.5 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U
1,1,1-Trichloroethane	µg/L	40	**200**	<0.25 U	<0.28 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1,2,2-Tetrachloroethane	µg/L	0.02	**0.2**	<0.25 U	<0.39 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,1,2-Trichloroethane	µg/L	0.5	**5**	<0.25 U	<0.15 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.5 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U
1,1-Dichloroethane	µg/L	85	**850**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1-Dichloroethene	µg/L	0.7	**7**	<0.25 U	<0.73 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.63 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2,3-Trichlorobenzene	µg/L	NS	**NS**	<0.25 U	<0.32 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.5 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U
1,2,3-Trichloropropane	µg/L	12	**60**	<0.25 U	<0.28 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2,4-Trichlorobenzene	µg/L	14	**70**	<0.25 U	<0.18 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.5 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U
1,2-Dibromo-3-chloropropane	µg/L	0.02	**0.2**	<0.25 U	<1.4 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-Dibromoethane	µg/L	0.005	**0.05**	<0.25 U	<0.16 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2-Dichlorobenzene	µg/L	60	**600**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,2-Dichloroethane	µg/L	0.5	**5**	<0.25 U	<0.2 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-Dichloropropane	µg/L	0.5	**5**	<0.25 U	<0.29 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2,4-Trimethylbenzene	µg/L	NS	**NS**	1.4	0.47	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	17	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,3,5-Trimethylbenzene	µg/L	NS	**NS**	0.65	<0.33 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	1.7	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Trimethylbenzenes, Total [3]	µg/L	96	**480**	2.05	0.47	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	18.7	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U
1,3-Dichlorobenzene	µg/L	120	**600**	<0.25 U	<0.22 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,3-Dichloropropane	µg/L	NS	**NS**	<0.25 U	<0.15 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.5 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U
1,4-Dichlorobenzene	µg/L	15	**75**	<0.25 U	<0.35 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.5 U
2,2-Dichloropropane	µg/L	NS	**NS**	<0.25 U	<0.37 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
2,3-Dichloropropene	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U
2-Chlorotoluene	µg/L	NS	**NS**	<0.1 U	<0.28 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
4-Chlorotoluene	µg/L	NS	**NS**	<0.25 U	<0.47 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
4-Isopropyltoluene	µg/L	NS	**NS**	<0.25 U	<0.35 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	0.94 J	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Bromobenzene	µg/L	NS	**NS**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Bromochloromethane	µg/L	NS	**NS**	<0.25 U	<0.32 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Bromodichloromethane	µg/L	0.06	**0.6**	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	**1.2** J	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Bromoform	µg/L	0.44	**4.4**	<0.25 U	<0.14 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Bromomethane	µg/L	1	**10**	<0.25 U	<0.46 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.5 U
Carbon Tetrachloride	µg/L	0.5	**5**	<0.25 U	<0.4 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Chlorobenzene	µg/L	NS	**NS**	<0.25 U	<0.22 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Chloroethane	µg/L	80	**400**	<0.25 U	<1.2 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
Chloroform	µg/L	0.6	**6**	<0.25 U	<0.18 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Chloromethane	µg/L	3	**30**	<0.25 U	<0.38 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.3 U	<0.3 U
cis-1,2-Dichloroethene	µg/L	7	**70**	<0.25 U	<0.23 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
cis-1,3-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.17 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
trans-1,3-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.13 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
1,3-Dichloropropene [4]	µg/L	0.04	**0.4**	<0.5 U	<0.3 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.8 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U
Dibromochloromethane	µg/L	6	**60**	<0.25 U	<0.1 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	0.8 J	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Dibromomethane	µg/L	NS	**NS**	<0.25 U	<0.11 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Freon 12	µg/L	200	**1,000**	<0.25 U	<0.49 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Hexachlorobutadiene	µg/L	NS	**NS**	<0.25 U	<0.37 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Isopropyl ether	µg/L	NS	**NS**	<0.25 U	<0.13 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Isopropylbenzene	µg/L	NS	**NS**	0.9	0.69	<0.2 U	0.72	0.46	0.6	<0.2 U	0.5	0.34 J	3.7	0.46 J	0.8	<0.2 U	0.3 J	<0.2 U	0.23 J
Methylene chloride (DCM)	µg/L	0.5	**5**	<0.25 U	**5.5**	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
Methyl-tert-butyl-ether	µg/L	12	**60**	<0.25 U	<0.14 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Naphthalene	µg/L	10	**100**	**12**	0.57	<0.25 U	<0.25 U	<0.25 U	1.5	0.35	<0.25 U	<0.25 U	**270**	0.77 J	2.9	<0.25 U	0.27 J	0.28 J	<0.25 U
n-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.44 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
n-Propylbenzene	µg/L	NS	**NS**	<0.25 U	<0.46 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	1.2 J	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
sec-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.45 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.5 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U
Styrene	µg/L	10	**100**	<0.25 U	0.26	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.5 U
tert-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.38 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Tetrachloroethene	µg/L	0.5	**5**	<0.25 U	<0.63 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
trans-1,2-Dichloroethene	µg/L	20	**100**	<0.25 U	<0.39 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Trichloroethene	µg/L	0.5	**5**	<0.25 U	<0.49 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Trichlorofluoromethane	µg/L	NS	**NS**	<0.25 U	<0.58 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Vinyl Chloride	µg/L	0.02	**0.2**	<0.25 U	<0.46 U	**0.3**	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.4 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:	Units	WI GW PAL	WI GW ES	W-48I															
Depth Level Unit:				Upper Shallow															
Sample Date (m/d/yyyy):				12/20/2000	6/21/2002	11/25/2003	3/10/2004	6/8/2004	9/10/2004	12/8/2004	3/22/2005	9/20/2005	3/22/2006	9/27/2006	3/28/2007	9/19/2007	3/26/2008	9/8/2008	3/26/2009
PAHs																			
1-Methylnaphthalene	µg/L	NS	**NS**	15	<0.54 U	<0.44 U	0.72	0.97	0.67	<0.33 U	<0.32 U	<0.8 U	17	<0.33 U	1.8	0.37 J	1.3 J	<0.32 U	<0.33 U
2-Methylnaphthalene	µg/L	NS	**NS**	95	59	3.1	23	31	35	1.4	32	25	18	8.2	25	2.6	29	1.9	24
Acenaphthene	µg/L	NS	**NS**	36	26	7.2	14	18	21	3.4	20	20	15	9.7	23	6	19	6.4	17
Acenaphthylene	µg/L	NS	**NS**	<0.58 U	<0.21 U	<0.25 U	<0.27 U	<0.25 U	<0.69 U	<0.71 U	<0.69 U	2.2 J	<1.9 U	<0.72 U	1.2 J	1 J	<0.71 U	<0.69 U	<0.71 U
Anthracene	µg/L	600	**3,000**	9.3	4.5	0.85	0.83	1.6	1.4	0.14	1.7	1.2	1	1.3	1.6	0.52	1.3	0.63	0.43
Benzo(a)anthracene	µg/L	NS	**NS**	0.39	0.36	0.25	0.11	0.36	0.13	0.12	0.28	0.28 J	0.26 J	0.42	0.28	0.17	0.31	0.26	0.082 J
Benzo(a)pyrene	µg/L	0.02	**0.2**	<0.029 U	0.18	0.044	<0.036 U	0.13	<0.032 U	<0.033 U	<0.032 U	<0.08 U	<0.086 U	0.17	0.11	0.07 J	0.13 J	0.079 J	<0.033 U
Benzo(b)fluoranthene	µg/L	0.02	**0.2**	<0.046 U	0.072	<0.053 U	<0.058 U	<0.053 U	<0.098 U	<0.100 U	<0.098 U	<0.24 U	<0.26 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.098 U	<0.1 U
Benzo(g,h,i)perylene	µg/L	NS	**NS**	<0.11 U	0.5	<0.096 U	<0.100 U	<0.096 U	<0.12 U	<0.12 U	<0.12 U	<0.3 U	<0.32 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U
Benzo(k)fluoranthene	µg/L	NS	**NS**	<0.031 U	0.054	0.046	<0.049 U	<0.045 U	<0.049 U	<0.050 U	<0.049 U	<0.12 U	<0.13 U	0.087 J	0.05 J	<0.051 U	0.061 J	0.092 J	<0.051 U
Chrysene	µg/L	0.02	**0.2**	0.19	**0.21**	0.13	<0.053 U	0.19	0.096	0.067	0.14	0.11 J	0.15 J	**0.32**	**0.23**	0.11 J	0.15	0.14	0.085 J
Dibenz(a,h)anthracene	µg/L	NS	**NS**	<0.17 U	<0.079 U	<0.064 U	<0.070 U	<0.064 U	<0.13 U	<0.13 U	<0.13 U	<0.32 U	<0.35 U	<0.14 U	<0.13 U	<0.14 U	<0.13 U	<0.13 U	<0.13 U
Fluoranthene	µg/L	80	**400**	5.1	3.5	2.2	1.9	3	3.2	1.1	3.7	4.1	1.5	3.3	3.1	2.2	3.3	2.5	2.8
Fluorene	µg/L	80	**400**	9	1.9	0.33	0.83	1.1	1.2	0.19	2	1.4	3.5	<0.065 U	2.2	0.68	1.8	0.76 J	<0.064 U
Indeno(1,2,3-cd)pyrene	µg/L	NS	**NS**	<0.088 U	0.12	<0.031 U	<0.034 U	<0.031 U	<0.062 U	<0.064 U	<0.062 U	<0.16 U	<0.17 U	<0.065 U	<0.063 U	<0.065 U	<0.064 U	<0.062 U	<0.064 U
Naphthalene	µg/L	10	**100**	32	0.89	<0.26 U	<0.28 U	<0.26 U	3.9	<0.41 U	<0.4 U	<1 U	69	<0.42 U	1.5	<0.42 U	2	<0.4 U	<0.41 U
Phenanthrene	µg/L	NS	**NS**	6.8	0.77	0.12	0.2	0.26	0.26	0.068	0.23	0.24 J	0.84	0.14	0.97	0.099 J	0.31	0.12 J	0.32
Pyrene	µg/L	50	**250**	1.8	3	1.4	1.4	1.2	2.4	1.2	1.5	3.2	0.8	<0.046 U	1.2	1.1	1.3	1.4	1.5
Total PAH (16) [5]	µg/L	NS	**NS**	100.58	42.056	12.57	19.27	25.84	33.586	6.285	29.55	32.73	92.05	15.437	35.44	11.949	29.661	12.381	22.217
Petroleum Hydrocarbons																			
Diesel Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals																			
Iron, Total	µg/L	150	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**11,000**
Cyanide																			
Cyanide DISS (amenable)	µg/L	40	**200**	--	--	--	--	--	--	--	--	**1,500**	--	--	**1,600**	<7.7 U	--	**380**	--
Cyanide DISS, total	µg/L	40	**200**	--	--	--	--	--	--	--	--	**7,500**	--	--	**1,500**	**2,000**	**2,800**	**4,700**	--
Cyanide, Amenable	µg/L	40	**200**	--	--	--	--	--	--	--	<7.7 U	**700**	--	--	--	--	--	--	<34 U
Cyanide, Total	µg/L	40	**200**	--	--	--	--	--	--	--	**4,900**	**7,000**	--	--	--	--	--	--	**3,900**
Lab MNA Parameters																			
Carbon Dioxide	µg/L	NS	**NS**	--	82,000	150,000	130,000	--	--	--	130,000	130,000	10,000	120,000	110,000	160,000	--	140,000	140,000
Carbon monoxide	mg/L	10,000	**10,000**	--	<0.4 U	<0.40 U	<0.40 U	--	--	--	--	--	--	<1 U	<1 U	<1 U	--	<1 U	--
Ethane	µg/L	NS	**NS**	--	0.048	5.000	3.000	--	--	--	3.400	3.1	0.28	1.6	1.1	1.4	1.9	2	2.2
Ethene	µg/L	NS	**NS**	--	<0.005 U	0.015	0.038	--	--	--	0.012	0.03	0.033	0.056	<0.025 U	<0.025 U	0.025	<0.025 U	<0.025 U
Iron, Dissolved	µg/L	150	**300**	--	--	**12,000**	**7,000**	--	**1,700**	--	**3,000**	**4,800**	**970**	--	**5,400**	**16,000**	**14,000**	**35,000**	--
Manganese, Dissolved	µg/L	60	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	µg/L	NS	**NS**	--	160	750	4,200	--	--	--	1,900	1,900	640	310	2,300	180	260	140	600
Nitrogen, NO2 + NO3, Total	µg/L	2,000	**10,000**	<500 U	78	26	78	--	<24 U	--	<24 U	100	2,300	--	<500 U	<100 U	<100 U	<100 U	<100 U
Nitrogen	µg/L	NS	**NS**	--	14,000	18,000	16,000	--	--	--	--	--	--	15,000	19,000	20,000	--	--	20,000
Oxygen	µg/L	NS	**NS**	--	690	780	640	--	--	--	--	--	--	910	730	2,600	--	840	1,600
Sulfate, Total	µg/L	125,000	**250,000**	**1,490,000**	190,000	**1,500,000**	**530,000**	--	**940,000**	--	**1,000,000**	**1,200,000**	140,000	**830,000**	**470,000**	**1,600,000**	**1,200,000**	**1,800,000**	**1,200,000**
Field Parameters																			
Dissolved oxygen	mg/L	NS	**NS**	--	--	8.49	0.11	1.16	0.15	0.12	0.05	0.09	0.14	--	0.32	0.24	0.2	0.98	0.01
Groundwater, depth to	feet	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	millivolts	NS	**NS**	--	--	-189.2	-310.2	-180.1	-67.7	-263.4	-236.4	-185.3	-154.6	--	-111	-258.9	-114.4	-71.2	-215.1
pH, Field	s.u.	NS	**NS**	--	--	7.07	7.02	7.03	7.61	5.9	7.03	6.91	7.37	--	6.62	6.93	6.65	6.45	6.83
Specific Conductance, Field	µS/cm	NS	**NS**	--	--	9,596	3,509	6,219	5,688	5,749	5,266	6,013	3,273	--	2,325	5,061	6,880	1,021	7,752
Temperature, Water	Deg C	NS	**NS**	--	--	16.26	10	11.63	16.28	16.06	10.33	16.41	9.32	--	9.19	16.6	9.74	15.87	8.85
Turbidity, Quantitative	NTUs	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:				W-49D																										
Depth Level Unit:				Lower Shallow																										
Sample Date (m/d/yyyy):	Units	WI GW PAL	WI GW ES	12/19/2000	6/18/2002	11/19/2003	3/8/2004	6/7/2004	9/7/2004	12/9/2004	3/18/2005	9/21/2005	3/21/2006	9/27/2006	3/27/2007	9/19/2007	3/25/2008	3/28/2008	9/5/2008	3/25/2009	8/24/2015	8/22/2016	2/27/2017	2/27/2017 (Dup)	12/16/2019
BTEX																														
Benzene	µg/L	0.5	**5**	<0.1 U	<0.1 U	<0.2 U	<0.2 U	<0.2 U	0.77	<0.2 U	0.56	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	0.66 J	--	<0.2 U	<0.2 U	<0.074 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.25 U
Ethylbenzene	µg/L	140	**700**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.13 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.22 U
Toluene	µg/L	160	**800**	0.11	0.19	0.2	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.5 U	<0.5 U	<0.11 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.17 U
Xylene, o	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.26 U
Xylenes, m + p	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.0 U	<1.0 U	<1.0 U	<0.47 U
Xylenes, Total [1]	µg/L	400	**2,000**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.068 U	<1.5 U	<1.5 U	<1.5 U	<0.73 U
Total BTEX [2]	µg/L	NS	**NS**	0.11	0.19	0.2	<1.4 U	<1.4 U	0.77	<1.4 U	0.56	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	0.66	--	<1.7 U	<1.7 U	<0.382 U	<3 U	<3 U	<3 U	<1.37 U
VOCs																														
1,1,1,2-Tetrachloroethane	µg/L	7	**70**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	<0.25 U	<0.18 U	<0.18 U	<0.18 U	<0.27 U
1,1,1-Trichloroethane	µg/L	40	**200**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.2 U	<0.50 U	<0.50 U	<0.50 U	<0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.02	**0.2**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.23 U	<0.25 U	<0.25 U	<0.25 U	<0.28 U
1,1,2-Trichloroethane	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	<0.28 U	<0.20 U	<0.20 U	<0.20 U	<0.55 U
1,1-Dichloroethane	µg/L	85	**850**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.19 U	<0.24 U	<0.24 U	<0.24 U	<0.27 U
1,1-Dichloroethene	µg/L	0.7	**7**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.31 U	<0.41 U	<0.41 U	<0.41 U	<0.24 U
1,1-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.34 U	<0.44 U	<0.44 U	<0.44 U	<0.54 U
1,2,3-Trichlorobenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	<0.24 U	<2.1 U	<2.1 U	<2.1 U	<0.63 U
1,2,3-Trichloropropane	µg/L	12	**60**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.45 U	<0.50 U	<0.50 U	<0.50 U	<0.59 U
1,2,4-Trichlorobenzene	µg/L	14	**70**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	<0.31 U	<2.2 U	<2.2 U	<2.2 U	<0.95 U
1,2-Dibromo-3-chloropropane	µg/L	0.02	**0.2**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.87 U	<2.2 U	<2.2 U	<2.2 U	<1.8 U
1,2-Dibromoethane	µg/L	0.005	**0.05**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.36 U	<0.18 U	<0.18 U	<0.18 U	<0.83 U
1,2-Dichlorobenzene	µg/L	60	**600**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.27 U	<0.50 U	<0.50 U	<0.50 U	<0.71 U
1,2-Dichloroethane	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.28 U	<0.17 U	<0.17 U	<0.17 U	<0.28 U
1,2-Dichloropropane	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.2 U	<0.23 U	<0.23 U	<0.23 U	<0.28 U
1,2,4-Trimethylbenzene	µg/L	NS	**NS**	<0.1 U	<0.1 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.14 U	<0.50 U	<0.50 U	<0.50 U	<0.84 U
1,3,5-Trimethylbenzene	µg/L	NS	**NS**	<0.1 U	<0.1 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.18 U	<0.50 U	<0.50 U	<0.50 U	<0.87 U
Trimethylbenzenes, Total [3]	µg/L	96	**480**	<0.2 U	<0.2 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	--	<0.4 U	<0.4 U	<0.32 U	<1 U	<1 U	<1 U	<1.71 U
1,3-Dichlorobenzene	µg/L	120	**600**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.15 U	<0.50 U	<0.50 U	<0.50 U	<0.63 U
1,3-Dichloropropane	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	<0.13 U	<0.50 U	<0.50 U	<0.50 U	<0.83 U
1,4-Dichlorobenzene	µg/L	15	**75**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.5 U	<0.5 U	<0.15 U	<0.50 U	<0.50 U	<0.50 U	<0.94 U
2,2-Dichloropropane	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.32 U	<0.48 U	<0.48 U	<0.48 U	<2.3 U
2,3-Dichloropropene	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	--	--	--	--	--
2-Chlorotoluene	µg/L	NS	**NS**	<0.1 U	<0.1 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.21 U	<0.50 U	<0.50 U	<0.50 U	<0.93 U
4-Chlorotoluene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.21 U	<0.21 U	<0.76 U
4-Isopropyltoluene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.17 U	<0.50 U	<0.50 U	<0.50 U	<0.80 U
Bromobenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.25 U	<0.23 U	<0.23 U	<0.23 U	<0.24 U
Bromochloromethane	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.4 U	<0.34 U	<0.34 U	<0.34 U	<0.36 U
Bromodichloromethane	µg/L	0.06	**0.6**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.17 U	<0.50 U	<0.50 U	<0.50 U	<0.36 U
Bromoform	µg/L	0.44	**4.4**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.28 U	<0.50 U	<0.50 U	<0.50 U	<4.0 U
Bromomethane	µg/L	1	**10**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.5 U	<0.5 U	<0.31 U	<2.4 U	<2.4 U	<2.4 U	<0.97 U
Carbon Tetrachloride	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.26 U	<0.50 U	<0.50 U	<0.50 U	<0.17 U
Chlorobenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.14 U	<0.50 U	<0.50 U	<0.50 U	<0.71 U
Chloroethane	µg/L	80	**400**	<0.25 U	<0.25 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	--	<1 U	<1 U	<0.34 U	<0.37 U	<0.37 U	<0.37 U	<1.3 U
Chloroform	µg/L	0.6	**6**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.2 U	<2.5 U	<2.5 U	<2.5 U	<1.3 U
Chloromethane	µg/L	3	**30**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.3 U	<0.3 U	<0.18 U	<0.50 U	<0.50 U	<0.50 U	<2.2 U
cis-1,2-Dichloroethene	µg/L	7	**70**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.12 U	<0.26 U	<0.26 U	<0.26 U	<0.27 U
cis-1,3-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.18 U	<0.50 U	<0.50 U	<0.50 U	<3.6 U
trans-1,3-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.21 U	<0.23 U	<0.23 U	<0.23 U	<4.4 U
1,3-Dichloropropene [4]	µg/L	0.04	**0.4**	<0.5 U	<0.5 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	--	<0.4 U	<0.4 U	<0.39 U	<0.73 U	<0.73 U	<0.73 U	<8 U
Dibromochloromethane	µg/L	6	**60**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.32 U	<0.50 U	<0.50 U	<0.50 U	<2.6 U
Dibromomethane	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.33 U	<0.43 U	<0.43 U	<0.43 U	<0.94 U
Freon 12	µg/L	200	**1,000**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.2 U	<0.22 U	<0.22 U	<0.22 U	<0.50 U
Hexachlorobutadiene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.26 U	<2.1 U	<2.1 U	<2.1 U	<1.2 U
Isopropyl ether	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.15 U	<0.50 U	<0.50 U	<0.50 U	<1.9 U
Isopropylbenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.14 U	<0.14 U	<0.14 U	<0.14 U	<0.39 U
Methylene chloride (DCM)	µg/L	0.5	**5**	<0.25 U	<0.25 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	--	<1 U	<1 U	<0.68 U	<0.23 U	<0.23 U	<0.23 U	<0.58 U
Methyl-tert-butyl-ether	µg/L	12	**60**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.24 U	<0.17 U	<0.17 U	<0.17 U	<1.2 U
Naphthalene	µg/L	10	**100**	0.31	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	0.65	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	0.49 J	--	<0.25 U	<0.25 U	<0.16 U	<2.5 U	<2.5 U	<2.5 U	<1.2 U
n-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.13 U	<0.50 U	<0.50 U	<0.50 U	<0.71 U
n-Propylbenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.13 U	<0.50 U	<0.50 U	<0.50 U	<0.81 U
sec-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	<0.15 U	<2.2 U	<2.2 U	<2.2 U	<0.85 U
Styrene	µg/L	10	**100**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.5 U	<0.5 U	<0.1 U	<0.50 U	<0.50 U	<0.50 U	<0.47 U
tert-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.14 U	<0.18 U	<0.18 U	<0.18 U	<0.30 U
Tetrachloroethene	µg/L	0.5	**5**	<0.25 U	<0.25 U	0.52	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.17 U	<0.50 U	<0.50 U	<0.50 U	<0.33 U
trans-1,2-Dichloroethene	µg/L	20	**100**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.25 U	<0.26 U	<0.26 U	<0.26 U	<1.1 U
Trichloroethene	µg/L	0.5	**5**	<0.25 U	<0.25 U	0.4	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.20 U	--	<0.2 U	<0.2 U	<0.19 U	<0.33 U	<0.33 U	<0.33 U	<0.26 U
Trichlorofluoromethane	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.5 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.21 U
Vinyl Chloride	µg/L	0.02	**0.2**	0.43	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.2 U	<0.1 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:				W-49D																						
Depth Level Unit:	Units	WI GW PAL	WI GW ES	Lower Shallow																						
Sample Date (m/d/yyyy):				12/19/2000	6/18/2002	11/19/2003	3/8/2004	6/7/2004	9/7/2004	12/9/2004	3/18/2005	9/21/2005	3/21/2006	9/27/2006	3/27/2007	9/19/2007	3/25/2008	3/28/2008	9/5/2008	3/25/2009	8/24/2015	8/22/2016	2/27/2017	2/27/2017 (Dup)	12/16/2019
PAHs																										
1-Methylnaphthalene	µg/L	NS	**NS**	<0.43 U	<0.60 U	<0.44 U	<0.48 U	<0.44 U	<0.32 U	<0.36 U	<0.34 U	<0.32 U	<0.33 U	<0.33 U	<0.33 U	<0.33 U	--	<0.32 U	<0.32 U	<0.32 U	--	0.0041 J	0.0084 J	0.0091 J	0.0084 J
2-Methylnaphthalene	µg/L	NS	**NS**	<0.65 U	<0.57 U	<0.3 U	<0.33 U	<0.3 U	<0.31 U	<0.34 U	<0.33 U	<0.31 U	<0.32 U	<0.32 U	<0.32 U	<0.32 U	--	<0.31 U	<0.31 U	<0.31 U	--	0.0046 J	0.0089 J	0.010 J	<0.0052 U
Acenaphthene	µg/L	NS	**NS**	3.8	<0.51 U	5.7	7.2	6.3	4.8	<0.37 U	3.9	3.5	1.9	<0.34 U	0.79 J	2.7	--	3.2	2.9	2.8	3.9	0.53	0.65	1.9	0.64
Acenaphthylene	µg/L	NS	**NS**	<0.59 U	<0.23 U	<0.25 U	<0.27 U	<0.25 U	<0.69 U	<0.77 U	<0.72 U	<0.69 U	<0.7 U	<0.72 U	<0.71 U	<0.72 U	--	<0.69 U	<0.69 U	<0.68 U	<0.22 U	0.0051 J	0.0083 J	0.013 J	<0.0052 U
Anthracene	µg/L	600	**3,000**	0.64	<0.092 U	<0.034 U	<0.037 U	<0.034 U	<0.038 U	<0.042 U	<0.040 U	<0.038 U	<0.039 U	<0.04 U	<0.039 U	<0.04 U	--	<0.038 U	<0.038 U	<0.038 U	<0.27 U	<0.0040 U	<0.010 U	<0.010 U	<0.011 U
Benzo(a)anthracene	µg/L	NS	**NS**	0.061	<0.16 U	<0.056 U	<0.061 U	<0.057 U	<0.044 U	<0.049 U	<0.046 U	<0.044 U	<0.045 U	<0.046 U	<0.045 U	<0.046 U	--	<0.044 U	<0.044 U	<0.044 U	<0.046 U	<0.0051 U	<0.0074 U	<0.0073 U	<0.0079 U
Benzo(a)pyrene	µg/L	0.02	**0.2**	<0.029 U	<0.016 U	<0.033 U	<0.036 U	<0.033 U	<0.032 U	<0.036 U	<0.034 U	<0.032 U	<0.033 U	<0.033 U	<0.033 U	<0.033 U	--	<0.032 U	<0.032 U	<0.032 U	<0.081 U	<0.0044 U	<0.010 U	<0.010 U	<0.011 U
Benzo(b)fluoranthene	µg/L	0.02	**0.2**	<0.046 U	<0.047 U	<0.053 U	<0.058 U	<0.054 U	<0.098 U	<0.110 U	<0.100 U	<0.098 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	--	<0.098 U	<0.098 U	<0.097 U	<0.066 U	<0.0053 U	<0.0056 U	<0.0055 U	<0.0060 U
Benzo(g,h,i)perylene	µg/L	NS	**NS**	<0.11 U	<0.18 U	<0.096 U	<0.100 U	<0.097 U	<0.12 U	<0.13 U	<0.13 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U	--	<0.12 U	<0.12 U	<0.12 U	<0.31 U	0.01 J	<0.0066 U	<0.0065 U	<0.0071 U
Benzo(k)fluoranthene	µg/L	NS	**NS**	<0.031 U	<0.029 U	<0.045 U	<0.049 U	<0.045 U	<0.049 U	<0.054 U	<0.051 U	<0.049 U	<0.05 U	<0.051 U	<0.051 U	<0.051 U	--	<0.049 U	<0.049 U	<0.049 U	<0.052 U	<0.0056 U	<0.0074 U	<0.0073 U	<0.0079 U
Chrysene	µg/L	0.02	**0.2**	<0.014 U	<0.037 U	<0.049 U	<0.053 U	<0.049 U	<0.041 U	<0.046 U	<0.043 U	<0.041 U	<0.042 U	<0.043 U	<0.042 U	<0.043 U	--	<0.041 U	<0.041 U	<0.041 U	<0.056 U	0.0072 J	<0.013 U	<0.013 U	<0.014 U
Dibenz(a,h)anthracene	µg/L	NS	**NS**	<0.17 U	<0.088 U	<0.064 U	<0.070 U	<0.065 U	<0.13 U	<0.14 U	<0.14 U	<0.13 U	<0.13 U	<0.14 U	<0.13 U	<0.14 U	--	<0.13 U	<0.13 U	<0.13 U	<0.041 U	<0.0056 U	<0.0098 U	<0.0096 U	<0.011 U
Fluoranthene	µg/L	80	**400**	1.2	<0.13 U	0.087	<0.026 U	0.093	<0.081 U	<0.090 U	<0.085 U	<0.081 U	<0.083 U	<0.084 U	<0.084 U	<0.084 U	--	<0.081 U	<0.081 U	<0.08 U	<0.37 U	<0.0094 U	0.017 J	0.013 J	<0.011 U
Fluorene	µg/L	80	**400**	0.89	<0.17 U	<0.064 U	<0.070 U	<0.065 U	<0.062 U	<0.069 U	<0.065 U	<0.062 U	<0.063 U	<0.065 U	<0.064 U	<0.06 U	--	<0.062 U	<0.062 U	<0.061 U	<0.2 U	<0.0040 U	<0.0078 U	<0.0077 U	<0.0084 U
Indeno(1,2,3-cd)pyrene	µg/L	NS	**NS**	<0.090 U	<0.036 U	<0.031 U	<0.034 U	<0.031 U	<0.062 U	<0.069 U	<0.065 U	<0.062 U	<0.063 U	<0.065 U	<0.064 U	<0.065 U	--	<0.062 U	<0.062 U	<0.061 U	<0.061 U	<0.0036 U	<0.017 U	<0.017 U	<0.019 U
Naphthalene	µg/L	10	**100**	<0.24 U	<0.67 U	<0.26 U	<0.28 U	<0.26 U	<0.4 U	<0.44 U	<0.42 U	<0.4 U	<0.41 U	<0.42 U	0.42 J	<0.42 U	--	<0.4 U	<0.4 U	<0.4 U	<0.25 U	0.015 J	0.021 J	0.025 J	<0.019 U
Phenanthrene	µg/L	NS	**NS**	2.4	<0.023 U	0.093	0.078	0.093	<0.03 U	<0.033 U	<0.032 U	<0.03 U	<0.031 U	<0.031 U	<0.031 U	0.041 J	--	0.065 J	<0.03 U	<0.03 U	<0.25 U	0.01 J	0.031 J	0.023 J	<0.015 U
Pyrene	µg/L	50	**250**	0.21	<0.014 U	0.12	<0.044 U	0.079	<0.044 U	<0.049 U	<0.046 U	<0.044 U	<0.045 U	<0.046 U	<0.045 U	<0.046 U	--	0.047 J	<0.044 U	<0.044 U	<0.35 U	0.016 JB	0.027 J	0.023 J	<0.0081 U
Total PAH (16) [5]	µg/L	NS	**NS**	9.201	<0.67 U	6	7.278	6.565	4.8	<0.77 U	3.9	3.5	1.9	<0.72 U	1.21	2.741	--	3.312	2.9	2.8	3.9	0.5933	0.7543	1.997	0.64
Petroleum Hydrocarbons																										
Diesel Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals																										
Iron, Total	µg/L	150	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**8,300**	--	--	--	--	--
Cyanide																										
Cyanide DISS (amenable)	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide DISS, total	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide, Amenable	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide, Total	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lab MNA Parameters																										
Carbon Dioxide	µg/L	NS	**NS**	--	54,000	50,000	41,000	--	44,000	--	39,000	33,000	--	21,000	26,000	30,000	--	--	34,000	35,000	31,000	--	--	--	--
Carbon monoxide	mg/L	10,000	**10,000**	--	<0.4 U	<0.4 U	<0.40 U	--	--	--	--	--	--	<1 U	<1 U	<1 U	--	--	<1 U	--	--	--	--	--	--
Ethane	µg/L	NS	**NS**	--	13.000	13.000	10.000	--	6.300	--	2.300	7.5	4.4	0.97	3.6	5.8	8.3	--	4.4	2.6	0.81	--	--	--	--
Ethene	µg/L	NS	**NS**	--	0.022	0.020	0.480	--	<0.0050 U	--	<0.005 U	0.086	0.038	0.048	0.044	<0.025 U	1.5	--	<0.025 U	<0.025 U	<0.13 U	--	--	--	--
Iron, Dissolved	µg/L	150	**300**	--	--	**7,800**	**6,800**	--	**6,200**	--	**5,900**	**8,600**	**6,200**	**6,900**	**5,400**	**7,100**	**7,800**	--	**9,200**	--	**9,200**	**7,410**	--	--	**7,380**
Manganese, Dissolved	µg/L	60	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	109	--	--	107
Methane	µg/L	NS	**NS**	--	13,000	15,000	12,000	--	8,000	--	1,900	11,000	13,000	11,000	13,000	13,000	6,500	--	11,000	9,200	2,200	1,010	--	--	3,270
Nitrogen, NO2 + NO3, Total	µg/L	2,000	**10,000**	<500 U	<500 U	<24 U	<24 U	--	140	--	710	280 B	<100 U	<100 U	<0.5 U	<100 U	<100 U	--	<100 U	<100 U	110 B	<95 U	--	--	<59 U
Nitrogen	µg/L	NS	**NS**	--	14,000	14,000	16,000	--	--	--	--	--	--	14,000	16,000	15,000	--	--	--	14,000	19,000	--	--	--	--
Oxygen	µg/L	NS	**NS**	--	1,300	890	800	--	--	--	--	--	--	940	750	1,200	--	--	890	1,600	2,200	--	--	--	--
Sulfate, Total	µg/L	125,000	**250,000**	11,000	<2,000 U	<2,000 U	5,800	--	6,300	--	<10,000 U	<10,000 U	<10,000 U	<10,000 U	4,390 B,	<250 U	<1,500 U	--	<1,500 U	<1,500 U	4,500 J	<10,000 U	--	--	<2,200 U
Field Parameters																										
Dissolved oxygen	mg/L	NS	**NS**	--	--	0.77	0.09	0.3	0.13	0.07	0.05	0.09	0.1	0.09	0.6	0	0.04	--	0.27	0.3	--	0.17	0.42	0.42	0.15
Groundwater, depth to	feet	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	13.11	14.40	14.40	12.14
Oxidation Reduction Potential	millivolts	NS	**NS**	--	--	-189.4	-334.5	-202.3	-134.9	-145.9	-162.7	-175.4	-213.5	-182.2	-193.8	-170.6	-193.3	--	-109.9	-158.9	--	-184	-88	-88	-166.2
pH, Field	s.u.	NS	**NS**	--	--	7.22	7.31	7.32	8.08	7.4	7.26	7.22	7.46	7.59	7.19	7.29	7.12	--	7.32	7.1	--	7.50	6.92	6.92	7.66
Specific Conductance, Field	µS/cm	NS	**NS**	--	--	968	944	807	868	841	838	938	801	920	916	871	934	--	881	1,300	--	1,003	855	855	1,003
Temperature, Water	Deg C	NS	**NS**	--	--	14.52	14.63	14.51	14.44	14.61	14.6	14.49	14.41	14.39	14.32	14.48	14.56	--	14.67	12.23	--	17.50	12.46	12.46	11.94
Turbidity, Quantitative	NTUs	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	66.0	13.7	13.7	3.05

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:	Units	WI GW PAL	WI GW ES	W-49I																				
Depth Level Unit:				Lower Shallow																				
Sample Date (m/d/yyyy):				12/19/2000	6/18/2002	11/20/2003	3/9/2004	6/7/2004	9/7/2004	12/9/2004	3/18/2005	9/21/2005	3/21/2006	9/27/2006	3/27/2007	9/19/2007	3/24/2008	9/5/2008	3/26/2009	9/28/2009	8/24/2015	8/22/2016	2/27/2017	12/16/2019
BTEX																								
Benzene	µg/L	0.5	**5**	<0.1 U	0.62	0.59	<0.2 U	<0.2 U	0.81	0.54	0.35	0.23 J	<0.2 U	<0.2 U	<0.2 U	6.8	<0.2 U	<0.2 U	<0.2 U	<0.25 U	<0.074 U	<0.50 U	<0.50 U	<0.25 U
Ethylbenzene	µg/L	140	**700**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.22 U	<0.13 U	<0.50 U	<0.50 U	<0.22 U
Toluene	µg/L	160	**800**	<0.1 U	0.21	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.5 U	<0.25 U	<0.11 U	<0.50 U	<0.50 U	<0.17 U
Xylene, o	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.50 U	<0.50 U	<0.26 U
Xylenes, m + p	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.0 U	<1.0 U	<0.47 U
Xylenes, Total[1]	µg/L	400	**2,000**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.39 U	<0.068 U	<1.5 U	<1.5 U	<0.73 U
Total BTEX [2]	µg/L	NS	**NS**	<0.7 U	0.83	0.59	<1.4 U	<1.4 U	0.81	0.54	0.35	0.23	<1.4 U	<1.4 U	<1.4 U	6.8	<1.4 U	<1.7 U	<1.7 U	<1.11 U	<0.382 U	<3 U	<3 U	<1.37 U
VOCs																								
1,1,1,2-Tetrachloroethane	µg/L	7	**70**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.18 U	<0.18 U	<0.27 U
1,1,1-Trichloroethane	µg/L	40	**200**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.2 U	<0.50 U	<0.50 U	<0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.02	**0.2**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.23 U	<0.25 U	<0.25 U	<0.28 U
1,1,2-Trichloroethane	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.28 U	<0.20 U	<0.20 U	<0.55 U
1,1-Dichloroethane	µg/L	85	**850**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.19 U	<0.24 U	<0.24 U	<0.27 U
1,1-Dichloroethene	µg/L	0.7	**7**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.31 U	<0.41 U	<0.41 U	<0.24 U
1,1-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.34 U	<0.44 U	<0.44 U	<0.54 U
1,2,3-Trichlorobenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.24 U	<2.1 U	<2.1 U	<0.63 U
1,2,3-Trichloropropane	µg/L	12	**60**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.45 U	<0.50 U	<0.50 U	<0.59 U
1,2,4-Trichlorobenzene	µg/L	14	**70**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.31 U	<2.2 U	<2.2 U	<0.95 U
1,2-Dibromo-3-chloropropane	µg/L	0.02	**0.2**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.87 U	<2.2 U	<2.2 U	<1.8 U
1,2-Dibromoethane	µg/L	0.005	**0.05**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.36 U	<0.18 U	<0.18 U	<0.83 U
1,2-Dichlorobenzene	µg/L	60	**600**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.27 U	<0.50 U	<0.50 U	<0.71 U
1,2-Dichloroethane	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.28 U	<0.17 U	<0.17 U	<0.28 U
1,2-Dichloropropane	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.2 U	<0.23 U	<0.23 U	<0.28 U
1,2,4-Trimethylbenzene	µg/L	NS	**NS**	<0.1 U	<0.1 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	0.33 J	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.25 U	<0.14 U	<0.50 U	<0.50 U	<0.84 U
1,3,5-Trimethylbenzene	µg/L	NS	**NS**	<0.1 U	<0.1 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.19 U	<0.18 U	<0.50 U	<0.50 U	<0.87 U
Trimethylbenzenes, Total [3]	µg/L	96	**480**	<0.2 U	<0.2 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	0.33 J	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.44 U	<0.32 U	<1 U	<1 U	<1.71 U
1,3-Dichlorobenzene	µg/L	120	**600**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.15 U	<0.50 U	<0.50 U	<0.63 U
1,3-Dichloropropane	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.13 U	<0.50 U	<0.50 U	<0.83 U
1,4-Dichlorobenzene	µg/L	15	**75**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.15 U	<0.50 U	<0.50 U	<0.94 U
2,2-Dichloropropane	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.32 U	<0.48 U	<0.48 U	<2.3 U
2,3-Dichloropropene	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	--	--	--
2-Chlorotoluene	µg/L	NS	**NS**	<0.1 U	<0.1 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.21 U	<0.50 U	<0.50 U	<0.93 U
4-Chlorotoluene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.21 U	<0.21 U	<0.76 U
4-Isopropyltoluene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.17 U	<0.50 U	<0.50 U	<0.80 U
Bromobenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.25 U	<0.23 U	<0.23 U	<0.24 U
Bromochloromethane	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.4 U	<0.34 U	<0.34 U	<0.36 U
Bromodichloromethane	µg/L	0.06	**0.6**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.17 U	<0.50 U	<0.50 U	<0.36 U
Bromoform	µg/L	0.44	**4.4**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.28 U	<0.50 U	<0.50 U	<4.0 U
Bromomethane	µg/L	1	**10**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.5 U	--	<0.31 U	<2.4 U	<2.4 U	<0.97 U
Carbon Tetrachloride	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.26 U	<0.50 U	<0.50 U	<0.17 U
Chlorobenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.14 U	<0.50 U	<0.50 U	<0.71 U
Chloroethane	µg/L	80	**400**	<0.25 U	<0.25 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	--	<0.34 U	<0.37 U	<0.37 U	<1.3 U
Chloroform	µg/L	0.6	**6**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<2.5 U	<2.5 U	<1.3 U
Chloromethane	µg/L	3	**30**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.3 U	<0.3 U	--	<0.18 U	<0.50 U	<0.50 U	<2.2 U
cis-1,2-Dichloroethene	µg/L	7	**70**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	0.62 J	<0.5 U	<0.5 U	--	<0.12 U	<0.26 U	<0.26 U	<0.27 U
cis-1,3-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.18 U	<0.50 U	<0.50 U	<3.6 U
trans-1,3-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.21 U	<0.23 U	<0.23 U	<4.4 U
1,3-Dichloropropene [4]	µg/L	0.04	**0.4**	<0.5 U	<0.5 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	--	<0.39 U	<0.73 U	<0.73 U	<8 U
Dibromochloromethane	µg/L	6	**60**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.32 U	<0.50 U	<0.50 U	<2.6 U
Dibromomethane	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.33 U	<0.43 U	<0.43 U	<0.94 U
Freon 12	µg/L	200	**1,000**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.2 U	<0.22 U	<0.22 U	<0.50 U
Hexachlorobutadiene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.26 U	<2.1 U	<2.1 U	<1.2 U
Isopropyl ether	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.15 U	<0.50 U	<0.50 U	<1.9 U
Isopropylbenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.14 U	<0.14 U	<0.14 U	<0.39 U
Methylene chloride (DCM)	µg/L	0.5	**5**	<0.25 U	<0.25 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	--	<0.68 U	<0.23 U	<0.23 U	<0.58 U
Methyl-tert-butyl-ether	µg/L	12	**60**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.23 U	<0.24 U	<0.17 U	<0.17 U	<1.2 U
Naphthalene	µg/L	10	**100**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.16 U	<2.5 U	<2.5 U	<1.2 U
n-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.13 U	<0.50 U	<0.50 U	<0.71 U
n-Propylbenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.13 U	<0.50 U	<0.50 U	<0.81 U
sec-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.15 U	<2.2 U	<2.2 U	<0.85 U
Styrene	µg/L	10	**100**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.5 U	--	<0.1 U	<0.50 U	<0.50 U	<0.47 U
tert-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.14 U	<0.18 U	<0.18 U	<0.30 U
Tetrachloroethene	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.17 U	<0.50 U	<0.50 U	<0.33 U
trans-1,2-Dichloroethene	µg/L	20	**100**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.25 U	<0.26 U	<0.26 U	<1.1 U
Trichloroethene	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.20 U	<0.2 U	<0.2 U	--	<0.19 U	<0.33 U	<0.33 U	<0.26 U
Trichlorofluoromethane	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.19 U	<0.18 U	<0.18 U	<0.21 U
Vinyl Chloride	µg/L	0.02	**0.2**	<0.25 U	0.96	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	0.23 J	<0.2 U	<0.2 U	<0.2 U	--	<0.1 U	<0.18 U	<0.18 U	<0.17 U

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:	Units	WI GW PAL	WI GW ES	W-49I																					
Depth Level Unit:				Lower Shallow																					
Sample Date (m/d/yyyy):				12/19/2000	6/18/2002	11/20/2003	3/9/2004	6/7/2004	9/7/2004	12/9/2004	3/18/2005	9/21/2005	3/21/2006	9/27/2006	3/27/2007	9/19/2007	3/24/2008	9/5/2008	3/26/2009	9/28/2009	8/24/2015	8/22/2016	2/27/2017	12/16/2019
PAHs																									
1-Methylnaphthalene	µg/L	NS	**NS**	<0.4 U	<0.56 U	<0.44 U	<0.48 U	<0.44 U	<0.32 U	<0.35 U	<0.35 U	<0.32 U	<0.33 U	<0.33 U	<0.32 U	<0.33 U	<0.8 U	<0.32 U	<0.32 U	<0.33 U	--	0.011 J	0.017 J	0.011 J
2-Methylnaphthalene	µg/L	NS	**NS**	<0.61 U	<0.53 U	<0.3 U	<0.33 U	<0.3 U	<0.31 U	<0.34 U	<0.34 U	<0.31 U	<0.32 U	<0.32 U	<0.31 U	<0.32 U	<0.78 U	<0.31 U	<0.31 U	<0.32 U	--	0.0062 J	0.0064 J	0.0075 J
Acenaphthene	µg/L	NS	**NS**	<0.22 U	<0.48 U	1.5	1.1	1.2	1.9	<0.36 U	1.5	2	1.9	12	11	5.5	2.9 J	3.4	5.6	4.8	2.9	2.8	5.3	3.4
Acenaphthylene	µg/L	NS	**NS**	<0.56 U	<0.22 U	<0.25 U	<0.28 U	<0.25 U	<0.69 U	<0.75 U	<0.75 U	<0.69 U	<0.71 U	<0.72 U	<0.69 U	<0.72 U	<1.7 U	<0.69 U	<0.68 U	<0.71 U	<0.23 U	0.0096 J	0.019 J	0.011 J
Anthracene	µg/L	600	**3,000**	0.02	<0.086 U	<0.034 U	<0.037 U	<0.034 U	<0.038 U	<0.041 U	<0.041 U	<0.038 U	<0.039 U	<0.04 U	<0.038 U	<0.04 U	<0.095 U	<0.038 U	<0.038 U	<0.039 U	<0.29 U	<0.0037 U	<0.010 U	<0.011 U
Benzo(a)anthracene	µg/L	NS	**NS**	<0.017 U	<0.15 U	<0.056 U	<0.062 U	<0.056 U	0.086	<0.048 U	<0.048 U	<0.044 U	<0.045 U	<0.046 U	<0.044 U	<0.046 U	<0.11 U	<0.044 U	<0.044 U	<0.045 U	<0.049 U	<0.0047 U	<0.0072 U	<0.0079 U
Benzo(a)pyrene	µg/L	0.02	**0.2**	<0.027 U	<0.015 U	<0.033 U	<0.036 U	<0.033 U	0.11	<0.035 U	<0.035 U	<0.032 U	<0.033 U	<0.033 U	<0.032 U	<0.033 U	<0.08 U	<0.032 U	<0.032 U	<0.033 U	<0.085 U	<0.0041 U	<0.010 U	<0.011 U
Benzo(b)fluoranthene	µg/L	0.02	**0.2**	<0.043 U	<0.044 U	<0.053 U	<0.058 U	<0.053 U	<0.098 U	<0.110 U	<0.110 U	<0.098 U	<0.1 U	<0.1 U	<0.098 U	<0.1 U	<0.24 U	<0.098 U	<0.097 U	<0.1 U	<0.069 U	<0.0049 U	<0.0055 U	<0.0060 U
Benzo(g,h,i)perylene	µg/L	NS	**NS**	<0.1 U	<0.17 U	<0.096 U	<0.110 U	<0.096 U	0.17	<0.13 U	<0.13 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U	<0.3 U	<0.12 U	<0.12 U	<0.12 U	<0.32 U	0.0081 J	<0.0065 U	<0.0071 U
Benzo(k)fluoranthene	µg/L	NS	**NS**	<0.029 U	<0.027 U	<0.045 U	<0.050 U	<0.045 U	<0.049 U	<0.053 U	<0.053 U	<0.049 U	<0.051 U	<0.051 U	<0.049 U	<0.051 U	<0.12 U	<0.049 U	<0.049 U	<0.051 U	<0.055 U	<0.0052 U	<0.0072 U	<0.0079 U
Chrysene	µg/L	0.02	**0.2**	<0.013 U	<0.034 U	<0.049 U	<0.054 U	<0.049 U	<0.041 U	<0.045 U	<0.045 U	<0.041 U	<0.042 U	<0.043 U	<0.041 U	<0.043 U	<0.1 U	<0.041 U	<0.041 U	<0.042 U	<0.059 U	<0.0039 U	<0.012 U	<0.014 U
Dibenz(a,h)anthracene	µg/L	NS	**NS**	<0.16 U	<0.082 U	<0.064 U	<0.070 U	<0.064 U	<0.13 U	<0.14 U	<0.14 U	<0.13 U	<0.13 U	<0.14 U	<0.13 U	<0.14 U	<0.32 U	<0.13 U	<0.13 U	<0.13 U	<0.044 U	<0.0051 U	<0.0095 U	<0.011 U
Fluoranthene	µg/L	80	**400**	<0.1 U	<0.12 U	<0.024 U	<0.026 U	<0.024 U	0.12	<0.088 U	<0.088 U	<0.081 U	<0.084 U	0.13 J	<0.081 U	<0.084 U	<0.2 U	<0.081 U	<0.08 U	<0.084 U	<0.39 U	<0.0086 U	<0.010 U	<0.011 U
Fluorene	µg/L	80	**400**	<0.029 U	<0.16 U	<0.064 U	<0.070 U	<0.064 U	<0.062 U	<0.068 U	<0.068 U	<0.062 U	<0.064 U	1	2.1	0.75	<0.16 U	<0.062 U	<0.061 U	<0.064 U	<0.21 U	0.005 J	<0.0076 U	<0.0084 U
Indeno(1,2,3-cd)pyrene	µg/L	NS	**NS**	<0.084 U	<0.033 U	<0.031 U	<0.034 U	<0.031 U	0.11	<0.068 U	<0.068 U	<0.062 U	<0.064 U	<0.065 U	<0.062 U	<0.065 U	<0.16 U	<0.062 U	<0.061 U	<0.064 U	<0.064 U	<0.0033 U	<0.017 U	<0.019 U
Naphthalene	µg/L	10	**100**	<0.22 U	<0.62 U	<0.26 U	<0.29 U	<0.26 U	<0.4 U	<0.44 U	<0.44 U	<0.4 U	<0.41 U	<0.42 U	0.43 J	<0.42 U	<1 U	<0.4 U	<0.4 U	<0.41 U	<0.27 U	0.013 J	0.025 J	<0.019 U
Phenanthrene	µg/L	NS	**NS**	0.079	<0.022 U	<0.02 U	<0.022 U	<0.02 U	<0.03 U	<0.033 U	<0.033 U	<0.03 U	<0.031 U	0.14	<0.03 U	<0.031 U	<0.075 U	<0.03 U	<0.03 U	<0.031 U	<0.26 U	<0.0070 U	<0.013 U	<0.015 U
Pyrene	µg/L	50	**250**	<0.047 U	<0.014 U	<0.04 U	<0.044 U	<0.04 U	0.18	<0.048 U	<0.048 U	<0.044 U	<0.045 U	<0.046 U	<0.044 U	<0.046 U	<0.11 U	<0.044 U	<0.044 U	<0.045 U	<0.37 U	0.013 JB	0.012 J	<0.0081 U
Total PAH (16) [5]	µg/L	NS	**NS**	0.099	<0.62 U	1.5	1.1	1.2	2.676	<0.75 U	1.5	2	1.9	13.27	13.53	6.25	2.9	3.4	5.6	4.8	2.9	2.8487	5.356	3.411
Petroleum Hydrocarbons																									
Diesel Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals																									
Iron, Total	µg/L	150	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**4,700**	**5,000**	--	--	--	--
Cyanide																									
Cyanide DISS (amenable)	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide DISS, total	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide, Amenable	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide, Total	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lab MNA Parameters																									
Carbon Dioxide	µg/L	NS	**NS**	--	65,000	92,000	66,000	--	74,000	--	57,000	70,000	--	98,000	44,000	30,000	--	23,000	50,000	--	32,000	--	--	--
Carbon monoxide	mg/L	10,000	**10,000**	--	<0.4 U	<0.4 U	<0.40 U	--	--	--	--	--	--	<1 U	<1 U	<1 U	--	<1 U	--	--	--	--	--	--
Ethane	µg/L	NS	**NS**	--	140.000	900.000	300.000	--	490.000	--	260.000	540	110	0.29	30	18	46	10	18	--	3.5	--	--	--
Ethene	µg/L	NS	**NS**	--	2.300	<0.005 U	3.200	--	<0.0050 U	--	<0.005 U	<0.025 U	0.05	0.032	<0.025 U	<0.025 U	0.025	<0.025 U	<0.025 U	--	<0.13 U	--	--	--
Iron, Dissolved	µg/L	150	**300**	--	--	**4,100**	**3,200**	--	**3,000**	--	**4,300**	**5,100**	**6,100**	**11,000**	**5,100**	**3,000**	**2,800**	**2,200**	--	--	**3,300**	**6,980**	--	**8,240**
Manganese, Dissolved	µg/L	60	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**326**	--	**394**
Methane	µg/L	NS	**NS**	--	7,100	14,000	14,000	--	8,900	--	14,000	12,000	17,000	3,600	15,000	1,400	14,000	1,500	11,000	--	470	2,850	--	6,770
Nitrogen, NO2 + NO3, Total	µg/L	2,000	**10,000**	<500 U	<500 U	<24 U	71	--	29	--	<24 U	260 B	100 J	<100 U	<0.5 U	<100 U	<100 U	<100 U	<100 U	--	77 J	<95 U	--	<59 U
Nitrogen	µg/L	NS	**NS**	--	10,000	12,000	8,600	--	--	--	--	--	--	10,000	14,000	17,000	--	--	14,000	--	21,000	--	--	--
Oxygen	µg/L	NS	**NS**	--	500	630	530	--	--	--	--	--	--	620	1,500	1,700	--	2,200	1,600	--	3,100	--	--	--
Sulfate, Total	µg/L	125,000	**250,000**	4,900	<2,000 U	<2,000 U	6,600	--	6,200	--	21,000	11,000 J	<10,000 U	<10,000 U	4,730 B,	24,000 J	3,600 J	5,700	<1,500 U	17,000	5,300 B	15,300 J	--	<2,200 U
Field Parameters																									
Dissolved oxygen	mg/L	NS	**NS**	--	--	1.4	0.11	0.42	0.22	0.1	0.05	0.08	0.13	0.03	0.06	0.11	0.11	0.28	0.26	--	--	0.23	0.21	0.15
Groundwater, depth to	feet	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	13.82	14.86	14.03
Oxidation Reduction Potential	millivolts	NS	**NS**	--	--	-127	-331.9	-182.7	-87.5	-98	-127.7	-102.8	-144.2	-201.3	-215	-114.1	-118.3	-106.1	-147.9	--	--	-174	-139	-124.2
pH, Field	s.u.	NS	**NS**	--	--	6.89	7.1	7.07	7.67	7.03	7.01	6.93	7.26	7.12	6.94	7.04	7.05	7.12	6.93	--	--	7.17	6.96	7.21
Specific Conductance, Field	µS/cm	NS	**NS**	--	--	1,554	1,062	942	1,409	1,294	753	1,493	1,087	1,510	796	1,178	908	1,189	1,270	--	--	1.018	940	1109.5
Temperature, Water	Deg C	NS	**NS**	--	--	16.3	15.72	15.6	16.24	16.59	15.76	15.89	15.29	15.1	15.36	17.17	15.83	16.25	14.44	--	--	17.54	12.40	11.07
Turbidity, Quantitative	NTUs	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8.6	0.0	0.98

