Pfeiffer, Jane K - DNR

From: Cory Katzban, P.E. <ckatzban@thesigmagroup.com>
Sent: Wednesday, July 6, 2022 2:48 PM
To: Pfeiffer, Jane K - DNR
Cc: Grittner, Paul V - DNR; Trent Ott; rfrieseke@fecinc.us
Subject: RE: [EXT] Five Points Development (02-41-589558) - Additional Information Required
Attachments: 20457 Table 1 - Water Level Elevations Updated.pdf; 20457 Table 3 - GW Analytical Results Table Updated.pdf; 2022.06.30 GW Lab Report-MWs-PAHs_20457.pdf

Follow Up Flag: Follow up
Flag Status: Completed

Hi Jane,

The latest groundwater analytical data are in – PAHs collected from wells MW-1, MW-2, and MW-3. Results indicate similar low-level concentrations as the previous sampling event. We expect this data supports approval for disposal of material at R&R Excavating.

Updated water level elevation and groundwater analytical data are included in the attached tables and lab report.

Regarding soil volumes: The latest cut/fill estimate has adjusted the numbers: Cut has been reduced to an estimated 2,000 CYs grading plus the potential additional 3,000 CY for utilities, footings, and foundations, which puts estimated Cut at 5,000 CYs +/-. Fill has been increased to an estimated 800 CYs. Overall, the redevelopment will produce excess for disposal at R&R, but less than previously estimated. Modification to the elevations of the proposed courtyard area allowed us to reduce cut and haul off.

If you have any other questions please let us know.

Best,

Cory Katzban, P.E.
Project Engineer
The Sigma Group, Inc.
414-643-4138 (direct)
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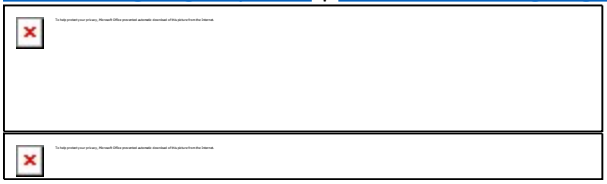

From: Cory Katzban, P.E.
Sent: Thursday, June 23, 2022 4:39 PM
To: Pfeiffer, Jane K - DNR <jane.pfeiffer@wisconsin.gov>
Cc: Grittner, Paul V - DNR <Paul.Grittner@wisconsin.gov>; Trent Ott <tott@fecinc.us>; rfrieseke@fecinc.us
Subject: RE: [EXT] Five Points Development (02-41-589558) - Additional Information Required

Hi Jane,

Getting back to you, please see below

Let us know if you have any questions.

Best,

Cory Katzban, P.E.
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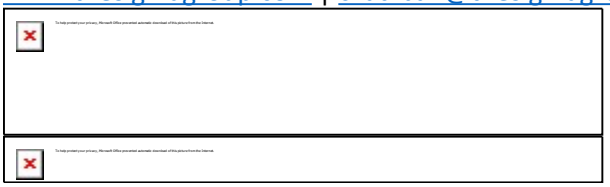

From: Pfeiffer, Jane K - DNR <jane.pfeiffer@wisconsin.gov>
Sent: Wednesday, June 22, 2022 12:53 PM
To: Cory Katzban, P.E. <ckatzban@thesigmagroup.com>
Cc: Grittner, Paul V - DNR <Paul.Grittner@wisconsin.gov>; Trent Ott <tott@fecinc.us>; rfrieseke@fecinc.us
Subject: [EXT] Five Points Development (02-41-589558) - Additional Information Required

Hi Cory,

The DNR is in the process of reviewing the June 2022 site investigation report (SIR), remedial action plan (RAP), on- and off-site materials management plans (MMPs) and historic fill exemption (HFE) for the above-referenced site, and has determined that the following information and monitoring is required:

1. The five points development project description provided in the "MLK 5 POINTS – Project Narrative," which begins on PDF page 102 of the off-site MMP, dated June 3, 2022, does not appear to match the description provided in the SIR, RAP, on-site MMP and HFE. More specifically, whether there will be a parking garage vs. parking lot constructed as a part of this development is not clear. Please confirm the planned development details.

a. Attached is the draft cap maintenance plan, dated May 2022. Confirm whether this is still accurate and up-to-date based on current development plans. The Draft CMP remains accurate – the proposed parking garage (when the original owner project narrative was drafted) was revised to a parking lot to reduce construction costs on the project, while still serving redevelopment needs.
b. If there have been changes to the development plans, then provide updated soil management volumes, as may be needed. Will do, we expect soil volumes (on-site and off-site) to be adjusted a little based on final site grading plans. Although, the soil analytical data collected to date are still expected to support both on- and off-site MMP requests.