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:	Units	WI GW PAL	WI GW ES	W-49S																			
Depth Level Unit:				Upper Shallow																			
Sample Date (m/d/yyyy):				12/19/2000	6/18/2002	11/21/2003	3/9/2004	6/7/2004	9/7/2004	12/9/2004	3/21/2005	9/21/2005	3/21/2006	9/28/2006	3/27/2007	9/19/2007	3/24/2008	9/3/2008	3/25/2009	8/24/2015	8/22/2016	2/27/2017	12/16/2019
BTEX																							
Benzene	µg/L	0.5	**5**	<0.1 U	<0.1 U	<0.2 U	<0.2 U	<0.2 U	0.6	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.074 U	<0.50 U	<0.50 U	<0.25 U
Ethylbenzene	µg/L	140	**700**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.13 U	<0.50 U	<0.50 U	<0.22 U
Toluene	µg/L	160	**800**	<0.1 U	0.12	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.5 U	<0.11 U	<0.50 U	<0.50 U	<0.17 U
Xylene, o	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.50 U	<0.50 U	<0.26 U
Xylenes, m + p	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.0 U	<1.0 U	<0.47 U
Xylenes, Total[1]	µg/L	400	**2,000**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.068 U	<1.5 U	<1.5 U	<0.73 U
Total BTEX [2]	µg/L	NS	**NS**	<0.7 U	0.12	<1.4 U	<1.4 U	<1.4 U	0.6	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.7 U	<1.7 U	<0.382 U	<3 U	<3 U	<1.37 U
VOCs																							
1,1,1,2-Tetrachloroethane	µg/L	7	**70**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.18 U	<0.18 U	<0.27 U
1,1,1-Trichloroethane	µg/L	40	**200**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.2 U	<0.50 U	<0.50 U	<0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.02	**0.2**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.23 U	<0.25 U	<0.25 U	<0.28 U
1,1,2-Trichloroethane	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.28 U	<0.20 U	<0.20 U	<0.55 U
1,1-Dichloroethane	µg/L	85	**850**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.19 U	<0.24 U	<0.24 U	<0.27 U
1,1-Dichloroethene	µg/L	0.7	**7**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.31 U	<0.41 U	<0.41 U	<0.24 U
1,1-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.34 U	<0.44 U	<0.44 U	<0.54 U
1,2,3-Trichlorobenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.24 U	<2.1 U	<2.1 U	<0.63 U
1,2,3-Trichloropropane	µg/L	12	**60**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.45 U	<0.50 U	<0.50 U	<0.59 U
1,2,4-Trichlorobenzene	µg/L	14	**70**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.31 U	<2.2 U	<2.2 U	<0.95 U
1,2-Dibromo-3-chloropropane	µg/L	0.02	**0.2**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.87 U	<2.2 U	<2.2 U	<1.8 U
1,2-Dibromoethane	µg/L	0.005	**0.05**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.36 U	<0.18 U	<0.18 U	<0.83 U
1,2-Dichlorobenzene	µg/L	60	**600**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.27 U	<0.50 U	<0.50 U	<0.71 U
1,2-Dichloroethane	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.28 U	<0.17 U	<0.17 U	<0.28 U
1,2-Dichloropropane	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.2 U	<0.23 U	<0.23 U	<0.28 U
1,2,4-Trimethylbenzene	µg/L	NS	**NS**	<0.1 U	<0.1 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.14 U	<0.50 U	<0.50 U	<0.84 U
1,3,5-Trimethylbenzene	µg/L	NS	**NS**	<0.1 U	<0.1 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.18 U	<0.50 U	<0.50 U	<0.87 U
Trimethylbenzenes, Total [3]	µg/L	96	**480**	<0.2 U	<0.2 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.32 U	<1 U	<1 U	<1.71 U
1,3-Dichlorobenzene	µg/L	120	**600**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.20 U	<0.15 U	<0.50 U	<0.63 U
1,3-Dichloropropane	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.13 U	<0.50 U	<0.50 U	<0.83 U
1,4-Dichlorobenzene	µg/L	15	**75**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.5 U	<0.15 U	<0.50 U	<0.50 U	<0.94 U
2,2-Dichloropropane	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.32 U	<0.48 U	<0.48 U	<2.3 U
2,3-Dichloropropene	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	--	--	--
2-Chlorotoluene	µg/L	NS	**NS**	<0.1 U	<0.1 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.21 U	<0.50 U	<0.50 U	<0.93 U
4-Chlorotoluene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.21 U	<0.76 U
4-Isopropyltoluene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.17 U	<0.50 U	<0.50 U	<0.80 U
Bromobenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.25 U	<0.23 U	<0.23 U	<0.24 U
Bromochloromethane	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.4 U	<0.34 U	<0.34 U	<0.36 U
Bromodichloromethane	µg/L	0.06	**0.6**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.17 U	<0.50 U	<0.50 U	<0.36 U
Bromoform	µg/L	0.44	**4.4**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.28 U	<0.50 U	<0.50 U	<4.0 U
Bromomethane	µg/L	1	**10**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.5 U	<0.31 U	<2.4 U	<2.4 U	<0.97 U
Carbon Tetrachloride	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.26 U	<0.50 U	<0.50 U	<0.17 U
Chlorobenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.14 U	<0.50 U	<0.50 U	<0.71 U
Chloroethane	µg/L	80	**400**	<0.25 U	<0.25 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<0.34 U	<0.37 U	<0.37 U	<1.3 U
Chloroform	µg/L	0.6	**6**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<2.5 U	<2.5 U	<1.3 U
Chloromethane	µg/L	3	**30**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	0.47 J	<0.2 U	<0.3 U	<0.3 U	<0.18 U	<0.50 U	<0.50 U	<2.2 U
cis-1,2-Dichloroethene	µg/L	7	**70**	0.38	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	0.79 J	<0.5 U	<0.5 U	<0.12 U	<0.26 U	<0.26 U	<0.27 U
cis-1,3-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.18 U	<0.50 U	<0.50 U	<3.6 U
trans-1,3-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.23 U	<0.23 U	<4.4 U
1,3-Dichloropropene [4]	µg/L	0.04	**0.4**	<0.5 U	<0.5 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.39 U	<0.73 U	<0.73 U	<8 U
Dibromochloromethane	µg/L	6	**60**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.32 U	<0.50 U	<0.50 U	<2.6 U
Dibromomethane	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.33 U	<0.43 U	<0.43 U	<0.94 U
Freon 12	µg/L	200	**1,000**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.2 U	<0.22 U	<0.22 U	<0.50 U
Hexachlorobutadiene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.26 U	<2.1 U	<2.1 U	<1.2 U
Isopropyl ether	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.15 U	<0.50 U	<0.50 U	<1.9 U
Isopropylbenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.14 U	<0.14 U	<0.14 U	<0.39 U
Methylene chloride (DCM)	µg/L	0.5	**5**	<0.25 U	<0.25 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<0.68 U	<0.23 U	<0.23 U	<0.58 U
Methyl-tert-butyl-ether	µg/L	12	**60**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.24 U	<0.17 U	<0.17 U	<1.2 U
Naphthalene	µg/L	10	**100**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	0.25	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.16 U	<2.5 U	<2.5 U	<1.2 U
n-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.13 U	<0.50 U	<0.50 U	<0.71 U
n-Propylbenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.13 U	<0.50 U	<0.50 U	<0.81 U
sec-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.15 U	<2.2 U	<2.2 U	<0.85 U
Styrene	µg/L	10	**100**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.5 U	<0.1 U	<0.50 U	<0.50 U	<0.47 U
tert-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.14 U	<0.18 U	<0.18 U	<0.30 U
Tetrachloroethene	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.17 U	<0.50 U	<0.50 U	<0.33 U
trans-1,2-Dichloroethene	µg/L	20	**100**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.25 U	<0.26 U	<0.26 U	<1.1 U
Trichloroethene	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.20 U	<0.2 U	<0.2 U	<0.19 U	<0.33 U	<0.33 U	<0.26 U
Trichlorofluoromethane	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.19 U	<0.18 U	<0.18 U	<0.21 U
Vinyl Chloride	µg/L	0.02	**0.2**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.1 U	<0.18 U	<0.18 U	<0.17 U

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:	Units	WI GW PAL	WI GW ES	W-49S																			
Depth Level Unit:				Upper Shallow																			
Sample Date (m/d/yyyy):				12/19/2000	6/18/2002	11/21/2003	3/9/2004	6/7/2004	9/7/2004	12/9/2004	3/21/2005	9/21/2005	3/21/2006	9/28/2006	3/27/2007	9/19/2007	3/24/2008	9/3/2008	3/25/2009	8/24/2015	8/22/2016	2/27/2017	12/16/2019
PAHs																							
1-Methylnaphthalene	µg/L	NS	**NS**	<0.4 U	<0.59 U	<0.44 U	<0.44 U	<1.10 U	<0.32 U	<0.34 U	<0.35 U	<0.32 U	<0.33 U	<0.58 U	<0.33 U	<0.91 U	<0.34 U	<0.32 U	<0.32 U	--	<0.0031 U	<0.0058 U	<0.0060 U
2-Methylnaphthalene	µg/L	NS	**NS**	<0.6 U	<0.56 U	<0.3 U	<0.3 U	<0.75 U	<0.31 U	<0.33 U	<0.34 U	<0.31 U	<0.32 U	<0.56 U	<0.32 U	<0.89 U	<0.33 U	<0.31 U	<0.31 U	--	0.0042 J	<0.0048 U	0.0062 J
Acenaphthene	µg/L	NS	**NS**	<0.22 U	<0.51 U	<0.59 U	<0.58 U	<1.40 U	<0.33 U	<0.35 U	<0.36 U	<0.33 U	<0.34 U	<0.6 U	<0.34 U	<0.94 U	<0.35 U	<0.33 U	<0.33 U	<0.26 U	<0.0049 U	<0.0060 U	<0.0061 U
Acenaphthylene	µg/L	NS	**NS**	<0.55 U	<0.23 U	<0.25 U	<0.25 U	<0.62 U	<0.69 U	<0.72 U	<0.75 U	<0.69 U	<0.71 U	<1.3 U	<0.71 U	<2 U	<0.73 U	<0.69 U	<0.69 U	<0.22 U	<0.0049 U	<0.0049 U	<0.0050 U
Anthracene	µg/L	600	**3,000**	0.094	<0.091 U	<0.034 U	<0.034 U	<0.085 U	<0.038 U	<0.040 U	<0.041 U	<0.038 U	<0.039 U	<0.069 U	<0.039 U	<0.11 U	<0.04 U	<0.038 U	<0.038 U	<0.28 U	<0.0040 U	<0.010 U	<0.011 U
Benzo(a)anthracene	µg/L	NS	**NS**	0.15	<0.15 U	<0.057 U	<0.056 U	<0.140 U	<0.044 U	<0.046 U	<0.048 U	0.047 J	<0.045 U	<0.08 U	<0.045 U	<0.13 U	<0.046 U	<0.044 U	<0.044 U	<0.047 U	<0.0051 U	<0.0074 U	<0.0076 U
Benzo(a)pyrene	µg/L	0.02	**0.2**	0.086	<0.015 U	<0.033 U	<0.033 U	<0.082 U	<0.032 U	<0.034 U	<0.035 U	0.054 J	<0.033 U	<0.058 U	<0.033 U	<0.091 U	<0.034 U	<0.032 U	<0.032 U	<0.083 U	<0.0044 U	<0.010 U	<0.011 U
Benzo(b)fluoranthene	µg/L	0.02	**0.2**	<0.043 U	<0.046 U	<0.054 U	<0.053 U	<0.130 U	<0.098 U	<0.100 U	<0.110 U	<0.098 U	<0.1 U	<0.18 U	<0.1 U	<0.28 U	<0.1 U	<0.098 U	<0.098 U	<0.068 U	<0.0053 U	<0.0056 U	<0.0058 U
Benzo(g,h,i)perylene	µg/L	NS	**NS**	<0.1 U	<0.18 U	<0.097 U	<0.096 U	<0.240 U	<0.12 U	<0.13 U	<0.13 U	<0.12 U	<0.12 U	<0.22 U	<0.12 U	<0.34 U	<0.13 U	<0.12 U	<0.12 U	<0.31 U	0.0077 J	<0.0066 U	<0.0068 U
Benzo(k)fluoranthene	µg/L	NS	**NS**	<0.029 U	<0.029 U	<0.045 U	<0.045 U	<0.110 U	<0.049 U	<0.051 U	<0.053 U	0.058 J	<0.051 U	<0.089 U	<0.051 U	<0.14 U	<0.052 U	<0.049 U	<0.049 U	<0.054 U	<0.0056 U	<0.0074 U	<0.0076 U
Chrysene	µg/L	0.02	**0.2**	0.068	<0.036 U	<0.049 U	<0.049 U	<0.120 U	<0.041 U	<0.043 U	<0.045 U	<0.041 U	<0.042 U	<0.075 U	<0.042 U	<0.12 U	<0.043 U	<0.041 U	<0.041 U	<0.057 U	<0.0042 U	<0.013 U	<0.013 U
Dibenz(a,h)anthracene	µg/L	NS	**NS**	<0.16 U	<0.087 U	<0.065 U	<0.064 U	<0.160 U	<0.13 U	<0.14 U	<0.14 U	<0.13 U	<0.13 U	<0.24 U	<0.13 U	<0.37 U	<0.14 U	<0.13 U	<0.13 U	<0.043 U	<0.0055 U	<0.0098 U	<0.010 U
Fluoranthene	µg/L	80	**400**	0.38	<0.13 U	<0.024 U	<0.024 U	<0.060 U	<0.081 U	<0.085 U	<0.088 U	<0.081 U	<0.084 U	<0.15 U	<0.084 U	<0.23 U	<0.085 U	<0.081 U	<0.081 U	<0.38 U	<0.0093 U	<0.010 U	<0.011 U
Fluorene	µg/L	80	**400**	<0.029 U	<0.16 U	<0.065 U	<0.064 U	<0.160 U	<0.062 U	<0.065 U	<0.068 U	<0.062 U	<0.064 U	<0.11 U	<0.064 U	<0.18 U	<0.065 U	<0.062 U	<0.062 U	<0.2 U	<0.0040 U	<0.0078 U	<0.0081 U
Indeno(1,2,3-cd)pyrene	µg/L	NS	**NS**	<0.083 U	<0.035 U	<0.031 U	<0.031 U	<0.078 U	<0.062 U	<0.065 U	<0.068 U	<0.062 U	<0.064 U	<0.11 U	<0.064 U	<0.18 U	<0.065 U	<0.062 U	<0.062 U	<0.063 U	<0.0035 U	<0.017 U	<0.018 U
Naphthalene	µg/L	10	**100**	14	<0.66 U	<0.26 U	<0.26 U	<0.65 U	<0.4 U	<0.42 U	<0.44 U	<0.4 U	<0.41 U	<0.73 U	<0.41 U	<1.1 U	<0.42 U	<0.4 U	<0.4 U	<0.26 U	0.011 J	<0.018 U	<0.019 U
Phenanthrene	µg/L	NS	**NS**	0.36	<0.023 U	<0.02 U	<0.02 U	<0.05 U	<0.03 U	<0.032 U	<0.033 U	<0.03 U	<0.031 U	<0.055 U	<0.031 U	<0.086 U	<0.032 U	<0.03 U	<0.03 U	<0.25 U	<0.0076 U	<0.014 U	<0.014 U
Pyrene	µg/L	50	**250**	0.19	<0.014 U	<0.04 U	<0.04 U	<0.10 U	<0.044 U	<0.046 U	<0.048 U	<0.044 U	<0.045 U	<0.08 U	<0.045 U	<0.13 U	<0.046 U	<0.044 U	<0.044 U	<0.36 U	0.013 JB	0.011 J	<0.0077 U
Total PAH (16) [5]	µg/L	NS	**NS**	15.328	<0.66 U	<0.59 U	<0.58 U	<1.4 U	<0.69 U	<0.72 U	<0.75 U	0.159	<0.71 U	<1.3 U	<0.71 U	<2 U	<0.73 U	<0.69 U	<0.69 U	<0.38	0.0317	0.011	<0.019
Petroleum Hydrocarbons																							
Diesel Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals																							
Iron, Total	µg/L	150	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**6,600**	--	--	--	--
Cyanide																							
Cyanide DISS (amenable)	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide DISS, total	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide, Amenable	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide, Total	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lab MNA Parameters																							
Carbon Dioxide	µg/L	NS	**NS**	--	120,000	150,000	110,000	--	140,000	--	150,000	140,000	160,000	120,000	180,000	150,000	--	150,000	150,000	86,000	--	--	--
Carbon monoxide	mg/L	10,000	**10,000**	--	<0.4 U	<0.4 U	<0.40 U	--	--	--	--	--	--	<1 U	<1 U	<1 U	--	<1 U	--	--	--	--	--
Ethane	µg/L	NS	**NS**	--	0.160	0.990	0.220	--	3.500	--	8.900	13	13	3.5	6	5	6.1	5.7	7.2	0.62	--	--	--
Ethene	µg/L	NS	**NS**	--	<0.005 U	0.013	0.440	--	0.039	--	0.0087	<0.025 U	<0.025 U	0.073	0.046	<0.025 U	0.029	<0.025 U	<0.025 U	<0.13 U	--	--	--
Iron, Dissolved	µg/L	150	**300**	--	--	**2,000**	**390**	--	**4,200**	--	150	**2,400**	**1,700**	--	**750**	**6,200**	**9,400**	**9,600**	--	**2,100**	**5,370**	--	**469** J
Manganese, Dissolved	µg/L	60	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**382**	--	98.1
Methane	µg/L	NS	**NS**	--	14	1,400	49	--	3,600	--	1,100	3,900	4,800	3,400	1,100	600	1,200	1,500	2,100	880	1,040	--	37.5
Nitrogen, NO2 + NO3, Total	µg/L	2,000	**10,000**	<500 U	1,200	150	590	--	<24 U	--	150	510 B	<100 U	--	<0.5 U	<100 U	<100 U	<100 U	<100 U	67 J	<95 U	--	9,900
Nitrogen	µg/L	NS	**NS**	--	16,000	15,000	16,000	--	--	--	--	--	--	11,000	19,000	15,000	--	--	17,000	20,000	--	--	--
Oxygen	µg/L	NS	**NS**	--	3,700	690	690	--	--	--	--	--	--	3,400	1,800	1,400	--	2,400	1,900	3,600	--	--	--
Sulfate, Total	µg/L	125,000	**250,000**	23,000	86,000	46,000	44,000	--	43,000	--	76,000	46,000	50,000	--	126,000	49,000	22,000	19,000	7,400	200,000 B	94,900	--	121,000
Field Parameters																							
Dissolved oxygen	mg/L	NS	**NS**	--	--	4.95	0.11	0.63	0.25	0.19	0.06	0.07	0.41	--	0.35	0.1	0.18	0.3	0.37	--	0.12	0.18	1.64
Groundwater, depth to	feet	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.51	13.79	11.76
Oxidation Reduction Potential	millivolts	NS	**NS**	--	--	-53.3	-332.9	-112.2	-158.2	-87.5	-233.8	-50.2	-71.7	--	2.3	-82.9	-101.9	-35.6	-115.3	--	-120	-73	27.6
pH, Field	s.u.	NS	**NS**	--	--	6.81	7.05	6.94	7.96	6.96	6.96	6.8	6.92	--	6.55	6.79	6.79	6.82	6.6	--	7.02	6.90	7.18
Specific Conductance, Field	µS/cm	NS	**NS**	--	--	5,855	6,040	5,816	4,769	3,944	3,412	4,023	4,730	--	6,238	6,029	6,005	6,356	10,408	--	7.38	7,630	6029.9
Temperature, Water	Deg C	NS	**NS**	--	--	17.47	15.62	15.23	17.09	17.79	16.05	17.18	15.31	--	15.78	18.03	16.11	19.29	13.04	--	18.39	12.90	12.33
Turbidity, Quantitative	NTUs	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17.8	24.4	33.87

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:				W-50S																W-51S		W-52D										
Depth Level Unit:				Upper Shallow																Upper Shallow		Lower Shallow										
Sample Date (m/d/yyyy):	Units	WI GW PAL	WI GW ES	5/24/2002	6/18/2002	11/24/2003	3/9/2004	6/7/2004	9/8/2004	12/7/2004	3/17/2005	9/20/2005	3/20/2006	9/27/2006	3/27/2007	9/20/2007	3/26/2008	9/2/2008	3/26/2009	5/24/2002	3/23/2006	5/24/2002	6/17/2002	11/20/2003	3/9/2004	6/7/2004	9/7/2004	12/7/2004	3/17/2005	9/21/2005	3/22/2006	9/29/2006
BTEX																																
Benzene	µg/L	0.5	**5**	0.87	<0.1 U	<0.2 U	<0.2 U	<0.2 U	0.45	2.7	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	680 J	910	700	2,100	1,400	1,900	2,700	2,000	2,100	16	1.3
Ethylbenzene	µg/L	140	**700**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	0.65	<5.00 U	<0.5 U	0.86	0.68	0.86	<20.0 U	<12.0 U	<20 U	<0.5 U	<0.5 U
Toluene	µg/L	160	**800**	0.38	<0.1 U	<0.2 U	0.3	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.5 U	--	<0.2 U	0.93	<2.0 U	0.6	0.74	0.67	0.75	<8.0 U	<5.0 U	<8 U	<0.2 U	<0.2 U
Xylene, o	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes, m + p	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes, Total [1]	µg/L	400	**2,000**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	1.5	<5.00 U	1.4	2.3	2	2.2	<20.0 U	<12.0 U	<20 U	<0.5 U	<0.5 U
Total BTEX [2]	µg/L	NS	**NS**	1.25	<0.7 U	<1.4 U	0.3	<1.4 U	0.45	2.7	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.7 U	<1.7 U	--	<1.4 U	683.08	910	702	2103.9	1403.4	1903.8	2700	2000	2100	16	1.3
VOCs																																
1,1,1,2-Tetrachloroethane	µg/L	7	**70**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	<5.00 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<10.00 U	<6.20 U	<10 U	<0.25 U	<0.25 U
1,1,1-Trichloroethane	µg/L	40	**200**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.25 U	<5.00 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<20.0 U	<12.0 U	<20 U	<0.5 U	<0.5 U
1,1,2,2-Tetrachloroethane	µg/L	0.02	**0.2**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.25 U	<5.00 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<8.0 U	<5.0 U	<8 U	<0.2 U	<0.2 U
1,1,2-Trichloroethane	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	<5.00 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<10.00 U	<6.20 U	<10 U	<0.25 U	<0.25 U
1,1-Dichloroethane	µg/L	85	**850**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.25 U	<5.00 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<20.0 U	<12.0 U	<20 U	<0.5 U	<0.5 U
1,1-Dichloroethene	µg/L	0.7	**7**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.25 U	<5.00 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<20.0 U	<12.0 U	<20 U	<0.5 U	<0.5 U
1,1-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.25 U	<5.00 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<20.0 U	<12.0 U	<20 U	<0.5 U	<0.5 U
1,2,3-Trichlorobenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	<5.00 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<10.00 U	<6.20 U	<10 U	<0.25 U	<0.25 U
1,2,3-Trichloropropane	µg/L	12	**60**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.25 U	<5.00 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<20.0 U	<12.0 U	<20 U	<0.5 U	<0.5 U
1,2,4-Trichlorobenzene	µg/L	14	**70**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	<5.00 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<10.00 U	<6.20 U	<10 U	<0.25 U	<0.25 U
1,2-Dibromo-3-chloropropane	µg/L	0.02	**0.2**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.25 U	<5.00 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<20.0 U	<12.0 U	<20 U	<0.5 U	<0.5 U
1,2-Dibromoethane	µg/L	0.005	**0.05**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.25 U	<5.00 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<8.0 U	<5.0 U	<8 U	<0.2 U	<0.2 U
1,2-Dichlorobenzene	µg/L	60	**600**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	0.21 J	<0.25 U	<5.00 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<8.0 U	<5.0 U	<8 U	<0.2 U	<0.2 U
1,2-Dichloroethane	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.25 U	<5.00 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<20.0 U	<12.0 U	<20 U	<0.5 U	<0.5 U
1,2-Dichloropropane	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.25 U	<5.00 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<20.0 U	<12.0 U	<20 U	<0.5 U	<0.5 U
1,2,4-Trimethylbenzene	µg/L	NS	**NS**	<0.1 U	<0.1 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	1.5	0.3	<2.0 U	0.38	0.31	0.32	0.39	<8.0 U	<5.0 U	<8 U	<0.2 U	<0.2 U
1,3,5-Trimethylbenzene	µg/L	NS	**NS**	<0.1 U	<0.1 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.1 U	<2.0 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<8.0 U	<5.0 U	<8 U	<0.2 U	<0.2 U
Trimethylbenzenes, Total [3]	µg/L	96	**480**	<0.2 U	<0.2 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	--	1.5	0.3	<4 U	0.38	0.31	0.32	0.39	<16 U	<10 U	<16 U	<0.4 U	<0.4 U
1,3-Dichlorobenzene	µg/L	120	**600**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.25 U	<5.00 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<8.0 U	<5.0 U	<8 U	<0.2 U	<0.2 U
1,3-Dichloropropane	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	<0.25 U	<0.25 U	<5.00 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<10.00 U	<6.20 U	<10 U	<0.25 U	<0.25 U
1,4-Dichlorobenzene	µg/L	15	**75**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.5 U	--	<0.2 U	<0.25 U	<5.00 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<8.0 U	<5.0 U	<8 U	<0.2 U	<0.2 U
2,2-Dichloropropane	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.25 U	<5.00 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<20.0 U	<12.0 U	<20 U	<0.5 U	<0.5 U
2,3-Dichloropropene	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	µg/L	NS	**NS**	<0.1 U	<0.1 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.1 U	<2.0 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<20.0 U	<12.0 U	<20 U	<0.5 U	<0.5 U
4-Chlorotoluene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.25 U	<5.00 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<8.0 U	<5.0 U	<8 U	<0.2 U	<0.2 U
4-Isopropyltoluene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.25 U	<5.00 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<8.0 U	<5.0 U	<8 U	<0.2 U	<0.2 U
Bromobenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.25 U	<5 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<8.0 U	<5.0 U	<8 U	<0.2 U	<0.2 U
Bromochloromethane	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.25 U	<5.00 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<20.0 U	<12.0 U	<20 U	<0.5 U	<0.5 U
Bromodichloromethane	µg/L	0.06	**0.6**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.25 U	<5.00 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<8.0 U	<5.0 U	<8 U	<0.2 U	<0.2 U
Bromoform	µg/L	0.44	**4.4**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.25 U	<5.00 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<8.0 U	<5.0 U	<8 U	<0.2 U	<0.2 U
Bromomethane	µg/L	1	**10**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.5 U	--	<0.2 U	<0.25 U	<5.00 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<8.0 U	<5.0 U	<8 U	<0.2 U	<0.2 U
Carbon Tetrachloride	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.25 U	<5.00 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<20.0 U	<12.0 U	<20 U	<0.5 U	<0.5 U
Chlorobenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.25 U	<5.00 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<8.0 U	<5.0 U	<8 U	<0.2 U	<0.2 U
Chloroethane	µg/L	80	**400**	<0.25 U	<0.25 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	--	<1 U	<0.25 U	<5.00 U	<1 U	<1 U	<1 U	<1 U	<40 U	<25 U	<40 U	<1 U	<1 U
Chloroform	µg/L	0.6	**6**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.25 U	<5.00 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<8.0 U	<5.0 U	<8 U	<0.2 U	<0.2 U
Chloromethane	µg/L	3	**30**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.3 U	<0.3 U	--	<0.2 U	<0.25 U	<5.00 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<8.0 U	<5.0 U	<8 U	<0.2 U	<0.2 U
cis-1,2-Dichloroethene	µg/L	7	**70**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.25 U	<5.00 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<20.0 U	<12.0 U	<20 U	<0.5 U	<0.5 U
cis-1,3-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.25 U	<5.00 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<8.0 U	<5.0 U	<8 U	<0.2 U	<0.2 U
trans-1,3-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.25 U	<5.00 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<8.0 U	<5.0 U	<8 U	<0.2 U	<0.2 U
1,3-Dichloropropene [4]	µg/L	0.04	**0.4**	<0.5 U	<0.5 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	--	<0.4 U	<0.5 U	<10 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<16 U	<10 U	<16 U	<0.4 U	<0.4 U
Dibromochloromethane	µg/L	6	**60**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.25 U	<5.00 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<8.0 U	<5.0 U	<8 U	<0.2 U	<0.2 U
Dibromomethane	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.25 U	<5.00 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<8.0 U	<5.0 U	<8 U	<0.2 U	<0.2 U
Freon 12	µg/L	200	**1,000**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.25 U	<5.00 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<20.0 U	<12.0 U	<20 U	<0.5 U	<0.5 U
Hexachlorobutadiene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.25 U	<5.00 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<20.0 U	<12.0 U	<20 U	<0.5 U	<0.5 U
Isopropyl ether	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.25 U	<5.00 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<20.0 U	<12.0 U	<20 U	<0.5 U	<0.5 U
Isopropylbenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	10	5.1	8.2	6.4	6.3	6	7.6	<8.0 U	5.2	<8 U	1.7	0.28 J
Methylene chloride (DCM)	µg/L	0.5	**5**	0.45	<0.25 U	<1 U	<1 U	<1 U	1.4	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	--	<1 U	0.45	71	<1 U	<1 U	<1 U	<1 U	<40 U	<25 U	<40 U	<1 U	<1 U
Methyl-tert-butyl-ether	µg/L	12	**60**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.25 U	<5.00 U	<0.5 U	<0.5 U	<0.5 U	0.74	<20.0 U	<12.0 U	<20 U	<0.5 U	<0.5 U
Naphthalene	µg/L	10	**100**	0.25	0.34	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	1.7	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	0.85	1.1	<5.00 U	0.96	1.1	0.9	1.3	<10.00 U	<6.20 U	22 J	0.3 J	0.53 J
n-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	6.3	<0.25 U	<5.00 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<8.0 U	<5.0 U	<8 U	<0.2 U	<0.2 U
n-Propylbenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	14	0.34	<5.00 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<20.0 U	<12.0 U	<20 U	<0.5 U	<0.5 U
sec-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	--	5.8	<0.25 U	<5.00 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<10.00 U	<6.20 U	<10 U	<0.25 U	<0.25 U
Styrene	µg/L	10	**100**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.5 U	--	<0.2 U	<0.25 U	<5 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<8.0 U	<5.0 U	<8 U	<0.2 U	<0.2 U
tert-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.25 U	<5.00 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<8.0 U	<5.0 U	<8 U	<0.2 U	<0.2 U
Tetrachloroethene	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.25 U	<5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<20.0 U	<12.0 U	<20 U	<0.5 U	<0.5 U
trans-1,2-Dichloroethene	µg/L	20	**100**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.25 U	<5.00 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<20.0 U	<12.0 U	<20 U	<0.5 U	<0.5 U
Trichloroethene	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.25 U	<5.00 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<8.0 U	<5.0 U	<8 U	<0.2 U	<0.2 U
Trichlorofluoromethane	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	--	<0.5 U	<0.25 U	<5.00 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<20.0 U	<12.0 U	<20 U	<0.5 U	<0.5 U
Vinyl Chloride	µg/L	0.02	**0.2**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	--	<0.2 U	<0.25 U	<5.00 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<8.0 U	<5.0 U	<8 U	<0.2 U	<0.2 U

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:				W-50S																W-51S		W-52D											
Depth Level Unit:				Upper Shallow																Upper Shallow		Lower Shallow											
Sample Date (m/d/yyyy):	Units	WI GW PAL	WI GW ES	5/24/2002	6/18/2002	11/24/2003	3/9/2004	6/7/2004	9/8/2004	12/7/2004	3/17/2005	9/20/2005	3/20/2006	9/27/2006	3/27/2007	9/20/2007	3/26/2008	9/2/2008	3/26/2009	5/24/2002	3/23/2006	5/24/2002	6/17/2002	11/20/2003	3/9/2004	6/7/2004	9/7/2004	12/7/2004	3/17/2005	9/21/2005	3/22/2006	9/29/2006
PAHs																																	
1-Methylnaphthalene	µg/L	NS	**NS**	<0.60 U	<0.60 U	<0.44 U	<1.50 U	<0.44 U	<0.33 U	<0.80 U	<0.33 U	<0.32 U	<0.33 U	<0.33 U	<0.33 U	<0.33 U	<0.32 U	<0.32 U	<0.32 U	--	--	1.1	1.4	<0.44 U	1.2	1.1	1.2	1.6	1.3	1.6	0.71 J	0.34 J
2-Methylnaphthalene	µg/L	NS	**NS**	<0.57 U	<0.57 U	<0.3 U	<1.0 U	<0.3 U	<0.32 U	<0.78 U	<0.32 U	<0.31 U	<0.32 U	<0.32 U	<0.32 U	<0.32 U	<0.31 U	<0.31 U	<0.31 U	--	--	0.53	<0.51 U	<0.3 U	<0.33 U	<0.3 U	<0.78 U	<0.32 U	<0.33 U	<0.31 U	<0.32 U	<0.32 U
Acenaphthene	µg/L	NS	**NS**	<0.51 U	<0.51 U	<0.59 U	<1.90 U	<0.59 U	<0.34 U	<0.82 U	<0.34 U	<0.33 U	<0.34 U	<0.34 U	<0.34 U	<0.34 U	<0.33 U	<0.33 U	<0.33 U	--	--	<0.50 U	<0.46 U	<0.58 U	<0.64 U	<0.58 U	<0.82 U	<0.34 U	<0.35 U	<0.33 U	<0.34 U	<0.34 U
Acenaphthylene	µg/L	NS	**NS**	<0.23 U	<0.23 U	<0.25 U	<0.83 U	<0.25 U	<0.71 U	<1.70 U	<0.72 U	<0.69 U	<0.7 U	<0.71 U	<0.71 U	<0.71 U	<0.69 U	<0.69 U	<0.7 U	--	--	<0.23 U	<0.21 U	<0.25 U	<0.28 U	<0.25 U	<1.70 U	<0.70 U	<0.73 U	<0.69 U	<0.72 U	<0.7 U
Anthracene	µg/L	600	**3,000**	<0.092 U	<0.092 U	<0.034 U	<0.110 U	<0.034 U	<0.039 U	0.1	<0.040 U	<0.038 U	<0.039 U	<0.039 U	<0.039 U	<0.039 U	<0.038 U	<0.038 U	<0.038 U	--	--	<0.090 U	<0.083 U	<0.034 U	0.13	<0.034 U	<0.095 U	<0.039 U	<0.040 U	<0.038 U	<0.04 U	<0.039 U
Benzo(a)anthracene	µg/L	NS	**NS**	<0.16 U	<0.16 U	<0.057 U	<0.190 U	<0.057 U	<0.045 U	0.7	<0.046 U	<0.044 U	<0.045 U	<0.045 U	<0.045 U	<0.045 U	<0.044 U	<0.044 U	<0.044 U	--	--	<0.15 U	<0.14 U	<0.056 U	0.18	<0.056 U	<0.110 U	<0.045 U	<0.047 U	<0.044 U	<0.046 U	<0.045 U
Benzo(a)pyrene	µg/L	0.02	**0.2**	<0.016 U	<0.016 U	<0.033 U	<0.110 U	<0.033 U	<0.033 U	<0.080 U	<0.033 U	<0.032 U	<0.033 U	<0.033 U	<0.033 U	<0.033 U	<0.032 U	<0.032 U	<0.032 U	--	--	<0.015 U	<0.014 U	<0.033 U	0.15	<0.033 U	<0.080 U	<0.033 U	<0.034 U	<0.032 U	<0.033 U	<0.033 U
Benzo(b)fluoranthene	µg/L	0.02	**0.2**	<0.047 U	<0.047 U	<0.054 U	<0.180 U	<0.054 U	<0.100 U	<0.240 U	<0.100 U	<0.098 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.098 U	<0.098 U	<0.099 U	--	--	<0.046 U	<0.042 U	<0.053 U	0.073	<0.053 U	<0.240 U	<0.100 U	<0.100 U	<0.098 U	<0.1 U	<0.1 U
Benzo(g,h,i)perylene	µg/L	NS	**NS**	<0.18 U	<0.18 U	<0.097 U	<0.320 U	<0.097 U	<0.12 U	<0.30 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U	<0.12 U	--	--	<0.17 U	<0.16 U	<0.096 U	0.22	<0.096 U	<0.30 U	<0.12 U	<0.13 U	<0.12 U	<0.12 U	<0.12 U
Benzo(k)fluoranthene	µg/L	NS	**NS**	<0.029 U	<0.029 U	<0.045 U	<0.150 U	<0.045 U	<0.050 U	<0.120 U	<0.051 U	<0.049 U	<0.05 U	<0.051 U	<0.051 U	<0.051 U	<0.049 U	<0.049 U	<0.049 U	--	--	<0.028 U	<0.026 U	<0.045 U	0.059	<0.045 U	<0.120 U	<0.050 U	<0.052 U	<0.049 U	<0.051 U	<0.05 U
Chrysene	µg/L	0.02	**0.2**	<0.037 U	<0.037 U	<0.049 U	<0.160 U	<0.049 U	<0.042 U	**0.22**	<0.043 U	<0.041 U	<0.042 U	<0.042 U	<0.042 U	<0.042 U	<0.041 U	<0.041 U	<0.041 U	--	--	<0.036 U	<0.033 U	<0.049 U	0.11	<0.049 U	<0.100 U	<0.042 U	<0.043 U	<0.041 U	<0.043 U	<0.042 U
Dibenz(a,h)anthracene	µg/L	NS	**NS**	<0.088 U	<0.088 U	<0.065 U	<0.210 U	<0.065 U	<0.13 U	<0.32 U	<0.14 U	<0.13 U	<0.13 U	<0.13 U	<0.13 U	<0.13 U	<0.13 U	<0.13 U	<0.13 U	--	--	<0.086 U	<0.079 U	<0.064 U	<0.070 U	<0.064 U	<0.32 U	<0.13 U	<0.14 U	<0.13 U	<0.14 U	<0.13 U
Fluoranthene	µg/L	80	**400**	<0.13 U	<0.13 U	<0.024 U	<0.080 U	<0.024 U	<0.083 U	0.63	<0.084 U	<0.081 U	<0.083 U	<0.084 U	<0.084 U	<0.084 U	<0.081 U	<0.081 U	<0.082 U	--	--	<0.13 U	<0.12 U	<0.024 U	0.5	<0.024 U	<0.200 U	<0.083 U	<0.086 U	<0.081 U	<0.084 U	<0.083 U
Fluorene	µg/L	80	**400**	<0.17 U	<0.17 U	<0.065 U	<0.210 U	<0.065 U	<0.064 U	<0.160 U	<0.064 U	<0.062 U	<0.063 U	<0.064 U	<0.064 U	<0.06 U	<0.062 U	<0.062 U	<0.063 U	--	--	<0.16 U	<0.15 U	<0.064 U	0.16	0.07	<0.160 U	<0.063 U	<0.066 U	<0.062 U	<0.065 U	<0.063 U
Indeno(1,2,3-cd)pyrene	µg/L	NS	**NS**	<0.036 U	<0.036 U	<0.031 U	<0.100 U	<0.031 U	<0.064 U	<0.160 U	<0.064 U	<0.062 U	<0.063 U	<0.064 U	<0.064 U	<0.064 U	<0.062 U	<0.062 U	<0.063 U	--	--	<0.035 U	<0.032 U	<0.031 U	0.09	<0.031 U	<0.160 U	<0.063 U	<0.066 U	<0.062 U	<0.065 U	<0.063 U
Naphthalene	µg/L	10	**100**	0.67	<0.67 U	<0.26 U	<0.87 U	<0.26 U	<0.41 U	<1.0 U	<0.42 U	<0.4 U	<0.41 U	<0.41 U	<0.41 U	<0.41 U	<0.4 U	<0.4 U	<0.4 U	--	--	1.4	1.2	0.73	0.62	0.84	1.2	1	0.93	0.77 J	<0.42 U	0.57 J
Phenanthrene	µg/L	NS	**NS**	<0.023 U	<0.023 U	<0.02 U	<0.067 U	<0.02 U	<0.031 U	0.52	<0.031 U	<0.03 U	<0.031 U	<0.031 U	<0.031 U	<0.031 U	<0.03 U	<0.03 U	<0.03 U	--	--	<0.023 U	0.052	<0.02 U	0.75	0.23	<0.075 U	<0.031 U	<0.032 U	0.11	<0.031 U	<0.031 U
Pyrene	µg/L	50	**250**	<0.014 U	<0.014 U	<0.04 U	<0.13 U	<0.04 U	<0.045 U	0.52	<0.046 U	<0.044 U	<0.045 U	<0.045 U	<0.045 U	<0.045 U	<0.044 U	<0.044 U	<0.044 U	--	--	<0.014 U	<0.013 U	<0.04 U	0.61	<0.04 U	<0.110 U	<0.045 U	<0.047 U	0.25	<0.046 U	<0.045 U
Total PAH (16) [5]	µg/L	NS	**NS**	0.67	<0.67 U	<0.59 U	<1.9 U	<0.59 U	<0.71 U	2.69	<0.72 U	<0.69 U	<0.7 U	<0.71 U	<0.71 U	<0.71 U	<0.69 U	<0.69 U	<0.7 U	--	--	1.4	1.252	0.73	3.652	1.14	1.2	1	0.93	1.13	<0.72	0.57
Petroleum Hydrocarbons																																	
Diesel Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	140
Gasoline Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<50 U
Metals																																	
Iron, Total	µg/L	150	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**2,000**	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide																																	
Cyanide DISS (amenable)	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide DISS, total	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide, Amenable	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide, Total	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lab MNA Parameters																																	
Carbon Dioxide	µg/L	NS	**NS**	--	97,000	120,000	110,000	--	95,000	--	100,000	110,000	--	110,000	110,000	94,000	--	120,000	130,000	--	--	--	200,000	260,000	260,000	--	250,000	--	220,000	190,000	72,000	60,000
Carbon monoxide	mg/L	10,000	**10,000**	--	<0.4 U	<0.4 U	<0.40 U	--	--	--	--	--	--	<1 U	<1 U	<1 U	--	<1 U	--	--	--	<0.4 U	<0.4 U	<0.40 U	--	--	--	--	--	--	--	<1 U
Ethane	µg/L	NS	**NS**	0.120	0.360	0.200	1.300	--	0.120	--	0.057	0.26	0.38	0.32	0.36	0.2	0.076	0.16	0.094	--	--	7.000	16.000	10.000	25.000	--	16.000	--	26.000	26	49	43
Ethene	µg/L	NS	**NS**	<0.005 U	0.0095	<0.005 U	1.600	--	0.0069	--	<0.005 U	<0.025 U	0.37	0.029	<0.025 U	<0.025 U	0.025	<0.025 U	<0.025 U	--	--	<0.005 U	<0.005 U	<0.005 U	0.210	--	<0.0050 U	--	<0.005 U	<0.025 U	<0.025 U	<0.025 U
Iron, Dissolved	µg/L	150	**300**	--	--	**1,600**	**2,400**	--	260	--	**680**	100 J	**610**	**330**	**400**	<42 U	**30,000**	**600**	--	--	--	--	--	**16,000**	**15,000**	--	**13,000**	--	**15,000**	**20,000**	**11,000**	**15,000**
Manganese, Dissolved	µg/L	60	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	µg/L	NS	**NS**	4,000	6,500	18,000	21,000	--	3,100	--	19,000	3,000	18,000	3,900	22,000	6,000	14,000	2,800	15,000	--	--	9,100	19,000	18,000	23,000	--	15,000	--	22,000	20,000	21,000	16,000
Nitrogen, NO2 + NO3, Total	µg/L	2,000	**10,000**	<24 U	<500 U	<24 U	69	--	<24 U	--	73	370	<100 U	<100 U	<0.5 U	<100 U	<100 U	<100 U	<100 U	--	--	<24 U	<500 U	33	170	--	130	--	260	810 B	<100 U	<100 U
Nitrogen	µg/L	NS	**NS**	--	11,000	4,800	3,900	--	--	--	--	--	--	10,000	10,000	12,000	--	--	6,000	--	--	--	9,000	4,800	5,400	--	--	--	--	--	--	12,000
Oxygen	µg/L	NS	**NS**	--	3,000	400	250	--	--	--	--	--	--	500	2,300	1,100	--	1,000	1,000	--	--	--	3,600	310	340	--	--	--	--	--	--	710
Sulfate, Total	µg/L	125,000	**250,000**	15,000	15,000	4,000	12,000	--	95,000	--	31,000	26,000 J	13,000 J	78,000	5,890 B,	56,000	240,000	**260,000**	13,000	--	--	10,000	<2,000 U	<2,000 U	9,700	--	20,000	--	20,000	<10,000 U	<10,000 U	<10,000 U
Field Parameters																																	
Dissolved oxygen	mg/L	NS	**NS**	--	--	2.15	0.09	0.56	0.18	0.09	0.19	0.14	0.26	0.06	0.14	0	0.23	0.14	0.27	--	--	--	--	2.13	0.14	0.71	0.28	0.17	0.09	0.08	0.22	0.16
Groundwater, depth to	feet	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	millivolts	NS	**NS**	--	--	-102	-105.9	-95.1	-217.6	-333.7	-222.2	-269.3	-225.9	-275.8	-210.7	-296.4	-144.8	-144.9	-166.7	--	--	--	--	-110.3	-324.8	-148.3	-88.4	-181.6	-123.6	-118.8	-156.9	-166.6
pH, Field	s.u.	NS	**NS**	--	--	6.98	7.11	7.25	8.43	6.23	7.27	7.01	7.08	7.11	6.93	7.06	6.8	7.01	6.87	--	--	--	--	6.59	6.8	6.72	7.81	5.94	6.68	6.66	6.93	7.12
Specific Conductance, Field	µS/cm	NS	**NS**	--	--	2,565	2,320	2,332	3,626	3,138	2,984	3,706	3,472	6,828	5,551	5,827	7,752	5,439	7,890	--	--	--	--	2,568	2,535	2,368	2,553	2,290	2,291	2,536	1,085	1,240
Temperature, Water	Deg C	NS	**NS**	--	--	16.21	10.75	11.76	14.63	15.89	11.53	15.5	12.09	16.29	12.02	16.86	10.72	16.4	11.07	--	--	--	--	14.48	14.62	14.37	14.91	14.34	14.42	14.24	14.53	14.36
Turbidity, Quantitative	NTUs	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:				W-52S											W-101D						W-101S				W-102D			
Depth Level Unit:	Units	WI GW PAL	WI GW ES	Upper Shallow											Lower Shallow						Upper Shallow				Lower Shallow			
Sample Date (m/d/yyyy):				5/24/2002	6/17/2002	11/20/2003	3/9/2004	6/7/2004	9/7/2004	12/7/2004	3/17/2005	9/23/2005	3/22/2006	9/28/2006	2/28/2017	12/16/2019	12/16/2019 (Dup)	5/12/2020	12/14/2020	12/14/2020	2/27/2017	12/16/2019	5/11/2020	12/14/2020	2/28/2017	12/17/2019	5/12/2020	12/15/2020
BTEX																												
Benzene	µg/L	0.5	**5**	0.31	0.69	**5.4**	1.2	0.33	1	2.6	2.5	1.3	<0.2 U	<0.2 U	**156**	**11.7**	**11.4**	**52.2**	**137**	**158**	<0.50 U	<0.25 U	<0.25 U	<0.25 U	**6,260**	**1,230**	**2,450**	**866**
Ethylbenzene	µg/L	140	**700**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	130	282	275	37.4	270	291	<0.50 U	<0.22 U	<0.32 U	<0.32 U	<12.5 U	<5.5 U	<6.4 U	<8.0 U
Toluene	µg/L	160	**800**	0.35	0.18	0.21	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<5.0 U	<1.7 U	<1.7 U	0.32 J	<2.7 U	<1.3 U	<0.50 U	<0.17 U	<0.27 U	<0.27 U	<12.5 U	<4.3 U	<5.4 U	<6.7 U
Xylene, o	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	38.7	46.9	47.7	2.1	17.5	18.6	<0.50 U	<0.26 U	<0.26 U	<0.26 U	<12.5 U	<6.5 U	<5.2 U	<6.5 U
Xylenes, m + p	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	24.7	47.1	46.0	2.1	20.1	21.1	<1.0 U	<0.47 U	<0.47 U	<0.47 U	<25.0 U	<11.6 U	<9.3 U	<11.6 U
Xylenes, Total [1]	µg/L	400	**2,000**	0.32	0.67	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	63.4	94	93.7	4.2	37.6	39.7	<1.5 U	<0.73 U	<0.73 U	<0.73 U	<37.5 U	<18.1 U	<14.5 U	<18.1 U
Total BTEX [2]	µg/L	NS	**NS**	0.98	1.54	5.61	1.2	0.33	1	2.6	2.5	1.3	<1.4 U	<1.4 U	349.4	387.7	380.1	94.12	445	489	<3 U	<1.37 U	<1.57 U	<1.57 U	6260	1230	2450	866
VOCs																												
1,1,1,2-Tetrachloroethane	µg/L	7	**70**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<1.8 U	<2.7 U	<2.7 U	<0.27 U	<2.7 U	<1.3 U	<0.18 U	<0.27 U	<0.27 U	<0.27 U	<4.5 U	<6.7 U	<5.4 U	<6.7 U
1,1,1-Trichloroethane	µg/L	40	**200**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<5.0 U	<2.4 U	<2.4 U	<0.24 U	<2.4 U	<1.2 U	<0.50 U	<0.24 U	<0.24 U	<0.24 U	<12.5 U	<6.1 U	<4.9 U	<6.1 U
1,1,2,2-Tetrachloroethane	µg/L	0.02	**0.2**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<2.5 U	<2.8 U	<2.8 U	<0.28 U	<2.8 U	<1.4 U	<0.25 U	<0.28 U	<0.28 U	<0.28 U	<6.2 U	<6.9 U	<5.5 U	<6.9 U
1,1,2-Trichloroethane	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<2.0 U	<5.5 U	<5.5 U	<0.55 U	<5.5 U	<2.8 U	<0.20 U	<0.55 U	<0.55 U	<0.55 U	<4.9 U	<13.8 U	<11.0 U	<13.8 U
1,1-Dichloroethane	µg/L	85	**850**	0.51	0.55	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<2.4 U	<2.7 U	<2.7 U	<0.27 U	<2.7 U	<1.4 U	<0.24 U	<0.27 U	<0.27 U	<0.27 U	<6.0 U	<6.8 U	<5.5 U	<6.8 U
1,1-Dichloroethene	µg/L	0.7	**7**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<4.1 U	<2.4 U	<2.4 U	<0.24 U	<2.4 U	<1.2 U	<0.41 U	<0.24 U	<0.24 U	<0.24 U	<10.3 U	<6.1 U	<4.9 U	<6.1 U
1,1-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<4.4 U	<5.4 U	<5.4 U	<0.54 U	<5.4 U	<2.7 U	<0.44 U	<0.54 U	<0.54 U	<0.54 U	<11.0 U	<13.5 U	<10.8 U	<13.5 U
1,2,3-Trichlorobenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<21.3 U	<6.3 U	<6.3 U	<2.2 U	<22.1 U	<11.1 U	<2.1 U	<0.63 U	<2.2 U	<2.2 U	<53.3 U	<15.6 U	<44.2 U	<55.3 U
1,2,3-Trichloropropane	µg/L	12	**60**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<5.0 U	<5.9 U	<5.9 U	<0.59 U	<5.9 U	<3.0 U	<0.50 U	<0.59 U	<0.59 U	<0.59 U	<12.5 U	<14.8 U	<11.8 U	<14.8 U
1,2,4-Trichlorobenzene	µg/L	14	**70**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<22.1 U	<9.5 U	<9.5 U	<0.95 U	<9.5 U	<4.8 U	<2.2 U	<0.95 U	<0.95 U	<0.95 U	<55.2 U	<23.8 U	<19.0 U	<23.8 U
1,2-Dibromo-3-chloropropane	µg/L	0.02	**0.2**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<21.6 U	<17.6 U	<17.6 U	<1.8 U	<17.6 U	<8.8 U	<2.2 U	<1.8 U	<1.8 U	<1.8 U	<54.1 U	<44.1 U	<35.3 U	<44.1 U
1,2-Dibromoethane	µg/L	0.005	**0.05**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<1.8 U	<8.3 U	<8.3 U	<0.83 U	<8.3 U	<4.1 U	<0.18 U	<0.83 U	<0.83 U	<0.83 U	<4.4 U	<20.7 U	<16.6 U	<20.7 U
1,2-Dichlorobenzene	µg/L	60	**600**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<5.0 U	<7.1 U	<7.1 U	<0.71 U	<7.1 U	<3.5 U	<0.50 U	<0.71 U	<0.71 U	<0.71 U	<12.5 U	<17.6 U	<14.1 U	<17.6 U
1,2-Dichloroethane	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1.7 U	<2.8 U	<2.8 U	<0.28 U	<2.8 U	<1.4 U	<0.17 U	<0.28 U	<0.28 U	<0.28 U	<4.2 U	<7.0 U	<5.6 U	<7.0 U
1,2-Dichloropropane	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<2.3 U	<2.8 U	<2.8 U	<0.28 U	<2.8 U	<1.4 U	<0.23 U	<0.28 U	<0.28 U	<0.28 U	<5.8 U	<7.1 U	<5.7 U	<7.1 U
1,2,4-Trimethylbenzene	µg/L	NS	**NS**	<0.1 U	<0.1 U	<0.2 U	0.5	<0.2 U	2.1	<0.2 U	<0.2 U	0.6 J	0.72	<0.2 U	13.9	22.0 J	23.2 J	<0.84 U	18.9 J	20.0	<0.50 U	<0.84 U	<0.84 U	<0.84 U	<12.5 U	<21.0 U	<16.8 U	<21.0 U
1,3,5-Trimethylbenzene	µg/L	NS	**NS**	<0.1 U	<0.1 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<5.0 U	<8.7 U	<8.7 U	<0.87 U	13.5 J	12.9 J	<0.50 U	<0.87 U	<0.87 U	<0.87 U	<12.5 U	<21.8 U	<17.5 U	<21.8 U
Trimethylbenzenes, Total [3]	µg/L	96	**480**	<0.2 U	<0.2 U	--	0.5	<0.4 U	2.1	<0.4 U	<0.4 U	0.6 J	0.72	<0.4 U	13.9	22	23.2	<1.71 U	32.4	32.9	<1 U	<1.71 U	<1.71 U	<1.71 U	<25 U	42.8	34.3	<42.8 U
1,3-Dichlorobenzene	µg/L	120	**600**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<5.0 U	<6.3 U	<6.3 U	<0.63 U	<6.3 U	<3.1 U	<0.50 U	<0.63 U	<0.63 U	<0.63 U	<12.5 U	<15.7 U	<12.6 U	<15.7 U
1,3-Dichloropropane	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<5.0 U	<8.3 U	<8.3 U	<0.83 U	<8.3 U	<4.1 U	<0.50 U	<0.83 U	<0.83 U	<0.83 U	<12.5 U	<20.6 U	<16.5 U	<20.6 U
1,4-Dichlorobenzene	µg/L	15	**75**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<5.0 U	<9.4 U	<9.4 U	<0.94 U	<9.4 U	<4.7 U	<0.50 U	<0.94 U	<0.94 U	<0.94 U	<12.5 U	<23.6 U	<18.9 U	<23.6 U
2,2-Dichloropropane	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<4.8 U	<22.7 U	<22.7 U	<2.3 U	<22.7 U	<11.3 U	<0.48 U	<2.3 U	<2.3 U	<2.3 U	<12.1 U	<56.6 U	<45.3 U	<56.6 U
2,3-Dichloropropene	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	µg/L	NS	**NS**	<0.1 U	<0.1 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<5.0 U	<9.3 U	<9.3 U	<0.93 U	<9.3 U	<4.6 U	<0.50 U	<0.93 U	<0.93 U	<0.93 U	<12.5 U	<23.2 U	<18.5 U	<23.2 U
4-Chlorotoluene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<2.1 U	<7.6 U	<7.6 U	<0.76 U	<7.6 U	<3.8 U	<0.21 U	<0.76 U	<0.76 U	<0.76 U	<5.3 U	<18.9 U	<15.1 U	<18.9 U
4-Isopropyltoluene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<5.0 U	<8.0 U	<8.0 U	<0.80 U	<8.0 U	<4.0 U	<0.50 U	<0.80 U	<0.80 U	<0.80 U	<12.5 U	<20.0 U	<16.0 U	<20.0 U
Bromobenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<2.3 U	<2.4 U	<2.4 U	<0.24 U	<2.4 U	<1.2 U	<0.23 U	<0.24 U	<0.24 U	<0.24 U	<5.8 U	<6.0 U	<4.8 U	<6.0 U
Bromochloromethane	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<3.4 U	<3.6 U	<3.6 U	<0.36 U	<3.6 U	<1.8 U	<0.34 U	<0.36 U	<0.36 U	<0.36 U	<8.5 U	<9.1 U	<7.2 U	<9.1 U
Bromodichloromethane	µg/L	0.06	**0.6**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<5.0 U	<3.6 U	<3.6 U	<0.36 U	<3.6 U	<1.8 U	<0.50 U	<0.36 U	<0.36 U	<0.36 U	<12.5 U	<9.1 U	<7.3 U	<9.1 U
Bromoform	µg/L	0.44	**4.4**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<5.0 U	<39.7 U	<39.7 U	<4.0 U	<39.7 U	<19.9 U	<0.50 U	<4.0 U	<4.0 U	<4.0 U	<12.5 U	<99.3 U	<79.4 U	<99.3 U
Bromomethane	µg/L	1	**10**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<24.3 U	<9.7 U	<9.7 U	<0.97 U	<9.7 U	<4.9 U	<2.4 U	<0.97 U	<0.97 U	<0.97 U	<60.9 U	<24.3 U	<19.4 U	<24.3 U
Carbon Tetrachloride	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<5.0 U	<1.7 U	<1.7 U	<1.1 U	<10.8 U	<5.4 U	<0.50 U	<0.17 U	<1.1 U	<1.1 U	<12.5 U	<4.1 U	<21.5 U	<26.9 U
Chlorobenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<5.0 U	<7.1 U	<7.1 U	<0.71 U	<7.1 U	<3.6 U	<0.50 U	<0.71 U	<0.71 U	<0.71 U	<12.5 U	<17.8 U	<14.2 U	<17.8 U
Chloroethane	µg/L	80	**400**	5.7	6.7	1	1.1	1.9	2.4	1.9	<1 U	<1 U	<1 U	<1 U	<3.7 U	<13.4 U	<13.4 U	<1.3 U	<13.4 U	<6.7 U	<0.37 U	<1.3 U	<1.3 U	<1.3 U	<9.4 U	<33.6 U	<26.8 U	<33.6 U
Chloroform	µg/L	0.6	**6**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<25.0 U	<12.7 U	<12.7 U	<1.3 U	<12.7 U	<6.4 U	<2.5 U	<1.3 U	<1.3 U	<1.3 U	<62.5 U	<31.8 U	<25.5 U	<31.8 U
Chloromethane	µg/L	3	**30**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<5.0 U	<21.9 U	<21.9 U	<2.2 U	<21.9 U	<10.9 U	<0.50 U	<2.2 U	<2.2 U	<2.2 U	<12.5 U	<54.7 U	<43.8 U	<54.7 U
cis-1,2-Dichloroethene	µg/L	7	**70**	0.4	0.34	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<2.6 U	<2.7 U	<2.7 U	<0.27 U	<2.7 U	<1.4 U	<0.26 U	<0.27 U	<0.27 U	<0.27 U	<6.4 U	<6.8 U	<5.4 U	<6.8 U
cis-1,3-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<5.0 U	<36.3 U	<36.3 U	<3.6 U	<36.3 U	<18.1 U	<0.50 U	<3.6 U	<3.6 U	<3.6 U	<12.5 U	<90.7 U	<72.6 U	<90.7 U
trans-1,3-Dichloropropene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<2.3 U	<43.7 U	<43.7 U	<4.4 U	<43.7 U	<21.9 U	<0.23 U	<4.4 U	<4.4 U	<4.4 U	<5.7 U	<109 U	<87.4 U	<109 U
1,3-Dichloropropene [4]	µg/L	0.04	**0.4**	<0.5 U	<0.5 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<0.4 U	<7.3 U	<80 U	<80 U	<8 U	<80.0 U	<40.0 U	<0.73 U	<8 U	<8 U	<8.0 U	<18.2 U	<199.7 U	<160 U	<200 U
Dibromochloromethane	µg/L	6	**60**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<5.0 U	<26.0 U	<26.0 U	<2.6 U	<26.0 U	<13.0 U	<0.50 U	<2.6 U	<2.6 U	<2.6 U	<12.5 U	<65.0 U	<52.0 U	<65.0 U
Dibromomethane	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<4.3 U	<9.4 U	<9.4 U	<0.94 U	<9.4 U	<4.7 U	<0.43 U	<0.94 U	<0.94 U	<0.94 U	<10.7 U	<23.4 U	<18.7 U	<23.4 U
Freon 12	µg/L	200	**1,000**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<2.2 U	<5.0 U	<5.0 U	<0.50 U	<5.0 U	<2.5 U	<0.22 U	<0.50 U	<0.50 U	<0.50 U	<5.6 U	<12.5 U	<10 U	<12.5 U
Hexachlorobutadiene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<21.1 U	<11.8 U	<11.8 U	<1.5 U	<14.6 U	<7.3 U	<2.1 U	<1.2 U	<1.5 U	<1.5 U	<52.6 U	<29.6 U	<29.3 U	<36.6 U
Isopropyl ether	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<5.0 U	<18.9 U	<18.9 U	<1.9 U	<18.9 U	<9.4 U	<0.50 U	<1.9 U	<1.9 U	<1.9 U	<12.5 U	<47.2 U	<37.8 U	<47.2 U
Isopropylbenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	65.1	94.8	91.9	3.2 J	49.3 J	54.5	<0.14 U	<0.39 U	<1.7 U	<1.7 U	29.8	46.1 J	41.2 J	<42.2 U
Methylene chloride (DCM)	µg/L	0.5	**5**	0.47	0.46	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	2.6 J	<5.8 U	<5.8 U	<0.58 U	<5.8 U	<2.9 U	<0.23 U	<0.58 U	<0.58 U	<0.58 U	**8.9** J	<14.5 U	<11.6 U	<14.5 U
Methyl-tert-butyl-ether	µg/L	12	**60**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	2.7	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1.7 U	<12.5 U	<12.5 U	<1.2 U	<12.5 U	<6.2 U	<0.17 U	<1.2 U	<1.2 U	<1.2 U	<4.4 U	<31.1 U	<24.9 U	<31.1 U
Naphthalene	µg/L	10	**100**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	0.69	<0.25 U	<0.25 U	<0.25 U	<0.25 U	**460**	**698**	**723**	77.7	**2,540**	**2,340**	<2.5 U	<1.2 U	<1.2 U	<1.2 U	<62.5 U	<29.4 U	<23.5 U	<29.4 U
n-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<5.0 U	<7.1 U	<7.1 U	<0.71 U	<7.1 U	<3.5 U	<0.50 U	<0.71 U	<0.71 U	<0.71 U	<12.5 U	<17.7 U	<14.2 U	<17.7 U
n-Propylbenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	18.2	50.6	51.7	1.8 J	33.0 J	34.0	<0.50 U	<0.81 U	<0.81 U	<0.81 U	<12.5 U	<20.3 U	<16.2 U	<20.3 U
sec-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<21.9 U	<8.5 U	<8.5 U	<0.85 U	<8.5 U	<4.2 U	<2.2 U	<0.85 U	<0.85 U	<0.85 U	<54.7 U	<21.2 U	<17.0 U	<21.2 U
Styrene	µg/L	10	**100**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<5.0 U	<4.7 U	<4.7 U	<3.0 U	<30.1 U	<15.0 U	<0.50 U	<0.47 U	<3.0 U	<3.0 U	<12.5 U	<11.6 U	<60.2 U	<75.2 U
tert-Butylbenzene	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<1.8 U	<3.0 U	<3.0 U	<0.30 U	<3.0 U	<1.5 U	<0.18 U	<0.30 U	<0.30 U	<0.30 U	<4.5 U	<7.6 U	<6.1 U	<7.6 U
Tetrachloroethene	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	**6.7**	<0.5 U	<5.0 U	<3.3 U	<3.3 U	<0.33 U	<3.3 U	<1.6 U	<0.50 U	<0.33 U	0.43 J	0.59 J	<12.5 U	<8.2 U	<6.5 U	<8.2 U
trans-1,2-Dichloroethene	µg/L	20	**100**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<2.6 U	<10.9 U	<10.9 U	<0.46 U	<4.6 U	<2.3 U	<0.26 U	<1.1 U	<0.46 U	<0.46 U	<6.4 U	<27.3 U	<9.3 U	<11.6 U
Trichloroethene	µg/L	0.5	**5**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<3.3 U	<2.6 U	<2.6 U	<0.26 U	<2.6 U	<1.3 U	<0.33 U	<0.26 U	<0.26 U	<0.26 U	<8.3 U	<6.4 U	<5.1 U	<6.4 U
Trichlorofluoromethane	µg/L	NS	**NS**	<0.25 U	<0.25 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1.8 U	<2.1 U	<2.1 U	<0.21 U	<2.1 U	<1.1 U	<0.18 U	<0.21 U	<0.21 U	<0.21 U	<4.6 U	<5.4 U	<4.3 U	<5.4 U
Vinyl Chloride	µg/L	0.02	**0.2**	<0.25 U	<0.25 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<1.8 U	<1.7 U	<1.7 U	<0.17 U	<1.7 U	<0.87 U	<0.18 U	<0.17 U	<0.17 U	<0.17 U	<4.4 U	<4.4 U	<3.5 U	<4.4 U

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:	Units	WI GW PAL	WI GW ES	W-52S											W-101D						W-101S				W-102D			
Depth Level Unit:				Upper Shallow											Lower Shallow						Upper Shallow				Lower Shallow			
Sample Date (m/d/yyyy):				5/24/2002	6/17/2002	11/20/2003	3/9/2004	6/7/2004	9/7/2004	12/7/2004	3/17/2005	9/23/2005	3/22/2006	9/28/2006	2/28/2017	12/16/2019	12/16/2019 (Dup)	5/12/2020	12/14/2020	12/14/2020	2/27/2017	12/16/2019	5/11/2020	12/14/2020	2/28/2017	12/17/2019	5/12/2020	12/15/2020
PAHs																												
1-Methylnaphthalene	µg/L	NS	**NS**	<0.60 U	<0.63 U	<0.44 U	<0.52 U	<0.44 U	<0.32 U	<0.33 U	<0.34 U	<0.32 U	<0.34 U	<0.33 U	97.2	245	238	6.0	234	241	0.0065 J	0.049	<0.0059 U	<0.0061 U	54.9	48.6	64.3	43.7
2-Methylnaphthalene	µg/L	NS	**NS**	<0.57 U	<0.59 U	<0.3 U	<0.36 U	<0.3 U	<0.31 U	<0.32 U	<0.33 U	<0.31 U	<0.33 U	<0.32 U	0.51	0.84	0.67	0.011 J	<1.0 U	<1.0 U	<0.0048 U	<0.0051 U	<0.0049 U	<0.0051 U	0.24	0.25	0.31	<0.051 U
Acenaphthene	µg/L	NS	**NS**	<0.51 U	<0.53 U	<0.58 U	<0.69 U	<0.59 U	<0.33 U	<0.34 U	<0.35 U	<0.33 U	<0.35 U	<0.34 U	23.0	27.3	26.8	0.49	12.4	11.8	<0.0060 U	<0.0063 U	<0.0061 U	<0.0063 U	13.0	11.3	14.9	10.7
Acenaphthylene	µg/L	NS	**NS**	<0.23 U	<0.24 U	<0.25 U	<0.30 U	<0.25 U	<0.69 U	<0.71 U	<0.73 U	<0.69 U	<0.73 U	<0.72 U	0.28 J	0.27 J	0.23 J	0.011 J	<1.0 U	<1.0 U	<0.0049 U	<0.0052 U	<0.0050 U	<0.0051 U	0.21 J	0.12	0.17	0.13 J
Anthracene	µg/L	600	**3,000**	<0.092 U	<0.096 U	<0.034 U	<0.040 U	<0.034 U	<0.038 U	<0.039 U	<0.040 U	<0.038 U	<0.04 U	<0.04 U	<0.20 U	<0.26 U	<0.28 U	<0.020 U	<2.1 U	<2.2 U	<0.010 U	<0.011 U	<0.010 U	<0.011 U	<0.10 U	<0.046 U	<0.041 U	<0.11 U
Benzo(a)anthracene	µg/L	NS	**NS**	<0.16 U	<0.16 U	<0.056 U	<0.067 U	<0.057 U	<0.044 U	<0.045 U	<0.047 U	<0.044 U	<0.046 U	<0.046 U	<0.14 U	<0.19 U	<0.20 U	0.073 J	<1.5 U	<1.6 U	<0.0074 U	<0.0079 U	<0.0076 U	<0.0078 U	<0.073 U	<0.034 U	<0.030 U	<0.079 U
Benzo(a)pyrene	µg/L	0.02	**0.2**	<0.016 U	<0.016 U	<0.033 U	<0.039 U	<0.033 U	<0.032 U	<0.033 U	<0.034 U	<0.032 U	<0.034 U	<0.033 U	<0.20 U	<0.26 U	<0.28 U	0.13	<2.1 U	<2.2 U	<0.010 U	<0.011 U	<0.011 U	<0.011 U	<0.10 U	<0.047 U	<0.042 U	<0.11 U
Benzo(b)fluoranthene	µg/L	0.02	**0.2**	<0.047 U	<0.049 U	<0.053 U	<0.063 U	<0.054 U	<0.098 U	<0.100 U	<0.100 U	<0.098 U	<0.1 U	<0.1 U	<0.11 U	<0.14 U	<0.15 U	**0.26**	<1.2 U	<1.2 U	<0.0056 U	<0.0060 U	0.0098 J	<0.0059 U	<0.055 U	<0.026 U	<0.023 U	<0.060 U
Benzo(g,h,i)perylene	µg/L	NS	**NS**	<0.18 U	<0.19 U	<0.096 U	<0.110 U	<0.097 U	<0.12 U	<0.12 U	<0.13 U	<0.12 U	<0.13 U	<0.12 U	<0.13 U	<0.17 U	<0.18 U	0.16	<1.4 U	<1.4 U	<0.0066 U	<0.0071 U	<0.0068 U	<0.0070 U	<0.065 U	<0.030 U	<0.027 U	<0.071 U
Benzo(k)fluoranthene	µg/L	NS	**NS**	<0.029 U	<0.030 U	<0.045 U	<0.054 U	<0.045 U	<0.049 U	<0.050 U	<0.052 U	<0.049 U	<0.052 U	<0.051 U	<0.14 U	<0.19 U	<0.20 U	0.12	<1.5 U	<1.6 U	<0.0074 U	<0.0079 U	<0.0076 U	<0.0078 U	<0.073 U	<0.034 U	<0.030 U	<0.079 U
Chrysene	µg/L	0.02	**0.2**	<0.037 U	<0.038 U	<0.049 U	<0.058 U	<0.049 U	<0.041 U	<0.042 U	<0.043 U	<0.041 U	<0.043 U	<0.043 U	<0.25 U	<0.32 U	<0.35 U	**0.20**	<2.7 U	<2.7 U	<0.013 U	<0.014 U	<0.013 U	<0.013 U	<0.13 U	<0.058 U	<0.052 U	<0.14 U
Dibenz(a,h)anthracene	µg/L	NS	**NS**	<0.088 U	<0.092 U	<0.064 U	<0.076 U	<0.065 U	<0.13 U	<0.13 U	<0.14 U	<0.13 U	<0.14 U	<0.14 U	<0.19 U	<0.25 U	<0.27 U	<0.019 U	<2.0 U	<2.1 U	<0.0098 U	<0.010 U	<0.010 U	<0.010 U	<0.096 U	<0.045 U	<0.040 U	<0.10 U
Fluoranthene	µg/L	80	**400**	<0.13 U	<0.14 U	<0.024 U	<0.029 U	<0.024 U	<0.081 U	<0.083 U	<0.086 U	<0.081 U	<0.085 U	<0.084 U	<0.20 U	<0.26 U	<0.28 U	0.34	<2.2 U	<2.2 U	0.013 J	<0.011 U	0.014 J	<0.011 U	<0.10 U	<0.047 U	<0.042 U	<0.11 U
Fluorene	µg/L	80	**400**	<0.17 U	<0.17 U	<0.064 U	<0.076 U	<0.065 U	<0.062 U	<0.064 U	<0.066 U	<0.062 U	<0.065 U	<0.065 U	1.7	0.92 J	0.80 J	0.021 J	<1.6 U	<1.6 U	<0.0078 U	<0.0083 U	<0.0080 U	<0.0082 U	0.48	0.49	0.65	0.41 J
Indeno(1,2,3-cd)pyrene	µg/L	NS	**NS**	<0.036 U	<0.037 U	<0.031 U	<0.037 U	<0.031 U	<0.062 U	<0.064 U	<0.066 U	<0.062 U	<0.065 U	<0.065 U	<0.34 U	<0.44 U	<0.47 U	0.11 J	<3.6 U	<3.6 U	<0.017 U	<0.018 U	<0.018 U	<0.018 U	<0.17 U	<0.078 U	<0.070 U	<0.18 U
Naphthalene	µg/L	10	**100**	<0.67 U	<0.7 U	<0.26 U	<0.31 U	<0.26 U	<0.4 U	<0.41 U	<0.42 U	<0.4 U	<0.42 U	<0.42 U	**31.8**	**329**	**305**	**18.7**	**1,220**	**1,240**	0.020 J	0.072 J	<0.018 U	<0.019 U	4.5	3.3	4.3	3.1
Phenanthrene	µg/L	NS	**NS**	<0.023 U	<0.024 U	<0.02 U	<0.024 U	<0.02 U	<0.03 U	<0.031 U	<0.032 U	<0.03 U	<0.032 U	<0.031 U	<0.26 U	<0.34 U	<0.37 U	0.12 J	<2.8 U	<2.8 U	<0.014 U	<0.014 U	<0.014 U	<0.014 U	<0.13 U	<0.061 U	<0.055 U	<0.14 U
Pyrene	µg/L	50	**250**	<0.014 U	<0.015 U	<0.04 U	<0.048 U	<0.04 U	<0.044 U	<0.045 U	<0.047 U	<0.044 U	<0.046 U	<0.046 U	<0.15 U	<0.19 U	<0.20 U	0.29	<1.6 U	<1.6 U	0.014 J	<0.0080 U	0.013 J	<0.0079 U	<0.074 U	<0.034 U	<0.030 U	<0.080 U
Total PAH (16) [5]	µg/L	NS	**NS**	<0.67 U	<0.7 U	<0.58 U	<0.69 U	<0.59 U	<0.69 U	<0.71 U	<0.73 U	<0.69 U	<0.73 U	<0.72 U	56.78	357.49	332.83	21.025	1232.4	1251.8	0.047	0.072	0.0368	<0.019 U	18.19	15.21	20.02	14.34
Petroleum Hydrocarbons																												
Diesel Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals																												
Iron, Total	µg/L	150	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide																												
Cyanide DISS (amenable)	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide DISS, total	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide, Amenable	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide, Total	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lab MNA Parameters																												
Carbon Dioxide	µg/L	NS	**NS**	--	83,000	210,000	190,000	--	99,000	--	180,000	160,000	44,000	46,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon monoxide	mg/L	10,000	**10,000**	--	<0.4 U	<0.4 U	<0.40 U	--	--	--	--	--	--	<1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethane	µg/L	NS	**NS**	8.200	13.000	7.100	9.200	--	5.300	--	8.400	6	2.2	4.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	µg/L	NS	**NS**	<0.005 U	0.016	0.0082	0.550	--	<0.0050 U	--	<0.005 U	<0.025 U	0.046	0.026	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron, Dissolved	µg/L	150	**300**	--	--	**11,000**	**10,000**	--	**8,500**	--	**10,000**	**11,000**	**950**	**1,400**	--	**3,190**	**3,230**	--	--	--	--	**839**	--	--	--	**12,600**	--	--
Manganese, Dissolved	µg/L	60	**300**	--	--	--	--	--	--	--	--	--	--	--	--	172	174	--	--	--	--	207	--	--	--	**339**	--	--
Methane	µg/L	NS	**NS**	7,400	11,000	18,000	17,000	--	10,000	--	19,000	12,000	4,300	6,100	--	6,770	7,640	--	--	--	--	98.5	--	--	--	--	--	--
Nitrogen, NO2 + NO3, Total	µg/L	2,000	**10,000**	<24 U	<500 U	26	120	--	100	--	120	310 B	<100 U	<100 U	--	<59 U	<59 U	--	--	--	--	490	--	--	--	<59 U	--	--
Nitrogen	µg/L	NS	**NS**	--	11,000	3,000	3,000	--	--	--	--	--	--	9,800	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxygen	µg/L	NS	**NS**	--	4,700	300	220	--	--	--	--	--	--	3,800	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate, Total	µg/L	125,000	**250,000**	6,600	6,400	7,000	19,000	--	14,000	--	30,000	<10,000 U	21,000 J	20,000 J	--	<2,200 U	<2,200 U	--	--	--	--	46,700	--	--	--	<2,200 U	--	--
Field Parameters																												
Dissolved oxygen	mg/L	NS	**NS**	--	--	2.4	0.12	0.81	0.27	0.15	0.12	0.1	0.34	3.17	0.42	0.10	0.10	0.18	0.12	0.12	0.52	0.15	1.05	3.25	0.18	0.13	0.16	0.17
Groundwater, depth to	feet	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	10.26	9.72	9.72	9.35	9.80	9.80	9.56	7.30	6.95	7.15	11.22	10.81	10.45	10.71
Oxidation Reduction Potential	millivolts	NS	**NS**	--	--	-98.5	-282.8	-106.4	-78	-208.2	-95.5	-68.5	-72.7	-11.1	-120	-133.6	-133.6	-128.2	-97.6	-97.6	-104	-44.1	43.4	61.5	-130	-99.4	-140.0	-193.7
pH, Field	s.u.	NS	**NS**	--	--	6.44	6.74	7.03	7.53	6.22	6.54	6.48	6.94	7.1	7.16	7.67	7.67	7.35	7.36	7.36	6.88	7.15	7.12	7.22	6.76	6.85	6.85	6.92
Specific Conductance, Field	µS/cm	NS	**NS**	--	--	2,340	2,283	1,986	2,655	2,987	2,195	2,456	2,099	2,445	4,340	1177.2	1177.2	1567.4	1,768	1,768	5,960	4065.4	6828.2	3939.5	3,980	4072.8	3466.1	3519.4
Temperature, Water	Deg C	NS	**NS**	--	--	17.89	13.42	13.72	17	17.23	13.91	18.81	14.26	17.89	12.30	11.51	11.51	13.33	6.99	6.99	6.91	8.90	9.80	6.34	12.70	11.00	12.65	8.78
Turbidity, Quantitative	NTUs	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	12.4	3.68	3.68	16.40	14.29	14.29	48.2	1.17	12.03	20.55	14.0	4.87	7.67	14.04

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:				W-102S				W-103DL				W-103S				W-104DL			W-104S		
Depth Level Unit:	Units	WI GW PAL	WI GW ES	Upper Shallow				Lower Shallow				Upper Shallow				Lower Shallow			Upper Shallow		
Sample Date (m/d/yyyy):				2/28/2017	12/17/2019	5/11/2020	12/15/2020	2/12/2020	5/12/2020	12/15/2020	12/15/2020	2/12/2020	2/12/2020 (Dup)	5/12/2020	12/15/2020	2/12/2020	5/12/2020	12/15/2020	2/12/2020	5/12/2020	12/15/2020
BTEX																					
Benzene	µg/L	0.5	**5**	<0.50 U	<0.25 U	<0.25 U	<0.25 U	**6.7**	**2.3**	**5.5**	**5.2**	**14.1**	**13.3**	**9.5**	**16.3**	**1,720**	**1,560**	**537**	**29.1**	<0.25 U	<0.25 U
Ethylbenzene	µg/L	140	**700**	<0.50 U	<0.22 U	<0.32 U	<0.32 U	0.87 J	0.33 J	0.32 J	0.35 J	0.92 J	0.92 J	0.41 J	<0.32 U	676	597	278	11.7	<0.32 U	<0.32 U
Toluene	µg/L	160	**800**	<0.50 U	<0.17 U	<0.27 U	<0.27 U	0.27 J	<0.27 U	<0.27 U	<0.27 U	0.49 J	0.40 J	0.32 J	0.84 J	65.4 J	78.4	34.5	3.0 J	<0.27 U	<0.27 U
Xylene, o	µg/L	NS	**NS**	<0.50 U	<0.26 U	<0.26 U	<0.26 U	<0.26 U	<0.26 U	<0.26 U	<0.26 U	4.4	4.2	2.0	8.3	163	155	75.8	3.7	<0.26 U	<0.26 U
Xylenes, m + p	µg/L	NS	**NS**	<1.0 U	<0.47 U	<0.47 U	<0.47 U	0.52 J	<0.47 U	<0.47 U	<0.47 U	3.2	3.4	1.8 J	7.6	187	186	90.4	5.7	<0.47 U	<0.47 U
Xylenes, Total [1]	µg/L	400	**2,000**	<1.5 U	<0.73 U	<0.73 U	<0.73 U	0.52	<0.73 U	<0.73 U	<0.73 U	7.6	7.6	3.8	15.9	350	341	166.2	9.4	<0.73 U	<0.73 U
Total BTEX [2]	µg/L	NS	**NS**	<3 U	<1.37 U	<1.57 U	<1.57 U	8.36	2.63	5.8	5.6	23.11	22.22	14.03	33.0	2811.4	2576.4	1016	53.2	<1.57 U	<1.57 U
VOCs																					
1,1,1,2-Tetrachloroethane	µg/L	7	**70**	<0.18 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<13.5 U	<5.4 U	<1.3 U	<0.27 U	<0.27 U	<0.27 U
1,1,1-Trichloroethane	µg/L	40	**200**	<0.50 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<12.2 U	<4.9 U	<1.2 U	<0.24 U	<0.24 U	<0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.02	**0.2**	<0.25 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<13.8 U	<5.5 U	<1.4 U	<0.28 U	<0.28 U	<0.28 U
1,1,2-Trichloroethane	µg/L	0.5	**5**	<0.20 U	<0.55 U	<0.55 U	<0.55 U	<0.55 U	<0.55 U	<0.55 U	<0.55 U	<0.55 U	<0.55 U	<0.55 U	<0.55 U	<27.6 U	<11.0 U	<2.8 U	<0.55 U	<0.55 U	<0.55 U
1,1-Dichloroethane	µg/L	85	**850**	<0.24 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<13.6 U	<5.5 U	<1.4 U	<0.27 U	<0.27 U	<0.27 U
1,1-Dichloroethene	µg/L	0.7	**7**	<0.41 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<12.2 U	<4.9 U	<1.2 U	<0.24 U	<0.24 U	<0.24 U
1,1-Dichloropropene	µg/L	NS	**NS**	<0.44 U	<0.54 U	<0.54 U	<0.54 U	<0.54 U	<0.54 U	<0.54 U	<0.54 U	<0.54 U	<0.54 U	<0.54 U	<0.54 U	<27.0 U	<10.8 U	<2.7 U	<0.54 U	<0.54 U	<0.54 U
1,2,3-Trichlorobenzene	µg/L	NS	**NS**	<2.1 U	<0.63 U	<2.2 U	<2.2 U	<0.63 U	<2.2 U	<2.2 U	<2.2 U	<0.63 U	<0.63 U	<2.2 U	<2.2 U	<31.3 U	<44.2 U	<11.1 U	<0.63 U	<2.2 U	<2.2 U
1,2,3-Trichloropropane	µg/L	12	**60**	<0.50 U	<0.59 U	<0.59 U	<0.59 U	<0.59 U	<0.59 U	<0.59 U	<0.59 U	<0.59 U	<0.59 U	<0.59 U	<0.59 U	<29.5 U	<11.8 U	<3.0 U	<0.59 U	<0.59 U	<0.59 U
1,2,4-Trichlorobenzene	µg/L	14	**70**	<2.2 U	<0.95 U	<0.95 U	<0.95 U	<0.95 U	<0.95 U	<0.95 U	<0.95 U	<0.95 U	<0.95 U	<0.95 U	<0.95 U	<47.6 U	<19.0 U	<4.8 U	<0.95 U	<0.95 U	<0.95 U
1,2-Dibromo-3-chloropropane	µg/L	0.02	**0.2**	<2.2 U	<1.8 U	<1.8 U	<1.8 U	<1.8 U	<1.8 U	<1.8 U	<1.8 U	<1.8 U	<1.8 U	<1.8 U	<1.8 U	<88.2 U	<35.3 U	<8.8 U	<1.8 U	<1.8 U	<1.8 U
1,2-Dibromoethane	µg/L	0.005	**0.05**	<0.18 U	<0.83 U	<0.83 U	<0.83 U	<0.83 U	<0.83 U	<0.83 U	<0.83 U	<0.83 U	<0.83 U	<0.83 U	<0.83 U	<41.5 U	<16.6 U	<4.1 U	<0.83 U	<0.83 U	<0.83 U
1,2-Dichlorobenzene	µg/L	60	**600**	<0.50 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<35.3 U	<14.1 U	<3.5 U	<0.71 U	<0.71 U	<0.71 U
1,2-Dichloroethane	µg/L	0.5	**5**	<0.17 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<14.0 U	<5.6 U	<1.4 U	<0.28 U	<0.28 U	<0.28 U
1,2-Dichloropropane	µg/L	0.5	**5**	<0.23 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<0.28 U	<14.1 U	<5.7 U	<1.4 U	<0.28 U	<0.28 U	<0.28 U
1,2,4-Trimethylbenzene	µg/L	NS	**NS**	<0.50 U	<0.84 U	<0.84 U	<0.84 U	<0.84 U	<0.84 U	<0.84 U	<0.84 U	<0.84 U	<0.84 U	<0.84 U	<0.84 U	67.4 J	69.9	42.2	1.1 J	<0.84 U	<0.84 U
1,3,5-Trimethylbenzene	µg/L	NS	**NS**	<0.50 U	<0.87 U	<0.87 U	<0.87 U	<0.87 U	<0.87 U	<0.87 U	<0.87 U	<0.87 U	<0.87 U	<0.87 U	<0.87 U	<43.7 U	18.7 J	11.1 J	<0.87 U	<0.87 U	<0.87 U
Trimethylbenzenes, Total [3]	µg/L	96	**480**	<1 U	<1.71 U	<1.71 U	<1.71 U	<1.71 U	<1.71 U	<1.71 U	<1.71 U	<1.71 U	<1.71 U	<1.71 U	<1.71 U	67.4	88.6	53.3	1.1	<1.71 U	<1.71 U
1,3-Dichlorobenzene	µg/L	120	**600**	<0.50 U	<0.63 U	<0.63 U	<0.63 U	<0.63 U	<0.63 U	<0.63 U	<0.63 U	<0.63 U	<0.63 U	<0.63 U	<0.63 U	<31.4 U	<12.6 U	<3.1 U	<0.63 U	<0.63 U	<0.63 U
1,3-Dichloropropane	µg/L	NS	**NS**	<0.50 U	<0.83 U	<0.83 U	<0.83 U	<0.83 U	<0.83 U	<0.83 U	<0.83 U	<0.83 U	<0.83 U	<0.83 U	<0.83 U	<41.3 U	<16.5 U	<4.1 U	<0.83 U	<0.83 U	<0.83 U
1,4-Dichlorobenzene	µg/L	15	**75**	<0.50 U	<0.94 U	<0.94 U	<0.94 U	<0.94 U	<0.94 U	<0.94 U	<0.94 U	<0.94 U	<0.94 U	<0.94 U	<0.94 U	<47.2 U	<18.9 U	<4.7 U	<0.94 U	<0.94 U	<0.94 U
2,2-Dichloropropane	µg/L	NS	**NS**	<0.48 U	<2.3 U	<2.3 U	<2.3 U	<2.3 U	<2.3 U	<2.3 U	<2.3 U	<2.3 U	<2.3 U	<2.3 U	<2.3 U	<113 U	<45.3 U	<11.3 U	<2.3 U	<2.3 U	<2.3 U
2,3-Dichloropropene	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	µg/L	NS	**NS**	<0.50 U	<0.93 U	<0.93 U	<0.93 U	<0.93 U	<0.93 U	<0.93 U	<0.93 U	<0.93 U	<0.93 U	<0.93 U	<0.93 U	<46.3 U	<18.5 U	<4.6 U	<0.93 U	<0.93 U	<0.93 U
4-Chlorotoluene	µg/L	NS	**NS**	<0.21 U	<0.76 U	<0.76 U	<0.76 U	<0.76 U	<0.76 U	<0.76 U	<0.76 U	<0.76 U	<0.76 U	<0.76 U	<0.76 U	<37.8 U	<15.1 U	<3.8 U	<0.76 U	<0.76 U	<0.76 U
4-Isopropyltoluene	µg/L	NS	**NS**	<0.50 U	<0.80 U	<0.80 U	<0.80 U	<0.80 U	<0.80 U	<0.80 U	<0.80 U	<0.80 U	<0.80 U	<0.80 U	<0.80 U	<40.0 U	<16.0 U	<4.0 U	<0.80 U	<0.80 U	<0.80 U
Bromobenzene	µg/L	NS	**NS**	<0.23 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<0.24 U	<12.1 U	<4.8 U	<1.2 U	<0.24 U	<0.24 U	<0.24 U
Bromochloromethane	µg/L	NS	**NS**	<0.34 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U	<18.1 U	<7.2 U	<1.8 U	<0.36 U	<0.36 U	<0.36 U
Bromodichloromethane	µg/L	0.06	**0.6**	<0.50 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U	<0.36 U	<18.2 U	<7.3 U	<1.8 U	<0.36 U	<0.36 U	<0.36 U
Bromoform	µg/L	0.44	**4.4**	<0.50 U	<4.0 U	<4.0 U	<4.0 U	<4.0 U	<4.0 U	<4.0 U	<4.0 U	<4.0 U	<4.0 U	<4.0 U	<4.0 U	<199 U	<79.4 U	<19.9 U	<4.0 U	<4.0 U	<4.0 U
Bromomethane	µg/L	1	**10**	<2.4 U	<0.97 U	<0.97 U	<0.97 U	<0.97 U	<0.97 U	<0.97 U	<0.97 U	<0.97 U	<0.97 U	<0.97 U	<0.97 U	<48.6 U	<19.4 U	<4.9 U	<0.97 U	<0.97 U	<0.97 U
Carbon Tetrachloride	µg/L	0.5	**5**	<0.50 U	<0.17 U	<1.1 U	<1.1 U	<0.17 U	<1.1 U	<1.1 U	<1.1 U	<0.17 U	<0.17 U	<1.1 U	<1.1 U	<8.3 U	<21.5 U	<5.4 U	<0.17 U	<1.1 U	<1.1 U
Chlorobenzene	µg/L	NS	**NS**	<0.50 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<35.5 U	<14.2 U	<3.6 U	<0.71 U	<0.71 U	<0.71 U
Chloroethane	µg/L	80	**400**	<0.37 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<67.1 U	<26.8 U	<6.7 U	<1.3 U	<1.3 U	<1.3 U
Chloroform	µg/L	0.6	**6**	<2.5 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<1.3 U	<63.7 U	<25.5 U	<6.4 U	<1.3 U	<1.3 U	<1.3 U
Chloromethane	µg/L	3	**30**	<0.50 U	<2.2 U	<2.2 U	<2.2 U	<2.2 U	<2.2 U	<2.2 U	<2.2 U	<2.2 U	<2.2 U	<2.2 U	<2.2 U	<109 U	<43.8 U	<10.9 U	<2.2 U	<2.2 U	<2.2 U
cis-1,2-Dichloroethene	µg/L	7	**70**	<0.26 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<0.27 U	<13.6 U	<5.4 U	<1.4 U	<0.27 U	<0.27 U	<0.27 U
cis-1,3-Dichloropropene	µg/L	NS	**NS**	<0.50 U	<3.6 U	<3.6 U	<3.6 U	<3.6 U	<3.6 U	<3.6 U	<3.6 U	<3.6 U	<3.6 U	<3.6 U	<3.6 U	<181 U	<72.6 U	<18.1 U	<3.6 U	<3.6 U	<3.6 U
trans-1,3-Dichloropropene	µg/L	NS	**NS**	<0.23 U	<4.4 U	<4.4 U	<4.4 U	<4.4 U	<4.4 U	<4.4 U	<4.4 U	<4.4 U	<4.4 U	<4.4 U	<4.4 U	<219 U	<87.4 U	<21.9 U	<4.4 U	<4.4 U	<4.4 U
1,3-Dichloropropene [4]	µg/L	0.04	**0.4**	<0.73 U	<8 U	<8 U	<8.0 U	<8 U	<8 U	<8.0 U	<8.0 U	<8 U	<8 U	<8 U	<8.0 U	<400 U	<160 U	<40.0 U	<8 U	<8 U	<8.0 U
Dibromochloromethane	µg/L	6	**60**	<0.50 U	<2.6 U	<2.6 U	<2.6 U	<2.6 U	<2.6 U	<2.6 U	<2.6 U	<2.6 U	<2.6 U	<2.6 U	<2.6 U	<130 U	<52.0 U	<13.0 U	<2.6 U	<2.6 U	<2.6 U
Dibromomethane	µg/L	NS	**NS**	<0.43 U	<0.94 U	<0.94 U	<0.94 U	<0.94 U	<0.94 U	<0.94 U	<0.94 U	<0.94 U	<0.94 U	<0.94 U	<0.94 U	<46.8 U	<18.7 U	<4.7 U	<0.94 U	<0.94 U	<0.94 U
Freon 12	µg/L	200	**1,000**	<0.22 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<25.0 U	<10 U	<2.5 U	<0.50 U	<0.50 U	<0.50 U
Hexachlorobutadiene	µg/L	NS	**NS**	<2.1 U	<1.2 U	<1.5 U	<1.5 U	<1.2 U	<1.5 U	<1.5 U	<1.5 U	<1.2 U	<1.2 U	<1.5 U	<1.5 U	<59.1 U	<29.3 U	<7.3 U	<1.2 U	<1.5 U	<1.5 U
Isopropyl ether	µg/L	NS	**NS**	<0.50 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<1.9 U	<94.4 U	<37.8 U	<9.4 U	<1.9 U	<1.9 U	<1.9 U
Isopropylbenzene	µg/L	NS	**NS**	0.16 J	<0.39 U	<1.7 U	<1.7 U	2.0 J	<1.7 U	<1.7 U	<1.7 U	7.4	7.5	5.9	5.3 J	104 J	<33.7 U	11.0 J	2.0 J	<1.7 U	<1.7 U
Methylene chloride (DCM)	µg/L	0.5	**5**	<0.23 U	<0.58 U	<0.58 U	<0.58 U	<0.58 U	<0.58 U	<0.58 U	<0.58 U	<0.58 U	<0.58 U	<0.58 U	<0.58 U	<29.0 U	<11.6 U	<2.9 U	<0.58 U	<0.58 U	<0.58 U
Methyl-tert-butyl-ether	µg/L	12	**60**	<0.17 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<1.2 U	<62.3 U	<24.9 U	<6.2 U	<1.2 U	<1.2 U	<1.2 U
Naphthalene	µg/L	10	**100**	<2.5 U	<1.2 U	<1.2 U	<1.2 U	9.3	2.0 J	1.6 J	1.6 J	2.8 J	2.8 J	6.3	6.9	**2,270**	**1,870**	**1,150**	20.4	<1.2 U	<1.2 U
n-Butylbenzene	µg/L	NS	**NS**	<0.50 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	<0.71 U	0.97 J	1.1 J	1.1 J	<0.71 U	<35.4 U	<14.2 U	<3.5 U	<0.71 U	<0.71 U	<0.71 U
n-Propylbenzene	µg/L	NS	**NS**	<0.50 U	<0.81 U	<0.81 U	<0.81 U	<0.81 U	<0.81 U	<0.81 U	<0.81 U	1.8 J	1.7 J	1.8 J	1.6 J	<40.5 U	<16.2 U	<4.1 U	<0.81 U	<0.81 U	<0.81 U
sec-Butylbenzene	µg/L	NS	**NS**	<2.2 U	<0.85 U	<0.85 U	<0.85 U	<0.85 U	<0.85 U	<0.85 U	<0.85 U	<0.85 U	<0.85 U	<0.85 U	<0.85 U	<42.4 U	<17.0 U	<4.2 U	<0.85 U	<0.85 U	<0.85 U
Styrene	µg/L	10	**100**	<0.50 U	<0.47 U	<3.0 U	<3.0 U	<0.47 U	<3.0 U	<3.0 U	<3.0 U	<0.47 U	<0.47 U	<3.0 U	<3.0 U	<23.3 U	<60.2 U	<15.0 U	<0.47 U	<3.0 U	<3.0 U
tert-Butylbenzene	µg/L	NS	**NS**	<0.18 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<15.2 U	<6.1 U	<1.5 U	<0.30 U	<0.30 U	<0.30 U
Tetrachloroethene	µg/L	0.5	**5**	<0.50 U	<0.33 U	<0.33 U	<0.33 U	<0.33 U	<0.33 U	<0.33 U	<0.33 U	<0.33 U	<0.33 U	<0.33 U	<0.33 U	<16.3 U	<6.5 U	<1.6 U	<0.33 U	<0.33 U	<0.33 U
trans-1,2-Dichloroethene	µg/L	20	**100**	<0.26 U	<1.1 U	<0.46 U	<0.46 U	<1.1 U	<0.46 U	<0.46 U	<0.46 U	<1.1 U	<1.1 U	<0.46 U	<0.46 U	<54.5 U	<9.3 U	<2.3 U	<1.1 U	<0.46 U	<0.46 U
Trichloroethene	µg/L	0.5	**5**	<0.33 U	<0.26 U	<0.26 U	<0.26 U	<0.26 U	<0.26 U	<0.26 U	<0.26 U	<0.26 U	<0.26 U	<0.26 U	<0.26 U	<12.8 U	<5.1 U	<1.3 U	<0.26 U	<0.26 U	<0.26 U
Trichlorofluoromethane	µg/L	NS	**NS**	<0.18 U	<0.21 U	<0.21 U	<0.21 U	<0.21 U	<0.21 U	<0.21 U	<0.21 U	<0.21 U	<0.21 U	<0.21 U	<0.21 U	<10.7 U	<4.3 U	<1.1 U	<0.21 U	<0.21 U	<0.21 U
Vinyl Chloride	µg/L	0.02	**0.2**	<0.18 U	<0.17 U	<0.17 U	<0.17 U	<0.17 U	<0.17 U	<0.17 U	<0.17 U	<0.17 U	<0.17 U	<0.17 U	<0.17 U	<8.7 U	<3.5 U	<0.87 U	<0.17 U	<0.17 U	<0.17 U

Table 5. Groundwater Analytical Results

Former Third Ward MGP, Milwaukee, Wisconsin
BRRTS #
02-41-000320 (Peters=Johnson 3rd Ward Coal Gas MGP)
02-41-557054 (3rd Ward Coal Gas MGP/City of Milwaukee)
02-41-557057 (Hoffmann)
02-41-577202 (One Catalano Square) (off-site)