2. Additional groundwater sampling is requested to:
   a. Justify the off-site soil management at the R&R Excavating site; Will do. We are scheduled to conduct an additional round of sampling next week for PAHs (metals and VOCs do not appear to be present on-site in detectable or significant concentrations, please advise if sampling of these parameters is needed, we do not recommend). Recent NR 141 well sampling and our SPLP neutral water analyses indicate very low risk to groundwater from site impacts.
   b. And demonstrate a stable and/or receding contamination plume, as is required per Wis. Admin. Code § NR 726.05(6)(c). See above, 2.a response for planned sampling. There does not appear to be a plume per se, but a second sampling event will be conducted to confirm groundwater concentrations.

Do not hesitate to reach out with any questions you might have.

Thank you, Jane

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Jane K. Pfeiffer
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Table 1
Water Level Elevations
5 Points Development - 3317-3345 North MLK Drive and 456 West Concordia Avenue, Milwaukee, WI
Sigma Project No. 20457

TW-1

Ground Elev.: 724.0 (feet MSL) Screen Interval: 4.3 to 14.3 (feet bgs)
TOC Elev.: 724.49 (feet MSL) 719.7 to 709.7 (feet MSL)

Date	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Water Column (feet)	Water Column (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
2/18/22	8.75	14.75	6.00	---	715.74	8.3	Clear to turbid, no odor
3/28/22	6.59	14.65	8.06	2.06	717.90	6.1	Well abandoned

TW-2

Ground Elev.: 727.0 (feet MSL) Screen Interval: 4.3 to 14.3 (feet bgs)
TOC Elev.: 727.38 (feet MSL) 722.7 to 712.7 (feet MSL)

Date	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Water Column (feet)	Water Column (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
2/18/22	9.70	14.65	4.95	---	717.68	9.3	Clear to turbid, no odor
3/28/22	9.26	14.65	5.39	0.44	718.12	8.9	Well abandoned

TW-5

Ground Elev.: 732.7 (feet MSL) Screen Interval: 9.3 to 19.3 (feet bgs)
TOC Elev.: 733.02 (feet MSL) 723.3 to 713.3 (feet MSL)

Date	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Water Column (feet)	Water Column (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
2/18/22	14.15	19.70	5.55	---	718.87	13.8	Clear to turbid, no odor
3/28/22	8.68	19.65	10.97	5.42	724.34	8.3	Well abandoned

TW-7

Ground Elev.: 726.8 (feet MSL) Screen Interval: 3.9 to 13.9 (feet bgs)
TOC Elev.: 727.39 (feet MSL) 722.9 to 712.9 (feet MSL)

Date	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Water Column (feet)	Water Column (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
2/18/22	10.31	14.46	4.15	---	717.08	9.7	Clear to turbid, no odor
3/28/22	7.98	14.60	6.62	2.47	719.41	7.4	Well abandoned

TW-8

Ground Elev.: 730.1 (feet MSL) Screen Interval: 9.3 to 19.3 (feet bgs)
TOC Elev.: 730.48 (feet MSL) 720.8 to 710.8 (feet MSL)

Date	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Water Column (feet)	Water Column (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
2/18/22	7.30	19.71	12.41	---	723.18	6.9	Clear to turbid, no odor
3/28/22	5.97	19.70	13.73	1.32	724.51	5.6	Well abandoned

MW-1

Ground Elev.: 725.5 (feet MSL) Screen Interval: 5.1 to 15.1 (feet bgs)
TOC Elev.: 725.21 (feet MSL) 720.4 to 710.4 (feet MSL)

Date	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Water Column (feet)	Water Column (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
4/27/22	6.91	14.85	7.94	---	718.30	7.2	Slightly turbid to clear
4/29/22	6.94	14.85	7.91	-0.03	718.27	7.2	Clear
6/30/22	7.46	14.85	7.39	-0.52	717.75	7.8	Clear, no odor, good recovery