Station Name:				W-102S				W-103DL				W-103S				W-104DL			W-104S		
Depth Level Unit:	Units	WI GW PAL	WI GW ES	Upper Shallow				Lower Shallow				Upper Shallow				Lower Shallow			Upper Shallow		
Sample Date (m/d/yyyy):				2/28/2017	12/17/2019	5/11/2020	12/15/2020	2/12/2020	5/12/2020	12/15/2020	12/15/2020	2/12/2020	2/12/2020 (Dup)	5/12/2020	12/15/2020	2/12/2020	5/12/2020	12/15/2020	2/12/2020	5/12/2020	12/15/2020
PAHs																					
1-Methylnaphthalene	µg/L	NS	**NS**	0.040	0.019 J	<0.0058 U	<0.0058 U	1.2	0.39	0.28	0.28	7.8	8.6	6.7	4.8	94.1	980	30.0	0.038	<0.0057 U	<0.0063 U
2-Methylnaphthalene	µg/L	NS	**NS**	0.044	0.027	<0.0048 U	<0.0049 U	1.2	0.49	0.33	0.34	<0.097 U	<0.10 U	<0.092 U	<0.20 U	118	1,420	30.3	0.012 J	<0.0047 U	<0.0053 U
Acenaphthene	µg/L	NS	**NS**	0.019 J	0.0079 J	0.010 J	0.0075 J	0.98	0.30	0.28	0.26	155	166	128	131	22.4	478	7.0	0.0065 J	<0.0058 U	<0.0065 U
Acenaphthylene	µg/L	NS	**NS**	<0.0049 U	<0.0053 U	<0.0049 U	<0.0049 U	0.041	0.011 J	0.011 J	0.011 J	1.1	1.2	0.77	1.1	0.89 J	81.7	0.45 J	<0.0052 U	<0.0048 U	0.018 J
Anthracene	µg/L	600	**3,000**	<0.010 U	<0.011 U	<0.010 U	<0.010 U	0.19	0.052	0.052 J	0.055	1.1	1.3	0.84 J	<0.43 U	1.4 J	178	0.80 J	0.023 J	0.023 J	0.063
Benzo(a)anthracene	µg/L	NS	**NS**	<0.0074 U	<0.0080 U	<0.0074 U	<0.0075 U	0.015 J	0.015 J	0.022 J	0.019 J	<0.15 U	<0.16 U	0.15 J	<0.31 U	<0.66 U	77.9	<0.39 U	<0.0079 U	0.024 J	0.067
Benzo(a)pyrene	µg/L	0.02	**0.2**	<0.010 U	<0.011 U	<0.010 U	<0.010 U	<0.011 U	<0.010 U	<0.012 U	<0.011 U	<0.21 U	<0.22 U	<0.20 U	<0.43 U	<0.93 U	**57.3**	<0.54 U	<0.011 U	0.012 J	0.043 J
Benzo(b)fluoranthene	µg/L	0.02	**0.2**	0.023 J	<0.0061 U	<0.0056 U	<0.0057 U	0.021 J	0.0069 J	0.016 J	0.016 J	<0.11 U	<0.12 U	<0.11 U	<0.23 U	<0.50 U	**42.3**	<0.29 U	<0.0060 U	0.020 J	0.075
Benzo(g,h,i)perylene	µg/L	NS	**NS**	0.018 J	<0.0072 U	<0.0066 U	<0.0067 U	<0.0069 U	0.0073 J	<0.0077 U	<0.0068 U	<0.13 U	<0.14 U	<0.13 U	<0.28 U	<0.60 U	23.1	<0.35 U	<0.0071 U	0.012 J	0.042
Benzo(k)fluoranthene	µg/L	NS	**NS**	0.014 J	<0.0080 U	<0.0074 U	<0.0075 U	0.012 J	0.0073 J	<0.0086 U	<0.0076 U	<0.15 U	<0.16 U	<0.14 U	<0.31 U	<0.66 U	24.1	<0.39 U	<0.0079 U	0.012 J	0.032 J
Chrysene	µg/L	0.02	**0.2**	0.016 J	<0.014 U	<0.013 U	<0.013 U	0.056 J	0.017 J	0.032 J	0.027 J	<0.26 U	<0.27 U	<0.25 U	<0.53 U	<1.1 U	**104**	<0.67 U	<0.014 U	0.027 J	0.11
Dibenz(a,h)anthracene	µg/L	NS	**NS**	<0.0098 U	<0.011 U	<0.0098 U	<0.0099 U	<0.010 U	<0.0095 U	<0.011 U	<0.010 U	<0.20 U	<0.21 U	<0.19 U	<0.41 U	<0.88 U	<4.9 U	<0.51 U	<0.010 U	<0.0096 U	<0.011 U
Fluoranthene	µg/L	80	**400**	0.011 J	<0.011 U	<0.010 U	<0.011 U	0.30	0.16	0.17	0.15	2.3	2.3	2.4	2.5	<0.94 U	166	<0.54 U	<0.011 U	0.066	0.18
Fluorene	µg/L	80	**400**	<0.0078 U	<0.0085 U	<0.0078 U	<0.0079 U	0.24	0.091	0.055	0.075	1.7	1.5	0.24 J	1.0 J	4.3	224	1.7 J	<0.0083 U	<0.0077 U	<0.0086 U
Indeno(1,2,3-cd)pyrene	µg/L	NS	**NS**	<0.017 U	<0.019 U	<0.017 U	<0.017 U	<0.018 U	<0.017 U	<0.020 U	<0.018 U	<0.35 U	<0.36 U	<0.33 U	<0.72 U	<1.6 U	15.5 J	<0.90 U	<0.018 U	<0.017 U	0.029 J
Naphthalene	µg/L	10	**100**	0.57	<0.020 U	<0.018 U	<0.018 U	3.5	1.1	0.80	0.84	1.1 J	1.2 J	2.9	2.6 J	**1,040**	**3,490**	**340**	10.8	<0.018 U	<0.020 U
Phenanthrene	µg/L	NS	**NS**	<0.014 U	<0.015 U	<0.014 U	<0.014 U	0.51	0.25	0.23	0.23	<0.27 U	<0.28 U	<0.26 U	<0.56 U	6.3	655	1.8 J	0.016 J	0.021 J	0.063 J
Pyrene	µg/L	50	**250**	0.012 J	<0.0081 U	<0.0075 U	<0.0076 U	0.32	0.14	0.17	0.16	3.4	3.5	3.4	4.7	<0.67 U	**279**	1.1 J	0.0096 J	0.064	0.18
Total PAH (16) [5]	µg/L	NS	**NS**	0.683	0.0079	0.01	0.0075	6.185	2.1575	1.838	1.843	165.7	177	138.7	142.9	1075.3	5895.9	352.85	10.855	0.281	0.902
Petroleum Hydrocarbons																					
Diesel Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Gasoline Range Organics	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals																					
Iron, Total	µg/L	150	**300**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide																					
Cyanide DISS (amenable)	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide DISS, total	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide, Amenable	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide, Total	µg/L	40	**200**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lab MNA Parameters																					
Carbon Dioxide	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon monoxide	mg/L	10,000	**10,000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethane	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethene	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron, Dissolved	µg/L	150	**300**	--	**2,250**	--	--	**9,550**	--	--	--	**963**	**952**	--	--	**16,000**	--	--	**5,260**	--	--
Manganese, Dissolved	µg/L	60	**300**	--	**412**	--	--	247	--	--	--	**481**	**470**	--	--	**385**	--	--	**893**	--	--
Methane	µg/L	NS	**NS**	--	--	--	--	11,300	--	--	--	1,820	1,700	--	--	17,600	--	--	5,320	--	--
Nitrogen, NO2 + NO3, Total	µg/L	2,000	**10,000**	--	<59 U	--	--	700	--	--	--	140 J	170 J	--	--	170 J	--	--	150 J	--	--
Nitrogen	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxygen	µg/L	NS	**NS**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate, Total	µg/L	125,000	**250,000**	--	118,000	--	--	<2,200 U	--	--	--	12,800	11,700	--	--	<2,200 U	--	--	55,200	--	--
Field Parameters																					
Dissolved oxygen	mg/L	NS	**NS**	0.21	0.09	0.13	0.13	0.09	0.15	0.08	0.08	0.10	0.10	0.15	0.15	0.11	0.18	0.15	0.12	10.64	1.98
Groundwater, depth to	feet	NS	**NS**	10.85	10.41	10.00	10.33	6.51	6.58	8.61	8.61	6.80	6.80	6.28	7.62	8.03	7.71	8.15	6.11	5.60	5.85
Oxidation Reduction Potential	millivolts	NS	**NS**	-218	-112.7	-204.9	-189.5	-258.3	-158.2	-206.9	-206.9	-244.5	-244.5	-209.0	-182.9	-207.3	-129.0	-175.8	-182.0	71.4	-135.6
pH, Field	s.u.	NS	**NS**	6.88	6.95	6.96	7.11	7.08	7.05	7.01	7.01	7.35	7.35	7.59	7.36	6.77	6.78	6.76	6.95	7.94	7.56
Specific Conductance, Field	µS/cm	NS	**NS**	9,090	8416.7	7959.4	8802.8	1681.3	1,565	1620.9	1620.9	2811.9	2811.9	1879.2	788.0	1479.6	1507.8	1253.5	3395.4	3922.2	972.3
Temperature, Water	Deg C	NS	**NS**	10.05	11.41	10.57	9.19	7.97	11.45	9.71	9.71	5.74	5.74	10.56	8.79	9.59	12.06	12.37	7.42	11.01	9.01
Turbidity, Quantitative	NTUs	NS	**NS**	0.0	0.48	0.54	0.51	23.00	3.29	28.51	28.51	10.93	10.93	5.18	0.00	18.65	4.73	8.54	10.30	8.05	24.81

[O:MGP 7/8/20, C:CMD 7/13/20, U:CMD 7/27/20, U:CMD 4/15/21, C:SGW 4/19/21]

Notes:

Bold	attains or exceeds WI Groundwater ES
Underlined	attains or exceeds WI Groundwater PAL
Pink Highlighting	result exceeds one or more screening criteria

PAL and ES from WI Administrative Code NR 140 groundwater quality standard revised effective January 2020.

-- = Analysis not performed
< = Concentration is less than reported limit
µg/L = micrograms per liter
µS/cm = microsiemens per centimeter (aka micromhos per centimeter)
B = analyte was detected in the associated method blank.
BRRTS = Bureau for Remediation and Redevelopment Tracking System
BTEX = Benzene, Toluene, Ethylbenzene and Xylene
DCM = Dichloromethane
Deg C = Degrees Celsius
Dup = Quality Control Field Duplicate Sample
ES = Enforcement Standard
GW = groundwater
J = Estimated concentration
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
MGP = manufactured gas plant
MNA = Monitored Natural Attenuation
NO2 + NO3 = nitrite plus nitrate
NS = No Screening Level
NTU = Nephelometric Turbidity Unit
PAH = Polycyclic Aromatic Hydrocarbon
PAL = Preventive Action Limit
s.u. = standard units
U = Concentration was not detected above the reported limit
VOC = Volatile Organic Compound
WI = Wisconsin

1. Total Xylenes were calculated by Ramboll as follows:
   a. Where no detections were observed, the sum of the reporting limits is presented.
   b. Where detections were observed, only the detected results were added together for the total summation.
   c. Analytes used for the calculation are Xylene-o and Xylenes-m+p.

2. The following rules apply to the summation of Total BTEX calculated by Ramboll:
   a. Where no detections were observed, the sum of the reporting limits is presented.
   b. Where detections were observed, only the detected results were added together for the total summation.
   c. Analytes used for the calculation are Benzene, Toluene, Ethylbenzene, and Total Xylenes.

3. Total Trimethylbenzenes were calculated by Ramboll as follows:
   a. Where no detections were observed, the sum of the reporting limits is presented.
   b. Where detections were observed, only the detected results were added together for the total summation.
   c. Analytes used for the calculation are 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.

4. 1,3-Dichloropropene was calculated by Ramboll as follows:
   a. Where no detections were observed, the sum of the reporting limits is presented.
   b. Where detections were observed, the detected results were added together for the total summation.
   c. Analytes used for the calculation are cis-1,3-Dichloropropene and trans-1,3-Dichloropropene.

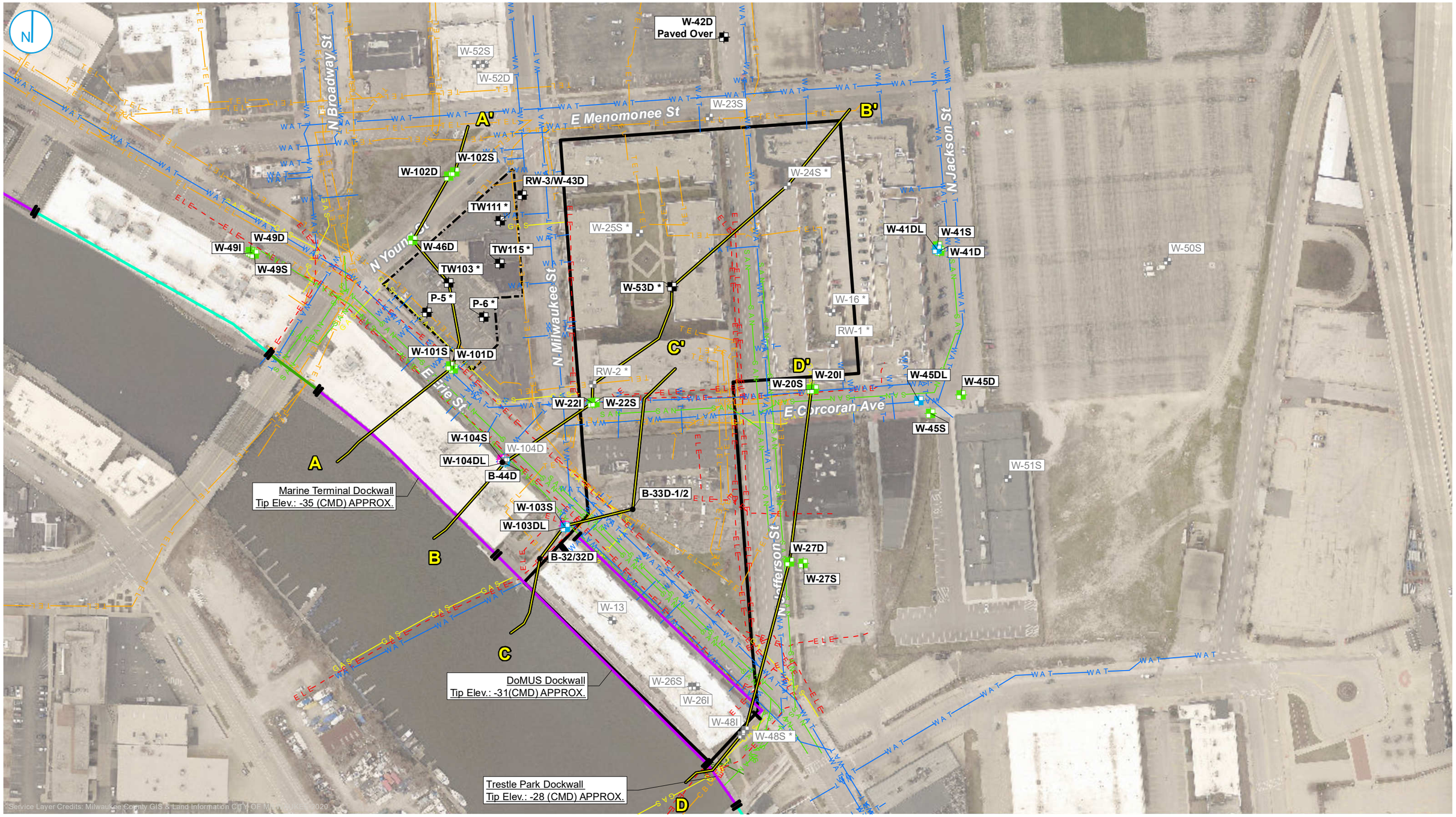
5. The following rules apply to the summation of Total PAH (16) calculated by Ramboll:
   a. Where no detections were observed, the maximum individual reported detection limit is presented.
   b. Where detections were observed, only the detected results were added together for the total summation.
   c. The list of PAH (16) is as follows: Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(ghi)perylene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene and Pyrene.

Lab comments and definitions can be found in associated laboratory reports.

FIGURES

Y:\Mapping\Projects\231257\MXD\SI_Addendum\Figure 4_Utilities Map.mxd

PROJECT: 169000XXX | DATED: 4/23/2021 | DESIGNER: galarnmc



2019 SI UPPER SHALLOW UNIT MONITORING WELL
2019 SI LOWER SHALLOW UNIT MONITORING WELL
2019 DEEP UNIT MONITORING WELL
CROSS SECTION

HISTORICAL WELL IN MONITORING PROGRAM
HISTORICAL WELL NOT IN MONITORING PROGRAM
HISTORIC SOIL BORING
ABANDONED MONITORING WELL
ONE CATALANO SQUARE PROPERTY
FORMER THIRD WARD MGP SITE BOUNDARY

0 75 150 Feet

APPROXIMATE UTILITY LOCATION

- CBL — CABLE
- ELE — ELECTRIC
- GAS — GAS
- SAN — SANITARY SEWER
- STM — STORM SEWER
- TEL — COMMUNICATIONS
- WAT — WATER

BULKHEAD WALL BY MATERIAL

- STEEL
- CONCRETE
- NOT EVALUATED

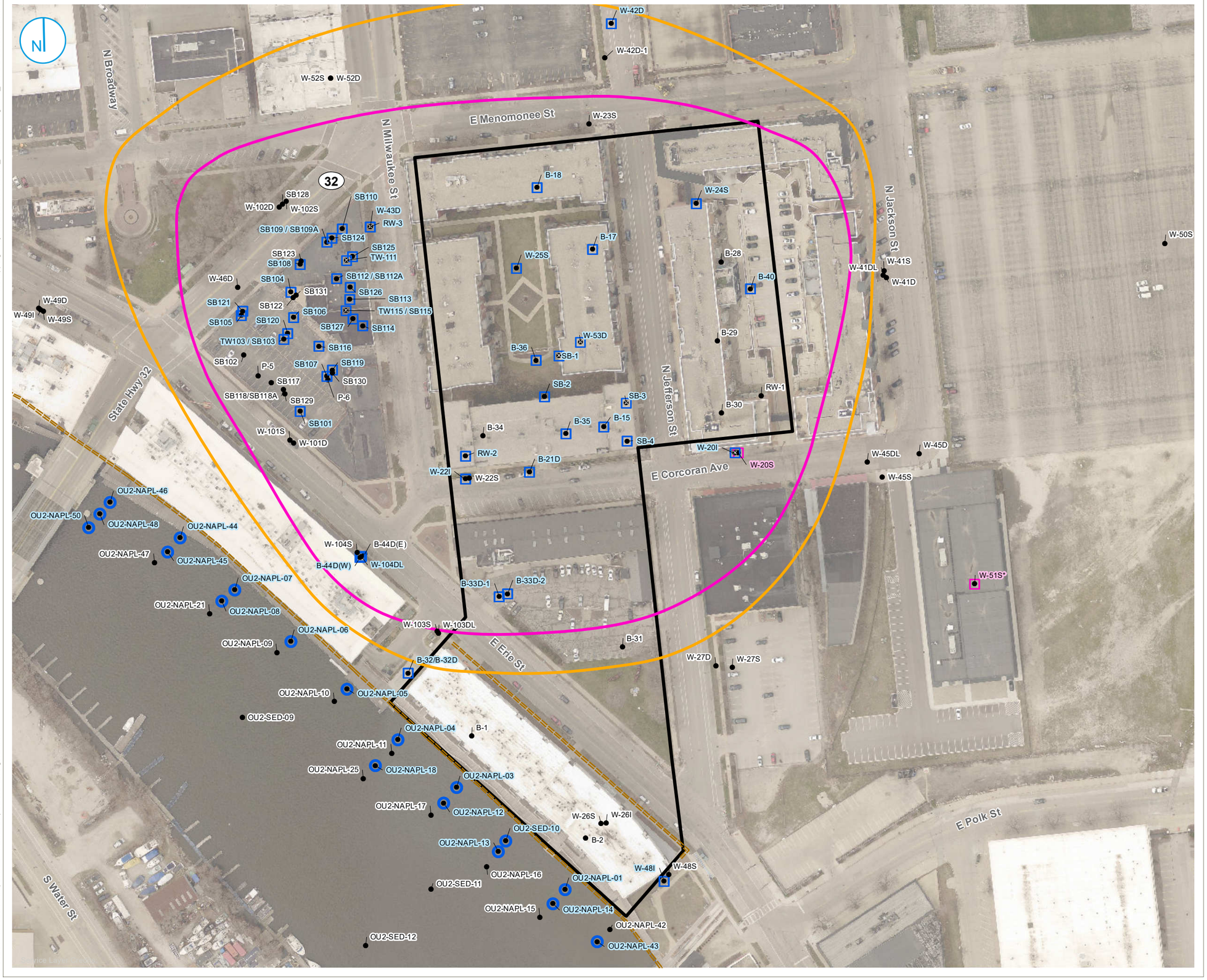
NOTES:
* MONITORING WELL WITHOUT ANALYTICAL DATA
CMD - CITY OF MILWAUKEE DATUM
SI - SITE INVESTIGATION

UTILITIES AND DOCK WALL LOCATIONS

FORMER THIRD WARD MGP
MILWAUKEE, WISCONSIN

FIGURE 4

RAMBOLL US CORPORATION
A RAMBOLL COMPANY



FORMER THIRD WARD MGP SITE BOUNDARY

DNAPL HISTORICALLY OBSERVED IN WELLS

UPLAND BORING

- DNAPL-IMPACTED (OIL-WETTED/OIL-COATED)
- LNAPL-IMPACTED
- NO OBSERVATION OF DNAPL

SEDIMENT BORING

- DNAPL-IMPACTED (OIL-WETTED/OIL-COATED)
- NO OBSERVATION OF DNAPL

DOCK WALL

ESTIMATED EXTENT OF THE LOWER SHALLOW UNIT GROUNDWATER CONTAMINATION THAT EXCEEDS THE NR140 ES

ESTIMATED EXTENT OF THE LOWER SHALLOW UNIT GROUNDWATER CONTAMINATION THAT EXCEEDS THE NR140 PAL

Notes:

* LNAPL UNRELATED TO MGP SITE

DNAPL = DENSE NON-AQUEOUS PHASE LIQUID

MGP = MANUFACTURED GAS PLANT

0 62.5 125 Feet

DNAPL OBSERVATIONS

FORMER THIRD WARD MGP
MILWAUKEE, WISCONSIN

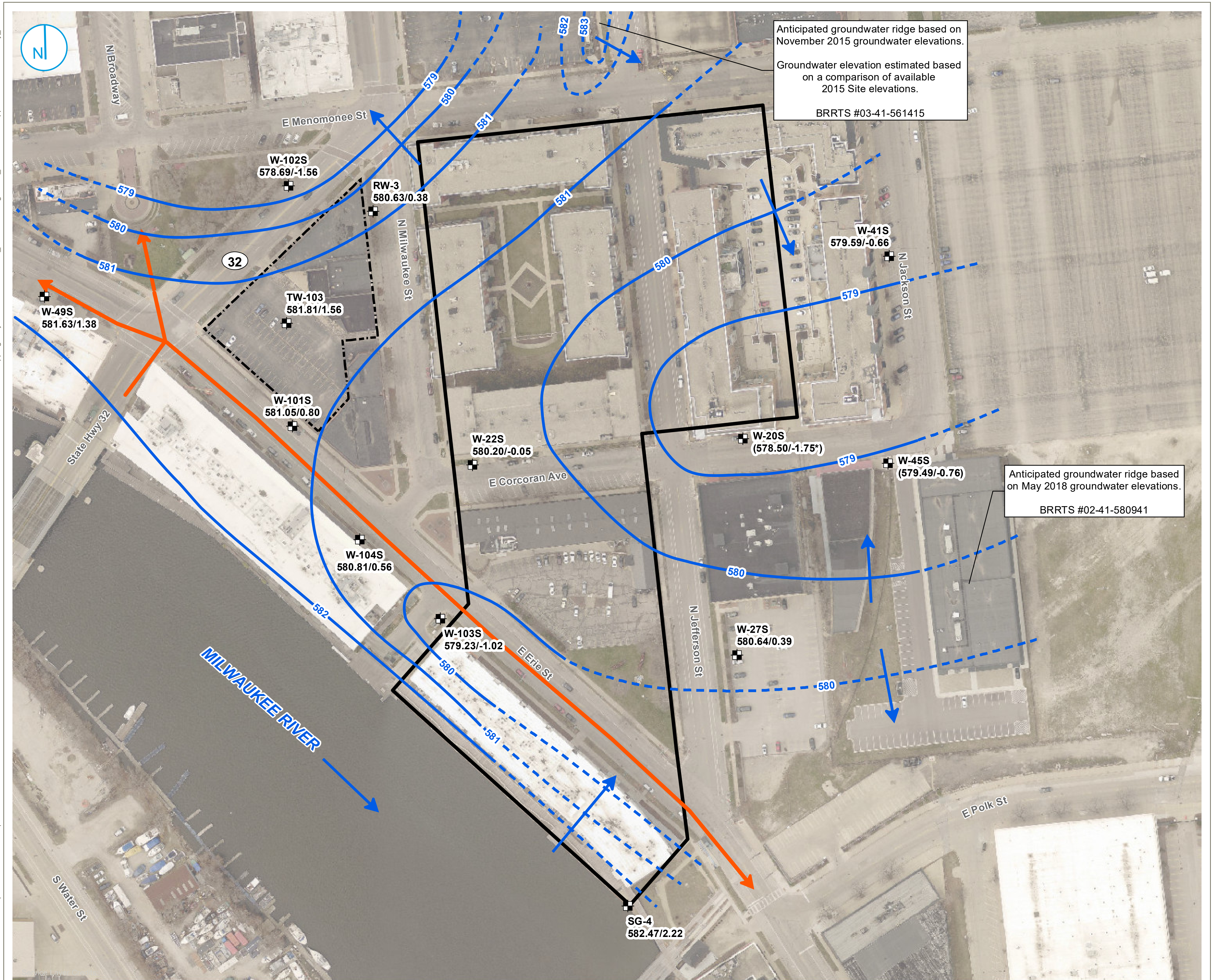
FIGURE 5

RAMBOLL US CORPORATION
A RAMBOLL COMPANY

RAMBOLL

Y:\Mapping\Projects\23\2357\MXD\SI_Addendum\Figure 5_DNAPL Observations.mxd

PROJECT: 169000XXXX | DATED: 4/26/2021 | DESIGNER: galammo



FORMER THIRD WARD MGP SITE BOUNDARY

ONE CATALANO SQUARE PROPERTY

MONITORING WELL LOCATION

GROUNDWATER ELEVATION CONTOUR

INFERRED GROUNDWATER ELEVATION CONTOUR

GROUNDWATER FLOW DIRECTION

APPROXIMATE LOCATION OF 49" X 68" METROPOLITAN INTERCEPTOR SEWER AND 54" NEAR SURFACE COLLECTOR

Notes:
1. * LNAPL PRESENT
2. ELEVATIONS SHOWN IN PARENTHESES WERE NOT USED FOR CONTOURING.
3. ELEVATIONS SHOWN IN NAVD88 / MILWAUKEE CITY DATUM.
4. ELEVATIONS LISTED IN FEET.
5. SEWER INSTALLED BELOW WATER TABLE.

0 62.5 125 Feet

GROUNDWATER FLOW MAP
UPPER SHALLOW UNIT
MAY 11, 2020

FORMER THIRD WARD MGP
MILWAUKEE, WISCONSIN

FIGURE 6A

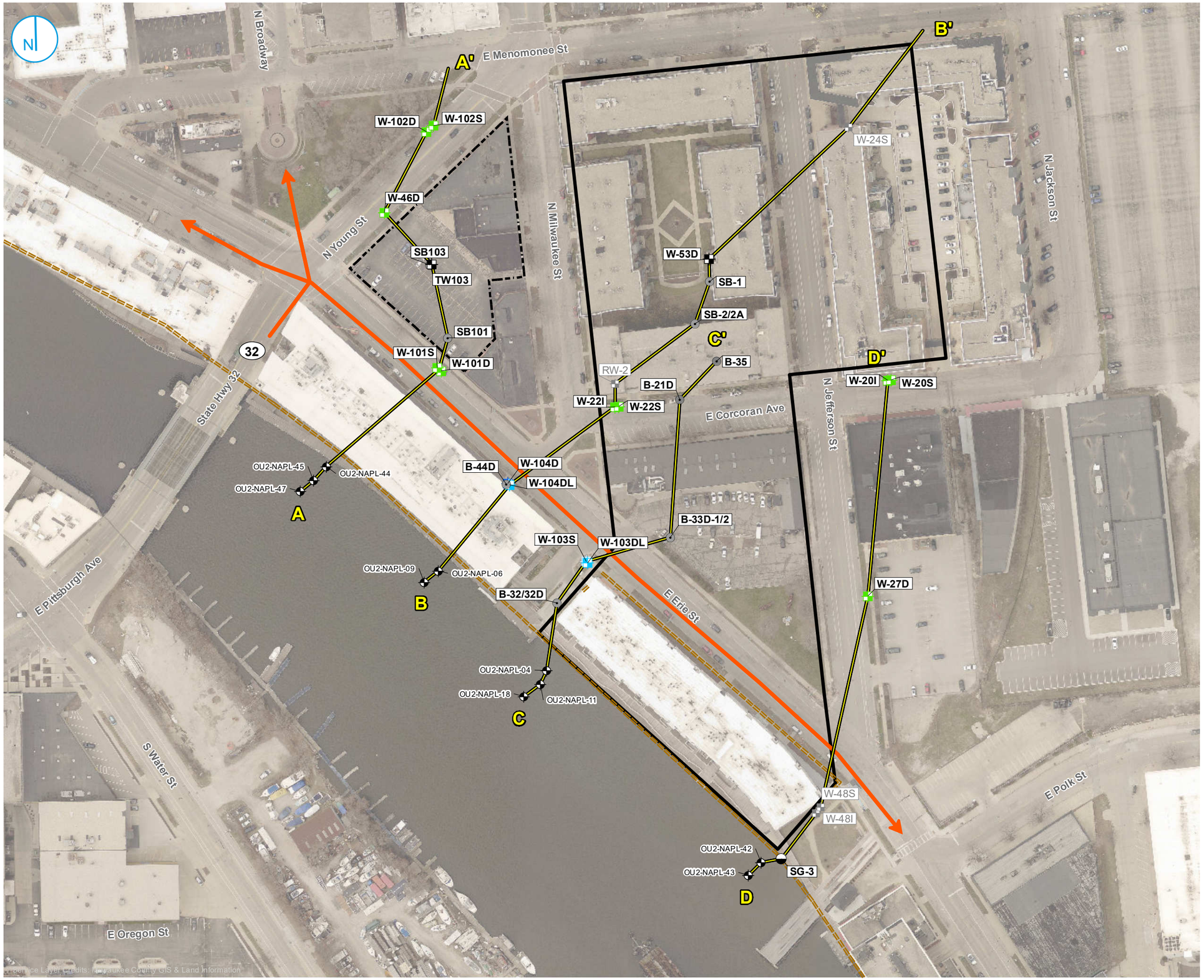
RAMBOLL US CORPORATION
A RAMBOLL COMPANY

RAMBOLL

Y:\Mapping\Projects\23\2357\MXD\SI_Addendum\Figure 6a_Groundwater Upper Shallow 2020 May_rev.mxd

PROJECT: 169000XXXX | DATED: 4/30/2021 | DESIGNER: STOLZSD

Y:\Mapping\Projects\23\2357\MXD\SI_Addendum\Figure 7_CrossSection Overview.mxd



- 2019 SI UPPER SHALLOW UNIT MONITORING WELL
- 2019 SI LOWER SHALLOW UNIT MONITORING WELL
- 2019 DEEP UNIT MONITORING WELL
- STAFF GAUGE
- 2017 SEDIMENT SAMPLE LOCATION
- HISTORIC WELL IN MONITORING PROGRAM
- HISTORIC WELL NOT IN MONITORING PROGRAM
- HISTORIC SOIL BORING
- ABANDONED MONITORING WELL
- CROSS SECTION
- DOCK WALL
- APPROXIMATE LOCATION OF 49" X 68" METROPOLITAN INTERCEPTOR SEWER AND 54" NEAR SURFACE COLLECTOR
- ONE CATALANO SQUARE PROPERTY
- FORMER THIRD WARD MGP SITE BOUNDARY

0 62.5 125 Feet

CROSS-SECTION LOCATIONS MAP

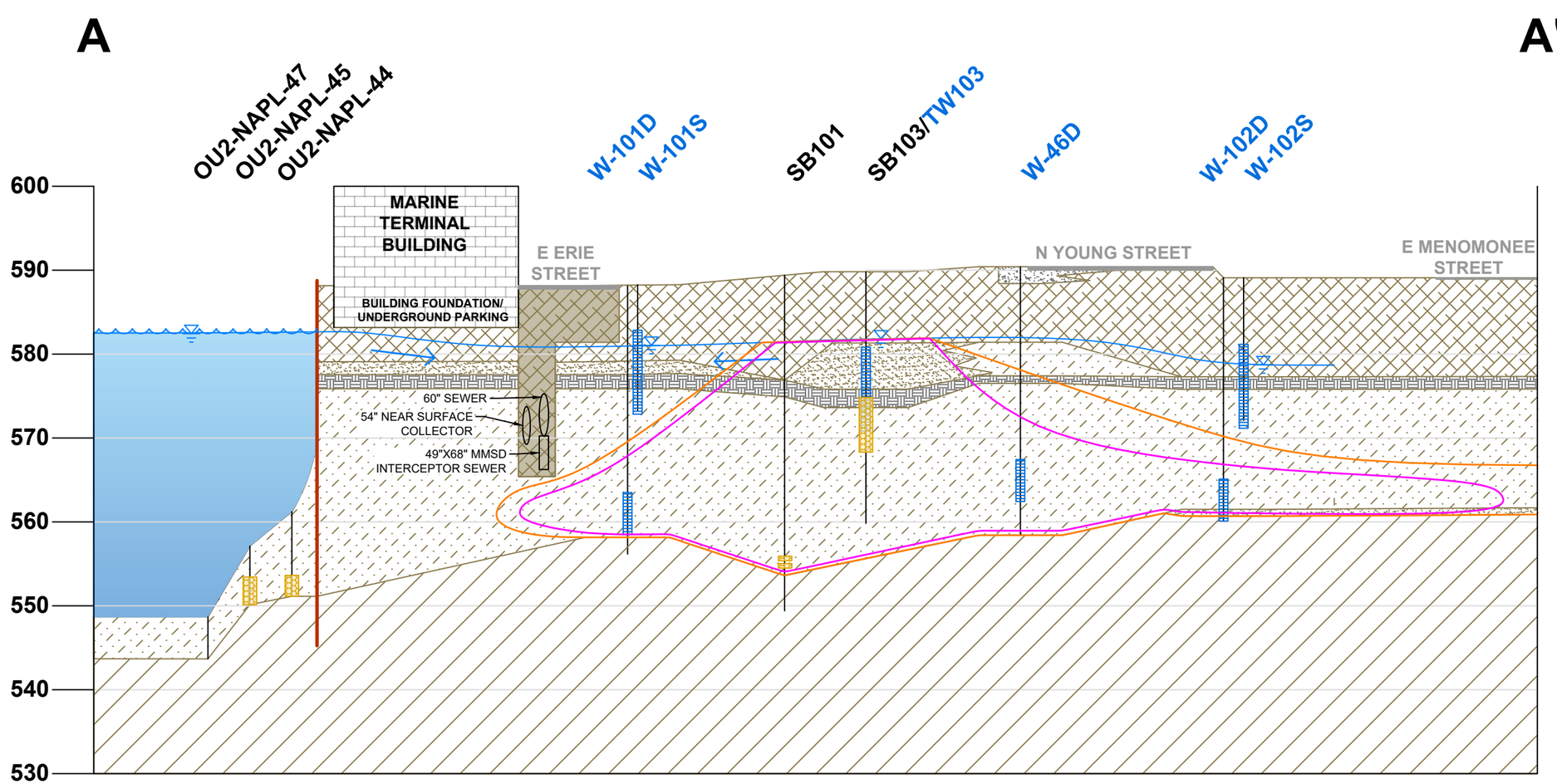
FORMER THIRD WARD MGP
MILWAUKEE, WISCONSIN

FIGURE 7

RAMBOLL US CORPORATION
A RAMBOLL COMPANY

PROJECT: 169000XXXX | DATED: 11/3/2020 | DESIGNER: galammc

NORTH



15'
10'
5'
0
25' 50' 75'
5x VERTICAL EXAGGERATION

NOTES
1. NAPL = NON-AQUEOUS PHASE LIQUID
2. * AND GRAY = ABANDONED WELLS
4. BLUE = EXISTING WELLS

LEGEND

- BORING LOCATION
- WELL SCREEN
- STREET/ASPHALT/CONCRETE
- FILL
- INTERBEDDED MATERIALS (gravel, silt, silty sand, silty clay)
- SAND
- PEAT
- CLAY
- DOCK WALL
- NAPL
- GROUNDWATER ELEVATION
- UTILITY CORRIDOR
- GROUNDWATER FLOW DIRECTION
- ES EXCEEDANCE
- PAL EXCEEDANCE

CROSS SECTION A-A'

FORMER THIRD WARD MGP
SITEWIDE SI ADDENDUM
MILWAUKEE, WISCONSIN 53202

FIGURE 8A

RAMBOLL US CORPORATION
A RAMBOLL COMPANY

RAMBOLL

NORTH

B

B'

OU2-NAPL-09
OU2-NAPL-06
B-44D
W-104S
W-104D*
W-104DL
W-22I
W-22S
RW-2*
SB-2
SB-1
W-53D
W-24S*

600
590
580
570
560
550
540
530

MARINE TERMINAL BUILDING
BUILDING FOUNDATION/ UNDERGROUND PARKING
E ERIE STREET
N MILWAUKEE STREET
PETERS JOHNSON BUILDING
ELEVATED COURTYARD, PARKING BELOW
PETERS JOHNSON BUILDING
N JEFFERSON STREET
JEFFERSON BLOCK BUILDING
JEFFERSON BLOCK BUILDING
E MENOMONEE STREET

54" NEAR SURFACE COLLECTOR
49"X68" MMSD INTERCEPTOR SEWER
60" SEWER
60" MIS SEWER
WOOD PILINGS
WOOD PILINGS

15'
10'
5'
0
5x VERTICAL EXAGGERATION
25' 50' 75'

NOTES
1. BLANKS IN GEOLOGY ARE BLIND DRILLED, OR NO RECOVERY WAS OBSERVED IN THE SAMPLER.
2. NAPL = NON-AQUEOUS PHASE LIQUID
3. * AND GRAY = ABANDONED WELLS
4. BLUE = EXISTING WELLS

LEGEND

- BORING LOCATION
- WELL SCREEN
- STREET/ASPHALT/CONCRETE
- FILL
- INTERBEDDED MATERIALS (gravel, silt, silty sand, silty clay)
- SAND
- PEAT
- CLAY
- DOCK WALL
- NAPL
- GROUNDWATER ELEVATION
- UTILITY CORRIDOR
- THERMALLY TREATED SOIL BACKFILL
- GROUNDWATER FLOW DIRECTION
- ES EXCEEDANCE
- PAL EXCEEDANCE

CROSS SECTION B-B'

FORMER THIRD WARD MGP
SITEWIDE SI ADDENDUM
MILWAUKEE, WISCONSIN 53202

FIGURE 8B

RAMBOLL US CORPORATION
A RAMBOLL COMPANY

NORTH

C

C'

OU2-NAPL-18
OU2-NAPL-11
OU2-NAPL-04
B-32/32D
W-103S
W-103DL
B-33D-1/2
B-21D
B-35

600
590
580
570
560
550
540
530

VACATED MILWAUKEE STREET
E ERIE STREET
HOFFMANN BUILDING
E CORCORAN AVE
PETERS JOHNSON BUILDING

4'X3' TIMBER FLUME (CLOSED OFF)
60" SEWER
54" NEAR SURFACE COLLECTOR
49"X68" MMSD INTERCEPTOR SEWER
DOMUS DOCKWALL (ELEV. 549)
ESTIMATED VERTICAL LOCATION OF UTILITY CROSSING

15'
10'
5'
0
25' 50' 75'
5x VERTICAL EXAGGERATION

NOTES
1. BLANKS IN GEOLOGY ARE BLIND DRILLED, OR NO RECOVERY WAS OBSERVED IN THE SAMPLER.
2. NAPL = NON-AQUEOUS PHASE LIQUID
3. * AND GRAY = ABANDONED WELLS
4. BLUE = EXISTING WELLS

LEGEND

- BORING LOCATION
- WELL SCREEN
- STREET/ASPHALT/CONCRETE
- FILL
- INTERBEDDED MATERIALS (gravel, silt, silty sand, silty clay)
- SAND
- PEAT
- CLAY
- DOCK WALL
- NAPL
- GROUNDWATER ELEVATION
- GROUNDWATER FLOW DIRECTION
- UTILITY CORRIDOR OR UTILITY CROSSING UNDER RIVER (ESTIMATED)
- THERMALLY TREATED SOIL BACKFILL
- WEPCO ELECTRIC CABLE CROSSING
- ES EXCEEDANCE
- PAL EXCEEDANCE

CROSS SECTION C-C'

FORMER THIRD WARD MGP
SITEWIDE SI ADDENDUM
MILWAUKEE, WISCONSIN 53202

FIGURE 8C

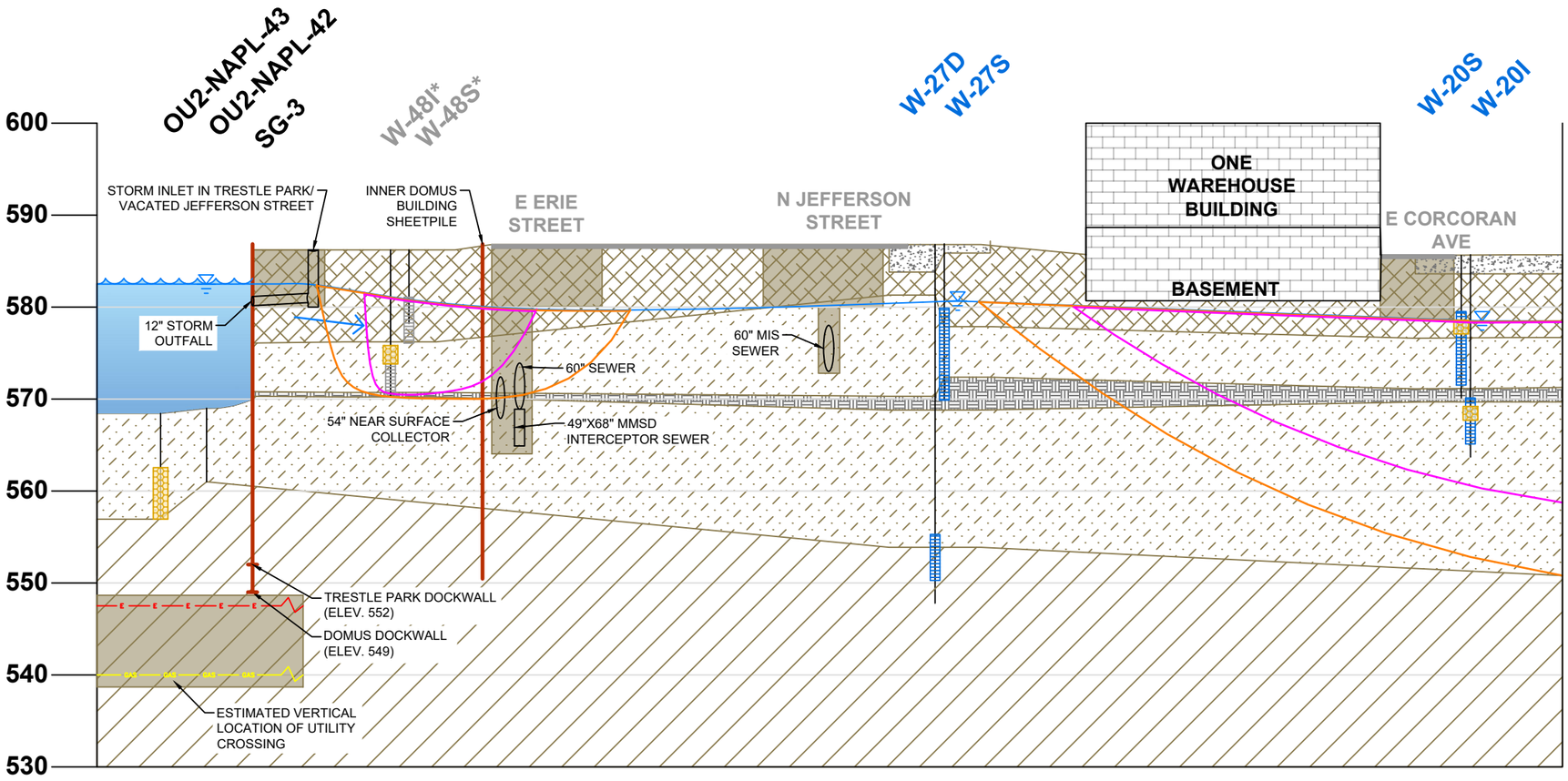
RAMBOLL US CORPORATION
A RAMBOLL COMPANY

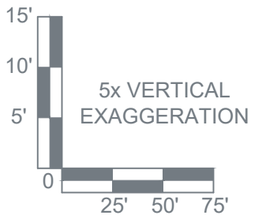
RAMBOLL

NORTH

D

D'





NOTES
1. NAPL = NON-AQUEOUS PHASE LIQUID
2. * AND GRAY = ABANDONED WELLS
4. BLUE = EXISTING WELLS

LEGEND

- BORING LOCATION
- WELL SCREEN
- STREET/ASPHALT/CONCRETE
- FILL
- INTERBEDDED MATERIALS (gravel, silt, silty sand, silty clay)
- PEAT
- CLAY
- DOCK WALL
- NAPL
- GROUNDWATER ELEVATION
- GROUNDWATER FLOW DIRECTION
- UTILITY CORRIDOR OR UTILITY CROSSING UNDER RIVER (ESTIMATED)
- GAS TUNNEL
- WEPCO ELECTRIC CABLE CROSSING
- ES EXCEEDANCE
- PAL EXCEEDANCE

CROSS SECTION D-D'

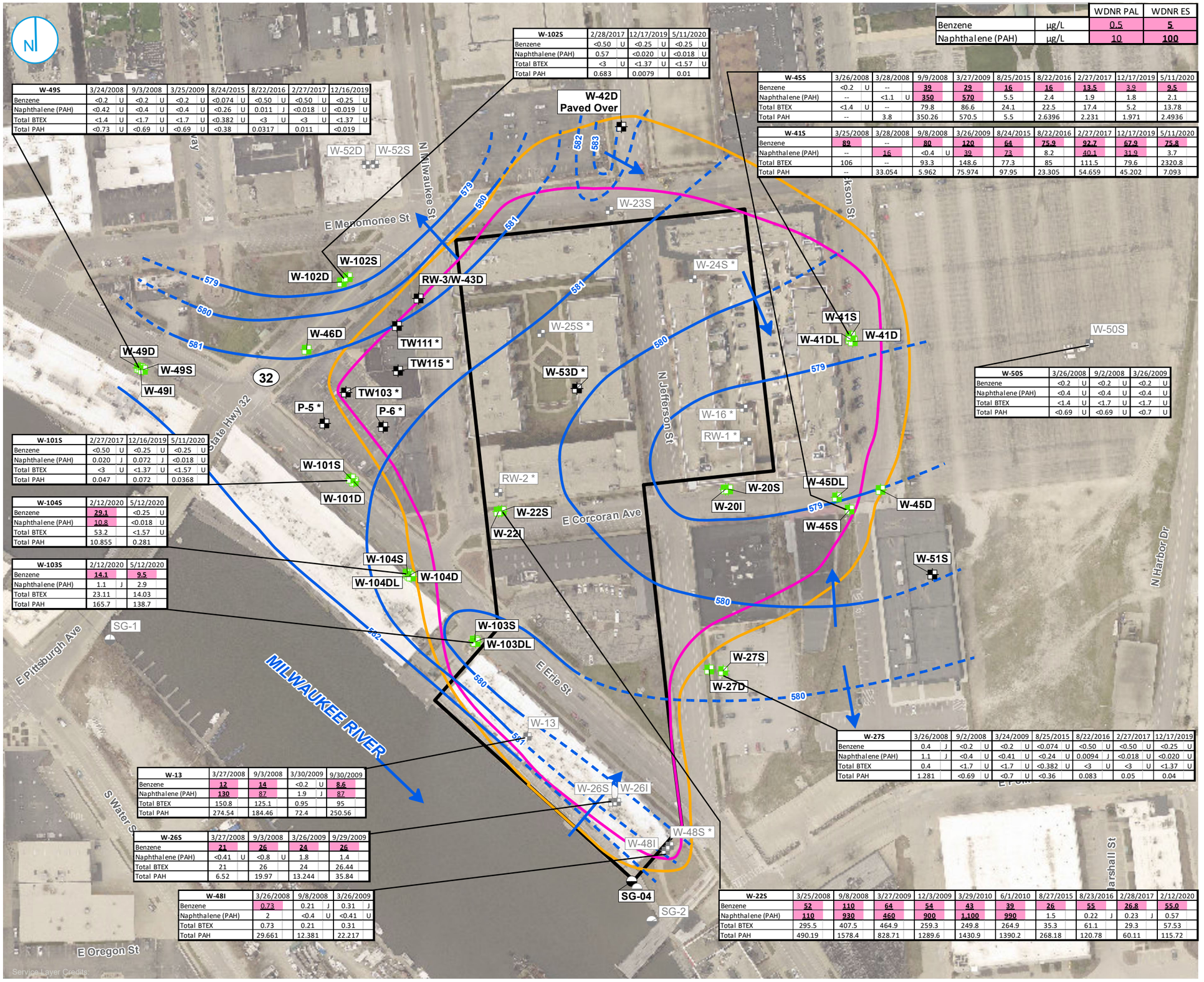
FORMER THIRD WARD MGP
SITEWIDE SI ADDENDUM
MILWAUKEE, WISCONSIN 53202

FIGURE 8D

RAMBOLL US CORPORATION
A RAMBOLL COMPANY

RAMBOLL

Y:\Mapping\Projects\231235\7\MXD\SI_AddendumFigure 9a_GW Analytical Results Upper Shallow.mxd



		WDNR PAL	WDNR ES
Benzene	µg/L	0.5	5
Naphthalene (PAH)	µg/L	10	100

W-49S	3/24/2008		9/3/2008		3/25/2009		8/24/2015		8/22/2016		2/27/2017		12/16/2019	
Benzene	<0.2	U	<0.2	U	<0.2	U	<0.074	U	<0.50	U	<0.50	U	<0.25	U
Naphthalene (PAH)	<0.42	U	<0.4	U	<0.4	U	<0.26	U	0.011	J	<0.018	U	<0.019	U
Total BTEX	<1.4	U	<1.7	U	<1.7	U	<0.382	U	<3	U	<3	U	<1.37	U
Total PAH	<0.73	U	<0.69	U	<0.69	U	<0.38		0.0317		0.011		<0.019	

W-102S	2/28/2017		12/17/2019		5/11/2020	
Benzene	<0.50	U	<0.25	U	<0.25	U
Naphthalene (PAH)	0.57		<0.020	U	<0.018	U
Total BTEX	<3	U	<1.37	U	<1.57	U
Total PAH	0.683		0.0079		0.01	

W-45S	3/26/2008		3/28/2008		9/9/2008	3/27/2009	8/25/2015	8/22/2016	2/27/2017	12/17/2019	5/11/2020
Benzene	<0.2	U	--		39	29	16	16	13.5	3.9	9.5
Naphthalene (PAH)	--		<1.1	U	350	570	5.5	2.4	1.9	1.8	2.1
Total BTEX	<1.4	U	--		79.8	86.6	24.1	22.5	17.4	5.2	13.78
Total PAH	--		3.8		350.26	570.5	5.5	2.6396	2.231	1.971	2.4936

W-41S	3/25/2008	3/28/2008	9/8/2008	3/26/2009	8/24/2015	8/22/2016	2/27/2017	12/17/2019	5/11/2020
Benzene	89	--	80	120	64	75.9	92.7	67.9	75.8
Naphthalene (PAH)	--	16	<0.4 U	39	73	8.2	40.1	31.9	3.7
Total BTEX	106	--	93.3	148.6	77.3	85	111.5	79.6	2320.8
Total PAH	--	33.054	5.962	75.974	97.95	23.305	54.659	45.202	7.093

W-50S	3/26/2008		9/2/2008		3/26/2009	
Benzene	<0.2	U	<0.2	U	<0.2	U
Naphthalene (PAH)	<0.4	U	<0.4	U	<0.4	U
Total BTEX	<1.4	U	<1.7	U	<1.7	U
Total PAH	<0.69	U	<0.69	U	<0.7	U

W-101S	2/27/2017		12/16/2019		5/11/2020	
Benzene	<0.50	U	<0.25	U	<0.25	U
Naphthalene (PAH)	0.020	J	0.072	J	<0.018	U
Total BTEX	<3	U	<1.37	U	<1.57	U
Total PAH	0.047		0.072		0.0368	

W-104S	2/12/2020		5/12/2020	
Benzene	29.1		<0.25	U
Naphthalene (PAH)	10.8		<0.018	U
Total BTEX	53.2		<1.57	U
Total PAH	10.855		0.281	

W-103S	2/12/2020		5/12/2020
Benzene	14.1		9.5
Naphthalene (PAH)	1.1	J	2.9
Total BTEX	23.11		14.03
Total PAH	165.7		138.7

W-27S	3/26/2008		9/2/2008		3/24/2009		8/25/2015		8/22/2016		2/27/2017		12/17/2019	
Benzene	0.4	J	<0.2	U	<0.2	U	<0.074	U	<0.50	U	<0.50	U	<0.25	U
Naphthalene (PAH)	1.1	J	<0.4	U	<0.41	U	<0.24	U	0.0094	J	<0.018	U	<0.020	U
Total BTEX	0.4		<1.7	U	<1.7	U	<0.382	U	<3	U	<3	U	<1.37	U
Total PAH	1.281		<0.69	U	<0.7	U	<0.36		0.083		0.05		0.04	

W-13	3/27/2008		9/3/2008		3/30/2009		9/30/2009	
Benzene	12		14		<0.2	U	8.6	
Naphthalene (PAH)	130		87		1.9	J	87	
Total BTEX	150.8		125.1		0.95		95	
Total PAH	274.54		184.46		72.4		250.56	

W-26S	3/27/2008		9/3/2008		3/26/2009	9/29/2009
Benzene	21		26		24	26
Naphthalene (PAH)	<0.41	U	<0.8	U	1.8	1.4
Total BTEX	21		26		24	26.44
Total PAH	6.52		19.97		13.244	35.84

W-48I	3/26/2008		9/8/2008		3/26/2009	
Benzene	0.73		0.21	J	0.31	J
Naphthalene (PAH)	2		<0.4	U	<0.41	U
Total BTEX	0.73		0.21		0.31	
Total PAH	29.661		12.381		22.217	

W-22S	3/25/2008	9/8/2008	3/27/2009	12/3/2009	3/29/2010	6/1/2010	8/27/2015	8/23/2016	2/28/2017	2/12/2020
Benzene	52	110	64	54	43	39	26	55	26.8	55.0
Naphthalene (PAH)	110	930	460	900	1,100	990	1.5	0.22 J	0.23 J	0.57
Total BTEX	295.5	407.5	464.9	259.3	249.8	264.9	35.3	61.1	29.3	57.53
Total PAH	490.19	1578.4	828.71	1289.6	1430.9	1390.2	268.18	120.78	60.11	115.72

- FORMER THIRD WARD MGP SITE BOUNDARY
- WELL IN MONITORING PROGRAM
- WELL NOT IN MONITORING PROGRAM
- STAFF GAUGE
- ABANDONED MONITORING WELL
- ABANDONED STAFF GAUGE
- GROUNDWATER ELEVATION CONTOUR
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- ESTIMATED EXTENT OF THE UPPER SHALLOW UNIT GROUNDWATER CONTAMINATION THAT EXCEEDS THE NR140 ES
- ESTIMATED EXTENT OF THE UPPER SHALLOW UNIT GROUNDWATER CONTAMINATION THAT EXCEEDS THE NR140 PAL

Notes:

* - MONITORING WELLS WITHOUT ANALYTICAL DATA

0 75 150 Feet

GROUNDWATER ANALYTICAL RESULTS (2008 – 2020) – UPPER SHALLOW UNIT

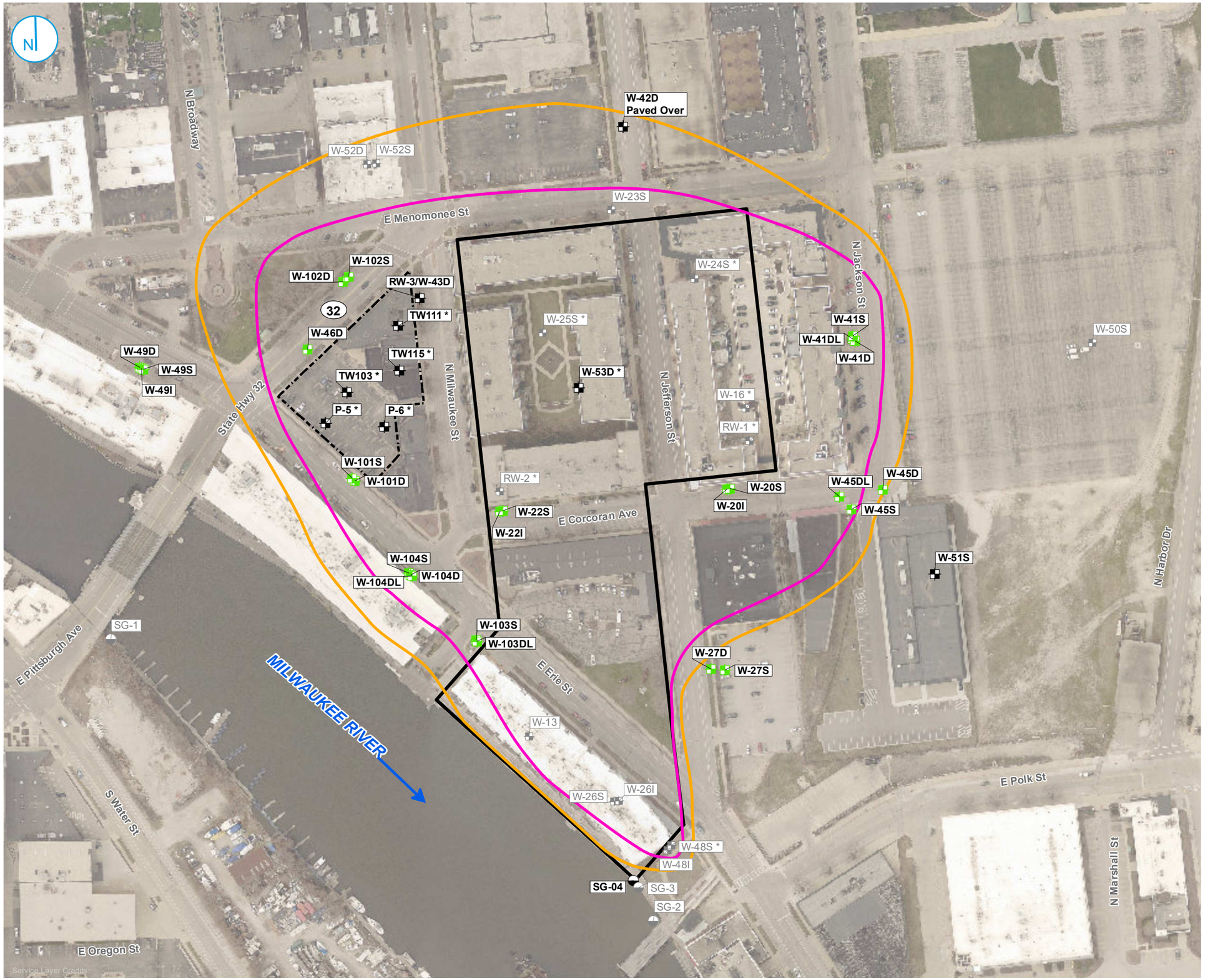
FORMER THIRD WARD MGP
MILWAUKEE, WISCONSIN

FIGURE 9A

RAMBOLL US CORPORATION
A RAMBOLL COMPANY

RAMBOLL

PROJECT: 169000XXXX | DATED: 4/30/2021 | DESIGNER: STOLZSD



FORMER THIRD WARD MGP SITE BOUNDARY

ONE CATALANO SQUARE PROPERTY

WELL IN MONITORING PROGRAM

WELL NOT IN MONITORING PROGRAM

STAFF GAUGE

ABANDONED MONITORING WELL

ABANDONED STAFF GAUGE

ESTIMATED EXTENT OF GROUNDWATER CONTAMINATION THAT EXCEEDS THE NR140 ES

ESTIMATED EXTENT OF GROUNDWATER CONTAMINATION THAT EXCEEDS THE NR140 PAL

Notes:

* - MONITORING WELLS WITHOUT ANALYTICAL DATA

ES AND PAL EXTENTS REPRESENT ALL CONTAMINANTS AND BOTH UPPER AND LOWER SHALLOW UNITS

0 62.5 125 Feet

2020 ES AND PAL EXCEEDANCE BOUNDARY

FORMER THIRD WARD MGP
MILWAUKEE, WISCONSIN

FIGURE 10

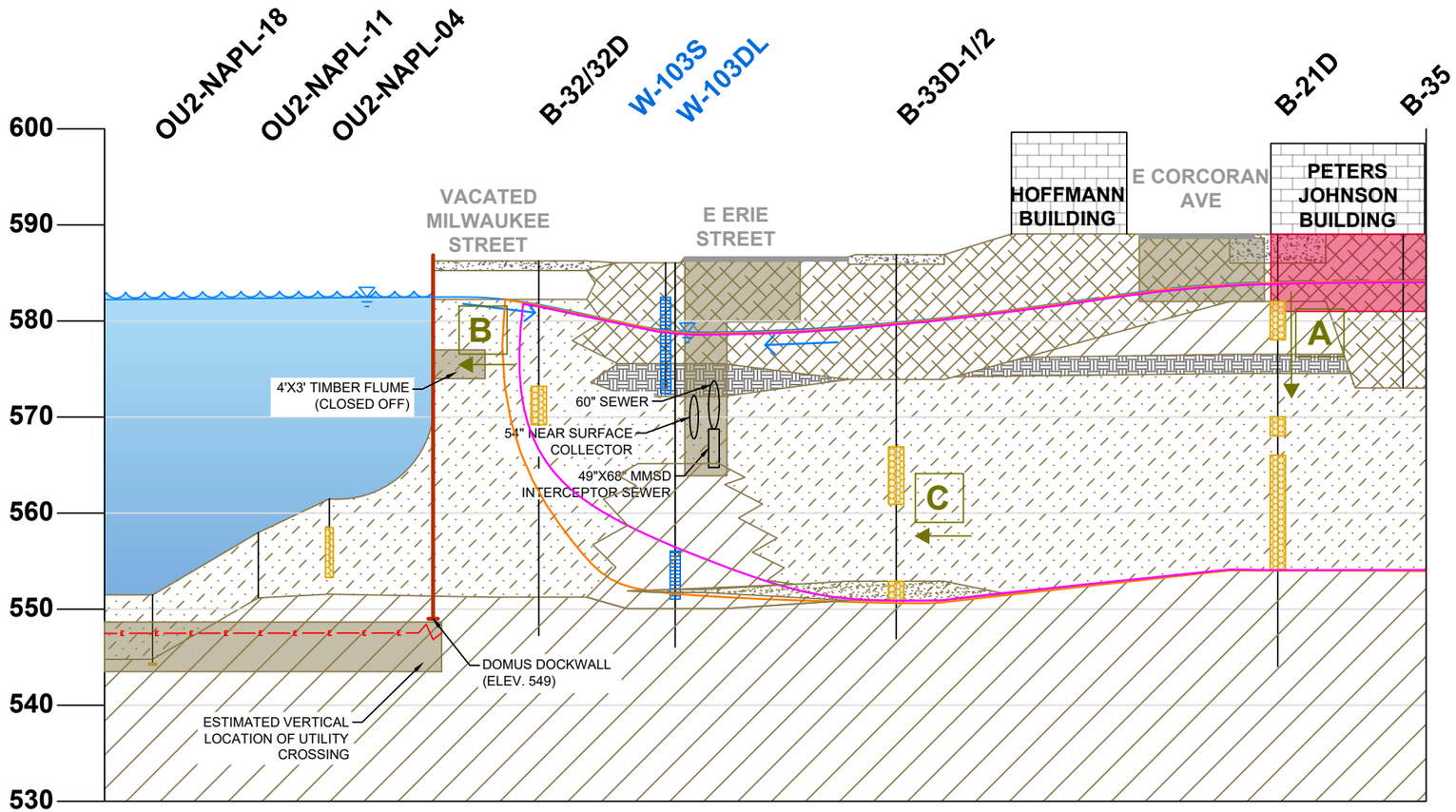
RAMBOLL US CORPORATION
A RAMBOLL COMPANY

RAMBOLL

Y:\Mapping\Projects\2302357\MXD\SI_Addendum\Figure 10_2020 ES and PAL Exceedance Boundary.mxd

PROJECT: 169000XXXX | DATED: 10/27/2020 | DESIGNER: galarnmc

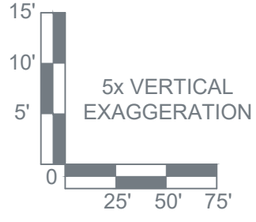
NORTH



COPIED FROM CROSS SECTION C-C'

NOTES

1. BLANKS IN GEOLOGY ARE BLIND DRILLED, OR NO RECOVERY WAS OBSERVED IN THE SAMPLER.
2. NAPL = NON-AQUEOUS PHASE LIQUID
3. * AND GRAY = ABANDONED WELLS
4. BLUE = EXISTING WELLS



A VERTICAL NAPL MIGRATION - **LIKELY HISTORICAL** VERTICAL MIGRATION PATHWAY FOR NAPL FROM MGP TO DEEPER SOILS AS NAPL OBSERVATIONS ARE LOCATED BELOW FORMER MGP OPERATIONS. **CURRENT PATHWAY UNLIKELY** AND ADDRESSED THROUGH REMEDIATION AND REDEVELOPMENT (SOIL TREATMENT AND INFILTRATION CAPS).

B DIRECT DISCHARGE OF NAPL FROM SHALLOW OUTFALLS TO RIVER - **LIKELY HISTORICAL** MIGRATION OF NAPL FROM MGP TO RIVER VIA DIRECT DISCHARGE THROUGH OUTFALLS AND OTHER UTILITIES. **CURRENT PATHWAY UNLIKELY** AND ADDRESSED THROUGH REDEVELOPMENT INCLUDING INSTALLATION OF SHEET PILE DOCK WALLS, UTILITY MODIFICATIONS AND CLOSURES.

C HORIZONTAL BULK ADVECTION THROUGH SOIL - **LIKELY HISTORICAL** SECONDARY HORIZONTAL MIGRATION PATHWAY AS ADVECTION THROUGH PERMEABLE SOIL LAYERS. NAPL OBSERVATIONS APPEAR IN INTER-BEDDED SANDY LENSES AT DEPTH BELOW CLEAN INTERVALS. **HISTORICAL AND CURRENT BULK ADVECTION TO RIVER IS UNLIKELY** AS NAPL IS DISCONTINUOUS BETWEEN UPLAND SITE AND RIVER INDICATING NAPL DID NOT MOVE THROUGH THE BULK SOILS INTO THE RIVER EXCEPT POTENTIALLY IN A LIMITED AREA (SEE CROSS SECTION B-B'). MOBILITY TESTING AND INVESTIGATION OBSERVATIONS OVER 30-YR LIFE OF PROJECT INDICATES NAPL IS STABLE. CURRENTLY, DOCK WALLS IN GOOD CONDITION PROVIDE SUPPLEMENTAL BARRIERS LIMITING LATERAL MIGRATION.

LEGEND

- BORING LOCATION
- WELL SCREEN
- STREET/ASPHALT/CONCRETE
- FILL
- INTERBEDDED MATERIALS (gravel, silt, silty sand, silty clay)
- SAND
- PEAT
- CLAY
- DOCK WALL
- NAPL
- GROUNDWATER ELEVATION
- GROUNDWATER FLOW DIRECTION
- UTILITY CORRIDOR OR UTILITY CROSSING UNDER RIVER (ESTIMATED)
- THERMALLY TREATED SOIL BACKFILL
- WEPCO ELECTRIC CABLE CROSSING
- ES EXCEEDANCE
- PAL EXCEEDANCE
- HISTORIC NAPL MIGRATION PATHWAY

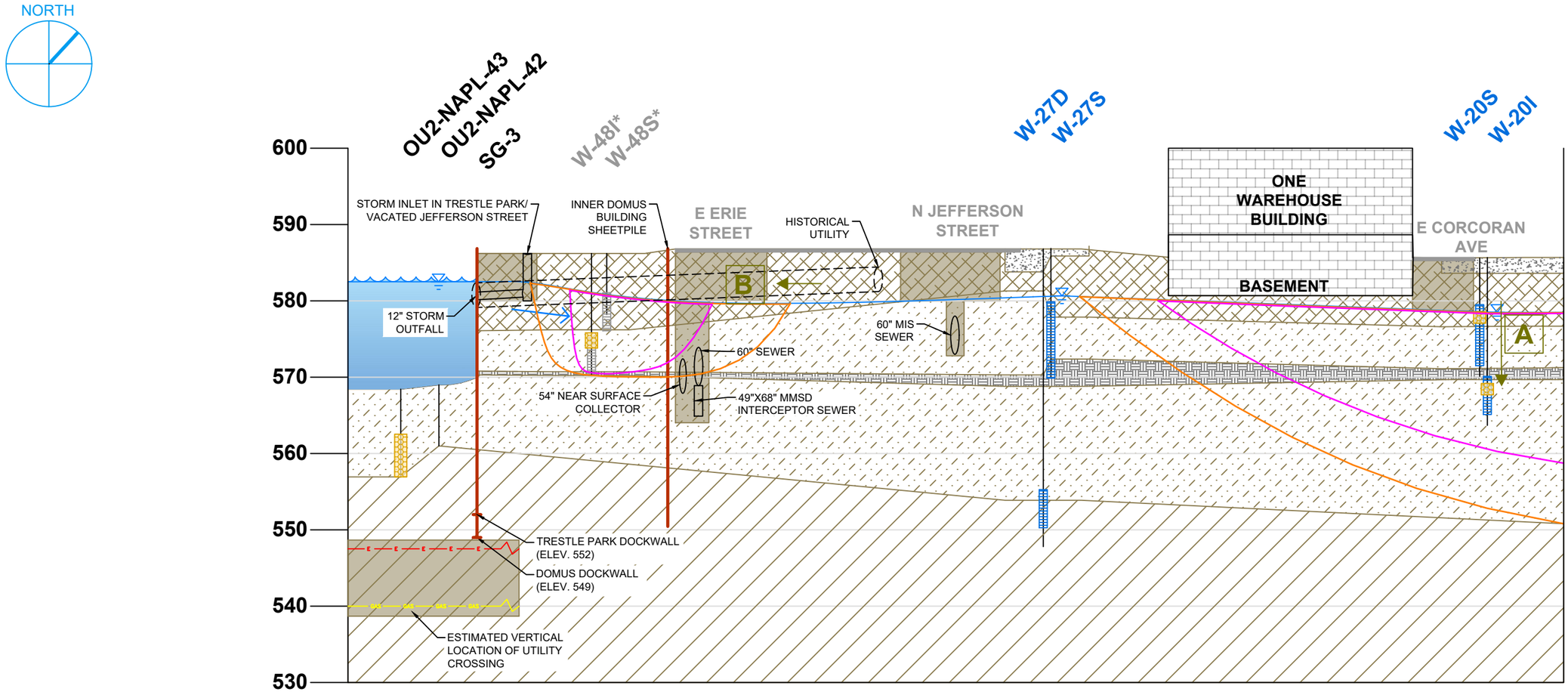
CONCEPTUAL SITE MODEL (N. MILWAUKEE STREET)

FORMER THIRD WARD MGP
SITEWIDE SI ADDENDUM
MILWAUKEE, WISCONSIN 53202

FIGURE 11A

RAMBOLL US CORPORATION
A RAMBOLL COMPANY

RAMBOLL



COPIED FROM CROSS SECTION D-D'

15'
10'
5'
0
5x VERTICAL EXAGGERATION
25' 50' 75'

NOTES

1. BLANKS IN GEOLOGY ARE BLIND DRILLED, OR NO RECOVERY WAS OBSERVED IN THE SAMPLER.
2. NAPL = NON-AQUEOUS PHASE LIQUID
3. * AND GRAY = ABANDONED WELLS
4. BLUE = EXISTING WELLS

A VERTICAL NAPL MIGRATION - **LIKELY HISTORICAL** VERTICAL MIGRATION PATHWAY FOR NAPL FROM MGP TO DEEPER SOILS AS NAPL OBSERVATIONS ARE LOCATED BELOW FORMER MGP OPERATIONS. **CURRENT PATHWAY UNLIKELY** AND ADDRESSED THROUGH REMEDIATION AND REDEVELOPMENT (SOIL TREATMENT AND INFILTRATION CAPS).

B DIRECT DISCHARGE OF NAPL FROM SHALLOW OUTFALLS TO RIVER - **LIKELY HISTORICAL** MIGRATION OF NAPL FROM MGP TO RIVER VIA DIRECT DISCHARGE THROUGH OUTFALLS AND OTHER UTILITIES. **CURRENT PATHWAY UNLIKELY** AND ADDRESSED THROUGH REDEVELOPMENT INCLUDING INSTALLATION OF SHEET PILE DOCK WALLS, UTILITY MODIFICATIONS AND CLOSURES.

LEGEND

- BORING LOCATION
- WELL SCREEN
- STREET/ASPHALT/CONCRETE
- FILL
- INTERBEDDED MATERIALS (gravel, silt, silty sand, silty clay)
- PEAT
- CLAY
- DOCK WALL
- NAPL
- GROUNDWATER ELEVATION
- GROUNDWATER FLOW DIRECTION
- UTILITY CORRIDOR OR UTILITY CROSSING UNDER RIVER (ESTIMATED)
- GAS TUNNEL
- WEPCO ELECTRIC CABLE CROSSING
- ES EXCEEDANCE
- PAL EXCEEDANCE
- HISTORIC NAPL MIGRATION PATHWAY

CONCEPTUAL SITE MODEL (N. JEFFERSON STREET)

FORMER THIRD WARD MGP
SITEWIDE SI ADDENDUM
MILWAUKEE, WISCONSIN 53202

FIGURE 11B

RAMBOLL US CORPORATION
A RAMBOLL COMPANY

RAMBOLL

ATTACHMENT A
W-42D AND W-42D-1 BORING LOGS

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-92

Page 1 of 2

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Wisconsin Gas Company - Third Ward		W-42D-1

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started (MM/DD/YY)	Date Drilling Completed (MM/DD/YY)	Drilling Method
NTD Environmental Drilling - Rick O'Gorman	09/24/92	09/25/92	HSA

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	8 inches

Boring Location
State Plane _____ N, _____ E S/C/N
SW 1/4 of SW 1/4 of Section 28, T 7 N, R 22 (E/W)
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
N/A Feet ☒ N ☐ S N/A Feet ☒ E ☐ W

County: Milwaukee
DNR County Code: 41
Civil Town/City/ or Village: Milwaukee

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
WGW-42D-1 (0-2) [SS]	24/20	4/3 3/3	1	SANDY SILT - dark brown (10YR 3/3), loose, dry [Fill]	SM			0 0						[SS] = 3 in. diameter split spoon
WGW-42D-1 (2-4) [SS]	24/14	5/6 6/6	2 3	SANDY SILT - trace coke and ash, strong brown (7.5YR 4/6), moist [Fill]	SM			0 0						
WGW-42D-1 (4-6) [SS]	24/16	2/2 3/3	4 5	GRAVELLY SAND - brown (10YR 5/3) loose, moist [Fill]	SP			0 0						
WGW-42D-1 (6-8) [SS]	24/20	2/3 3/3	6 7	As above, change to yellowish brown (10YR 5/4), wet [Fill]	SP			0 0						
WGW-42D-1 (8-10) [SS]	24/20	2/2 2/3	8 9	GRAVELLY SAND/SANDY SILT - interlayered, trace shell fragments in sandy silt, very dark gray, (10YR 3/1), wet [Fill]	SM SP SM SP			0 0 0						
WGW-42D-1 (10-12) [SS]	24/17	2/4 7/11	10 11 12	SANDY SILT/SILTY CLAY - trace wood, trace shell fragments in sandy silt, grayish brown (10YR 5/2), silty clay has high plasticity, wet [Fill]	SM CH SM			0 0						

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

Signature: [signature] Firm: Remediation Technologies, Inc.

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

Page 1 of 1

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
WGW-42D-1 (12-14) [SS]	24 / 20	4|7 / 7|5	12	CLAY - grayish brown (10YR 5/2), high plasticity, wet, change to	CH			0						
				SANDY GRAVEL - trace wood trace mica, light gray (10YR 7/1) wet [FILL	GP			0						
WGW-42D-1 (14-16) [SS]	24 / 0	3|2 / 5|6	15	No recovery										
WGW-42D-1 (16-18) [SS]	24 / 12	3|3 / 2|2	16 17	SANDY SILT - many shell fragments, dark olive gray (5Y 3/2), loose, wet	SM			0 0						
WGW-42D-1 (18-20) [SS]	24 / 16	2|2 / 2|3	18 19	As above, grade to SILTY SAND - some shell fragments, olive gray (5Y 5/2), loose, wet	SM			1						
WGW-42D-1 (20-22) [SS]	24 / 24	2|4 / 4|4	20 21	SILTY SAND - some shell fragments, dark gray (5Y 4/1), loose wet	SM			0 0 0 0.8						
WGW-42D-1 (22-24) [SS]	24 / 20	7|6 / 3|3	22 23	As above	SM			1 0.8						
WGW-42D-1 (24-26) [SS]	24 / 24	7|3 / 3|4	24 25	As above - sands begin heaving up auger flights when center-plug is removed	SM									Heaving Sands - boring abandoned
			26	End of boring 26.0 feet										
			27 28 29 30 31 32											

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-92

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Wisconsin Gas Company - Third Ward		W-42D/A

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
WTD Environmental Drilling - Rick O'Gorman	07/30/92	09/30/92	Mud Rotary

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		W-42D	578.72 Feet MSL	587.46 Feet MSL	6 inches

Boring Location
State Plane _____ N, _____ E S/C/N
Lat ___ ° ___ ' ___ "
SW 1/4 of SW 1/4 of Section 28, T 7 N, R 22 E/W
Long ___ ° ___ ' ___ "
Local Grid Location (If applicable)
☒ N 535.22 Feet ☐ S ☒ E 4565.66 Feet ☐ W

County: Milwaukee
DNR County Code: 41
Civil Town/City/or Village: Milwaukee

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	- Blind drill to 10 feet, see log for boring W-42D for near surface lithology										Flush-grade protective casing
			2											
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			10	SILTY CLAY - reddish brown (5YR5/3), medium plasticity, wet, change to	CL									
WGW-42D/A (10-12) [55]	24 / 21.5	4 4 / 6 7	11	SILTY SAND - little gravel, reddish brown (5YR5/3), loose, wet, strong tar-like odor, reddish phase-soft, liquid, change to	SM			320						Peat at 11.2 feet
			12	PEAT - dark reddish brown (5YR2.5/2) soft, moist, moderate tar-like odor	PT			50						

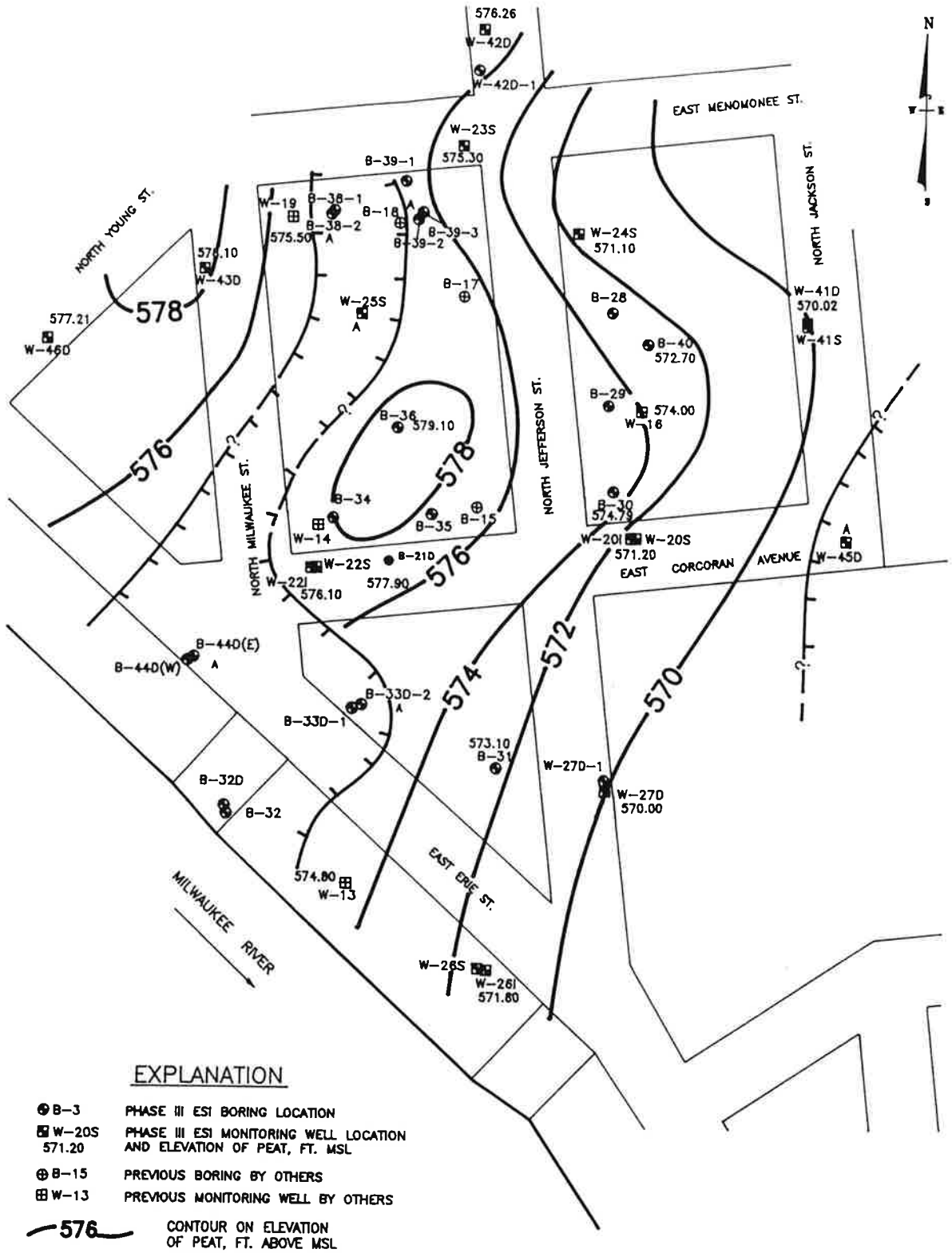
I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature: [signature] Firm: Remediation Technologies, Inc.

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13											Temporary 6" diameter casing installed to 13 ft.
WGW-42D/A (14-16) [SS]	24 / 18	2|2 / 3|3	14	PEAT as above, change to	PT									
			15	SANDY SILT - trace sand, dark olive gray (5Y 3/2), wet, slight naphtha-like odor	ML			3.5						
WGW-42D/A (16-18) [SS]	24 / 16	6|4 / 4|4	16	SANDY SILT as above, change to	ML			3						
			17	SILTY SAND - some shells, olive (5Y 5/3), wet, loose	SM			12						
WGW-42D/A (18-20) [SS]	24 / 17	4|6 / 5|5	18	SILTY SAND as above	SM			10						
			19											
WGW-42D/A (20-22) [SS]	24 / 14.5	4|2 / 2|3	20	As above	SM			3						
			21											
WGW-42D/A (22-24) [SS]	24 / 12	2|2 / 4|5	22	As above, grade to trace shells, dark olive gray (5Y 3/2), slight naphtha-like odor	SM			6						
			23											
WGW-42D/A (24-26) [SS]	24 / 14.5	4|5 / 5|4	24	SILTY SAND - trace shells, dark olive gray (5Y 3/2), loose, wet, slight naphtha-like odor	SM			3						
			25											
WGW-42D/A (26-28) [SS]	24 / 10	6|4 / 4|5	26	As above	SM			5						
			27											
WGW-42D/A (28-30) [SS]	24 / 18	4|4 / 7|7	28	As above, change to CLAY - dark olive gray (5Y 3/3), high plasticity, wet	SM / CH			2						High plastic clay at 29.6 ft
			29											
WGW-42D/A (30-32) [SS]	24 / 18	2|4 / 4|5	30	CLAY - dark olive gray (5Y 3/3), high plasticity, wet	CH			2.3						
			31											
			32											

End of boring 32.0 feet

ATTACHMENT B
PHASE III RETEC FIGURES (3) – ELEVATION OF THE TOP OF THE PEAT BED(S), ELEVATIONS OF WATER LEVELS IN SHALLOW WELLS 11/11/92 AND DIFFERENCE IN WATER LEVEL ELEVATIONS BETWEEN SHALLOW AND DEEP WELLS 11/11/92



EXPLANATION

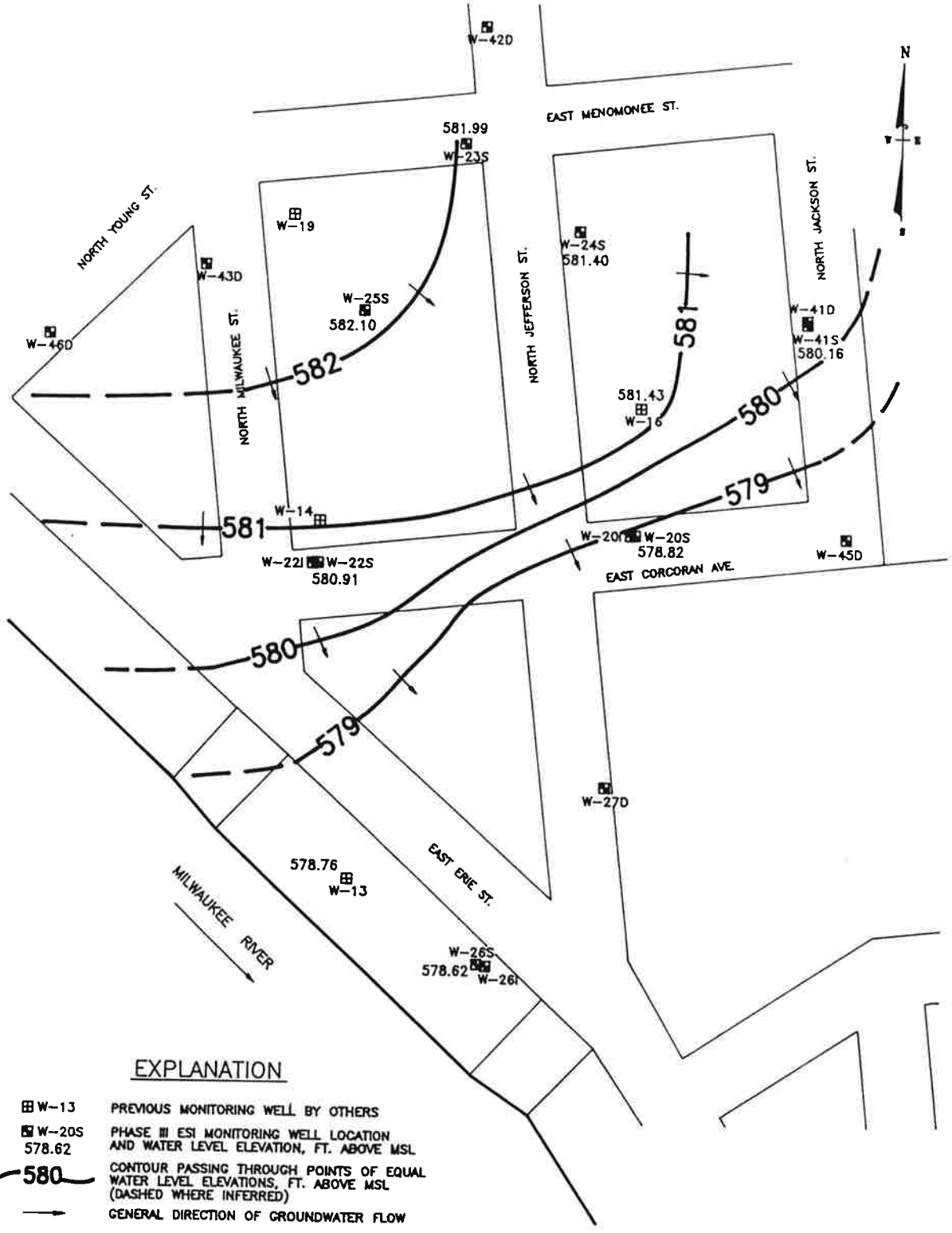
- ⊕ B-3 — PHASE III ESI BORING LOCATION
- ▣ W-20S 571.20 — PHASE III ESI MONITORING WELL LOCATION AND ELEVATION OF PEAT, FT. MSL
- ⊕ B-15 — PREVIOUS BORING BY OTHERS
- ⊞ W-13 — PREVIOUS MONITORING WELL BY OTHERS
- 576 — CONTOUR ON ELEVATION OF PEAT, FT. ABOVE MSL
- PEAT ABSENT

0 87.5 175 262.5 350
SCALE IN FEET

ELEVATION OF THE TOP OF PEAT BED(s) FORMER THIRD WARD MGP SITE MILWAUKEE, WISCONSIN

REMEDIATION TECHNOLOGIES INC

DRAWN BY	DATE	CHECKED BY	DATE	SCALE	DRAWING NUMBER	REV
R.K.K.	2/93			1"=175'	FIGURE 4-6	



EXPLANATION

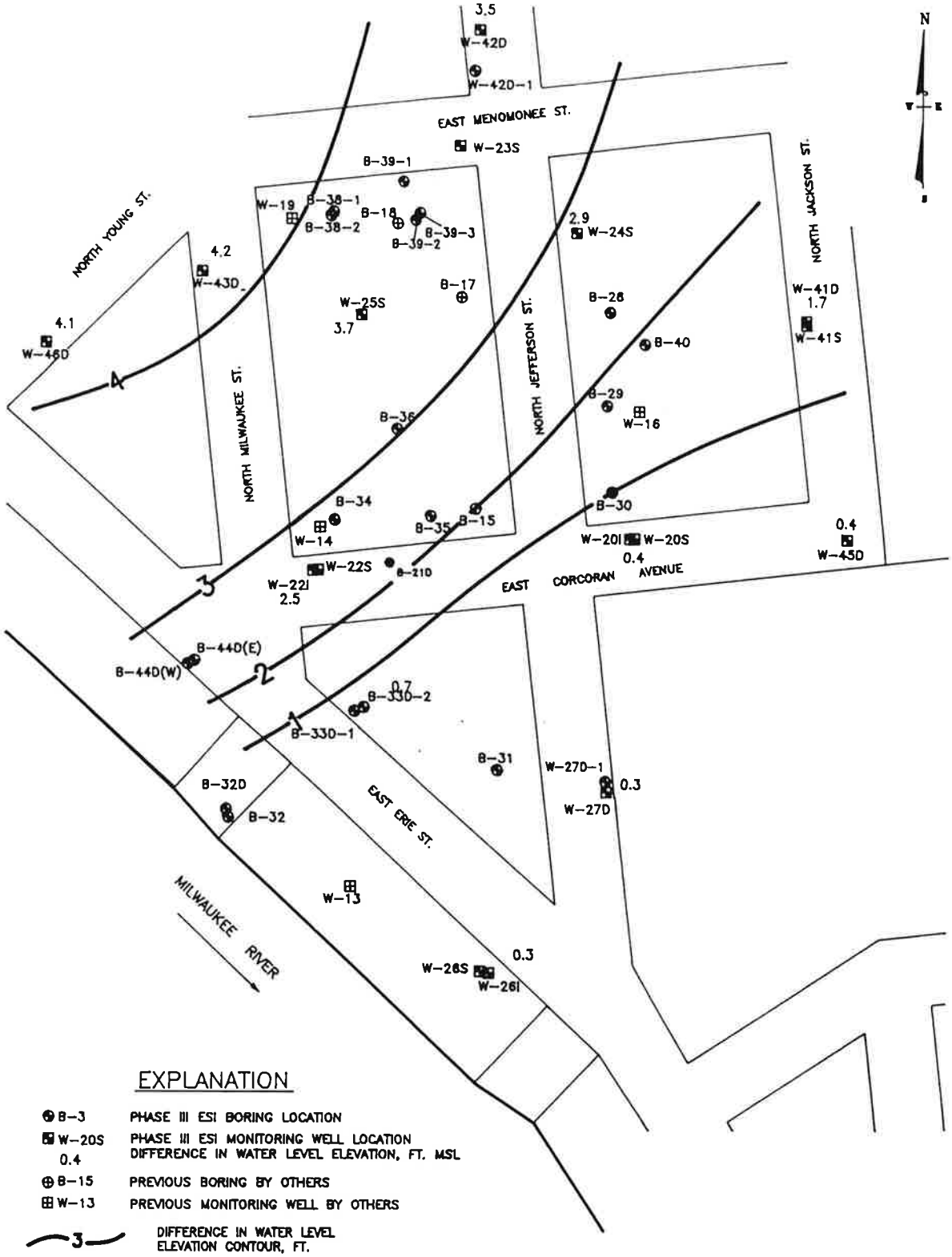
- ⊞ W-13 — PREVIOUS MONITORING WELL BY OTHERS
- ⊠ W-20S 578.62 — PHASE III ESI MONITORING WELL LOCATION AND WATER LEVEL ELEVATION, FT. ABOVE MSL
- 580 — CONTOUR PASSING THROUGH POINTS OF EQUAL WATER LEVEL ELEVATIONS, FT. ABOVE MSL (DASHED WHERE INFERRED)
- → — GENERAL DIRECTION OF GROUNDWATER FLOW

0 87.5 175 262.5 350
SCALE IN FEET

ELEVATIONS OF WATER LEVELS IN SHALLOW WELLS 11/11/92 FORMER THIRD WARD MGP SITE MILWAUKEE, WISCONSIN

REMEDIATION TECHNOLOGIES INC

DRAWN BY	DATE	CHECKED BY	DATE	SCALE	DRAWING NUMBER	REV
R.K.K.	2/93			1"=175'	FIGURE 4-8	



DIFFERENCE IN WATER LEVEL ELEVATIONS BETWEEN SHALLOW AND DEEP WELLS 11/11/92
FORMER THIRD WARD MGP SITE
MILWAUKEE, WISCONSIN

REMEDIATION TECHNOLOGIES INC

DRAWN BY	DATE	CHECKED BY	DATE	SCALE	DRAWING NUMBER	REV
R.K.K.	2/93			1"=175'	FIGURE 4-11	

ATTACHMENT C
GROUNDWATER LABORATORY ANALYTICAL REPORT - DECEMBER 14 & 15, 2020

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

December 23, 2020

Julie Zimdars
Ramboll Americas
234 W. Florida St, 5th Floor
Milwaukee, WI 53204

RE: Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Dear Julie Zimdars:

Enclosed are the analytical results for sample(s) received by the laboratory on December 17, 2020. 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,

Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Alex Bartelme, Ramboll
NRT Data, OBG

Pace Analytical Services, LLC
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CERTIFICATIONS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

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

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

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40219990001	**W-41D**	Water	12/14/20 09:34	12/17/20 08:45
40219990002	**W-41DL**	Water	12/14/20 10:06	12/17/20 08:45
40219990003	**W-41S**	Water	12/14/20 10:45	12/17/20 08:45
40219990004	**W-101S**	Water	12/14/20 11:35	12/17/20 08:45
40219990005	**W-101D**	Water	12/14/20 12:11	12/17/20 08:45
40219990006	**DUP-01**	Water	12/14/20 12:16	12/17/20 08:45
40219990007	**W-45DL**	Water	12/14/20 14:25	12/17/20 08:45
40219990008	**W-45S**	Water	12/14/20 14:53	12/17/20 08:45
40219990009	**W-45D**	Water	12/14/20 15:29	12/17/20 08:45
40219990010	**EB-01**	Water	12/14/20 16:00	12/17/20 08:45
40219990011	**W-102S**	Water	12/15/20 09:15	12/17/20 08:45
40219990012	**W-102D**	Water	12/15/20 09:39	12/17/20 08:45
40219990013	**W-46D**	Water	12/15/20 10:20	12/17/20 08:45
40219990014	**W-103S**	Water	12/15/20 11:36	12/17/20 08:45
40219990015	**W-103DL**	Water	12/15/20 12:17	12/17/20 08:45
40219990016	**DUP-02**	Water	12/15/20 12:22	12/17/20 08:45
40219990017	**W-104S**	Water	12/15/20 13:01	12/17/20 08:45
40219990018	**W-104DL**	Water	12/15/20 13:32	12/17/20 08:45
40219990019	**EB-02**	Water	12/15/20 15:00	12/17/20 08:45
40219990020	**TB-01**	Water	12/15/20 00:00	12/17/20 08:45

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SAMPLE ANALYTE COUNT

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40219990001	W-41D	EPA 8270 by HVI	JJB	20
		EPA 8260	LAP	64
40219990002	W-41DL	EPA 8270 by HVI	JJB	20
		EPA 8260	LAP	64
40219990003	W-41S	EPA 8270 by HVI	JJB	20
		EPA 8260	LAP	64
40219990004	W-101S	EPA 8270 by HVI	JJB	20
		EPA 8260	LAP	64
40219990005	W-101D	EPA 8270 by HVI	JJB	20
		EPA 8260	LAP	64
40219990006	DUP-01	EPA 8270 by HVI	JJB	20
		EPA 8260	LAP	64
40219990007	W-45DL	EPA 8270 by HVI	JJB	20
		EPA 8260	LAP	64
40219990008	W-45S	EPA 8270 by HVI	JJB	20
		EPA 8260	LAP	64
40219990009	W-45D	EPA 8270 by HVI	JJB	20
		EPA 8260	LAP	64
40219990010	EB-01	EPA 8270 by HVI	JJB	20
		EPA 8260	LAP	64
40219990011	W-102S	EPA 8270 by HVI	JJB	20
		EPA 8260	LAP	64
40219990012	W-102D	EPA 8270 by HVI	JJB	20
		EPA 8260	LAP	64
40219990013	W-46D	EPA 8270 by HVI	JJB	20
		EPA 8260	LAP	64
40219990014	W-103S	EPA 8270 by HVI	JJB	20
		EPA 8260	LAP	64
40219990015	W-103DL	EPA 8270 by HVI	JJB	20
		EPA 8260	LAP	64
40219990016	DUP-02	EPA 8270 by HVI	JJB	20
		EPA 8260	LAP	64
40219990017	W-104S	EPA 8270 by HVI	JJB	20
		EPA 8260	LAP	64
40219990018	W-104DL	EPA 8270 by HVI	JJB	20
		EPA 8260	LAP	64
40219990019	EB-02	EPA 8270 by HVI	JJB	20

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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SAMPLE ANALYTE COUNT

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8260	LAP	64
40219990020	**TB-01**	EPA 8260	LAP	64

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: W-41D **Lab ID: 40219990001** Collected: 12/14/20 09:34 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Acenaphthene	**<0.0063**	ug/L	0.032	0.0063	1	12/18/20 07:29	12/18/20 16:07	83-32-9	
Acenaphthylene	**<0.0052**	ug/L	0.026	0.0052	1	12/18/20 07:29	12/18/20 16:07	208-96-8	
Anthracene	**<0.011**	ug/L	0.054	0.011	1	12/18/20 07:29	12/18/20 16:07	120-12-7	
Benzo(a)anthracene	**<0.0079**	ug/L	0.039	0.0079	1	12/18/20 07:29	12/18/20 16:07	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.055	0.011	1	12/18/20 07:29	12/18/20 16:07	50-32-8	
Benzo(b)fluoranthene	**<0.0060**	ug/L	0.030	0.0060	1	12/18/20 07:29	12/18/20 16:07	205-99-2	
Benzo(g,h,i)perylene	**<0.0071**	ug/L	0.035	0.0071	1	12/18/20 07:29	12/18/20 16:07	191-24-2	
Benzo(k)fluoranthene	**<0.0079**	ug/L	0.039	0.0079	1	12/18/20 07:29	12/18/20 16:07	207-08-9	
Chrysene	**<0.014**	ug/L	0.068	0.014	1	12/18/20 07:29	12/18/20 16:07	218-01-9	
Dibenz(a,h)anthracene	**<0.010**	ug/L	0.052	0.010	1	12/18/20 07:29	12/18/20 16:07	53-70-3	
Fluoranthene	**<0.011**	ug/L	0.056	0.011	1	12/18/20 07:29	12/18/20 16:07	206-44-0	
Fluorene	**<0.0083**	ug/L	0.042	0.0083	1	12/18/20 07:29	12/18/20 16:07	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.018**	ug/L	0.092	0.018	1	12/18/20 07:29	12/18/20 16:07	193-39-5	
1-Methylnaphthalene	**<0.0061**	ug/L	0.031	0.0061	1	12/18/20 07:29	12/18/20 16:07	90-12-0	
2-Methylnaphthalene	**<0.0051**	ug/L	0.026	0.0051	1	12/18/20 07:29	12/18/20 16:07	91-57-6	
Naphthalene	**<0.019**	ug/L	0.095	0.019	1	12/18/20 07:29	12/18/20 16:07	91-20-3	
Phenanthrene	**<0.014**	ug/L	0.072	0.014	1	12/18/20 07:29	12/18/20 16:07	85-01-8	
Pyrene	**<0.0080**	ug/L	0.040	0.0080	1	12/18/20 07:29	12/18/20 16:07	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	51	%	39-120		1	12/18/20 07:29	12/18/20 16:07	321-60-8	
Terphenyl-d14 (S)	84	%	10-159		1	12/18/20 07:29	12/18/20 16:07	1718-51-0	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		12/21/20 12:00	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		12/21/20 12:00	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 12:00	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		12/21/20 12:00	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		12/21/20 12:00	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		12/21/20 12:00	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		12/21/20 12:00	563-58-6	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		12/21/20 12:00	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		12/21/20 12:00	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		12/21/20 12:00	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		12/21/20 12:00	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		12/21/20 12:00	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		12/21/20 12:00	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 12:00	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 12:00	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 12:00	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		12/21/20 12:00	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		12/21/20 12:00	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		12/21/20 12:00	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		12/21/20 12:00	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		12/21/20 12:00	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: W-41D **Lab ID: 40219990001** Collected: 12/14/20 09:34 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		12/21/20 12:00	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		12/21/20 12:00	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		12/21/20 12:00	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		12/21/20 12:00	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		12/21/20 12:00	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		12/21/20 12:00	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		12/21/20 12:00	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		12/21/20 12:00	74-83-9	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		12/21/20 12:00	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 12:00	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		12/21/20 12:00	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		12/21/20 12:00	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		12/21/20 12:00	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		12/21/20 12:00	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		12/21/20 12:00	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		12/21/20 12:00	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		12/21/20 12:00	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		12/21/20 12:00	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		12/21/20 12:00	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		12/21/20 12:00	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		12/21/20 12:00	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		12/21/20 12:00	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		12/21/20 12:00	91-20-3	
Styrene	**<3.0**	ug/L	10.0	3.0	1		12/21/20 12:00	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		12/21/20 12:00	127-18-4	
Toluene	**<0.27**	ug/L	1.0	0.27	1		12/21/20 12:00	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/21/20 12:00	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		12/21/20 12:00	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		12/21/20 12:00	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		12/21/20 12:00	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		12/21/20 12:00	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		12/21/20 12:00	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 12:00	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		12/21/20 12:00	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		12/21/20 12:00	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		12/21/20 12:00	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		12/21/20 12:00	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		12/21/20 12:00	98-06-6	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		12/21/20 12:00	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		12/21/20 12:00	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		12/21/20 12:00	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		12/21/20 12:00	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		12/21/20 12:00	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: W-41DL **Lab ID: 40219990002** Collected: 12/14/20 10:06 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Acenaphthene	**<0.0060**	ug/L	0.030	0.0060	1	12/18/20 07:29	12/18/20 16:26	83-32-9	
Acenaphthylene	**<0.0049**	ug/L	0.025	0.0049	1	12/18/20 07:29	12/18/20 16:26	208-96-8	
Anthracene	**<0.010**	ug/L	0.052	0.010	1	12/18/20 07:29	12/18/20 16:26	120-12-7	
Benzo(a)anthracene	**0.21**	ug/L	0.037	0.0075	1	12/18/20 07:29	12/18/20 16:26	56-55-3	
Benzo(a)pyrene	**0.034J**	ug/L	0.052	0.010	1	12/18/20 07:29	12/18/20 16:26	50-32-8	
Benzo(b)fluoranthene	**0.14**	ug/L	0.028	0.0057	1	12/18/20 07:29	12/18/20 16:26	205-99-2	
Benzo(g,h,i)perylene	**0.083**	ug/L	0.034	0.0067	1	12/18/20 07:29	12/18/20 16:26	191-24-2	
Benzo(k)fluoranthene	**0.058**	ug/L	0.037	0.0075	1	12/18/20 07:29	12/18/20 16:26	207-08-9	
Chrysene	**0.019J**	ug/L	0.065	0.013	1	12/18/20 07:29	12/18/20 16:26	218-01-9	
Dibenz(a,h)anthracene	**<0.0099**	ug/L	0.050	0.0099	1	12/18/20 07:29	12/18/20 16:26	53-70-3	
Fluoranthene	**0.26**	ug/L	0.053	0.011	1	12/18/20 07:29	12/18/20 16:26	206-44-0	
Fluorene	**<0.0079**	ug/L	0.039	0.0079	1	12/18/20 07:29	12/18/20 16:26	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.060J**	ug/L	0.087	0.017	1	12/18/20 07:29	12/18/20 16:26	193-39-5	
1-Methylnaphthalene	**0.063**	ug/L	0.029	0.0058	1	12/18/20 07:29	12/18/20 16:26	90-12-0	
2-Methylnaphthalene	**0.10**	ug/L	0.024	0.0049	1	12/18/20 07:29	12/18/20 16:26	91-57-6	
Naphthalene	**0.13**	ug/L	0.091	0.018	1	12/18/20 07:29	12/18/20 16:26	91-20-3	
Phenanthrene	**0.15**	ug/L	0.068	0.014	1	12/18/20 07:29	12/18/20 16:26	85-01-8	
Pyrene	**0.26**	ug/L	0.038	0.0076	1	12/18/20 07:29	12/18/20 16:26	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	47	%	39-120		1	12/18/20 07:29	12/18/20 16:26	321-60-8	
Terphenyl-d14 (S)	61	%	10-159		1	12/18/20 07:29	12/18/20 16:26	1718-51-0	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		12/21/20 12:22	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		12/21/20 12:22	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 12:22	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		12/21/20 12:22	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		12/21/20 12:22	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		12/21/20 12:22	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		12/21/20 12:22	563-58-6	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		12/21/20 12:22	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		12/21/20 12:22	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		12/21/20 12:22	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		12/21/20 12:22	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		12/21/20 12:22	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		12/21/20 12:22	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 12:22	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 12:22	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 12:22	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		12/21/20 12:22	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		12/21/20 12:22	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		12/21/20 12:22	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		12/21/20 12:22	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		12/21/20 12:22	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: W-41DL **Lab ID: 40219990002** Collected: 12/14/20 10:06 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		12/21/20 12:22	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		12/21/20 12:22	106-43-4	
Benzene	**0.33J**	ug/L	1.0	0.25	1		12/21/20 12:22	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		12/21/20 12:22	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		12/21/20 12:22	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		12/21/20 12:22	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		12/21/20 12:22	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		12/21/20 12:22	74-83-9	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		12/21/20 12:22	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 12:22	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		12/21/20 12:22	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		12/21/20 12:22	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		12/21/20 12:22	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		12/21/20 12:22	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		12/21/20 12:22	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		12/21/20 12:22	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		12/21/20 12:22	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		12/21/20 12:22	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		12/21/20 12:22	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		12/21/20 12:22	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		12/21/20 12:22	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		12/21/20 12:22	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		12/21/20 12:22	91-20-3	
Styrene	**<3.0**	ug/L	10.0	3.0	1		12/21/20 12:22	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		12/21/20 12:22	127-18-4	
Toluene	**<0.27**	ug/L	1.0	0.27	1		12/21/20 12:22	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/21/20 12:22	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		12/21/20 12:22	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		12/21/20 12:22	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		12/21/20 12:22	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		12/21/20 12:22	10061-01-5	
m&p-Xylene	**0.62J**	ug/L	2.0	0.47	1		12/21/20 12:22	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 12:22	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		12/21/20 12:22	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		12/21/20 12:22	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		12/21/20 12:22	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		12/21/20 12:22	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		12/21/20 12:22	98-06-6	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		12/21/20 12:22	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		12/21/20 12:22	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		12/21/20 12:22	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		12/21/20 12:22	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		12/21/20 12:22	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: W-41S **Lab ID: 40219990003** Collected: 12/14/20 10:45 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Acenaphthene	**0.49**	ug/L	0.032	0.0064	1	12/18/20 07:29	12/18/20 16:44	83-32-9	
Acenaphthylene	**0.052**	ug/L	0.026	0.0052	1	12/18/20 07:29	12/18/20 16:44	208-96-8	
Anthracene	**<0.011**	ug/L	0.055	0.011	1	12/18/20 07:29	12/18/20 16:44	120-12-7	
Benzo(a)anthracene	**0.090**	ug/L	0.040	0.0079	1	12/18/20 07:29	12/18/20 16:44	56-55-3	
Benzo(a)pyrene	**0.029J**	ug/L	0.055	0.011	1	12/18/20 07:29	12/18/20 16:44	50-32-8	
Benzo(b)fluoranthene	**0.070**	ug/L	0.030	0.0060	1	12/18/20 07:29	12/18/20 16:44	205-99-2	
Benzo(g,h,i)perylene	**0.044**	ug/L	0.036	0.0071	1	12/18/20 07:29	12/18/20 16:44	191-24-2	
Benzo(k)fluoranthene	**0.023J**	ug/L	0.040	0.0079	1	12/18/20 07:29	12/18/20 16:44	207-08-9	
Chrysene	**<0.014**	ug/L	0.069	0.014	1	12/18/20 07:29	12/18/20 16:44	218-01-9	
Dibenz(a,h)anthracene	**<0.011**	ug/L	0.053	0.011	1	12/18/20 07:29	12/18/20 16:44	53-70-3	
Fluoranthene	**0.085**	ug/L	0.056	0.011	1	12/18/20 07:29	12/18/20 16:44	206-44-0	
Fluorene	**0.039J**	ug/L	0.042	0.0084	1	12/18/20 07:29	12/18/20 16:44	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.027J**	ug/L	0.093	0.019	1	12/18/20 07:29	12/18/20 16:44	193-39-5	
1-Methylnaphthalene	**0.016J**	ug/L	0.031	0.0062	1	12/18/20 07:29	12/18/20 16:44	90-12-0	
2-Methylnaphthalene	**<0.0052**	ug/L	0.026	0.0052	1	12/18/20 07:29	12/18/20 16:44	91-57-6	
Naphthalene	**0.26**	ug/L	0.096	0.019	1	12/18/20 07:29	12/18/20 16:44	91-20-3	
Phenanthrene	**<0.015**	ug/L	0.073	0.015	1	12/18/20 07:29	12/18/20 16:44	85-01-8	
Pyrene	**0.23**	ug/L	0.040	0.0081	1	12/18/20 07:29	12/18/20 16:44	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	53	%	39-120		1	12/18/20 07:29	12/18/20 16:44	321-60-8	
Terphenyl-d14 (S)	67	%	10-159		1	12/18/20 07:29	12/18/20 16:44	1718-51-0	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.54**	ug/L	2.0	0.54	2		12/21/20 17:11	630-20-6	
1,1,1-Trichloroethane	**<0.49**	ug/L	2.0	0.49	2		12/21/20 17:11	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.55**	ug/L	2.0	0.55	2		12/21/20 17:11	79-34-5	
1,1,2-Trichloroethane	**<1.1**	ug/L	10.0	1.1	2		12/21/20 17:11	79-00-5	
1,1-Dichloroethane	**<0.55**	ug/L	2.0	0.55	2		12/21/20 17:11	75-34-3	
1,1-Dichloroethene	**<0.49**	ug/L	2.0	0.49	2		12/21/20 17:11	75-35-4	
1,1-Dichloropropene	**<1.1**	ug/L	3.6	1.1	2		12/21/20 17:11	563-58-6	
1,2,3-Trichlorobenzene	**<4.4**	ug/L	14.7	4.4	2		12/21/20 17:11	87-61-6	
1,2,3-Trichloropropane	**<1.2**	ug/L	10.0	1.2	2		12/21/20 17:11	96-18-4	
1,2,4-Trichlorobenzene	**<1.9**	ug/L	10.0	1.9	2		12/21/20 17:11	120-82-1	
1,2,4-Trimethylbenzene	**131**	ug/L	5.6	1.7	2		12/21/20 17:11	95-63-6	
1,2-Dibromo-3-chloropropane	**<3.5**	ug/L	11.8	3.5	2		12/21/20 17:11	96-12-8	
1,2-Dibromoethane (EDB)	**<1.7**	ug/L	5.5	1.7	2		12/21/20 17:11	106-93-4	
1,2-Dichlorobenzene	**<1.4**	ug/L	4.7	1.4	2		12/21/20 17:11	95-50-1	
1,2-Dichloroethane	**<0.56**	ug/L	2.0	0.56	2		12/21/20 17:11	107-06-2	
1,2-Dichloropropane	**<0.57**	ug/L	2.0	0.57	2		12/21/20 17:11	78-87-5	
1,3,5-Trimethylbenzene	**29.6**	ug/L	5.8	1.7	2		12/21/20 17:11	108-67-8	
1,3-Dichlorobenzene	**<1.3**	ug/L	4.2	1.3	2		12/21/20 17:11	541-73-1	
1,3-Dichloropropane	**<1.7**	ug/L	5.5	1.7	2		12/21/20 17:11	142-28-9	
1,4-Dichlorobenzene	**<1.9**	ug/L	6.3	1.9	2		12/21/20 17:11	106-46-7	
2,2-Dichloropropane	**<4.5**	ug/L	15.1	4.5	2		12/21/20 17:11	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: W-41S **Lab ID: 40219990003** Collected: 12/14/20 10:45 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
2-Chlorotoluene	**<1.9**	ug/L	10.0	1.9	2		12/21/20 17:11	95-49-8	
4-Chlorotoluene	**<1.5**	ug/L	5.0	1.5	2		12/21/20 17:11	106-43-4	
Benzene	**16.4**	ug/L	2.0	0.49	2		12/21/20 17:11	71-43-2	
Bromobenzene	**<0.48**	ug/L	2.0	0.48	2		12/21/20 17:11	108-86-1	
Bromochloromethane	**<0.72**	ug/L	10.0	0.72	2		12/21/20 17:11	74-97-5	
Bromodichloromethane	**<0.73**	ug/L	2.4	0.73	2		12/21/20 17:11	75-27-4	
Bromoform	**<7.9**	ug/L	26.5	7.9	2		12/21/20 17:11	75-25-2	
Bromomethane	**<1.9**	ug/L	10.0	1.9	2		12/21/20 17:11	74-83-9	
Carbon tetrachloride	**<2.2**	ug/L	7.2	2.2	2		12/21/20 17:11	56-23-5	
Chlorobenzene	**<1.4**	ug/L	4.7	1.4	2		12/21/20 17:11	108-90-7	
Chloroethane	**<2.7**	ug/L	10.0	2.7	2		12/21/20 17:11	75-00-3	
Chloroform	**<2.5**	ug/L	10.0	2.5	2		12/21/20 17:11	67-66-3	
Chloromethane	**<4.4**	ug/L	14.6	4.4	2		12/21/20 17:11	74-87-3	
Dibromochloromethane	**<5.2**	ug/L	17.3	5.2	2		12/21/20 17:11	124-48-1	
Dibromomethane	**<1.9**	ug/L	6.2	1.9	2		12/21/20 17:11	74-95-3	
Dichlorodifluoromethane	**<1.0**	ug/L	10.0	1.0	2		12/21/20 17:11	75-71-8	
Diisopropyl ether	**<3.8**	ug/L	12.6	3.8	2		12/21/20 17:11	108-20-3	
Ethylbenzene	**37.0**	ug/L	2.1	0.64	2		12/21/20 17:11	100-41-4	
Hexachloro-1,3-butadiene	**<2.9**	ug/L	9.8	2.9	2		12/21/20 17:11	87-68-3	
Isopropylbenzene (Cumene)	**5.0J**	ug/L	11.2	3.4	2		12/21/20 17:11	98-82-8	
Methyl-tert-butyl ether	**<2.5**	ug/L	8.3	2.5	2		12/21/20 17:11	1634-04-4	
Methylene Chloride	**<1.2**	ug/L	10.0	1.2	2		12/21/20 17:11	75-09-2	
Naphthalene	**8.9J**	ug/L	10.0	2.4	2		12/21/20 17:11	91-20-3	
Styrene	**<6.0**	ug/L	20.1	6.0	2		12/21/20 17:11	100-42-5	
Tetrachloroethene	**<0.65**	ug/L	2.2	0.65	2		12/21/20 17:11	127-18-4	
Toluene	**2.7**	ug/L	2.0	0.54	2		12/21/20 17:11	108-88-3	
Trichloroethene	**<0.51**	ug/L	2.0	0.51	2		12/21/20 17:11	79-01-6	
Trichlorofluoromethane	**<0.43**	ug/L	2.0	0.43	2		12/21/20 17:11	75-69-4	
Vinyl chloride	**<0.35**	ug/L	2.0	0.35	2		12/21/20 17:11	75-01-4	
cis-1,2-Dichloroethene	**<0.54**	ug/L	2.0	0.54	2		12/21/20 17:11	156-59-2	
cis-1,3-Dichloropropene	**<7.3**	ug/L	24.2	7.3	2		12/21/20 17:11	10061-01-5	
m&p-Xylene	**142**	ug/L	4.0	0.93	2		12/21/20 17:11	179601-23-1	
n-Butylbenzene	**<1.4**	ug/L	4.7	1.4	2		12/21/20 17:11	104-51-8	
n-Propylbenzene	**6.8J**	ug/L	10.0	1.6	2		12/21/20 17:11	103-65-1	
o-Xylene	**9.6**	ug/L	2.0	0.52	2		12/21/20 17:11	95-47-6	
p-Isopropyltoluene	**<1.6**	ug/L	5.3	1.6	2		12/21/20 17:11	99-87-6	
sec-Butylbenzene	**<1.7**	ug/L	10.0	1.7	2		12/21/20 17:11	135-98-8	
tert-Butylbenzene	**<0.61**	ug/L	2.0	0.61	2		12/21/20 17:11	98-06-6	
trans-1,2-Dichloroethene	**<0.93**	ug/L	3.1	0.93	2		12/21/20 17:11	156-60-5	
trans-1,3-Dichloropropene	**<8.7**	ug/L	29.1	8.7	2		12/21/20 17:11	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		2		12/21/20 17:11	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		2		12/21/20 17:11	1868-53-7	
Toluene-d8 (S)	94	%	70-130		2		12/21/20 17:11	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: W-101S **Lab ID: 40219990004** Collected: 12/14/20 11:35 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Acenaphthene	**<0.0063**	ug/L	0.031	0.0063	1	12/18/20 07:29	12/18/20 17:03	83-32-9	
Acenaphthylene	**<0.0051**	ug/L	0.026	0.0051	1	12/18/20 07:29	12/18/20 17:03	208-96-8	
Anthracene	**<0.011**	ug/L	0.054	0.011	1	12/18/20 07:29	12/18/20 17:03	120-12-7	
Benzo(a)anthracene	**<0.0078**	ug/L	0.039	0.0078	1	12/18/20 07:29	12/18/20 17:03	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.054	0.011	1	12/18/20 07:29	12/18/20 17:03	50-32-8	
Benzo(b)fluoranthene	**<0.0059**	ug/L	0.030	0.0059	1	12/18/20 07:29	12/18/20 17:03	205-99-2	
Benzo(g,h,i)perylene	**<0.0070**	ug/L	0.035	0.0070	1	12/18/20 07:29	12/18/20 17:03	191-24-2	
Benzo(k)fluoranthene	**<0.0078**	ug/L	0.039	0.0078	1	12/18/20 07:29	12/18/20 17:03	207-08-9	
Chrysene	**<0.013**	ug/L	0.067	0.013	1	12/18/20 07:29	12/18/20 17:03	218-01-9	
Dibenz(a,h)anthracene	**<0.010**	ug/L	0.052	0.010	1	12/18/20 07:29	12/18/20 17:03	53-70-3	
Fluoranthene	**<0.011**	ug/L	0.055	0.011	1	12/18/20 07:29	12/18/20 17:03	206-44-0	
Fluorene	**<0.0082**	ug/L	0.041	0.0082	1	12/18/20 07:29	12/18/20 17:03	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.018**	ug/L	0.091	0.018	1	12/18/20 07:29	12/18/20 17:03	193-39-5	
1-Methylnaphthalene	**<0.0061**	ug/L	0.030	0.0061	1	12/18/20 07:29	12/18/20 17:03	90-12-0	
2-Methylnaphthalene	**<0.0051**	ug/L	0.025	0.0051	1	12/18/20 07:29	12/18/20 17:03	91-57-6	
Naphthalene	**<0.019**	ug/L	0.094	0.019	1	12/18/20 07:29	12/18/20 17:03	91-20-3	
Phenanthrene	**<0.014**	ug/L	0.071	0.014	1	12/18/20 07:29	12/18/20 17:03	85-01-8	
Pyrene	**<0.0079**	ug/L	0.039	0.0079	1	12/18/20 07:29	12/18/20 17:03	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	46	%	39-120		1	12/18/20 07:29	12/18/20 17:03	321-60-8	
Terphenyl-d14 (S)	74	%	10-159		1	12/18/20 07:29	12/18/20 17:03	1718-51-0	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		12/21/20 12:43	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		12/21/20 12:43	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 12:43	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		12/21/20 12:43	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		12/21/20 12:43	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		12/21/20 12:43	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		12/21/20 12:43	563-58-6	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		12/21/20 12:43	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		12/21/20 12:43	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		12/21/20 12:43	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		12/21/20 12:43	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		12/21/20 12:43	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		12/21/20 12:43	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 12:43	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 12:43	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 12:43	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		12/21/20 12:43	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		12/21/20 12:43	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		12/21/20 12:43	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		12/21/20 12:43	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		12/21/20 12:43	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: W-101S **Lab ID: 40219990004** Collected: 12/14/20 11:35 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		12/21/20 12:43	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		12/21/20 12:43	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		12/21/20 12:43	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		12/21/20 12:43	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		12/21/20 12:43	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		12/21/20 12:43	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		12/21/20 12:43	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		12/21/20 12:43	74-83-9	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		12/21/20 12:43	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 12:43	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		12/21/20 12:43	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		12/21/20 12:43	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		12/21/20 12:43	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		12/21/20 12:43	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		12/21/20 12:43	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		12/21/20 12:43	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		12/21/20 12:43	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		12/21/20 12:43	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		12/21/20 12:43	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		12/21/20 12:43	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		12/21/20 12:43	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		12/21/20 12:43	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		12/21/20 12:43	91-20-3	
Styrene	**<3.0**	ug/L	10.0	3.0	1		12/21/20 12:43	100-42-5	
Tetrachloroethene	**0.59J**	ug/L	1.1	0.33	1		12/21/20 12:43	127-18-4	
Toluene	**<0.27**	ug/L	1.0	0.27	1		12/21/20 12:43	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/21/20 12:43	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		12/21/20 12:43	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		12/21/20 12:43	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		12/21/20 12:43	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		12/21/20 12:43	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		12/21/20 12:43	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 12:43	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		12/21/20 12:43	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		12/21/20 12:43	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		12/21/20 12:43	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		12/21/20 12:43	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		12/21/20 12:43	98-06-6	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		12/21/20 12:43	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		12/21/20 12:43	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		12/21/20 12:43	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		12/21/20 12:43	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		12/21/20 12:43	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: W-101D **Lab ID: 40219990005** Collected: 12/14/20 12:11 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
	Pace Analytical Services - Green Bay								
Acenaphthene	**12.4**	ug/L	6.2	1.2	200	12/18/20 07:29	12/21/20 12:03	83-32-9	
Acenaphthylene	**<1.0**	ug/L	5.1	1.0	200	12/18/20 07:29	12/21/20 12:03	208-96-8	
Anthracene	**<2.1**	ug/L	10.7	2.1	200	12/18/20 07:29	12/21/20 12:03	120-12-7	
Benzo(a)anthracene	**<1.5**	ug/L	7.7	1.5	200	12/18/20 07:29	12/21/20 12:03	56-55-3	
Benzo(a)pyrene	**<2.1**	ug/L	10.7	2.1	200	12/18/20 07:29	12/21/20 12:03	50-32-8	
Benzo(b)fluoranthene	**<1.2**	ug/L	5.9	1.2	200	12/18/20 07:29	12/21/20 12:03	205-99-2	
Benzo(g,h,i)perylene	**<1.4**	ug/L	6.9	1.4	200	12/18/20 07:29	12/21/20 12:03	191-24-2	
Benzo(k)fluoranthene	**<1.5**	ug/L	7.7	1.5	200	12/18/20 07:29	12/21/20 12:03	207-08-9	
Chrysene	**<2.7**	ug/L	13.3	2.7	200	12/18/20 07:29	12/21/20 12:03	218-01-9	
Dibenz(a,h)anthracene	**<2.0**	ug/L	10.2	2.0	200	12/18/20 07:29	12/21/20 12:03	53-70-3	
Fluoranthene	**<2.2**	ug/L	10.9	2.2	200	12/18/20 07:29	12/21/20 12:03	206-44-0	
Fluorene	**<1.6**	ug/L	8.1	1.6	200	12/18/20 07:29	12/21/20 12:03	86-73-7	
Indeno(1,2,3-cd)pyrene	**<3.6**	ug/L	18.0	3.6	200	12/18/20 07:29	12/21/20 12:03	193-39-5	
1-Methylnaphthalene	**234**	ug/L	6.0	1.2	200	12/18/20 07:29	12/21/20 12:03	90-12-0	
2-Methylnaphthalene	**<1.0**	ug/L	5.0	1.0	200	12/18/20 07:29	12/21/20 12:03	91-57-6	
Naphthalene	**1220**	ug/L	18.7	3.7	200	12/18/20 07:29	12/21/20 12:03	91-20-3	
Phenanthrene	**<2.8**	ug/L	14.1	2.8	200	12/18/20 07:29	12/21/20 12:03	85-01-8	
Pyrene	**<1.6**	ug/L	7.8	1.6	200	12/18/20 07:29	12/21/20 12:03	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	0	%	39-120		200	12/18/20 07:29	12/21/20 12:03	321-60-8	S4
Terphenyl-d14 (S)	0	%	10-159		200	12/18/20 07:29	12/21/20 12:03	1718-51-0	S4
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<2.7**	ug/L	10.0	2.7	10		12/21/20 17:33	630-20-6	
1,1,1-Trichloroethane	**<2.4**	ug/L	10.0	2.4	10		12/21/20 17:33	71-55-6	
1,1,2,2-Tetrachloroethane	**<2.8**	ug/L	10.0	2.8	10		12/21/20 17:33	79-34-5	
1,1,2-Trichloroethane	**<5.5**	ug/L	50.0	5.5	10		12/21/20 17:33	79-00-5	
1,1-Dichloroethane	**<2.7**	ug/L	10.0	2.7	10		12/21/20 17:33	75-34-3	
1,1-Dichloroethene	**<2.4**	ug/L	10.0	2.4	10		12/21/20 17:33	75-35-4	
1,1-Dichloropropene	**<5.4**	ug/L	18.0	5.4	10		12/21/20 17:33	563-58-6	
1,2,3-Trichlorobenzene	**<22.1**	ug/L	73.7	22.1	10		12/21/20 17:33	87-61-6	
1,2,3-Trichloropropane	**<5.9**	ug/L	50.0	5.9	10		12/21/20 17:33	96-18-4	
1,2,4-Trichlorobenzene	**<9.5**	ug/L	50.0	9.5	10		12/21/20 17:33	120-82-1	
1,2,4-Trimethylbenzene	**18.9J**	ug/L	28.0	8.4	10		12/21/20 17:33	95-63-6	
1,2-Dibromo-3-chloropropane	**<17.6**	ug/L	58.8	17.6	10		12/21/20 17:33	96-12-8	
1,2-Dibromoethane (EDB)	**<8.3**	ug/L	27.6	8.3	10		12/21/20 17:33	106-93-4	
1,2-Dichlorobenzene	**<7.1**	ug/L	23.5	7.1	10		12/21/20 17:33	95-50-1	
1,2-Dichloroethane	**<2.8**	ug/L	10.0	2.8	10		12/21/20 17:33	107-06-2	
1,2-Dichloropropane	**<2.8**	ug/L	10.0	2.8	10		12/21/20 17:33	78-87-5	
1,3,5-Trimethylbenzene	**13.5J**	ug/L	29.1	8.7	10		12/21/20 17:33	108-67-8	
1,3-Dichlorobenzene	**<6.3**	ug/L	20.9	6.3	10		12/21/20 17:33	541-73-1	
1,3-Dichloropropane	**<8.3**	ug/L	27.5	8.3	10		12/21/20 17:33	142-28-9	
1,4-Dichlorobenzene	**<9.4**	ug/L	31.5	9.4	10		12/21/20 17:33	106-46-7	
2,2-Dichloropropane	**<22.7**	ug/L	75.5	22.7	10		12/21/20 17:33	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: W-101D **Lab ID: 40219990005** Collected: 12/14/20 12:11 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
2-Chlorotoluene	**<9.3**	ug/L	50.0	9.3	10		12/21/20 17:33	95-49-8	
4-Chlorotoluene	**<7.6**	ug/L	25.2	7.6	10		12/21/20 17:33	106-43-4	
Benzene	**137**	ug/L	10.0	2.5	10		12/21/20 17:33	71-43-2	
Bromobenzene	**<2.4**	ug/L	10.0	2.4	10		12/21/20 17:33	108-86-1	
Bromochloromethane	**<3.6**	ug/L	50.0	3.6	10		12/21/20 17:33	74-97-5	
Bromodichloromethane	**<3.6**	ug/L	12.1	3.6	10		12/21/20 17:33	75-27-4	
Bromoform	**<39.7**	ug/L	132	39.7	10		12/21/20 17:33	75-25-2	
Bromomethane	**<9.7**	ug/L	50.0	9.7	10		12/21/20 17:33	74-83-9	
Carbon tetrachloride	**<10.8**	ug/L	35.9	10.8	10		12/21/20 17:33	56-23-5	
Chlorobenzene	**<7.1**	ug/L	23.7	7.1	10		12/21/20 17:33	108-90-7	
Chloroethane	**<13.4**	ug/L	50.0	13.4	10		12/21/20 17:33	75-00-3	
Chloroform	**<12.7**	ug/L	50.0	12.7	10		12/21/20 17:33	67-66-3	
Chloromethane	**<21.9**	ug/L	73.0	21.9	10		12/21/20 17:33	74-87-3	
Dibromochloromethane	**<26.0**	ug/L	86.7	26.0	10		12/21/20 17:33	124-48-1	
Dibromomethane	**<9.4**	ug/L	31.2	9.4	10		12/21/20 17:33	74-95-3	
Dichlorodifluoromethane	**<5.0**	ug/L	50.0	5.0	10		12/21/20 17:33	75-71-8	
Diisopropyl ether	**<18.9**	ug/L	62.9	18.9	10		12/21/20 17:33	108-20-3	
Ethylbenzene	**270**	ug/L	10.6	3.2	10		12/21/20 17:33	100-41-4	
Hexachloro-1,3-butadiene	**<14.6**	ug/L	48.8	14.6	10		12/21/20 17:33	87-68-3	
Isopropylbenzene (Cumene)	**49.3J**	ug/L	56.2	16.9	10		12/21/20 17:33	98-82-8	
Methyl-tert-butyl ether	**<12.5**	ug/L	41.5	12.5	10		12/21/20 17:33	1634-04-4	
Methylene Chloride	**<5.8**	ug/L	50.0	5.8	10		12/21/20 17:33	75-09-2	
Naphthalene	**2540**	ug/L	50.0	11.8	10		12/21/20 17:33	91-20-3	
Styrene	**<30.1**	ug/L	100	30.1	10		12/21/20 17:33	100-42-5	
Tetrachloroethene	**<3.3**	ug/L	10.9	3.3	10		12/21/20 17:33	127-18-4	
Toluene	**<2.7**	ug/L	10.0	2.7	10		12/21/20 17:33	108-88-3	
Trichloroethene	**<2.6**	ug/L	10.0	2.6	10		12/21/20 17:33	79-01-6	
Trichlorofluoromethane	**<2.1**	ug/L	10.0	2.1	10		12/21/20 17:33	75-69-4	
Vinyl chloride	**<1.7**	ug/L	10.0	1.7	10		12/21/20 17:33	75-01-4	
cis-1,2-Dichloroethene	**<2.7**	ug/L	10.0	2.7	10		12/21/20 17:33	156-59-2	
cis-1,3-Dichloropropene	**<36.3**	ug/L	121	36.3	10		12/21/20 17:33	10061-01-5	
m&p-Xylene	**20.1**	ug/L	20.0	4.7	10		12/21/20 17:33	179601-23-1	
n-Butylbenzene	**<7.1**	ug/L	23.6	7.1	10		12/21/20 17:33	104-51-8	
n-Propylbenzene	**33.0J**	ug/L	50.0	8.1	10		12/21/20 17:33	103-65-1	
o-Xylene	**17.5**	ug/L	10.0	2.6	10		12/21/20 17:33	95-47-6	
p-Isopropyltoluene	**<8.0**	ug/L	26.7	8.0	10		12/21/20 17:33	99-87-6	
sec-Butylbenzene	**<8.5**	ug/L	50.0	8.5	10		12/21/20 17:33	135-98-8	
tert-Butylbenzene	**<3.0**	ug/L	10.1	3.0	10		12/21/20 17:33	98-06-6	
trans-1,2-Dichloroethene	**<4.6**	ug/L	15.5	4.6	10		12/21/20 17:33	156-60-5	
trans-1,3-Dichloropropene	**<43.7**	ug/L	146	43.7	10		12/21/20 17:33	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		10		12/21/20 17:33	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		10		12/21/20 17:33	1868-53-7	
Toluene-d8 (S)	94	%	70-130		10		12/21/20 17:33	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: DUP-01 **Lab ID: 40219990006** Collected: 12/14/20 12:16 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
	Pace Analytical Services - Green Bay								
Acenaphthene	**11.8**	ug/L	6.3	1.3	200	12/18/20 07:29	12/21/20 12:22	83-32-9	
Acenaphthylene	**<1.0**	ug/L	5.1	1.0	200	12/18/20 07:29	12/21/20 12:22	208-96-8	
Anthracene	**<2.2**	ug/L	10.8	2.2	200	12/18/20 07:29	12/21/20 12:22	120-12-7	
Benzo(a)anthracene	**<1.6**	ug/L	7.8	1.6	200	12/18/20 07:29	12/21/20 12:22	56-55-3	
Benzo(a)pyrene	**<2.2**	ug/L	10.9	2.2	200	12/18/20 07:29	12/21/20 12:22	50-32-8	
Benzo(b)fluoranthene	**<1.2**	ug/L	5.9	1.2	200	12/18/20 07:29	12/21/20 12:22	205-99-2	
Benzo(g,h,i)perylene	**<1.4**	ug/L	7.0	1.4	200	12/18/20 07:29	12/21/20 12:22	191-24-2	
Benzo(k)fluoranthene	**<1.6**	ug/L	7.8	1.6	200	12/18/20 07:29	12/21/20 12:22	207-08-9	
Chrysene	**<2.7**	ug/L	13.5	2.7	200	12/18/20 07:29	12/21/20 12:22	218-01-9	
Dibenz(a,h)anthracene	**<2.1**	ug/L	10.3	2.1	200	12/18/20 07:29	12/21/20 12:22	53-70-3	
Fluoranthene	**<2.2**	ug/L	11.0	2.2	200	12/18/20 07:29	12/21/20 12:22	206-44-0	
Fluorene	**<1.6**	ug/L	8.2	1.6	200	12/18/20 07:29	12/21/20 12:22	86-73-7	
Indeno(1,2,3-cd)pyrene	**<3.6**	ug/L	18.2	3.6	200	12/18/20 07:29	12/21/20 12:22	193-39-5	
1-Methylnaphthalene	**241**	ug/L	6.1	1.2	200	12/18/20 07:29	12/21/20 12:22	90-12-0	
2-Methylnaphthalene	**<1.0**	ug/L	5.1	1.0	200	12/18/20 07:29	12/21/20 12:22	91-57-6	
Naphthalene	**1240**	ug/L	18.9	3.8	200	12/18/20 07:29	12/21/20 12:22	91-20-3	
Phenanthrene	**<2.8**	ug/L	14.2	2.8	200	12/18/20 07:29	12/21/20 12:22	85-01-8	
Pyrene	**<1.6**	ug/L	7.9	1.6	200	12/18/20 07:29	12/21/20 12:22	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	0	%	39-120		200	12/18/20 07:29	12/21/20 12:22	321-60-8	S4
Terphenyl-d14 (S)	0	%	10-159		200	12/18/20 07:29	12/21/20 12:22	1718-51-0	S4
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<1.3**	ug/L	5.0	1.3	5		12/21/20 18:37	630-20-6	
1,1,1-Trichloroethane	**<1.2**	ug/L	5.0	1.2	5		12/21/20 18:37	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.4**	ug/L	5.0	1.4	5		12/21/20 18:37	79-34-5	
1,1,2-Trichloroethane	**<2.8**	ug/L	25.0	2.8	5		12/21/20 18:37	79-00-5	
1,1-Dichloroethane	**<1.4**	ug/L	5.0	1.4	5		12/21/20 18:37	75-34-3	
1,1-Dichloroethene	**<1.2**	ug/L	5.0	1.2	5		12/21/20 18:37	75-35-4	
1,1-Dichloropropene	**<2.7**	ug/L	9.0	2.7	5		12/21/20 18:37	563-58-6	
1,2,3-Trichlorobenzene	**<11.1**	ug/L	36.8	11.1	5		12/21/20 18:37	87-61-6	
1,2,3-Trichloropropane	**<3.0**	ug/L	25.0	3.0	5		12/21/20 18:37	96-18-4	
1,2,4-Trichlorobenzene	**<4.8**	ug/L	25.0	4.8	5		12/21/20 18:37	120-82-1	
1,2,4-Trimethylbenzene	**20.0**	ug/L	14.0	4.2	5		12/21/20 18:37	95-63-6	
1,2-Dibromo-3-chloropropane	**<8.8**	ug/L	29.4	8.8	5		12/21/20 18:37	96-12-8	
1,2-Dibromoethane (EDB)	**<4.1**	ug/L	13.8	4.1	5		12/21/20 18:37	106-93-4	
1,2-Dichlorobenzene	**<3.5**	ug/L	11.8	3.5	5		12/21/20 18:37	95-50-1	
1,2-Dichloroethane	**<1.4**	ug/L	5.0	1.4	5		12/21/20 18:37	107-06-2	
1,2-Dichloropropane	**<1.4**	ug/L	5.0	1.4	5		12/21/20 18:37	78-87-5	
1,3,5-Trimethylbenzene	**12.9J**	ug/L	14.6	4.4	5		12/21/20 18:37	108-67-8	
1,3-Dichlorobenzene	**<3.1**	ug/L	10.5	3.1	5		12/21/20 18:37	541-73-1	
1,3-Dichloropropane	**<4.1**	ug/L	13.8	4.1	5		12/21/20 18:37	142-28-9	
1,4-Dichlorobenzene	**<4.7**	ug/L	15.7	4.7	5		12/21/20 18:37	106-46-7	
2,2-Dichloropropane	**<11.3**	ug/L	37.8	11.3	5		12/21/20 18:37	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: DUP-01 **Lab ID: 40219990006** Collected: 12/14/20 12:16 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
2-Chlorotoluene	**<4.6**	ug/L	25.0	4.6	5		12/21/20 18:37	95-49-8	
4-Chlorotoluene	**<3.8**	ug/L	12.6	3.8	5		12/21/20 18:37	106-43-4	
Benzene	**158**	ug/L	5.0	1.2	5		12/21/20 18:37	71-43-2	
Bromobenzene	**<1.2**	ug/L	5.0	1.2	5		12/21/20 18:37	108-86-1	
Bromochloromethane	**<1.8**	ug/L	25.0	1.8	5		12/21/20 18:37	74-97-5	
Bromodichloromethane	**<1.8**	ug/L	6.1	1.8	5		12/21/20 18:37	75-27-4	
Bromoform	**<19.9**	ug/L	66.2	19.9	5		12/21/20 18:37	75-25-2	
Bromomethane	**<4.9**	ug/L	25.0	4.9	5		12/21/20 18:37	74-83-9	
Carbon tetrachloride	**<5.4**	ug/L	17.9	5.4	5		12/21/20 18:37	56-23-5	
Chlorobenzene	**<3.6**	ug/L	11.8	3.6	5		12/21/20 18:37	108-90-7	
Chloroethane	**<6.7**	ug/L	25.0	6.7	5		12/21/20 18:37	75-00-3	
Chloroform	**<6.4**	ug/L	25.0	6.4	5		12/21/20 18:37	67-66-3	
Chloromethane	**<10.9**	ug/L	36.5	10.9	5		12/21/20 18:37	74-87-3	
Dibromochloromethane	**<13.0**	ug/L	43.4	13.0	5		12/21/20 18:37	124-48-1	
Dibromomethane	**<4.7**	ug/L	15.6	4.7	5		12/21/20 18:37	74-95-3	
Dichlorodifluoromethane	**<2.5**	ug/L	25.0	2.5	5		12/21/20 18:37	75-71-8	
Diisopropyl ether	**<9.4**	ug/L	31.5	9.4	5		12/21/20 18:37	108-20-3	
Ethylbenzene	**291**	ug/L	5.3	1.6	5		12/21/20 18:37	100-41-4	
Hexachloro-1,3-butadiene	**<7.3**	ug/L	24.4	7.3	5		12/21/20 18:37	87-68-3	
Isopropylbenzene (Cumene)	**54.5**	ug/L	28.1	8.4	5		12/21/20 18:37	98-82-8	
Methyl-tert-butyl ether	**<6.2**	ug/L	20.8	6.2	5		12/21/20 18:37	1634-04-4	
Methylene Chloride	**<2.9**	ug/L	25.0	2.9	5		12/21/20 18:37	75-09-2	
Naphthalene	**2340**	ug/L	250	58.8	50		12/22/20 08:31	91-20-3	
Styrene	**<15.0**	ug/L	50.2	15.0	5		12/21/20 18:37	100-42-5	
Tetrachloroethene	**<1.6**	ug/L	5.4	1.6	5		12/21/20 18:37	127-18-4	
Toluene	**<1.3**	ug/L	5.0	1.3	5		12/21/20 18:37	108-88-3	
Trichloroethene	**<1.3**	ug/L	5.0	1.3	5		12/21/20 18:37	79-01-6	
Trichlorofluoromethane	**<1.1**	ug/L	5.0	1.1	5		12/21/20 18:37	75-69-4	
Vinyl chloride	**<0.87**	ug/L	5.0	0.87	5		12/21/20 18:37	75-01-4	
cis-1,2-Dichloroethene	**<1.4**	ug/L	5.0	1.4	5		12/21/20 18:37	156-59-2	
cis-1,3-Dichloropropene	**<18.1**	ug/L	60.5	18.1	5		12/21/20 18:37	10061-01-5	
m&p-Xylene	**21.1**	ug/L	10.0	2.3	5		12/21/20 18:37	179601-23-1	
n-Butylbenzene	**<3.5**	ug/L	11.8	3.5	5		12/21/20 18:37	104-51-8	
n-Propylbenzene	**34.0**	ug/L	25.0	4.1	5		12/21/20 18:37	103-65-1	
o-Xylene	**18.6**	ug/L	5.0	1.3	5		12/21/20 18:37	95-47-6	
p-Isopropyltoluene	**<4.0**	ug/L	13.3	4.0	5		12/21/20 18:37	99-87-6	
sec-Butylbenzene	**<4.2**	ug/L	25.0	4.2	5		12/21/20 18:37	135-98-8	
tert-Butylbenzene	**<1.5**	ug/L	5.1	1.5	5		12/21/20 18:37	98-06-6	
trans-1,2-Dichloroethene	**<2.3**	ug/L	7.7	2.3	5		12/21/20 18:37	156-60-5	
trans-1,3-Dichloropropene	**<21.9**	ug/L	72.8	21.9	5		12/21/20 18:37	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		5		12/21/20 18:37	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		5		12/21/20 18:37	1868-53-7	
Toluene-d8 (S)	95	%	70-130		5		12/21/20 18:37	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: W-45DL **Lab ID: 40219990007** Collected: 12/14/20 14:25 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Acenaphthene	**0.027J**	ug/L	0.030	0.0061	1	12/18/20 07:29	12/18/20 14:53	83-32-9	
Acenaphthylene	**<0.0050**	ug/L	0.025	0.0050	1	12/18/20 07:29	12/18/20 14:53	208-96-8	
Anthracene	**<0.010**	ug/L	0.052	0.010	1	12/18/20 07:29	12/18/20 14:53	120-12-7	
Benzo(a)anthracene	**<0.0076**	ug/L	0.038	0.0076	1	12/18/20 07:29	12/18/20 14:53	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.053	0.011	1	12/18/20 07:29	12/18/20 14:53	50-32-8	
Benzo(b)fluoranthene	**<0.0057**	ug/L	0.029	0.0057	1	12/18/20 07:29	12/18/20 14:53	205-99-2	
Benzo(g,h,i)perylene	**<0.0068**	ug/L	0.034	0.0068	1	12/18/20 07:29	12/18/20 14:53	191-24-2	
Benzo(k)fluoranthene	**<0.0076**	ug/L	0.038	0.0076	1	12/18/20 07:29	12/18/20 14:53	207-08-9	
Chrysene	**<0.013**	ug/L	0.065	0.013	1	12/18/20 07:29	12/18/20 14:53	218-01-9	
Dibenz(a,h)anthracene	**<0.010**	ug/L	0.050	0.010	1	12/18/20 07:29	12/18/20 14:53	53-70-3	
Fluoranthene	**<0.011**	ug/L	0.053	0.011	1	12/18/20 07:29	12/18/20 14:53	206-44-0	
Fluorene	**<0.0080**	ug/L	0.040	0.0080	1	12/18/20 07:29	12/18/20 14:53	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.018**	ug/L	0.088	0.018	1	12/18/20 07:29	12/18/20 14:53	193-39-5	
1-Methylnaphthalene	**0.028J**	ug/L	0.030	0.0059	1	12/18/20 07:29	12/18/20 14:53	90-12-0	
2-Methylnaphthalene	**<0.0049**	ug/L	0.024	0.0049	1	12/18/20 07:29	12/18/20 14:53	91-57-6	
Naphthalene	**0.46**	ug/L	0.092	0.018	1	12/18/20 07:29	12/18/20 14:53	91-20-3	
Phenanthrene	**<0.014**	ug/L	0.069	0.014	1	12/18/20 07:29	12/18/20 14:53	85-01-8	
Pyrene	**<0.0076**	ug/L	0.038	0.0076	1	12/18/20 07:29	12/18/20 14:53	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	52	%	39-120		1	12/18/20 07:29	12/18/20 14:53	321-60-8	
Terphenyl-d14 (S)	82	%	10-159		1	12/18/20 07:29	12/18/20 14:53	1718-51-0	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		12/21/20 10:34	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		12/21/20 10:34	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 10:34	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		12/21/20 10:34	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		12/21/20 10:34	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		12/21/20 10:34	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		12/21/20 10:34	563-58-6	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		12/21/20 10:34	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		12/21/20 10:34	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		12/21/20 10:34	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		12/21/20 10:34	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		12/21/20 10:34	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		12/21/20 10:34	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 10:34	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 10:34	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 10:34	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		12/21/20 10:34	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		12/21/20 10:34	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		12/21/20 10:34	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		12/21/20 10:34	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		12/21/20 10:34	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: W-45DL **Lab ID: 40219990007** Collected: 12/14/20 14:25 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		12/21/20 10:34	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		12/21/20 10:34	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		12/21/20 10:34	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		12/21/20 10:34	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		12/21/20 10:34	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		12/21/20 10:34	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		12/21/20 10:34	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		12/21/20 10:34	74-83-9	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		12/21/20 10:34	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 10:34	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		12/21/20 10:34	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		12/21/20 10:34	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		12/21/20 10:34	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		12/21/20 10:34	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		12/21/20 10:34	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		12/21/20 10:34	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		12/21/20 10:34	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		12/21/20 10:34	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		12/21/20 10:34	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		12/21/20 10:34	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		12/21/20 10:34	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		12/21/20 10:34	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		12/21/20 10:34	91-20-3	
Styrene	**<3.0**	ug/L	10.0	3.0	1		12/21/20 10:34	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		12/21/20 10:34	127-18-4	
Toluene	**<0.27**	ug/L	1.0	0.27	1		12/21/20 10:34	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/21/20 10:34	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		12/21/20 10:34	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		12/21/20 10:34	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		12/21/20 10:34	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		12/21/20 10:34	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		12/21/20 10:34	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 10:34	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		12/21/20 10:34	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		12/21/20 10:34	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		12/21/20 10:34	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		12/21/20 10:34	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		12/21/20 10:34	98-06-6	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		12/21/20 10:34	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		12/21/20 10:34	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		12/21/20 10:34	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		12/21/20 10:34	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		12/21/20 10:34	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: W-45S **Lab ID: 40219990008** Collected: 12/14/20 14:53 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
	Pace Analytical Services - Green Bay								
Acenaphthene	**0.068**	ug/L	0.030	0.0061	1	12/18/20 07:29	12/21/20 13:37	83-32-9	
Acenaphthylene	**<0.0050**	ug/L	0.025	0.0050	1	12/18/20 07:29	12/21/20 13:37	208-96-8	
Anthracene	**<0.010**	ug/L	0.052	0.010	1	12/18/20 07:29	12/21/20 13:37	120-12-7	
Benzo(a)anthracene	**<0.0076**	ug/L	0.038	0.0076	1	12/18/20 07:29	12/21/20 13:37	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.053	0.011	1	12/18/20 07:29	12/21/20 13:37	50-32-8	
Benzo(b)fluoranthene	**<0.0057**	ug/L	0.029	0.0057	1	12/18/20 07:29	12/21/20 13:37	205-99-2	
Benzo(g,h,i)perylene	**<0.0068**	ug/L	0.034	0.0068	1	12/18/20 07:29	12/21/20 13:37	191-24-2	
Benzo(k)fluoranthene	**<0.0076**	ug/L	0.038	0.0076	1	12/18/20 07:29	12/21/20 13:37	207-08-9	
Chrysene	**0.017J**	ug/L	0.065	0.013	1	12/18/20 07:29	12/21/20 13:37	218-01-9	
Dibenz(a,h)anthracene	**<0.010**	ug/L	0.050	0.010	1	12/18/20 07:29	12/21/20 13:37	53-70-3	
Fluoranthene	**0.021J**	ug/L	0.053	0.011	1	12/18/20 07:29	12/21/20 13:37	206-44-0	
Fluorene	**<0.0080**	ug/L	0.040	0.0080	1	12/18/20 07:29	12/21/20 13:37	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.018**	ug/L	0.088	0.018	1	12/18/20 07:29	12/21/20 13:37	193-39-5	
1-Methylnaphthalene	**1.5**	ug/L	0.030	0.0059	1	12/18/20 07:29	12/21/20 13:37	90-12-0	
2-Methylnaphthalene	**0.87**	ug/L	0.024	0.0049	1	12/18/20 07:29	12/21/20 13:37	91-57-6	
Naphthalene	**0.75**	ug/L	0.092	0.018	1	12/18/20 07:29	12/21/20 13:37	91-20-3	
Phenanthrene	**0.021J**	ug/L	0.069	0.014	1	12/18/20 07:29	12/21/20 13:37	85-01-8	
Pyrene	**0.020J**	ug/L	0.038	0.0076	1	12/18/20 07:29	12/21/20 13:37	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	57	%	39-120		1	12/18/20 07:29	12/21/20 13:37	321-60-8	
Terphenyl-d14 (S)	93	%	10-159		1	12/18/20 07:29	12/21/20 13:37	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		12/21/20 13:05	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		12/21/20 13:05	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 13:05	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		12/21/20 13:05	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		12/21/20 13:05	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		12/21/20 13:05	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		12/21/20 13:05	563-58-6	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		12/21/20 13:05	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		12/21/20 13:05	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		12/21/20 13:05	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		12/21/20 13:05	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		12/21/20 13:05	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		12/21/20 13:05	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 13:05	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 13:05	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 13:05	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		12/21/20 13:05	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		12/21/20 13:05	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		12/21/20 13:05	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		12/21/20 13:05	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		12/21/20 13:05	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: W-45S **Lab ID: 40219990008** Collected: 12/14/20 14:53 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		12/21/20 13:05	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		12/21/20 13:05	106-43-4	
Benzene	**1.9**	ug/L	1.0	0.25	1		12/21/20 13:05	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		12/21/20 13:05	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		12/21/20 13:05	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		12/21/20 13:05	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		12/21/20 13:05	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		12/21/20 13:05	74-83-9	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		12/21/20 13:05	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 13:05	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		12/21/20 13:05	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		12/21/20 13:05	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		12/21/20 13:05	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		12/21/20 13:05	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		12/21/20 13:05	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		12/21/20 13:05	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		12/21/20 13:05	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		12/21/20 13:05	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		12/21/20 13:05	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		12/21/20 13:05	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		12/21/20 13:05	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		12/21/20 13:05	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		12/21/20 13:05	91-20-3	
Styrene	**<3.0**	ug/L	10.0	3.0	1		12/21/20 13:05	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		12/21/20 13:05	127-18-4	
Toluene	**<0.27**	ug/L	1.0	0.27	1		12/21/20 13:05	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/21/20 13:05	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		12/21/20 13:05	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		12/21/20 13:05	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		12/21/20 13:05	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		12/21/20 13:05	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		12/21/20 13:05	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 13:05	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		12/21/20 13:05	103-65-1	
o-Xylene	**0.61J**	ug/L	1.0	0.26	1		12/21/20 13:05	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		12/21/20 13:05	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		12/21/20 13:05	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		12/21/20 13:05	98-06-6	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		12/21/20 13:05	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		12/21/20 13:05	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		12/21/20 13:05	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		12/21/20 13:05	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		12/21/20 13:05	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: W-45D **Lab ID: 40219990009** Collected: 12/14/20 15:29 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Acenaphthene	**<0.0063**	ug/L	0.032	0.0063	1	12/18/20 07:29	12/21/20 08:56	83-32-9	
Acenaphthylene	**<0.0052**	ug/L	0.026	0.0052	1	12/18/20 07:29	12/21/20 08:56	208-96-8	
Anthracene	**0.013J**	ug/L	0.054	0.011	1	12/18/20 07:29	12/21/20 08:56	120-12-7	
Benzo(a)anthracene	**<0.0079**	ug/L	0.039	0.0079	1	12/18/20 07:29	12/21/20 08:56	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.055	0.011	1	12/18/20 07:29	12/21/20 08:56	50-32-8	
Benzo(b)fluoranthene	**0.020J**	ug/L	0.030	0.0060	1	12/18/20 07:29	12/21/20 08:56	205-99-2	
Benzo(g,h,i)perylene	**0.013J**	ug/L	0.035	0.0071	1	12/18/20 07:29	12/21/20 08:56	191-24-2	
Benzo(k)fluoranthene	**<0.0079**	ug/L	0.039	0.0079	1	12/18/20 07:29	12/21/20 08:56	207-08-9	
Chrysene	**0.021J**	ug/L	0.068	0.014	1	12/18/20 07:29	12/21/20 08:56	218-01-9	
Dibenz(a,h)anthracene	**<0.010**	ug/L	0.052	0.010	1	12/18/20 07:29	12/21/20 08:56	53-70-3	
Fluoranthene	**0.047J**	ug/L	0.056	0.011	1	12/18/20 07:29	12/21/20 08:56	206-44-0	
Fluorene	**<0.0083**	ug/L	0.042	0.0083	1	12/18/20 07:29	12/21/20 08:56	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.018**	ug/L	0.092	0.018	1	12/18/20 07:29	12/21/20 08:56	193-39-5	
1-Methylnaphthalene	**<0.0061**	ug/L	0.031	0.0061	1	12/18/20 07:29	12/21/20 08:56	90-12-0	
2-Methylnaphthalene	**<0.0051**	ug/L	0.026	0.0051	1	12/18/20 07:29	12/21/20 08:56	91-57-6	
Naphthalene	**<0.019**	ug/L	0.095	0.019	1	12/18/20 07:29	12/21/20 08:56	91-20-3	
Phenanthrene	**<0.014**	ug/L	0.072	0.014	1	12/18/20 07:29	12/21/20 08:56	85-01-8	
Pyrene	**0.039J**	ug/L	0.040	0.0080	1	12/18/20 07:29	12/21/20 08:56	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56	%	39-120		1	12/18/20 07:29	12/21/20 08:56	321-60-8	
Terphenyl-d14 (S)	89	%	10-159		1	12/18/20 07:29	12/21/20 08:56	1718-51-0	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		12/21/20 13:26	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		12/21/20 13:26	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 13:26	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		12/21/20 13:26	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		12/21/20 13:26	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		12/21/20 13:26	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		12/21/20 13:26	563-58-6	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		12/21/20 13:26	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		12/21/20 13:26	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		12/21/20 13:26	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		12/21/20 13:26	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		12/21/20 13:26	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		12/21/20 13:26	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 13:26	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 13:26	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 13:26	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		12/21/20 13:26	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		12/21/20 13:26	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		12/21/20 13:26	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		12/21/20 13:26	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		12/21/20 13:26	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: W-45D **Lab ID: 40219990009** Collected: 12/14/20 15:29 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		12/21/20 13:26	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		12/21/20 13:26	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		12/21/20 13:26	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		12/21/20 13:26	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		12/21/20 13:26	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		12/21/20 13:26	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		12/21/20 13:26	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		12/21/20 13:26	74-83-9	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		12/21/20 13:26	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 13:26	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		12/21/20 13:26	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		12/21/20 13:26	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		12/21/20 13:26	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		12/21/20 13:26	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		12/21/20 13:26	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		12/21/20 13:26	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		12/21/20 13:26	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		12/21/20 13:26	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		12/21/20 13:26	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		12/21/20 13:26	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		12/21/20 13:26	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		12/21/20 13:26	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		12/21/20 13:26	91-20-3	
Styrene	**<3.0**	ug/L	10.0	3.0	1		12/21/20 13:26	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		12/21/20 13:26	127-18-4	
Toluene	**<0.27**	ug/L	1.0	0.27	1		12/21/20 13:26	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/21/20 13:26	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		12/21/20 13:26	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		12/21/20 13:26	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		12/21/20 13:26	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		12/21/20 13:26	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		12/21/20 13:26	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 13:26	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		12/21/20 13:26	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		12/21/20 13:26	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		12/21/20 13:26	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		12/21/20 13:26	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		12/21/20 13:26	98-06-6	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		12/21/20 13:26	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		12/21/20 13:26	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		12/21/20 13:26	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		12/21/20 13:26	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		12/21/20 13:26	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: EB-01 **Lab ID: 40219990010** Collected: 12/14/20 16:00 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
	Pace Analytical Services - Green Bay								
Acenaphthene	**<0.0060**	ug/L	0.030	0.0060	1	12/18/20 07:29	12/21/20 09:15	83-32-9	
Acenaphthylene	**<0.0049**	ug/L	0.024	0.0049	1	12/18/20 07:29	12/21/20 09:15	208-96-8	
Anthracene	**<0.010**	ug/L	0.051	0.010	1	12/18/20 07:29	12/21/20 09:15	120-12-7	
Benzo(a)anthracene	**<0.0074**	ug/L	0.037	0.0074	1	12/18/20 07:29	12/21/20 09:15	56-55-3	
Benzo(a)pyrene	**<0.010**	ug/L	0.052	0.010	1	12/18/20 07:29	12/21/20 09:15	50-32-8	
Benzo(b)fluoranthene	**<0.0056**	ug/L	0.028	0.0056	1	12/18/20 07:29	12/21/20 09:15	205-99-2	
Benzo(g,h,i)perylene	**<0.0066**	ug/L	0.033	0.0066	1	12/18/20 07:29	12/21/20 09:15	191-24-2	
Benzo(k)fluoranthene	**<0.0074**	ug/L	0.037	0.0074	1	12/18/20 07:29	12/21/20 09:15	207-08-9	
Chrysene	**<0.013**	ug/L	0.064	0.013	1	12/18/20 07:29	12/21/20 09:15	218-01-9	
Dibenz(a,h)anthracene	**<0.0098**	ug/L	0.049	0.0098	1	12/18/20 07:29	12/21/20 09:15	53-70-3	
Fluoranthene	**<0.010**	ug/L	0.052	0.010	1	12/18/20 07:29	12/21/20 09:15	206-44-0	
Fluorene	**<0.0078**	ug/L	0.039	0.0078	1	12/18/20 07:29	12/21/20 09:15	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.017**	ug/L	0.086	0.017	1	12/18/20 07:29	12/21/20 09:15	193-39-5	
1-Methylnaphthalene	**<0.0058**	ug/L	0.029	0.0058	1	12/18/20 07:29	12/21/20 09:15	90-12-0	
2-Methylnaphthalene	**<0.0048**	ug/L	0.024	0.0048	1	12/18/20 07:29	12/21/20 09:15	91-57-6	
Naphthalene	**<0.018**	ug/L	0.090	0.018	1	12/18/20 07:29	12/21/20 09:15	91-20-3	
Phenanthrene	**<0.014**	ug/L	0.068	0.014	1	12/18/20 07:29	12/21/20 09:15	85-01-8	
Pyrene	**<0.0075**	ug/L	0.038	0.0075	1	12/18/20 07:29	12/21/20 09:15	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	54	%	39-120		1	12/18/20 07:29	12/21/20 09:15	321-60-8	
Terphenyl-d14 (S)	85	%	10-159		1	12/18/20 07:29	12/21/20 09:15	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		12/21/20 10:56	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		12/21/20 10:56	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 10:56	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		12/21/20 10:56	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		12/21/20 10:56	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		12/21/20 10:56	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		12/21/20 10:56	563-58-6	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		12/21/20 10:56	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		12/21/20 10:56	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		12/21/20 10:56	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		12/21/20 10:56	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		12/21/20 10:56	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		12/21/20 10:56	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 10:56	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 10:56	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 10:56	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		12/21/20 10:56	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		12/21/20 10:56	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		12/21/20 10:56	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		12/21/20 10:56	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		12/21/20 10:56	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: EB-01 **Lab ID: 40219990010** Collected: 12/14/20 16:00 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		12/21/20 10:56	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		12/21/20 10:56	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		12/21/20 10:56	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		12/21/20 10:56	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		12/21/20 10:56	74-97-5	
Bromodichloromethane	**0.95J**	ug/L	1.2	0.36	1		12/21/20 10:56	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		12/21/20 10:56	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		12/21/20 10:56	74-83-9	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		12/21/20 10:56	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 10:56	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		12/21/20 10:56	75-00-3	
Chloroform	**1.8J**	ug/L	5.0	1.3	1		12/21/20 10:56	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		12/21/20 10:56	74-87-3	
Dibromochloromethane	**4.7J**	ug/L	8.7	2.6	1		12/21/20 10:56	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		12/21/20 10:56	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		12/21/20 10:56	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		12/21/20 10:56	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		12/21/20 10:56	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		12/21/20 10:56	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		12/21/20 10:56	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		12/21/20 10:56	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		12/21/20 10:56	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		12/21/20 10:56	91-20-3	
Styrene	**<3.0**	ug/L	10.0	3.0	1		12/21/20 10:56	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		12/21/20 10:56	127-18-4	
Toluene	**<0.27**	ug/L	1.0	0.27	1		12/21/20 10:56	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/21/20 10:56	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		12/21/20 10:56	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		12/21/20 10:56	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		12/21/20 10:56	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		12/21/20 10:56	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		12/21/20 10:56	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 10:56	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		12/21/20 10:56	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		12/21/20 10:56	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		12/21/20 10:56	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		12/21/20 10:56	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		12/21/20 10:56	98-06-6	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		12/21/20 10:56	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		12/21/20 10:56	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		12/21/20 10:56	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		12/21/20 10:56	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		12/21/20 10:56	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: W-102S **Lab ID: 40219990011** Collected: 12/15/20 09:15 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510 Pace Analytical Services - Green Bay								
Acenaphthene	**0.0075J**	ug/L	0.030	0.0060	1	12/18/20 07:29	12/21/20 11:45	83-32-9	
Acenaphthylene	**<0.0049**	ug/L	0.025	0.0049	1	12/18/20 07:29	12/21/20 11:45	208-96-8	
Anthracene	**<0.010**	ug/L	0.052	0.010	1	12/18/20 07:29	12/21/20 11:45	120-12-7	
Benzo(a)anthracene	**<0.0075**	ug/L	0.037	0.0075	1	12/18/20 07:29	12/21/20 11:45	56-55-3	
Benzo(a)pyrene	**<0.010**	ug/L	0.052	0.010	1	12/18/20 07:29	12/21/20 11:45	50-32-8	
Benzo(b)fluoranthene	**<0.0057**	ug/L	0.028	0.0057	1	12/18/20 07:29	12/21/20 11:45	205-99-2	
Benzo(g,h,i)perylene	**<0.0067**	ug/L	0.034	0.0067	1	12/18/20 07:29	12/21/20 11:45	191-24-2	
Benzo(k)fluoranthene	**<0.0075**	ug/L	0.037	0.0075	1	12/18/20 07:29	12/21/20 11:45	207-08-9	
Chrysene	**<0.013**	ug/L	0.065	0.013	1	12/18/20 07:29	12/21/20 11:45	218-01-9	
Dibenz(a,h)anthracene	**<0.0099**	ug/L	0.050	0.0099	1	12/18/20 07:29	12/21/20 11:45	53-70-3	
Fluoranthene	**<0.011**	ug/L	0.053	0.011	1	12/18/20 07:29	12/21/20 11:45	206-44-0	
Fluorene	**<0.0079**	ug/L	0.039	0.0079	1	12/18/20 07:29	12/21/20 11:45	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.017**	ug/L	0.087	0.017	1	12/18/20 07:29	12/21/20 11:45	193-39-5	
1-Methylnaphthalene	**<0.0058**	ug/L	0.029	0.0058	1	12/18/20 07:29	12/21/20 11:45	90-12-0	
2-Methylnaphthalene	**<0.0049**	ug/L	0.024	0.0049	1	12/18/20 07:29	12/21/20 11:45	91-57-6	
Naphthalene	**<0.018**	ug/L	0.091	0.018	1	12/18/20 07:29	12/21/20 11:45	91-20-3	
Phenanthrene	**<0.014**	ug/L	0.068	0.014	1	12/18/20 07:29	12/21/20 11:45	85-01-8	
Pyrene	**<0.0076**	ug/L	0.038	0.0076	1	12/18/20 07:29	12/21/20 11:45	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	52	%	39-120		1	12/18/20 07:29	12/21/20 11:45	321-60-8	
Terphenyl-d14 (S)	83	%	10-159		1	12/18/20 07:29	12/21/20 11:45	1718-51-0	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		12/21/20 13:48	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		12/21/20 13:48	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 13:48	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		12/21/20 13:48	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		12/21/20 13:48	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		12/21/20 13:48	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		12/21/20 13:48	563-58-6	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		12/21/20 13:48	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		12/21/20 13:48	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		12/21/20 13:48	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		12/21/20 13:48	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		12/21/20 13:48	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		12/21/20 13:48	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 13:48	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 13:48	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 13:48	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		12/21/20 13:48	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		12/21/20 13:48	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		12/21/20 13:48	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		12/21/20 13:48	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		12/21/20 13:48	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: W-102S **Lab ID: 40219990011** Collected: 12/15/20 09:15 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		12/21/20 13:48	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		12/21/20 13:48	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		12/21/20 13:48	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		12/21/20 13:48	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		12/21/20 13:48	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		12/21/20 13:48	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		12/21/20 13:48	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		12/21/20 13:48	74-83-9	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		12/21/20 13:48	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 13:48	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		12/21/20 13:48	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		12/21/20 13:48	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		12/21/20 13:48	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		12/21/20 13:48	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		12/21/20 13:48	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		12/21/20 13:48	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		12/21/20 13:48	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		12/21/20 13:48	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		12/21/20 13:48	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		12/21/20 13:48	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		12/21/20 13:48	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		12/21/20 13:48	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		12/21/20 13:48	91-20-3	
Styrene	**<3.0**	ug/L	10.0	3.0	1		12/21/20 13:48	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		12/21/20 13:48	127-18-4	
Toluene	**<0.27**	ug/L	1.0	0.27	1		12/21/20 13:48	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/21/20 13:48	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		12/21/20 13:48	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		12/21/20 13:48	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		12/21/20 13:48	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		12/21/20 13:48	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		12/21/20 13:48	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 13:48	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		12/21/20 13:48	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		12/21/20 13:48	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		12/21/20 13:48	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		12/21/20 13:48	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		12/21/20 13:48	98-06-6	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		12/21/20 13:48	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		12/21/20 13:48	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		12/21/20 13:48	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		12/21/20 13:48	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		12/21/20 13:48	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: W-102D **Lab ID: 40219990012** Collected: 12/15/20 09:39 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
	Pace Analytical Services - Green Bay								
Acenaphthene	**10.7**	ug/L	0.32	0.063	10	12/18/20 07:29	12/21/20 13:18	83-32-9	
Acenaphthylene	**0.13J**	ug/L	0.26	0.052	10	12/18/20 07:29	12/21/20 13:18	208-96-8	
Anthracene	**<0.11**	ug/L	0.54	0.11	10	12/18/20 07:29	12/21/20 13:18	120-12-7	
Benzo(a)anthracene	**<0.079**	ug/L	0.39	0.079	10	12/18/20 07:29	12/21/20 13:18	56-55-3	
Benzo(a)pyrene	**<0.11**	ug/L	0.55	0.11	10	12/18/20 07:29	12/21/20 13:18	50-32-8	
Benzo(b)fluoranthene	**<0.060**	ug/L	0.30	0.060	10	12/18/20 07:29	12/21/20 13:18	205-99-2	
Benzo(g,h,i)perylene	**<0.071**	ug/L	0.35	0.071	10	12/18/20 07:29	12/21/20 13:18	191-24-2	
Benzo(k)fluoranthene	**<0.079**	ug/L	0.39	0.079	10	12/18/20 07:29	12/21/20 13:18	207-08-9	
Chrysene	**<0.14**	ug/L	0.68	0.14	10	12/18/20 07:29	12/21/20 13:18	218-01-9	
Dibenz(a,h)anthracene	**<0.10**	ug/L	0.52	0.10	10	12/18/20 07:29	12/21/20 13:18	53-70-3	
Fluoranthene	**<0.11**	ug/L	0.56	0.11	10	12/18/20 07:29	12/21/20 13:18	206-44-0	
Fluorene	**0.41J**	ug/L	0.42	0.083	10	12/18/20 07:29	12/21/20 13:18	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.18**	ug/L	0.92	0.18	10	12/18/20 07:29	12/21/20 13:18	193-39-5	
1-Methylnaphthalene	**43.7**	ug/L	0.31	0.061	10	12/18/20 07:29	12/21/20 13:18	90-12-0	
2-Methylnaphthalene	**<0.051**	ug/L	0.26	0.051	10	12/18/20 07:29	12/21/20 13:18	91-57-6	
Naphthalene	**3.1**	ug/L	0.95	0.19	10	12/18/20 07:29	12/21/20 13:18	91-20-3	
Phenanthrene	**<0.14**	ug/L	0.72	0.14	10	12/18/20 07:29	12/21/20 13:18	85-01-8	
Pyrene	**<0.080**	ug/L	0.40	0.080	10	12/18/20 07:29	12/21/20 13:18	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56	%	39-120		10	12/18/20 07:29	12/21/20 13:18	321-60-8	
Terphenyl-d14 (S)	76	%	10-159		10	12/18/20 07:29	12/21/20 13:18	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<6.7**	ug/L	25.0	6.7	25		12/21/20 18:16	630-20-6	
1,1,1-Trichloroethane	**<6.1**	ug/L	25.0	6.1	25		12/21/20 18:16	71-55-6	
1,1,2,2-Tetrachloroethane	**<6.9**	ug/L	25.0	6.9	25		12/21/20 18:16	79-34-5	
1,1,2-Trichloroethane	**<13.8**	ug/L	125	13.8	25		12/21/20 18:16	79-00-5	
1,1-Dichloroethane	**<6.8**	ug/L	25.0	6.8	25		12/21/20 18:16	75-34-3	
1,1-Dichloroethene	**<6.1**	ug/L	25.0	6.1	25		12/21/20 18:16	75-35-4	
1,1-Dichloropropene	**<13.5**	ug/L	45.0	13.5	25		12/21/20 18:16	563-58-6	
1,2,3-Trichlorobenzene	**<55.3**	ug/L	184	55.3	25		12/21/20 18:16	87-61-6	
1,2,3-Trichloropropane	**<14.8**	ug/L	125	14.8	25		12/21/20 18:16	96-18-4	
1,2,4-Trichlorobenzene	**<23.8**	ug/L	125	23.8	25		12/21/20 18:16	120-82-1	
1,2,4-Trimethylbenzene	**<21.0**	ug/L	70.0	21.0	25		12/21/20 18:16	95-63-6	
1,2-Dibromo-3-chloropropane	**<44.1**	ug/L	147	44.1	25		12/21/20 18:16	96-12-8	
1,2-Dibromoethane (EDB)	**<20.7**	ug/L	69.1	20.7	25		12/21/20 18:16	106-93-4	
1,2-Dichlorobenzene	**<17.6**	ug/L	58.8	17.6	25		12/21/20 18:16	95-50-1	
1,2-Dichloroethane	**<7.0**	ug/L	25.0	7.0	25		12/21/20 18:16	107-06-2	
1,2-Dichloropropane	**<7.1**	ug/L	25.0	7.1	25		12/21/20 18:16	78-87-5	
1,3,5-Trimethylbenzene	**<21.8**	ug/L	72.8	21.8	25		12/21/20 18:16	108-67-8	
1,3-Dichlorobenzene	**<15.7**	ug/L	52.3	15.7	25		12/21/20 18:16	541-73-1	
1,3-Dichloropropane	**<20.6**	ug/L	68.8	20.6	25		12/21/20 18:16	142-28-9	
1,4-Dichlorobenzene	**<23.6**	ug/L	78.6	23.6	25		12/21/20 18:16	106-46-7	
2,2-Dichloropropane	**<56.6**	ug/L	189	56.6	25		12/21/20 18:16	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: W-102D **Lab ID: 40219990012** Collected: 12/15/20 09:39 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
2-Chlorotoluene	**<23.2**	ug/L	125	23.2	25		12/21/20 18:16	95-49-8	
4-Chlorotoluene	**<18.9**	ug/L	63.0	18.9	25		12/21/20 18:16	106-43-4	
Benzene	**866**	ug/L	25.0	6.2	25		12/21/20 18:16	71-43-2	
Bromobenzene	**<6.0**	ug/L	25.0	6.0	25		12/21/20 18:16	108-86-1	
Bromochloromethane	**<9.1**	ug/L	125	9.1	25		12/21/20 18:16	74-97-5	
Bromodichloromethane	**<9.1**	ug/L	30.3	9.1	25		12/21/20 18:16	75-27-4	
Bromoform	**<99.3**	ug/L	331	99.3	25		12/21/20 18:16	75-25-2	
Bromomethane	**<24.3**	ug/L	125	24.3	25		12/21/20 18:16	74-83-9	
Carbon tetrachloride	**<26.9**	ug/L	89.7	26.9	25		12/21/20 18:16	56-23-5	
Chlorobenzene	**<17.8**	ug/L	59.2	17.8	25		12/21/20 18:16	108-90-7	
Chloroethane	**<33.6**	ug/L	125	33.6	25		12/21/20 18:16	75-00-3	
Chloroform	**<31.8**	ug/L	125	31.8	25		12/21/20 18:16	67-66-3	
Chloromethane	**<54.7**	ug/L	182	54.7	25		12/21/20 18:16	74-87-3	
Dibromochloromethane	**<65.0**	ug/L	217	65.0	25		12/21/20 18:16	124-48-1	
Dibromomethane	**<23.4**	ug/L	78.1	23.4	25		12/21/20 18:16	74-95-3	
Dichlorodifluoromethane	**<12.5**	ug/L	125	12.5	25		12/21/20 18:16	75-71-8	
Diisopropyl ether	**<47.2**	ug/L	157	47.2	25		12/21/20 18:16	108-20-3	
Ethylbenzene	**<8.0**	ug/L	26.6	8.0	25		12/21/20 18:16	100-41-4	
Hexachloro-1,3-butadiene	**<36.6**	ug/L	122	36.6	25		12/21/20 18:16	87-68-3	
Isopropylbenzene (Cumene)	**<42.2**	ug/L	140	42.2	25		12/21/20 18:16	98-82-8	
Methyl-tert-butyl ether	**<31.1**	ug/L	104	31.1	25		12/21/20 18:16	1634-04-4	
Methylene Chloride	**<14.5**	ug/L	125	14.5	25		12/21/20 18:16	75-09-2	
Naphthalene	**<29.4**	ug/L	125	29.4	25		12/21/20 18:16	91-20-3	
Styrene	**<75.2**	ug/L	251	75.2	25		12/21/20 18:16	100-42-5	
Tetrachloroethene	**<8.2**	ug/L	27.2	8.2	25		12/21/20 18:16	127-18-4	
Toluene	**<6.7**	ug/L	25.0	6.7	25		12/21/20 18:16	108-88-3	
Trichloroethene	**<6.4**	ug/L	25.0	6.4	25		12/21/20 18:16	79-01-6	
Trichlorofluoromethane	**<5.4**	ug/L	25.0	5.4	25		12/21/20 18:16	75-69-4	
Vinyl chloride	**<4.4**	ug/L	25.0	4.4	25		12/21/20 18:16	75-01-4	
cis-1,2-Dichloroethene	**<6.8**	ug/L	25.0	6.8	25		12/21/20 18:16	156-59-2	
cis-1,3-Dichloropropene	**<90.7**	ug/L	302	90.7	25		12/21/20 18:16	10061-01-5	
m&p-Xylene	**<11.6**	ug/L	50.0	11.6	25		12/21/20 18:16	179601-23-1	
n-Butylbenzene	**<17.7**	ug/L	59.0	17.7	25		12/21/20 18:16	104-51-8	
n-Propylbenzene	**<20.3**	ug/L	125	20.3	25		12/21/20 18:16	103-65-1	
o-Xylene	**<6.5**	ug/L	25.0	6.5	25		12/21/20 18:16	95-47-6	
p-Isopropyltoluene	**<20.0**	ug/L	66.7	20.0	25		12/21/20 18:16	99-87-6	
sec-Butylbenzene	**<21.2**	ug/L	125	21.2	25		12/21/20 18:16	135-98-8	
tert-Butylbenzene	**<7.6**	ug/L	25.3	7.6	25		12/21/20 18:16	98-06-6	
trans-1,2-Dichloroethene	**<11.6**	ug/L	38.7	11.6	25		12/21/20 18:16	156-60-5	
trans-1,3-Dichloropropene	**<109**	ug/L	364	109	25		12/21/20 18:16	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		25		12/21/20 18:16	460-00-4	D3
Dibromofluoromethane (S)	104	%	70-130		25		12/21/20 18:16	1868-53-7	
Toluene-d8 (S)	95	%	70-130		25		12/21/20 18:16	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: W-46D **Lab ID: 40219990013** Collected: 12/15/20 10:20 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
	Pace Analytical Services - Green Bay								
Acenaphthene	**0.96**	ug/L	0.038	0.0077	1	12/18/20 07:29	12/21/20 13:55	83-32-9	
Acenaphthylene	**0.0071J**	ug/L	0.032	0.0063	1	12/18/20 07:29	12/21/20 13:55	208-96-8	
Anthracene	**<0.013**	ug/L	0.066	0.013	1	12/18/20 07:29	12/21/20 13:55	120-12-7	
Benzo(a)anthracene	**<0.0096**	ug/L	0.048	0.0096	1	12/18/20 07:29	12/21/20 13:55	56-55-3	
Benzo(a)pyrene	**<0.013**	ug/L	0.067	0.013	1	12/18/20 07:29	12/21/20 13:55	50-32-8	
Benzo(b)fluoranthene	**<0.0073**	ug/L	0.036	0.0073	1	12/18/20 07:29	12/21/20 13:55	205-99-2	
Benzo(g,h,i)perylene	**<0.0086**	ug/L	0.043	0.0086	1	12/18/20 07:29	12/21/20 13:55	191-24-2	
Benzo(k)fluoranthene	**<0.0096**	ug/L	0.048	0.0096	1	12/18/20 07:29	12/21/20 13:55	207-08-9	
Chrysene	**<0.017**	ug/L	0.083	0.017	1	12/18/20 07:29	12/21/20 13:55	218-01-9	
Dibenz(a,h)anthracene	**<0.013**	ug/L	0.063	0.013	1	12/18/20 07:29	12/21/20 13:55	53-70-3	
Fluoranthene	**<0.014**	ug/L	0.068	0.014	1	12/18/20 07:29	12/21/20 13:55	206-44-0	
Fluorene	**<0.010**	ug/L	0.050	0.010	1	12/18/20 07:29	12/21/20 13:55	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.022**	ug/L	0.11	0.022	1	12/18/20 07:29	12/21/20 13:55	193-39-5	
1-Methylnaphthalene	**0.49**	ug/L	0.037	0.0075	1	12/18/20 07:29	12/21/20 13:55	90-12-0	
2-Methylnaphthalene	**0.041**	ug/L	0.031	0.0062	1	12/18/20 07:29	12/21/20 13:55	91-57-6	
Naphthalene	**0.11J**	ug/L	0.12	0.023	1	12/18/20 07:29	12/21/20 13:55	91-20-3	
Phenanthrene	**<0.017**	ug/L	0.087	0.017	1	12/18/20 07:29	12/21/20 13:55	85-01-8	
Pyrene	**<0.0097**	ug/L	0.048	0.0097	1	12/18/20 07:29	12/21/20 13:55	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	53	%	39-120		1	12/18/20 07:29	12/21/20 13:55	321-60-8	
Terphenyl-d14 (S)	91	%	10-159		1	12/18/20 07:29	12/21/20 13:55	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<1.3**	ug/L	5.0	1.3	5		12/22/20 07:26	630-20-6	
1,1,1-Trichloroethane	**<1.2**	ug/L	5.0	1.2	5		12/22/20 07:26	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.4**	ug/L	5.0	1.4	5		12/22/20 07:26	79-34-5	
1,1,2-Trichloroethane	**<2.8**	ug/L	25.0	2.8	5		12/22/20 07:26	79-00-5	
1,1-Dichloroethane	**<1.4**	ug/L	5.0	1.4	5		12/22/20 07:26	75-34-3	
1,1-Dichloroethene	**<1.2**	ug/L	5.0	1.2	5		12/22/20 07:26	75-35-4	
1,1-Dichloropropene	**<2.7**	ug/L	9.0	2.7	5		12/22/20 07:26	563-58-6	
1,2,3-Trichlorobenzene	**<11.1**	ug/L	36.8	11.1	5		12/22/20 07:26	87-61-6	
1,2,3-Trichloropropane	**<3.0**	ug/L	25.0	3.0	5		12/22/20 07:26	96-18-4	
1,2,4-Trichlorobenzene	**<4.8**	ug/L	25.0	4.8	5		12/22/20 07:26	120-82-1	
1,2,4-Trimethylbenzene	**<4.2**	ug/L	14.0	4.2	5		12/22/20 07:26	95-63-6	
1,2-Dibromo-3-chloropropane	**<8.8**	ug/L	29.4	8.8	5		12/22/20 07:26	96-12-8	
1,2-Dibromoethane (EDB)	**<4.1**	ug/L	13.8	4.1	5		12/22/20 07:26	106-93-4	
1,2-Dichlorobenzene	**<3.5**	ug/L	11.8	3.5	5		12/22/20 07:26	95-50-1	
1,2-Dichloroethane	**<1.4**	ug/L	5.0	1.4	5		12/22/20 07:26	107-06-2	
1,2-Dichloropropane	**<1.4**	ug/L	5.0	1.4	5		12/22/20 07:26	78-87-5	
1,3,5-Trimethylbenzene	**<4.4**	ug/L	14.6	4.4	5		12/22/20 07:26	108-67-8	
1,3-Dichlorobenzene	**<3.1**	ug/L	10.5	3.1	5		12/22/20 07:26	541-73-1	
1,3-Dichloropropane	**<4.1**	ug/L	13.8	4.1	5		12/22/20 07:26	142-28-9	
1,4-Dichlorobenzene	**<4.7**	ug/L	15.7	4.7	5		12/22/20 07:26	106-46-7	
2,2-Dichloropropane	**<11.3**	ug/L	37.8	11.3	5		12/22/20 07:26	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: W-46D **Lab ID: 40219990013** Collected: 12/15/20 10:20 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
2-Chlorotoluene	**<4.6**	ug/L	25.0	4.6	5		12/22/20 07:26	95-49-8	
4-Chlorotoluene	**<3.8**	ug/L	12.6	3.8	5		12/22/20 07:26	106-43-4	
Benzene	**41.6**	ug/L	5.0	1.2	5		12/22/20 07:26	71-43-2	
Bromobenzene	**<1.2**	ug/L	5.0	1.2	5		12/22/20 07:26	108-86-1	
Bromochloromethane	**<1.8**	ug/L	25.0	1.8	5		12/22/20 07:26	74-97-5	
Bromodichloromethane	**<1.8**	ug/L	6.1	1.8	5		12/22/20 07:26	75-27-4	
Bromoform	**<19.9**	ug/L	66.2	19.9	5		12/22/20 07:26	75-25-2	
Bromomethane	**<4.9**	ug/L	25.0	4.9	5		12/22/20 07:26	74-83-9	
Carbon tetrachloride	**<5.4**	ug/L	17.9	5.4	5		12/22/20 07:26	56-23-5	
Chlorobenzene	**<3.6**	ug/L	11.8	3.6	5		12/22/20 07:26	108-90-7	
Chloroethane	**<6.7**	ug/L	25.0	6.7	5		12/22/20 07:26	75-00-3	
Chloroform	**<6.4**	ug/L	25.0	6.4	5		12/22/20 07:26	67-66-3	
Chloromethane	**<10.9**	ug/L	36.5	10.9	5		12/22/20 07:26	74-87-3	
Dibromochloromethane	**<13.0**	ug/L	43.4	13.0	5		12/22/20 07:26	124-48-1	
Dibromomethane	**<4.7**	ug/L	15.6	4.7	5		12/22/20 07:26	74-95-3	
Dichlorodifluoromethane	**<2.5**	ug/L	25.0	2.5	5		12/22/20 07:26	75-71-8	
Diisopropyl ether	**<9.4**	ug/L	31.5	9.4	5		12/22/20 07:26	108-20-3	
Ethylbenzene	**<1.6**	ug/L	5.3	1.6	5		12/22/20 07:26	100-41-4	
Hexachloro-1,3-butadiene	**<7.3**	ug/L	24.4	7.3	5		12/22/20 07:26	87-68-3	
Isopropylbenzene (Cumene)	**12.8J**	ug/L	28.1	8.4	5		12/22/20 07:26	98-82-8	
Methyl-tert-butyl ether	**<6.2**	ug/L	20.8	6.2	5		12/22/20 07:26	1634-04-4	
Methylene Chloride	**<2.9**	ug/L	25.0	2.9	5		12/22/20 07:26	75-09-2	
Naphthalene	**<5.9**	ug/L	25.0	5.9	5		12/22/20 07:26	91-20-3	
Styrene	**<15.0**	ug/L	50.2	15.0	5		12/22/20 07:26	100-42-5	
Tetrachloroethene	**<1.6**	ug/L	5.4	1.6	5		12/22/20 07:26	127-18-4	
Toluene	**<1.3**	ug/L	5.0	1.3	5		12/22/20 07:26	108-88-3	
Trichloroethene	**<1.3**	ug/L	5.0	1.3	5		12/22/20 07:26	79-01-6	
Trichlorofluoromethane	**<1.1**	ug/L	5.0	1.1	5		12/22/20 07:26	75-69-4	
Vinyl chloride	**<0.87**	ug/L	5.0	0.87	5		12/22/20 07:26	75-01-4	
cis-1,2-Dichloroethene	**<1.4**	ug/L	5.0	1.4	5		12/22/20 07:26	156-59-2	
cis-1,3-Dichloropropene	**<18.1**	ug/L	60.5	18.1	5		12/22/20 07:26	10061-01-5	
m&p-Xylene	**<2.3**	ug/L	10.0	2.3	5		12/22/20 07:26	179601-23-1	
n-Butylbenzene	**<3.5**	ug/L	11.8	3.5	5		12/22/20 07:26	104-51-8	
n-Propylbenzene	**<4.1**	ug/L	25.0	4.1	5		12/22/20 07:26	103-65-1	
o-Xylene	**<1.3**	ug/L	5.0	1.3	5		12/22/20 07:26	95-47-6	
p-Isopropyltoluene	**<4.0**	ug/L	13.3	4.0	5		12/22/20 07:26	99-87-6	
sec-Butylbenzene	**<4.2**	ug/L	25.0	4.2	5		12/22/20 07:26	135-98-8	
tert-Butylbenzene	**<1.5**	ug/L	5.1	1.5	5		12/22/20 07:26	98-06-6	
trans-1,2-Dichloroethene	**<2.3**	ug/L	7.7	2.3	5		12/22/20 07:26	156-60-5	
trans-1,3-Dichloropropene	**<21.9**	ug/L	72.8	21.9	5		12/22/20 07:26	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		5		12/22/20 07:26	460-00-4	D3
Dibromofluoromethane (S)	98	%	70-130		5		12/22/20 07:26	1868-53-7	
Toluene-d8 (S)	109	%	70-130		5		12/22/20 07:26	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: W-103S **Lab ID: 40219990014** Collected: 12/15/20 11:36 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
	Pace Analytical Services - Green Bay								
Acenaphthene	**131**	ug/L	1.2	0.25	40	12/21/20 15:13	12/22/20 18:08	83-32-9	
Acenaphthylene	**1.1**	ug/L	1.0	0.20	40	12/21/20 15:13	12/22/20 18:08	208-96-8	
Anthracene	**<0.43**	ug/L	2.1	0.43	40	12/21/20 15:13	12/22/20 18:08	120-12-7	
Benzo(a)anthracene	**<0.31**	ug/L	1.5	0.31	40	12/21/20 15:13	12/22/20 18:08	56-55-3	
Benzo(a)pyrene	**<0.43**	ug/L	2.1	0.43	40	12/21/20 15:13	12/22/20 18:08	50-32-8	
Benzo(b)fluoranthene	**<0.23**	ug/L	1.2	0.23	40	12/21/20 15:13	12/22/20 18:08	205-99-2	
Benzo(g,h,i)perylene	**<0.28**	ug/L	1.4	0.28	40	12/21/20 15:13	12/22/20 18:08	191-24-2	L1
Benzo(k)fluoranthene	**<0.31**	ug/L	1.5	0.31	40	12/21/20 15:13	12/22/20 18:08	207-08-9	
Chrysene	**<0.53**	ug/L	2.7	0.53	40	12/21/20 15:13	12/22/20 18:08	218-01-9	
Dibenz(a,h)anthracene	**<0.41**	ug/L	2.0	0.41	40	12/21/20 15:13	12/22/20 18:08	53-70-3	L1
Fluoranthene	**2.5**	ug/L	2.2	0.44	40	12/21/20 15:13	12/22/20 18:08	206-44-0	
Fluorene	**1.0J**	ug/L	1.6	0.33	40	12/21/20 15:13	12/22/20 18:08	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.72**	ug/L	3.6	0.72	40	12/21/20 15:13	12/22/20 18:08	193-39-5	
1-Methylnaphthalene	**4.8**	ug/L	1.2	0.24	40	12/21/20 15:13	12/22/20 18:08	90-12-0	
2-Methylnaphthalene	**<0.20**	ug/L	1.0	0.20	40	12/21/20 15:13	12/22/20 18:08	91-57-6	
Naphthalene	**2.6J**	ug/L	3.7	0.75	40	12/21/20 15:13	12/22/20 18:08	91-20-3	
Phenanthrene	**<0.56**	ug/L	2.8	0.56	40	12/21/20 15:13	12/22/20 18:08	85-01-8	
Pyrene	**4.7**	ug/L	1.6	0.31	40	12/21/20 15:13	12/22/20 18:08	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	0	%	39-120		40	12/21/20 15:13	12/22/20 18:08	321-60-8	S4
Terphenyl-d14 (S)	0	%	10-159		40	12/21/20 15:13	12/22/20 18:08	1718-51-0	S4
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		12/21/20 14:09	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		12/21/20 14:09	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 14:09	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		12/21/20 14:09	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		12/21/20 14:09	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		12/21/20 14:09	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		12/21/20 14:09	563-58-6	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		12/21/20 14:09	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		12/21/20 14:09	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		12/21/20 14:09	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		12/21/20 14:09	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		12/21/20 14:09	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		12/21/20 14:09	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 14:09	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 14:09	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 14:09	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		12/21/20 14:09	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		12/21/20 14:09	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		12/21/20 14:09	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		12/21/20 14:09	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		12/21/20 14:09	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: W-103S **Lab ID: 40219990014** Collected: 12/15/20 11:36 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		12/21/20 14:09	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		12/21/20 14:09	106-43-4	
Benzene	**16.3**	ug/L	1.0	0.25	1		12/21/20 14:09	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		12/21/20 14:09	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		12/21/20 14:09	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		12/21/20 14:09	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		12/21/20 14:09	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		12/21/20 14:09	74-83-9	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		12/21/20 14:09	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 14:09	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		12/21/20 14:09	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		12/21/20 14:09	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		12/21/20 14:09	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		12/21/20 14:09	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		12/21/20 14:09	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		12/21/20 14:09	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		12/21/20 14:09	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		12/21/20 14:09	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		12/21/20 14:09	87-68-3	
Isopropylbenzene (Cumene)	**5.3J**	ug/L	5.6	1.7	1		12/21/20 14:09	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		12/21/20 14:09	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		12/21/20 14:09	75-09-2	
Naphthalene	**6.9**	ug/L	5.0	1.2	1		12/21/20 14:09	91-20-3	
Styrene	**<3.0**	ug/L	10.0	3.0	1		12/21/20 14:09	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		12/21/20 14:09	127-18-4	
Toluene	**0.84J**	ug/L	1.0	0.27	1		12/21/20 14:09	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/21/20 14:09	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		12/21/20 14:09	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		12/21/20 14:09	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		12/21/20 14:09	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		12/21/20 14:09	10061-01-5	
m&p-Xylene	**7.6**	ug/L	2.0	0.47	1		12/21/20 14:09	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 14:09	104-51-8	
n-Propylbenzene	**1.6J**	ug/L	5.0	0.81	1		12/21/20 14:09	103-65-1	
o-Xylene	**8.3**	ug/L	1.0	0.26	1		12/21/20 14:09	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		12/21/20 14:09	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		12/21/20 14:09	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		12/21/20 14:09	98-06-6	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		12/21/20 14:09	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		12/21/20 14:09	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		12/21/20 14:09	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		12/21/20 14:09	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		12/21/20 14:09	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: W-103DL **Lab ID: 40219990015** Collected: 12/15/20 12:17 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
	Pace Analytical Services - Green Bay								
Acenaphthene	**0.28**	ug/L	0.034	0.0069	1	12/21/20 15:13	12/22/20 15:58	83-32-9	
Acenaphthylene	**0.011J**	ug/L	0.028	0.0057	1	12/21/20 15:13	12/22/20 15:58	208-96-8	
Anthracene	**0.052J**	ug/L	0.059	0.012	1	12/21/20 15:13	12/22/20 15:58	120-12-7	
Benzo(a)anthracene	**0.022J**	ug/L	0.043	0.0086	1	12/21/20 15:13	12/22/20 15:58	56-55-3	
Benzo(a)pyrene	**<0.012**	ug/L	0.060	0.012	1	12/21/20 15:13	12/22/20 15:58	50-32-8	
Benzo(b)fluoranthene	**0.016J**	ug/L	0.033	0.0065	1	12/21/20 15:13	12/22/20 15:58	205-99-2	B
Benzo(g,h,i)perylene	**<0.0077**	ug/L	0.039	0.0077	1	12/21/20 15:13	12/22/20 15:58	191-24-2	L1
Benzo(k)fluoranthene	**<0.0086**	ug/L	0.043	0.0086	1	12/21/20 15:13	12/22/20 15:58	207-08-9	
Chrysene	**0.032J**	ug/L	0.074	0.015	1	12/21/20 15:13	12/22/20 15:58	218-01-9	
Dibenz(a,h)anthracene	**<0.011**	ug/L	0.057	0.011	1	12/21/20 15:13	12/22/20 15:58	53-70-3	L1
Fluoranthene	**0.17**	ug/L	0.061	0.012	1	12/21/20 15:13	12/22/20 15:58	206-44-0	
Fluorene	**0.055**	ug/L	0.045	0.0091	1	12/21/20 15:13	12/22/20 15:58	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.020**	ug/L	0.10	0.020	1	12/21/20 15:13	12/22/20 15:58	193-39-5	
1-Methylnaphthalene	**0.28**	ug/L	0.034	0.0067	1	12/21/20 15:13	12/22/20 15:58	90-12-0	
2-Methylnaphthalene	**0.33**	ug/L	0.028	0.0056	1	12/21/20 15:13	12/22/20 15:58	91-57-6	
Naphthalene	**0.80**	ug/L	0.10	0.021	1	12/21/20 15:13	12/22/20 15:58	91-20-3	
Phenanthrene	**0.23**	ug/L	0.078	0.016	1	12/21/20 15:13	12/22/20 15:58	85-01-8	
Pyrene	**0.17**	ug/L	0.043	0.0087	1	12/21/20 15:13	12/22/20 15:58	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	54	%	39-120		1	12/21/20 15:13	12/22/20 15:58	321-60-8	
Terphenyl-d14 (S)	87	%	10-159		1	12/21/20 15:13	12/22/20 15:58	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		12/21/20 14:30	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		12/21/20 14:30	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 14:30	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		12/21/20 14:30	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		12/21/20 14:30	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		12/21/20 14:30	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		12/21/20 14:30	563-58-6	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		12/21/20 14:30	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		12/21/20 14:30	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		12/21/20 14:30	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		12/21/20 14:30	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		12/21/20 14:30	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		12/21/20 14:30	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 14:30	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 14:30	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 14:30	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		12/21/20 14:30	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		12/21/20 14:30	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		12/21/20 14:30	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		12/21/20 14:30	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		12/21/20 14:30	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: W-103DL **Lab ID: 40219990015** Collected: 12/15/20 12:17 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		12/21/20 14:30	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		12/21/20 14:30	106-43-4	
Benzene	**5.5**	ug/L	1.0	0.25	1		12/21/20 14:30	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		12/21/20 14:30	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		12/21/20 14:30	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		12/21/20 14:30	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		12/21/20 14:30	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		12/21/20 14:30	74-83-9	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		12/21/20 14:30	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 14:30	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		12/21/20 14:30	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		12/21/20 14:30	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		12/21/20 14:30	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		12/21/20 14:30	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		12/21/20 14:30	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		12/21/20 14:30	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		12/21/20 14:30	108-20-3	
Ethylbenzene	**0.32J**	ug/L	1.1	0.32	1		12/21/20 14:30	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		12/21/20 14:30	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		12/21/20 14:30	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		12/21/20 14:30	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		12/21/20 14:30	75-09-2	
Naphthalene	**1.6J**	ug/L	5.0	1.2	1		12/21/20 14:30	91-20-3	
Styrene	**<3.0**	ug/L	10.0	3.0	1		12/21/20 14:30	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		12/21/20 14:30	127-18-4	
Toluene	**<0.27**	ug/L	1.0	0.27	1		12/21/20 14:30	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/21/20 14:30	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		12/21/20 14:30	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		12/21/20 14:30	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		12/21/20 14:30	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		12/21/20 14:30	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		12/21/20 14:30	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 14:30	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		12/21/20 14:30	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		12/21/20 14:30	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		12/21/20 14:30	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		12/21/20 14:30	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		12/21/20 14:30	98-06-6	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		12/21/20 14:30	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		12/21/20 14:30	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		12/21/20 14:30	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		12/21/20 14:30	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		12/21/20 14:30	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: DUP-02 **Lab ID: 40219990016** Collected: 12/15/20 12:22 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
	Pace Analytical Services - Green Bay								
Acenaphthene	**0.26**	ug/L	0.030	0.0061	1	12/21/20 15:13	12/22/20 16:16	83-32-9	
Acenaphthylene	**0.011J**	ug/L	0.025	0.0050	1	12/21/20 15:13	12/22/20 16:16	208-96-8	
Anthracene	**0.055**	ug/L	0.052	0.010	1	12/21/20 15:13	12/22/20 16:16	120-12-7	
Benzo(a)anthracene	**0.019J**	ug/L	0.038	0.0076	1	12/21/20 15:13	12/22/20 16:16	56-55-3	B
Benzo(a)pyrene	**<0.011**	ug/L	0.053	0.011	1	12/21/20 15:13	12/22/20 16:16	50-32-8	
Benzo(b)fluoranthene	**0.016J**	ug/L	0.029	0.0057	1	12/21/20 15:13	12/22/20 16:16	205-99-2	B
Benzo(g,h,i)perylene	**<0.0068**	ug/L	0.034	0.0068	1	12/21/20 15:13	12/22/20 16:16	191-24-2	L1
Benzo(k)fluoranthene	**<0.0076**	ug/L	0.038	0.0076	1	12/21/20 15:13	12/22/20 16:16	207-08-9	
Chrysene	**0.027J**	ug/L	0.065	0.013	1	12/21/20 15:13	12/22/20 16:16	218-01-9	
Dibenz(a,h)anthracene	**<0.010**	ug/L	0.050	0.010	1	12/21/20 15:13	12/22/20 16:16	53-70-3	L1
Fluoranthene	**0.15**	ug/L	0.053	0.011	1	12/21/20 15:13	12/22/20 16:16	206-44-0	
Fluorene	**0.075**	ug/L	0.040	0.0080	1	12/21/20 15:13	12/22/20 16:16	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.018**	ug/L	0.088	0.018	1	12/21/20 15:13	12/22/20 16:16	193-39-5	
1-Methylnaphthalene	**0.28**	ug/L	0.030	0.0059	1	12/21/20 15:13	12/22/20 16:16	90-12-0	
2-Methylnaphthalene	**0.34**	ug/L	0.024	0.0049	1	12/21/20 15:13	12/22/20 16:16	91-57-6	
Naphthalene	**0.84**	ug/L	0.092	0.018	1	12/21/20 15:13	12/22/20 16:16	91-20-3	
Phenanthrene	**0.23**	ug/L	0.069	0.014	1	12/21/20 15:13	12/22/20 16:16	85-01-8	
Pyrene	**0.16**	ug/L	0.038	0.0076	1	12/21/20 15:13	12/22/20 16:16	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56	%	39-120		1	12/21/20 15:13	12/22/20 16:16	321-60-8	
Terphenyl-d14 (S)	85	%	10-159		1	12/21/20 15:13	12/22/20 16:16	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		12/21/20 14:52	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		12/21/20 14:52	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 14:52	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		12/21/20 14:52	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		12/21/20 14:52	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		12/21/20 14:52	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		12/21/20 14:52	563-58-6	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		12/21/20 14:52	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		12/21/20 14:52	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		12/21/20 14:52	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		12/21/20 14:52	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		12/21/20 14:52	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		12/21/20 14:52	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 14:52	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 14:52	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 14:52	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		12/21/20 14:52	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		12/21/20 14:52	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		12/21/20 14:52	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		12/21/20 14:52	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		12/21/20 14:52	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: DUP-02 **Lab ID: 40219990016** Collected: 12/15/20 12:22 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		12/21/20 14:52	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		12/21/20 14:52	106-43-4	
Benzene	**5.2**	ug/L	1.0	0.25	1		12/21/20 14:52	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		12/21/20 14:52	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		12/21/20 14:52	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		12/21/20 14:52	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		12/21/20 14:52	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		12/21/20 14:52	74-83-9	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		12/21/20 14:52	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 14:52	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		12/21/20 14:52	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		12/21/20 14:52	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		12/21/20 14:52	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		12/21/20 14:52	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		12/21/20 14:52	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		12/21/20 14:52	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		12/21/20 14:52	108-20-3	
Ethylbenzene	**0.35J**	ug/L	1.1	0.32	1		12/21/20 14:52	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		12/21/20 14:52	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		12/21/20 14:52	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		12/21/20 14:52	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		12/21/20 14:52	75-09-2	
Naphthalene	**1.6J**	ug/L	5.0	1.2	1		12/21/20 14:52	91-20-3	
Styrene	**<3.0**	ug/L	10.0	3.0	1		12/21/20 14:52	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		12/21/20 14:52	127-18-4	
Toluene	**<0.27**	ug/L	1.0	0.27	1		12/21/20 14:52	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/21/20 14:52	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		12/21/20 14:52	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		12/21/20 14:52	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		12/21/20 14:52	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		12/21/20 14:52	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		12/21/20 14:52	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 14:52	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		12/21/20 14:52	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		12/21/20 14:52	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		12/21/20 14:52	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		12/21/20 14:52	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		12/21/20 14:52	98-06-6	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		12/21/20 14:52	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		12/21/20 14:52	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		12/21/20 14:52	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		12/21/20 14:52	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		12/21/20 14:52	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: W-104S **Lab ID: 40219990017** Collected: 12/15/20 13:01 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
	Pace Analytical Services - Green Bay								
Acenaphthene	**<0.0065**	ug/L	0.033	0.0065	1	12/21/20 15:13	12/22/20 16:35	83-32-9	
Acenaphthylene	**0.018J**	ug/L	0.027	0.0054	1	12/21/20 15:13	12/22/20 16:35	208-96-8	
Anthracene	**0.063**	ug/L	0.056	0.011	1	12/21/20 15:13	12/22/20 16:35	120-12-7	
Benzo(a)anthracene	**0.067**	ug/L	0.041	0.0081	1	12/21/20 15:13	12/22/20 16:35	56-55-3	B
Benzo(a)pyrene	**0.043J**	ug/L	0.057	0.011	1	12/21/20 15:13	12/22/20 16:35	50-32-8	
Benzo(b)fluoranthene	**0.075**	ug/L	0.031	0.0062	1	12/21/20 15:13	12/22/20 16:35	205-99-2	B
Benzo(g,h,i)perylene	**0.042**	ug/L	0.036	0.0073	1	12/21/20 15:13	12/22/20 16:35	191-24-2	B,L1
Benzo(k)fluoranthene	**0.032J**	ug/L	0.041	0.0081	1	12/21/20 15:13	12/22/20 16:35	207-08-9	
Chrysene	**0.11**	ug/L	0.070	0.014	1	12/21/20 15:13	12/22/20 16:35	218-01-9	
Dibenz(a,h)anthracene	**<0.011**	ug/L	0.054	0.011	1	12/21/20 15:13	12/22/20 16:35	53-70-3	L1
Fluoranthene	**0.18**	ug/L	0.057	0.011	1	12/21/20 15:13	12/22/20 16:35	206-44-0	
Fluorene	**<0.0086**	ug/L	0.043	0.0086	1	12/21/20 15:13	12/22/20 16:35	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.029J**	ug/L	0.095	0.019	1	12/21/20 15:13	12/22/20 16:35	193-39-5	
1-Methylnaphthalene	**<0.0063**	ug/L	0.032	0.0063	1	12/21/20 15:13	12/22/20 16:35	90-12-0	
2-Methylnaphthalene	**<0.0053**	ug/L	0.026	0.0053	1	12/21/20 15:13	12/22/20 16:35	91-57-6	
Naphthalene	**<0.020**	ug/L	0.099	0.020	1	12/21/20 15:13	12/22/20 16:35	91-20-3	
Phenanthrene	**0.063J**	ug/L	0.074	0.015	1	12/21/20 15:13	12/22/20 16:35	85-01-8	
Pyrene	**0.18**	ug/L	0.041	0.0082	1	12/21/20 15:13	12/22/20 16:35	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	55	%	39-120		1	12/21/20 15:13	12/22/20 16:35	321-60-8	
Terphenyl-d14 (S)	71	%	10-159		1	12/21/20 15:13	12/22/20 16:35	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		12/21/20 15:13	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		12/21/20 15:13	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 15:13	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		12/21/20 15:13	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		12/21/20 15:13	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		12/21/20 15:13	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		12/21/20 15:13	563-58-6	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		12/21/20 15:13	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		12/21/20 15:13	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		12/21/20 15:13	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		12/21/20 15:13	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		12/21/20 15:13	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		12/21/20 15:13	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 15:13	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 15:13	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 15:13	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		12/21/20 15:13	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		12/21/20 15:13	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		12/21/20 15:13	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		12/21/20 15:13	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		12/21/20 15:13	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: W-104S **Lab ID: 40219990017** Collected: 12/15/20 13:01 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		12/21/20 15:13	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		12/21/20 15:13	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		12/21/20 15:13	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		12/21/20 15:13	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		12/21/20 15:13	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		12/21/20 15:13	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		12/21/20 15:13	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		12/21/20 15:13	74-83-9	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		12/21/20 15:13	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 15:13	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		12/21/20 15:13	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		12/21/20 15:13	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		12/21/20 15:13	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		12/21/20 15:13	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		12/21/20 15:13	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		12/21/20 15:13	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		12/21/20 15:13	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		12/21/20 15:13	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		12/21/20 15:13	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		12/21/20 15:13	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		12/21/20 15:13	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		12/21/20 15:13	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		12/21/20 15:13	91-20-3	
Styrene	**<3.0**	ug/L	10.0	3.0	1		12/21/20 15:13	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		12/21/20 15:13	127-18-4	
Toluene	**<0.27**	ug/L	1.0	0.27	1		12/21/20 15:13	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/21/20 15:13	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		12/21/20 15:13	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		12/21/20 15:13	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		12/21/20 15:13	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		12/21/20 15:13	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		12/21/20 15:13	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 15:13	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		12/21/20 15:13	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		12/21/20 15:13	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		12/21/20 15:13	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		12/21/20 15:13	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		12/21/20 15:13	98-06-6	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		12/21/20 15:13	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		12/21/20 15:13	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		12/21/20 15:13	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		12/21/20 15:13	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		12/21/20 15:13	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: W-104DL **Lab ID: 40219990018** Collected: 12/15/20 13:32 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
	Pace Analytical Services - Green Bay								
Acenaphthene	**7.0**	ug/L	1.5	0.31	50	12/21/20 15:13	12/22/20 18:27	83-32-9	
Acenaphthylene	**0.45J**	ug/L	1.3	0.25	50	12/21/20 15:13	12/22/20 18:27	208-96-8	
Anthracene	**0.80J**	ug/L	2.7	0.53	50	12/21/20 15:13	12/22/20 18:27	120-12-7	
Benzo(a)anthracene	**<0.39**	ug/L	1.9	0.39	50	12/21/20 15:13	12/22/20 18:27	56-55-3	
Benzo(a)pyrene	**<0.54**	ug/L	2.7	0.54	50	12/21/20 15:13	12/22/20 18:27	50-32-8	
Benzo(b)fluoranthene	**<0.29**	ug/L	1.5	0.29	50	12/21/20 15:13	12/22/20 18:27	205-99-2	
Benzo(g,h,i)perylene	**<0.35**	ug/L	1.7	0.35	50	12/21/20 15:13	12/22/20 18:27	191-24-2	L1
Benzo(k)fluoranthene	**<0.39**	ug/L	1.9	0.39	50	12/21/20 15:13	12/22/20 18:27	207-08-9	
Chrysene	**<0.67**	ug/L	3.3	0.67	50	12/21/20 15:13	12/22/20 18:27	218-01-9	
Dibenz(a,h)anthracene	**<0.51**	ug/L	2.6	0.51	50	12/21/20 15:13	12/22/20 18:27	53-70-3	L1
Fluoranthene	**<0.54**	ug/L	2.7	0.54	50	12/21/20 15:13	12/22/20 18:27	206-44-0	
Fluorene	**1.7J**	ug/L	2.0	0.41	50	12/21/20 15:13	12/22/20 18:27	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.90**	ug/L	4.5	0.90	50	12/21/20 15:13	12/22/20 18:27	193-39-5	
1-Methylnaphthalene	**30.0**	ug/L	1.5	0.30	50	12/21/20 15:13	12/22/20 18:27	90-12-0	
2-Methylnaphthalene	**30.3**	ug/L	1.2	0.25	50	12/21/20 15:13	12/22/20 18:27	91-57-6	
Naphthalene	**340**	ug/L	4.7	0.94	50	12/21/20 15:13	12/22/20 18:27	91-20-3	
Phenanthrene	**1.8J**	ug/L	3.5	0.70	50	12/21/20 15:13	12/22/20 18:27	85-01-8	
Pyrene	**1.1J**	ug/L	2.0	0.39	50	12/21/20 15:13	12/22/20 18:27	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	0	%	39-120		50	12/21/20 15:13	12/22/20 18:27	321-60-8	S4
Terphenyl-d14 (S)	0	%	10-159		50	12/21/20 15:13	12/22/20 18:27	1718-51-0	S4
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<1.3**	ug/L	5.0	1.3	5		12/22/20 08:09	630-20-6	
1,1,1-Trichloroethane	**<1.2**	ug/L	5.0	1.2	5		12/22/20 08:09	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.4**	ug/L	5.0	1.4	5		12/22/20 08:09	79-34-5	
1,1,2-Trichloroethane	**<2.8**	ug/L	25.0	2.8	5		12/22/20 08:09	79-00-5	
1,1-Dichloroethane	**<1.4**	ug/L	5.0	1.4	5		12/22/20 08:09	75-34-3	
1,1-Dichloroethene	**<1.2**	ug/L	5.0	1.2	5		12/22/20 08:09	75-35-4	
1,1-Dichloropropene	**<2.7**	ug/L	9.0	2.7	5		12/22/20 08:09	563-58-6	
1,2,3-Trichlorobenzene	**<11.1**	ug/L	36.8	11.1	5		12/22/20 08:09	87-61-6	
1,2,3-Trichloropropane	**<3.0**	ug/L	25.0	3.0	5		12/22/20 08:09	96-18-4	
1,2,4-Trichlorobenzene	**<4.8**	ug/L	25.0	4.8	5		12/22/20 08:09	120-82-1	
1,2,4-Trimethylbenzene	**42.2**	ug/L	14.0	4.2	5		12/22/20 08:09	95-63-6	
1,2-Dibromo-3-chloropropane	**<8.8**	ug/L	29.4	8.8	5		12/22/20 08:09	96-12-8	
1,2-Dibromoethane (EDB)	**<4.1**	ug/L	13.8	4.1	5		12/22/20 08:09	106-93-4	
1,2-Dichlorobenzene	**<3.5**	ug/L	11.8	3.5	5		12/22/20 08:09	95-50-1	
1,2-Dichloroethane	**<1.4**	ug/L	5.0	1.4	5		12/22/20 08:09	107-06-2	
1,2-Dichloropropane	**<1.4**	ug/L	5.0	1.4	5		12/22/20 08:09	78-87-5	
1,3,5-Trimethylbenzene	**11.1J**	ug/L	14.6	4.4	5		12/22/20 08:09	108-67-8	
1,3-Dichlorobenzene	**<3.1**	ug/L	10.5	3.1	5		12/22/20 08:09	541-73-1	
1,3-Dichloropropane	**<4.1**	ug/L	13.8	4.1	5		12/22/20 08:09	142-28-9	
1,4-Dichlorobenzene	**<4.7**	ug/L	15.7	4.7	5		12/22/20 08:09	106-46-7	
2,2-Dichloropropane	**<11.3**	ug/L	37.8	11.3	5		12/22/20 08:09	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: W-104DL **Lab ID: 40219990018** Collected: 12/15/20 13:32 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
2-Chlorotoluene	**<4.6**	ug/L	25.0	4.6	5		12/22/20 08:09	95-49-8	
4-Chlorotoluene	**<3.8**	ug/L	12.6	3.8	5		12/22/20 08:09	106-43-4	
Benzene	**537**	ug/L	5.0	1.2	5		12/22/20 08:09	71-43-2	
Bromobenzene	**<1.2**	ug/L	5.0	1.2	5		12/22/20 08:09	108-86-1	
Bromochloromethane	**<1.8**	ug/L	25.0	1.8	5		12/22/20 08:09	74-97-5	
Bromodichloromethane	**<1.8**	ug/L	6.1	1.8	5		12/22/20 08:09	75-27-4	
Bromoform	**<19.9**	ug/L	66.2	19.9	5		12/22/20 08:09	75-25-2	
Bromomethane	**<4.9**	ug/L	25.0	4.9	5		12/22/20 08:09	74-83-9	
Carbon tetrachloride	**<5.4**	ug/L	17.9	5.4	5		12/22/20 08:09	56-23-5	
Chlorobenzene	**<3.6**	ug/L	11.8	3.6	5		12/22/20 08:09	108-90-7	
Chloroethane	**<6.7**	ug/L	25.0	6.7	5		12/22/20 08:09	75-00-3	
Chloroform	**<6.4**	ug/L	25.0	6.4	5		12/22/20 08:09	67-66-3	
Chloromethane	**<10.9**	ug/L	36.5	10.9	5		12/22/20 08:09	74-87-3	
Dibromochloromethane	**<13.0**	ug/L	43.4	13.0	5		12/22/20 08:09	124-48-1	
Dibromomethane	**<4.7**	ug/L	15.6	4.7	5		12/22/20 08:09	74-95-3	
Dichlorodifluoromethane	**<2.5**	ug/L	25.0	2.5	5		12/22/20 08:09	75-71-8	
Diisopropyl ether	**<9.4**	ug/L	31.5	9.4	5		12/22/20 08:09	108-20-3	
Ethylbenzene	**278**	ug/L	5.3	1.6	5		12/22/20 08:09	100-41-4	
Hexachloro-1,3-butadiene	**<7.3**	ug/L	24.4	7.3	5		12/22/20 08:09	87-68-3	
Isopropylbenzene (Cumene)	**11.0J**	ug/L	28.1	8.4	5		12/22/20 08:09	98-82-8	
Methyl-tert-butyl ether	**<6.2**	ug/L	20.8	6.2	5		12/22/20 08:09	1634-04-4	
Methylene Chloride	**<2.9**	ug/L	25.0	2.9	5		12/22/20 08:09	75-09-2	
Naphthalene	**1150**	ug/L	25.0	5.9	5		12/22/20 08:09	91-20-3	
Styrene	**<15.0**	ug/L	50.2	15.0	5		12/22/20 08:09	100-42-5	
Tetrachloroethene	**<1.6**	ug/L	5.4	1.6	5		12/22/20 08:09	127-18-4	
Toluene	**34.5**	ug/L	5.0	1.3	5		12/22/20 08:09	108-88-3	
Trichloroethene	**<1.3**	ug/L	5.0	1.3	5		12/22/20 08:09	79-01-6	
Trichlorofluoromethane	**<1.1**	ug/L	5.0	1.1	5		12/22/20 08:09	75-69-4	
Vinyl chloride	**<0.87**	ug/L	5.0	0.87	5		12/22/20 08:09	75-01-4	
cis-1,2-Dichloroethene	**<1.4**	ug/L	5.0	1.4	5		12/22/20 08:09	156-59-2	
cis-1,3-Dichloropropene	**<18.1**	ug/L	60.5	18.1	5		12/22/20 08:09	10061-01-5	
m&p-Xylene	**90.4**	ug/L	10.0	2.3	5		12/22/20 08:09	179601-23-1	
n-Butylbenzene	**<3.5**	ug/L	11.8	3.5	5		12/22/20 08:09	104-51-8	
n-Propylbenzene	**<4.1**	ug/L	25.0	4.1	5		12/22/20 08:09	103-65-1	
o-Xylene	**75.8**	ug/L	5.0	1.3	5		12/22/20 08:09	95-47-6	
p-Isopropyltoluene	**<4.0**	ug/L	13.3	4.0	5		12/22/20 08:09	99-87-6	
sec-Butylbenzene	**<4.2**	ug/L	25.0	4.2	5		12/22/20 08:09	135-98-8	
tert-Butylbenzene	**<1.5**	ug/L	5.1	1.5	5		12/22/20 08:09	98-06-6	
trans-1,2-Dichloroethene	**<2.3**	ug/L	7.7	2.3	5		12/22/20 08:09	156-60-5	
trans-1,3-Dichloropropene	**<21.9**	ug/L	72.8	21.9	5		12/22/20 08:09	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		5		12/22/20 08:09	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		5		12/22/20 08:09	1868-53-7	
Toluene-d8 (S)	111	%	70-130		5		12/22/20 08:09	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: EB-02 **Lab ID: 40219990019** Collected: 12/15/20 15:00 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
	Pace Analytical Services - Green Bay								
Acenaphthene	**<0.0056**	ug/L	0.028	0.0056	1	12/21/20 15:13	12/22/20 16:53	83-32-9	
Acenaphthylene	**<0.0046**	ug/L	0.023	0.0046	1	12/21/20 15:13	12/22/20 16:53	208-96-8	
Anthracene	**<0.0096**	ug/L	0.048	0.0096	1	12/21/20 15:13	12/22/20 16:53	120-12-7	
Benzo(a)anthracene	**<0.0069**	ug/L	0.035	0.0069	1	12/21/20 15:13	12/22/20 16:53	56-55-3	
Benzo(a)pyrene	**<0.0097**	ug/L	0.048	0.0097	1	12/21/20 15:13	12/22/20 16:53	50-32-8	
Benzo(b)fluoranthene	**<0.0053**	ug/L	0.026	0.0053	1	12/21/20 15:13	12/22/20 16:53	205-99-2	
Benzo(g,h,i)perylene	**<0.0062**	ug/L	0.031	0.0062	1	12/21/20 15:13	12/22/20 16:53	191-24-2	L1
Benzo(k)fluoranthene	**<0.0069**	ug/L	0.035	0.0069	1	12/21/20 15:13	12/22/20 16:53	207-08-9	
Chrysene	**<0.012**	ug/L	0.060	0.012	1	12/21/20 15:13	12/22/20 16:53	218-01-9	
Dibenz(a,h)anthracene	**<0.0092**	ug/L	0.046	0.0092	1	12/21/20 15:13	12/22/20 16:53	53-70-3	L1
Fluoranthene	**<0.0098**	ug/L	0.049	0.0098	1	12/21/20 15:13	12/22/20 16:53	206-44-0	
Fluorene	**<0.0073**	ug/L	0.037	0.0073	1	12/21/20 15:13	12/22/20 16:53	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.016**	ug/L	0.081	0.016	1	12/21/20 15:13	12/22/20 16:53	193-39-5	
1-Methylnaphthalene	**<0.0054**	ug/L	0.027	0.0054	1	12/21/20 15:13	12/22/20 16:53	90-12-0	
2-Methylnaphthalene	**<0.0045**	ug/L	0.022	0.0045	1	12/21/20 15:13	12/22/20 16:53	91-57-6	
Naphthalene	**<0.017**	ug/L	0.084	0.017	1	12/21/20 15:13	12/22/20 16:53	91-20-3	
Phenanthrene	**<0.013**	ug/L	0.063	0.013	1	12/21/20 15:13	12/22/20 16:53	85-01-8	
Pyrene	**<0.0070**	ug/L	0.035	0.0070	1	12/21/20 15:13	12/22/20 16:53	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	51	%	39-120		1	12/21/20 15:13	12/22/20 16:53	321-60-8	
Terphenyl-d14 (S)	77	%	10-159		1	12/21/20 15:13	12/22/20 16:53	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
	Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		12/21/20 11:17	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		12/21/20 11:17	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 11:17	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		12/21/20 11:17	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		12/21/20 11:17	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		12/21/20 11:17	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		12/21/20 11:17	563-58-6	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		12/21/20 11:17	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		12/21/20 11:17	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		12/21/20 11:17	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		12/21/20 11:17	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		12/21/20 11:17	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		12/21/20 11:17	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 11:17	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 11:17	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 11:17	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		12/21/20 11:17	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		12/21/20 11:17	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		12/21/20 11:17	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		12/21/20 11:17	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		12/21/20 11:17	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: EB-02 **Lab ID: 40219990019** Collected: 12/15/20 15:00 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		12/21/20 11:17	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		12/21/20 11:17	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		12/21/20 11:17	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		12/21/20 11:17	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		12/21/20 11:17	74-97-5	
Bromodichloromethane	**0.58J**	ug/L	1.2	0.36	1		12/21/20 11:17	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		12/21/20 11:17	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		12/21/20 11:17	74-83-9	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		12/21/20 11:17	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 11:17	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		12/21/20 11:17	75-00-3	
Chloroform	**1.4J**	ug/L	5.0	1.3	1		12/21/20 11:17	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		12/21/20 11:17	74-87-3	
Dibromochloromethane	**4.6J**	ug/L	8.7	2.6	1		12/21/20 11:17	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		12/21/20 11:17	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		12/21/20 11:17	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		12/21/20 11:17	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		12/21/20 11:17	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		12/21/20 11:17	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		12/21/20 11:17	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		12/21/20 11:17	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		12/21/20 11:17	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		12/21/20 11:17	91-20-3	
Styrene	**<3.0**	ug/L	10.0	3.0	1		12/21/20 11:17	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		12/21/20 11:17	127-18-4	
Toluene	**<0.27**	ug/L	1.0	0.27	1		12/21/20 11:17	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/21/20 11:17	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		12/21/20 11:17	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		12/21/20 11:17	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		12/21/20 11:17	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		12/21/20 11:17	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		12/21/20 11:17	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 11:17	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		12/21/20 11:17	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		12/21/20 11:17	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		12/21/20 11:17	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		12/21/20 11:17	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		12/21/20 11:17	98-06-6	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		12/21/20 11:17	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		12/21/20 11:17	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		12/21/20 11:17	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		12/21/20 11:17	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		12/21/20 11:17	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: TB-01 **Lab ID: 40219990020** Collected: 12/15/20 00:00 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		12/21/20 11:39	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		12/21/20 11:39	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 11:39	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		12/21/20 11:39	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		12/21/20 11:39	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		12/21/20 11:39	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		12/21/20 11:39	563-58-6	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		12/21/20 11:39	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		12/21/20 11:39	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		12/21/20 11:39	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		12/21/20 11:39	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		12/21/20 11:39	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		12/21/20 11:39	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 11:39	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 11:39	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		12/21/20 11:39	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		12/21/20 11:39	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		12/21/20 11:39	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		12/21/20 11:39	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		12/21/20 11:39	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		12/21/20 11:39	594-20-7	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		12/21/20 11:39	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		12/21/20 11:39	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		12/21/20 11:39	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		12/21/20 11:39	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		12/21/20 11:39	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		12/21/20 11:39	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		12/21/20 11:39	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		12/21/20 11:39	74-83-9	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		12/21/20 11:39	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 11:39	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		12/21/20 11:39	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		12/21/20 11:39	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		12/21/20 11:39	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		12/21/20 11:39	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		12/21/20 11:39	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		12/21/20 11:39	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		12/21/20 11:39	108-20-3	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		12/21/20 11:39	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		12/21/20 11:39	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		12/21/20 11:39	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		12/21/20 11:39	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		12/21/20 11:39	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		12/21/20 11:39	91-20-3	
Styrene	**<3.0**	ug/L	10.0	3.0	1		12/21/20 11:39	100-42-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Sample: TB-01 **Lab ID: 40219990020** Collected: 12/15/20 00:00 Received: 12/17/20 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		12/21/20 11:39	127-18-4	
Toluene	**<0.27**	ug/L	1.0	0.27	1		12/21/20 11:39	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/21/20 11:39	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		12/21/20 11:39	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		12/21/20 11:39	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		12/21/20 11:39	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		12/21/20 11:39	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		12/21/20 11:39	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		12/21/20 11:39	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		12/21/20 11:39	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		12/21/20 11:39	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		12/21/20 11:39	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		12/21/20 11:39	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		12/21/20 11:39	98-06-6	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		12/21/20 11:39	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		12/21/20 11:39	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		12/21/20 11:39	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		12/21/20 11:39	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		12/21/20 11:39	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

QC Batch: 374087
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40219990001, 40219990002, 40219990003, 40219990004, 40219990005, 40219990006, 40219990007, 40219990008, 40219990009, 40219990010, 40219990011, 40219990012, 40219990013, 40219990014, 40219990015, 40219990016, 40219990017, 40219990018, 40219990019, 40219990020

METHOD BLANK: 2161912
Matrix: Water
Associated Lab Samples: 40219990001, 40219990002, 40219990003, 40219990004, 40219990005, 40219990006, 40219990007, 40219990008, 40219990009, 40219990010, 40219990011, 40219990012, 40219990013, 40219990014, 40219990015, 40219990016, 40219990017, 40219990018, 40219990019, 40219990020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	12/21/20 07:42	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	12/21/20 07:42	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	12/21/20 07:42	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	12/21/20 07:42	
1,1-Dichloroethane	ug/L	<0.27	1.0	12/21/20 07:42	
1,1-Dichloroethene	ug/L	<0.24	1.0	12/21/20 07:42	
1,1-Dichloropropene	ug/L	<0.54	1.8	12/21/20 07:42	
1,2,3-Trichlorobenzene	ug/L	<2.2	7.4	12/21/20 07:42	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	12/21/20 07:42	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	12/21/20 07:42	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	12/21/20 07:42	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	12/21/20 07:42	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	12/21/20 07:42	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	12/21/20 07:42	
1,2-Dichloroethane	ug/L	<0.28	1.0	12/21/20 07:42	
1,2-Dichloropropane	ug/L	<0.28	1.0	12/21/20 07:42	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	12/21/20 07:42	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	12/21/20 07:42	
1,3-Dichloropropane	ug/L	<0.83	2.8	12/21/20 07:42	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	12/21/20 07:42	
2,2-Dichloropropane	ug/L	<2.3	7.6	12/21/20 07:42	
2-Chlorotoluene	ug/L	<0.93	5.0	12/21/20 07:42	
4-Chlorotoluene	ug/L	<0.76	2.5	12/21/20 07:42	
Benzene	ug/L	<0.25	1.0	12/21/20 07:42	
Bromobenzene	ug/L	<0.24	1.0	12/21/20 07:42	
Bromochloromethane	ug/L	<0.36	5.0	12/21/20 07:42	
Bromodichloromethane	ug/L	<0.36	1.2	12/21/20 07:42	
Bromoform	ug/L	<4.0	13.2	12/21/20 07:42	
Bromomethane	ug/L	<0.97	5.0	12/21/20 07:42	
Carbon tetrachloride	ug/L	<1.1	3.6	12/21/20 07:42	
Chlorobenzene	ug/L	<0.71	2.4	12/21/20 07:42	
Chloroethane	ug/L	<1.3	5.0	12/21/20 07:42	
Chloroform	ug/L	<1.3	5.0	12/21/20 07:42	
Chloromethane	ug/L	<2.2	7.3	12/21/20 07:42	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	12/21/20 07:42	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	12/21/20 07:42	
Dibromochloromethane	ug/L	<2.6	8.7	12/21/20 07:42	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

METHOD BLANK: 2161912 Matrix: Water

Associated Lab Samples: 40219990001, 40219990002, 40219990003, 40219990004, 40219990005, 40219990006, 40219990007, 40219990008, 40219990009, 40219990010, 40219990011, 40219990012, 40219990013, 40219990014, 40219990015, 40219990016, 40219990017, 40219990018, 40219990019, 40219990020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	<0.94	3.1	12/21/20 07:42	
Dichlorodifluoromethane	ug/L	<0.50	5.0	12/21/20 07:42	
Diisopropyl ether	ug/L	<1.9	6.3	12/21/20 07:42	
Ethylbenzene	ug/L	<0.32	1.1	12/21/20 07:42	
Hexachloro-1,3-butadiene	ug/L	<1.5	4.9	12/21/20 07:42	
Isopropylbenzene (Cumene)	ug/L	<1.7	5.6	12/21/20 07:42	
m&p-Xylene	ug/L	<0.47	2.0	12/21/20 07:42	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	12/21/20 07:42	
Methylene Chloride	ug/L	<0.58	5.0	12/21/20 07:42	
n-Butylbenzene	ug/L	<0.71	2.4	12/21/20 07:42	
n-Propylbenzene	ug/L	<0.81	5.0	12/21/20 07:42	
Naphthalene	ug/L	<1.2	5.0	12/21/20 07:42	
o-Xylene	ug/L	<0.26	1.0	12/21/20 07:42	
p-Isopropyltoluene	ug/L	<0.80	2.7	12/21/20 07:42	
sec-Butylbenzene	ug/L	<0.85	5.0	12/21/20 07:42	
Styrene	ug/L	<3.0	10.0	12/21/20 07:42	
tert-Butylbenzene	ug/L	<0.30	1.0	12/21/20 07:42	
Tetrachloroethene	ug/L	<0.33	1.1	12/21/20 07:42	
Toluene	ug/L	<0.27	1.0	12/21/20 07:42	
trans-1,2-Dichloroethene	ug/L	<0.46	1.5	12/21/20 07:42	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	12/21/20 07:42	
Trichloroethene	ug/L	<0.26	1.0	12/21/20 07:42	
Trichlorofluoromethane	ug/L	<0.21	1.0	12/21/20 07:42	
Vinyl chloride	ug/L	<0.17	1.0	12/21/20 07:42	
4-Bromofluorobenzene (S)	%	93	70-130	12/21/20 07:42	
Dibromofluoromethane (S)	%	104	70-130	12/21/20 07:42	
Toluene-d8 (S)	%	95	70-130	12/21/20 07:42	

LABORATORY CONTROL SAMPLE: 2161913

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	57.3	115	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.9	102	64-131	
1,1,2-Trichloroethane	ug/L	50	49.0	98	70-130	
1,1-Dichloroethane	ug/L	50	46.7	93	69-163	
1,1-Dichloroethene	ug/L	50	51.4	103	77-123	
1,2,4-Trichlorobenzene	ug/L	50	51.1	102	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	45.9	92	63-130	
1,2-Dibromoethane (EDB)	ug/L	50	50.2	100	70-130	
1,2-Dichlorobenzene	ug/L	50	49.9	100	70-130	
1,2-Dichloroethane	ug/L	50	51.4	103	78-142	
1,2-Dichloropropane	ug/L	50	48.7	97	86-134	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

LABORATORY CONTROL SAMPLE: 2161913

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	50.2	100	70-130	
1,4-Dichlorobenzene	ug/L	50	46.5	93	70-130	
Benzene	ug/L	50	53.1	106	70-130	
Bromodichloromethane	ug/L	50	52.5	105	70-130	
Bromoform	ug/L	50	47.5	95	70-130	
Bromomethane	ug/L	50	43.4	87	39-129	
Carbon tetrachloride	ug/L	50	53.5	107	70-132	
Chlorobenzene	ug/L	50	50.7	101	70-130	
Chloroethane	ug/L	50	51.9	104	66-140	
Chloroform	ug/L	50	53.4	107	75-132	
Chloromethane	ug/L	50	52.2	104	32-143	
cis-1,2-Dichloroethene	ug/L	50	45.9	92	70-130	
cis-1,3-Dichloropropene	ug/L	50	51.0	102	70-130	
Dibromochloromethane	ug/L	50	48.7	97	70-130	
Dichlorodifluoromethane	ug/L	50	56.8	114	10-141	
Ethylbenzene	ug/L	50	51.9	104	80-120	
Isopropylbenzene (Cumene)	ug/L	50	51.8	104	70-130	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	43.8	88	61-129	
Methylene Chloride	ug/L	50	47.1	94	70-130	
o-Xylene	ug/L	50	50.0	100	70-130	
Styrene	ug/L	50	50.7	101	70-130	
Tetrachloroethene	ug/L	50	49.3	99	70-130	
Toluene	ug/L	50	49.4	99	80-120	
trans-1,2-Dichloroethene	ug/L	50	50.1	100	70-130	
trans-1,3-Dichloropropene	ug/L	50	48.1	96	69-130	
Trichloroethene	ug/L	50	52.1	104	70-130	
Trichlorofluoromethane	ug/L	50	57.4	115	75-145	
Vinyl chloride	ug/L	50	57.4	115	51-140	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			102	70-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2161914 2161915

Parameter	Units	40219990007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.24	50	50	57.0	56.8	114	114	70-130	0	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	49.4	48.8	99	98	64-137	1	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	47.5	47.3	95	95	70-137	0	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	47.0	47.4	94	95	69-163	1	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	52.1	53.4	104	107	77-129	2	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	49.6	48.5	99	97	68-130	2	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	45.7	46.6	91	93	60-130	2	20	

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REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2161914 2161915

Parameter	Units	40219990007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	48.4	48.6	97	97	70-130	0	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	49.0	47.9	98	96	70-130	2	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	49.8	50.5	100	101	78-145	2	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	48.0	48.2	96	96	86-135	0	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	49.3	48.5	99	97	70-130	1	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	46.4	46.8	93	94	70-130	1	20	
Benzene	ug/L	<0.25	50	50	52.9	53.0	106	106	70-136	0	20	
Bromodichloromethane	ug/L	<0.36	50	50	51.3	51.3	103	103	70-130	0	20	
Bromoform	ug/L	<4.0	50	50	47.2	46.3	94	93	69-130	2	20	
Bromomethane	ug/L	<0.97	50	50	43.7	44.2	87	88	39-138	1	20	
Carbon tetrachloride	ug/L	<1.1	50	50	55.8	56.0	112	112	70-142	0	20	
Chlorobenzene	ug/L	<0.71	50	50	49.2	49.4	98	99	70-130	0	20	
Chloroethane	ug/L	<1.3	50	50	52.4	53.5	105	107	61-149	2	20	
Chloroform	ug/L	<1.3	50	50	53.4	54.3	107	109	75-133	2	20	
Chloromethane	ug/L	<2.2	50	50	53.3	54.8	107	110	32-143	3	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	45.3	45.4	91	91	70-130	0	20	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	51.3	51.2	103	102	70-130	0	20	
Dibromochloromethane	ug/L	<2.6	50	50	47.1	48.8	94	98	70-130	3	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	56.2	57.0	112	114	10-141	1	20	
Ethylbenzene	ug/L	<0.32	50	50	50.0	49.7	100	99	80-120	1	20	
Isopropylbenzene (Cumene)	ug/L	<1.7	50	50	50.0	49.6	100	99	70-130	1	20	
m&p-Xylene	ug/L	<0.47	100	100	97.7	97.3	98	97	70-130	0	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	44.0	44.2	88	88	61-136	1	20	
Methylene Chloride	ug/L	<0.58	50	50	48.3	48.1	97	96	68-137	1	20	
o-Xylene	ug/L	<0.26	50	50	48.8	48.6	98	97	70-130	0	20	
Styrene	ug/L	<3.0	50	50	48.7	48.1	97	96	70-130	1	20	
Tetrachloroethene	ug/L	<0.33	50	50	48.5	48.5	97	97	70-130	0	20	
Toluene	ug/L	<0.27	50	50	48.6	47.9	97	96	80-120	1	20	
trans-1,2-Dichloroethene	ug/L	<0.46	50	50	50.3	50.5	101	101	70-130	1	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	45.3	46.1	91	92	69-130	2	20	
Trichloroethene	ug/L	<0.26	50	50	52.1	50.9	104	102	70-130	2	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	56.9	56.2	114	112	74-157	1	20	
Vinyl chloride	ug/L	<0.17	50	50	58.1	59.8	116	120	51-140	3	20	
4-Bromofluorobenzene (S)	%						97	100	70-130			
Dibromofluoromethane (S)	%						106	107	70-130			
Toluene-d8 (S)	%						93	93	70-130			

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

QC Batch: 374141
QC Batch Method: EPA 3510
Analysis Method: EPA 8270 by HVI
Analysis Description: 8270 Water PAH by HVI
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40219990001, 40219990002, 40219990003, 40219990004, 40219990005, 40219990006, 40219990007, 40219990008, 40219990009, 40219990010, 40219990011, 40219990012, 40219990013

METHOD BLANK: 2162296 Matrix: Water
Associated Lab Samples: 40219990001, 40219990002, 40219990003, 40219990004, 40219990005, 40219990006, 40219990007, 40219990008, 40219990009, 40219990010, 40219990011, 40219990012, 40219990013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	12/18/20 11:17	
2-Methylnaphthalene	ug/L	<0.0049	0.024	12/18/20 11:17	
Acenaphthene	ug/L	<0.0061	0.030	12/18/20 11:17	
Acenaphthylene	ug/L	<0.0050	0.025	12/18/20 11:17	
Anthracene	ug/L	<0.010	0.052	12/18/20 11:17	
Benzo(a)anthracene	ug/L	<0.0076	0.038	12/18/20 11:17	
Benzo(a)pyrene	ug/L	<0.011	0.053	12/18/20 11:17	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	12/18/20 11:17	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	12/18/20 11:17	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	12/18/20 11:17	
Chrysene	ug/L	<0.013	0.065	12/18/20 11:17	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	12/18/20 11:17	
Fluoranthene	ug/L	<0.011	0.053	12/18/20 11:17	
Fluorene	ug/L	<0.0080	0.040	12/18/20 11:17	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	12/18/20 11:17	
Naphthalene	ug/L	<0.018	0.092	12/18/20 11:17	
Phenanthrene	ug/L	<0.014	0.069	12/18/20 11:17	
Pyrene	ug/L	<0.0076	0.038	12/18/20 11:17	
2-Fluorobiphenyl (S)	%	65	39-120	12/18/20 11:17	
Terphenyl-d14 (S)	%	116	10-159	12/18/20 11:17	

LABORATORY CONTROL SAMPLE: 2162297

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.2	60	37-120	
2-Methylnaphthalene	ug/L	2	1.0	52	38-120	
Acenaphthene	ug/L	2	1.2	61	49-120	
Acenaphthylene	ug/L	2	1.2	58	43-85	
Anthracene	ug/L	2	1.6	80	57-110	
Benzo(a)anthracene	ug/L	2	1.2	59	47-118	
Benzo(a)pyrene	ug/L	2	1.6	78	70-120	
Benzo(b)fluoranthene	ug/L	2	1.5	75	54-97	
Benzo(g,h,i)perylene	ug/L	2	0.94	47	26-74	
Benzo(k)fluoranthene	ug/L	2	2.0	102	73-126	
Chrysene	ug/L	2	2.2	109	75-151	
Dibenz(a,h)anthracene	ug/L	2	0.87	44	13-72	
Fluoranthene	ug/L	2	1.5	77	63-120	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

LABORATORY CONTROL SAMPLE: 2162297

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluorene	ug/L	2	1.1	54	53-120	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.4	70	51-101	
Naphthalene	ug/L	2	1.2	59	41-120	
Phenanthrene	ug/L	2	1.2	62	47-100	
Pyrene	ug/L	2	1.8	92	70-128	
2-Fluorobiphenyl (S)	%			60	39-120	
Terphenyl-d14 (S)	%			101	10-159	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2162298 2162299

Parameter	Units	40219990007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	0.028J	2.1	2	1.1	1.0	51	49	16-120	6	28	
2-Methylnaphthalene	ug/L	<0.0049	2.1	2	0.97	0.88	47	43	29-120	10	31	
Acenaphthene	ug/L	0.027J	2.1	2	1.2	1.1	56	54	33-120	6	30	
Acenaphthylene	ug/L	<0.0050	2.1	2	1.1	1.0	52	50	21-85	7	26	
Anthracene	ug/L	<0.010	2.1	2	1.4	1.4	68	67	16-114	3	36	
Benzo(a)anthracene	ug/L	<0.0076	2.1	2	1.0	0.86	51	43	10-118	20	35	
Benzo(a)pyrene	ug/L	<0.011	2.1	2	1.1	1.1	55	53	10-120	7	37	
Benzo(b)fluoranthene	ug/L	<0.0057	2.1	2	1.1	1.0	54	50	10-97	9	36	
Benzo(g,h,i)perylene	ug/L	<0.0068	2.1	2	0.31	0.31	15	16	10-74	1	45	
Benzo(k)fluoranthene	ug/L	<0.0076	2.1	2	1.3	1.2	63	60	10-126	6	41	
Chrysene	ug/L	<0.013	2.1	2	1.6	1.6	79	80	10-161	0	30	
Dibenz(a,h)anthracene	ug/L	<0.010	2.1	2	0.31	0.29	15	14	10-72	9	50	
Fluoranthene	ug/L	<0.011	2.1	2	1.4	1.3	66	62	35-120	7	33	
Fluorene	ug/L	<0.0080	2.1	2	1.1	1.1	51	55	17-120	5	33	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	2.1	2	0.70	0.64	34	32	10-101	8	41	
Naphthalene	ug/L	0.46	2.1	2	1.6	1.5	57	50	24-120	10	30	
Phenanthrene	ug/L	<0.014	2.1	2	1.3	1.1	61	55	15-100	12	30	
Pyrene	ug/L	<0.0076	2.1	2	1.6	1.5	78	76	14-137	5	31	
2-Fluorobiphenyl (S)	%						55	52	39-120			
Terphenyl-d14 (S)	%						82	77	10-159			

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

QC Batch: 374344
QC Batch Method: EPA 3510
Analysis Method: EPA 8270 by HVI
Analysis Description: 8270 Water PAH by HVI
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40219990014, 40219990015, 40219990016, 40219990017, 40219990018, 40219990019

METHOD BLANK: 2163634 Matrix: Water
Associated Lab Samples: 40219990014, 40219990015, 40219990016, 40219990017, 40219990018, 40219990019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	12/22/20 08:13	
2-Methylnaphthalene	ug/L	<0.0049	0.024	12/22/20 08:13	
Acenaphthene	ug/L	<0.0061	0.030	12/22/20 08:13	
Acenaphthylene	ug/L	<0.0050	0.025	12/22/20 08:13	
Anthracene	ug/L	<0.010	0.052	12/22/20 08:13	
Benzo(a)anthracene	ug/L	0.0084J	0.038	12/22/20 08:13	
Benzo(a)pyrene	ug/L	<0.011	0.053	12/22/20 08:13	
Benzo(b)fluoranthene	ug/L	0.0079J	0.029	12/22/20 08:13	
Benzo(g,h,i)perylene	ug/L	0.011J	0.034	12/22/20 08:13	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	12/22/20 08:13	
Chrysene	ug/L	<0.013	0.065	12/22/20 08:13	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	12/22/20 08:13	
Fluoranthene	ug/L	<0.011	0.053	12/22/20 08:13	
Fluorene	ug/L	<0.0080	0.040	12/22/20 08:13	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	12/22/20 08:13	
Naphthalene	ug/L	<0.018	0.092	12/22/20 08:13	
Phenanthrene	ug/L	<0.014	0.069	12/22/20 08:13	
Pyrene	ug/L	<0.0076	0.038	12/22/20 08:13	
2-Fluorobiphenyl (S)	%	66	39-120	12/22/20 08:13	
Terphenyl-d14 (S)	%	104	10-159	12/22/20 08:13	

LABORATORY CONTROL SAMPLE & LCSD: 2163635 2163636

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	ug/L	2	1.0	1.0	50	51	37-120	1	25	
2-Methylnaphthalene	ug/L	2	0.96	0.97	48	48	38-120	1	25	
Acenaphthene	ug/L	2	1.3	1.2	64	60	49-120	6	24	
Acenaphthylene	ug/L	2	1.3	1.2	65	62	43-85	5	26	
Anthracene	ug/L	2	1.7	1.6	84	80	57-110	5	28	
Benzo(a)anthracene	ug/L	2	1.9	1.7	96	87	47-118	9	27	
Benzo(a)pyrene	ug/L	2	1.7	1.6	85	82	70-120	4	20	
Benzo(b)fluoranthene	ug/L	2	1.8	1.7	89	83	54-97	7	21	
Benzo(g,h,i)perylene	ug/L	2	1.5	1.2	77	60	26-74	26	42	L1
Benzo(k)fluoranthene	ug/L	2	1.8	1.7	91	86	73-126	7	22	
Chrysene	ug/L	2	1.8	1.7	89	83	75-151	6	20	
Dibenz(a,h)anthracene	ug/L	2	1.7	1.2	84	62	13-72	30	50	L1
Fluoranthene	ug/L	2	1.7	1.6	86	80	63-120	7	20	
Fluorene	ug/L	2	1.4	1.3	72	65	53-120	10	26	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.7	1.5	83	74	51-101	12	27	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

LABORATORY CONTROL SAMPLE & LCSD: 2163635 2163636

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Naphthalene	ug/L	2	1.0	1.0	50	52	41-120	5	24	
Phenanthrene	ug/L	2	1.6	1.5	80	74	47-100	8	22	
Pyrene	ug/L	2	2.0	1.8	98	90	70-128	8	20	
2-Fluorobiphenyl (S)	%				70	67	39-120			
Terphenyl-d14 (S)	%				110	105	10-159			

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REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

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

B	Analyte was detected in the associated method blank.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 4210004831 THIRD WARD MGP
Pace Project No.: 40219990

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40219990001	**W-41D**	EPA 3510	374141	EPA 8270 by HVI	374178
40219990002	**W-41DL**	EPA 3510	374141	EPA 8270 by HVI	374178
40219990003	**W-41S**	EPA 3510	374141	EPA 8270 by HVI	374178
40219990004	**W-101S**	EPA 3510	374141	EPA 8270 by HVI	374178
40219990005	**W-101D**	EPA 3510	374141	EPA 8270 by HVI	374178
40219990006	**DUP-01**	EPA 3510	374141	EPA 8270 by HVI	374178
40219990007	**W-45DL**	EPA 3510	374141	EPA 8270 by HVI	374178
40219990008	**W-45S**	EPA 3510	374141	EPA 8270 by HVI	374178
40219990009	**W-45D**	EPA 3510	374141	EPA 8270 by HVI	374178
40219990010	**EB-01**	EPA 3510	374141	EPA 8270 by HVI	374178
40219990011	**W-102S**	EPA 3510	374141	EPA 8270 by HVI	374178
40219990012	**W-102D**	EPA 3510	374141	EPA 8270 by HVI	374178
40219990013	**W-46D**	EPA 3510	374141	EPA 8270 by HVI	374178
40219990014	**W-103S**	EPA 3510	374344	EPA 8270 by HVI	374382
40219990015	**W-103DL**	EPA 3510	374344	EPA 8270 by HVI	374382
40219990016	**DUP-02**	EPA 3510	374344	EPA 8270 by HVI	374382
40219990017	**W-104S**	EPA 3510	374344	EPA 8270 by HVI	374382
40219990018	**W-104DL**	EPA 3510	374344	EPA 8270 by HVI	374382
40219990019	**EB-02**	EPA 3510	374344	EPA 8270 by HVI	374382
40219990001	**W-41D**	EPA 8260	374087		
40219990002	**W-41DL**	EPA 8260	374087		
40219990003	**W-41S**	EPA 8260	374087		
40219990004	**W-101S**	EPA 8260	374087		
40219990005	**W-101D**	EPA 8260	374087		
40219990006	**DUP-01**	EPA 8260	374087		
40219990007	**W-45DL**	EPA 8260	374087		
40219990008	**W-45S**	EPA 8260	374087		
40219990009	**W-45D**	EPA 8260	374087		
40219990010	**EB-01**	EPA 8260	374087		
40219990011	**W-102S**	EPA 8260	374087		
40219990012	**W-102D**	EPA 8260	374087		
40219990013	**W-46D**	EPA 8260	374087		
40219990014	**W-103S**	EPA 8260	374087		
40219990015	**W-103DL**	EPA 8260	374087		
40219990016	**DUP-02**	EPA 8260	374087		
40219990017	**W-104S**	EPA 8260	374087		
40219990018	**W-104DL**	EPA 8260	374087		
40219990019	**EB-02**	EPA 8260	374087		
40219990020	**TB-01**	EPA 8260	374087		

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Pace courier Pickup

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

69200-1220-001

QC: NMD 12/15/20

40219990

Page: 1 of 2

Section A Required Client Information:

Company:	Ramboll
Address:	234 W. Florida St
	Milwaukee, WI
Email To:	GDSdata@OBG.com
Phone: 414-837-3607	Fax:
Requested Due Date/TAT:	standard

Section B Required Project Information:

Report To:	GDSdata@OBG.com
Copy To:	Julie Zimdars
	Nate Duda
Purchase Order No.:	4210004831
Project Name:	Third Ward MGP
Project Number:	1940069200

Section C Invoice Information:

Attention:	Accounts Payable
Company Name:	WEC Business Services, LLC
Address:	PO Box 19800, Green Bay, WI 54307
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: WI

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	PAHs (EPA 8270)	VOCs (EPA 8260)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																		Requested Analysis Filtered (Y/N)	N	N		
1	W-41D	GW	G			12/14/20	0934		5	X			X						X	X		001
2	W-41DL						1006			X			X						X	X		002
3	W-41S						1045			X			X						X	X		003
4	W-101S						1135			X			X						X	X		004
5	W-101D						1211			X			X						X	X		005
6	DUP-01			DJM 12/15/20			1216			X			X						X	X		006
7	W-45DL						1425		15	X			X						X	X		007
8	W-45S						1453		5	X			X						X	X		008
9	W-45D						1529			X			X						X	X		009
10	EB-01	DI					1600			X			X						X	X		010
11	W-102S	GW				12/15/20	0915			X			X						X	X		011
12	W-102D						0939			X			X						X	X		012

PAM 12-15-20

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
EPA Level 2	Dan Martinez / Ramboll	12/16/20								
W-45DL - MS/MSD	CS Logistics	12/17/20	0845	Nicole Hackett Pace	12/17/20	0845	DW	4	Y	Y

Custody Seal # 69200-001

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Martinez

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12/16/20

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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Pace Couriers Pick Up

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

69200-1220-001

40219990

Section A Required Client Information:

Company:	Ramboll
Address:	234 W. Florida St
	Milwaukee, WI
Email To:	GDSdata@OBG.com
Phone: 414-837-3607	Fax:
Requested Due Date/TAT:	standard

Section B Required Project Information:

Report To:	GDSdata@OBG.com
Copy To:	Julie Zimdars
	Nate Duda
Purchase Order No.:	4210004831
Project Name:	Third Ward MGP
Project Number:	1940069200

Section C Invoice Information: QC-NMD 12/15/20

Attention:	Accounts Payable
Company Name:	WEC Business Services, LLC
Address:	PO Box 19800, Green Bay, WI 54307
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: WI

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	PAHs (EPA 8270)	VOCs (EPA 8260)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	W-46D	GW	G			12/15/20	1020		3	X			X					N	X	X		013
2	W-103S						1136			X			X					N	X	X		014
3	W-103DL						1217			X			X					N	X	X		015
4	DUP-02						1222			X			X					N	X	X		016
5	W-104S						1301			X			X					N	X	X		017
6	W-104DL			DJM			1332			X			X					N	X	Y		018
7	EB-02	DI		12-15-20			1500			X			X					N	X	X		019
8	TB-01	LAB					—		2				X							X		020
9																						
10																						
11																						
12																						

DJM 12-15-20

DJM 12-15-20

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
EPA Level 2	Don Martinez/Ramboll	12/16/20					
	CS Logistics	12/17/20	0845	Nicole Hucke Pace	12/17/20	0845	Y Y Y

Custody seal #: 69200-001 & 002

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Daniel Martinez

SIGNATURE of SAMPLER: DJM DATE Signed (MM/DD/YY): 12/16/20

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Y	Y	Y

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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

Sample Preservation Receipt Form

Client Name: Ramboll   Project # 40219990

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: AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	Plastic: BP1U	BP3U	BP3B	BP3N	BP3S	Vials: VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	JG9U	WGFU	WPFU	General: SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001						2											3																2.5 / 5 / 10
002						2											3																2.5 / 5 / 10
003						2											3																2.5 / 5 / 10
004						2											3																2.5 / 5 / 10
005						2											3																2.5 / 5 / 10
006						2										(3)	~~4~~ 12/17/20 NM																2.5 / 5 / 10
007						2										(4)	~~3~~ 12/17/20 NM										2	MR 12-17-20					2.5 / 5 / 10
008						2											3																2.5 / 5 / 10
009						2											3																2.5 / 5 / 10
010						2											3																2.5 / 5 / 10
011						2											3																2.5 / 5 / 10
012						2											3																2.5 / 5 / 10
013						2											3																2.5 / 5 / 10
014						2											3																2.5 / 5 / 10
015						2											3																2.5 / 5 / 10
016						2											3										2	MR 12-17-20					2.5 / 5 / 10
017						2											3																2.5 / 5 / 10
018						2											3																2.5 / 5 / 10
019			NC 12/17/20			2											3																2.5 / 5 / 10
020						~~2~~											2																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 MR 12-17-20 *If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9A	40 mL clear ascorbic	JGFU	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						

Pace Analytical 1241 Bellevue Street, Green Bay, WI 54302	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: 25Apr2018
	Document No.: **F-GB-C-031-Rev.07**	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Ramboll Project # 40219990

Additional Comments/Resolution:

unlegible date: 007(1)V69H

time "1726": 016(1)V69H

no date: 002, 003, +005 A65U-1each

time "1206": 006 A65U5

MLR 12-17-20

Project Manager Review: _____ **Date:** _____

Pace Analytical® 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 #:

WO# : 40219990

40219990

Client Name: Ramboll

Courier: ☑ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco
☐ 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 - N/A **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: R0F /Corr:

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents:
Date: 12/17/20 /Initials: MM

Labeled By Initials: MLR

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out: MLR 12-17-20	☑Yes ☒No ☐N/A	2. PM, 020 matrix "LAB" MLR 12-17-20
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3. no time MLR 12-17-20
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr): MLR 12-17-20	☒Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: MLR 12-17-20		8. PAH slightly under volume: 003, 005, 015, + under vol. 2-25mL: 013 MLR 12-17-20
For Analysis: ☐Yes ☒No MS/MSD:	☑Yes ☐No ☐N/A	
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☐Yes ☑No ☐N/A	12. Sample pts 001-002-003 have "MW" & COC lists "W" see additional sheet MLR 12-17-20 12/17/20 MM
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☑Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present MLR 12-17-20	☒Yes ☑No ☐N/A	
Pace Trip Blank Lot # (if purchased): 455		

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 login

MLR 12-17-20