MW-2

Ground Elev.: 725.9 (feet MSL) Screen Interval: 5.3 to 15.3 (feet bgs)
TOC Elev.: 725.46 (feet MSL) 720.6 to 710.6 (feet MSL)

Date	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Water Column (feet)	Water Column (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
4/27/22	3.69	14.90	11.21	---	721.77	4.1	Turbid to clear
4/29/22	3.96	14.90	10.94	-0.27	721.50	4.4	Clear
6/30/22	6.09	14.90	8.81	-2.13	719.37	6.5	Clear, no odor, good recovery

MW-3

Ground Elev.: 730.0 (feet MSL) Screen Interval: 13.7 to 23.7 (feet bgs)
TOC Elev.: 729.52 (feet MSL) 716.3 to 706.3 (feet MSL)

Date	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Water Column (feet)	Water Column (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
4/27/22	19.99	23.23	3.24	---	709.53	20.5	Turbid
4/29/22	9.31	23.23	13.92	10.68	720.21	9.8	Clear
6/30/22	8.26	23.23	14.97	1.05	721.26	8.8	Clear, no odor, moderate recovery

Notes:

1. Temporary Monitoring Wells TW-1, 2, 5, 7, and 8 surveyed by The Sigma Group, Inc. on February 23, 2022. Monitoring Wells MW-1, 2, and 3 surveyed by The Sigma Group, Inc. on April 26 and May 17, 2022 with Trimble GPS receiver.
2. feet MSL = feet above Mean Sea Level
3. feet bgs = feet below ground surface
4. feet TOC = feet below top of casing

Data entered / updated by: EKJ Date: 7/6/2022
Data checked by: CCK Date: 7/6/2022

Table 3
Groundwater Analytical Results Table
5 Points Development - 3317-3345 North MLK Drive and 456 West Concordia Avenue, Milwaukee, WI
Sigma Project No. 20457

Well Location:		TW-1	TW-2	TW-5	TW-8	MW-1		MW-2		MW-3		NR 140 ES	NR 140 PAL
Date:		2/18/22	2/18/22	2/18/22	2/21/22	4/29/22	6/30/22	4/29/22	6/30/22	4/29/22	6/30/22		
Water Elevation* (feet MSL):		NA	NA	NA	NA	718.27	717.75	721.50	719.37	720.21	721.26		
VOCs													
1,4-Dioxane	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	0.3
Benzene	µg/L	<0.3	<0.3	<0.3	<0.3	NA	NA	NA	NA	NA	NA	5	0.5
Bromobenzene	µg/L	<0.34	<0.34	<0.34	<0.34	NA	NA	NA	NA	NA	NA	NS	NS
Bromodichloromethane	µg/L	<0.36	<0.36	<0.36	<0.36	NA	NA	NA	NA	NA	NA	0.6	0.06
Bromoform	µg/L	<0.42	<0.42	<0.42	<0.42	NA	NA	NA	NA	NA	NA	4.4	0.44
tert-Butylbenzene	µg/L	<0.37	<0.37	<0.37	<0.37	NA	NA	NA	NA	NA	NA	NS	NS
sec-Butylbenzene	µg/L	<0.33	<0.33	<0.33	<0.33	NA	NA	NA	NA	NA	NA	NS	NS
n-Butylbenzene	µg/L	<0.71	<0.71	<0.71	<0.71	NA	NA	NA	NA	NA	NA	NS	NS
Carbon Tetrachloride	µg/L	<0.34	<0.34	<0.34	<0.34	NA	NA	NA	NA	NA	NA	5	0.5
Chlorobenzene	µg/L	<0.29	<0.29	<0.29	<0.29	NA	NA	NA	NA	NA	NA	100	20
Chloroethane	µg/L	<0.62	<0.62	<0.62	<0.62	NA	NA	NA	NA	NA	NA	400	80
Chloroform	µg/L	<0.33	<0.33	<0.33	<0.33	NA	NA	NA	NA	NA	NA	6	0.6
Chloromethane	µg/L	<0.74	<0.74	<0.74	<0.74	NA	NA	NA	NA	NA	NA	30	3
2-Chlorotoluene	µg/L	<0.34	<0.34	<0.34	<0.34	NA	NA	NA	NA	NA	NA	NS	NS
4-Chlorotoluene	µg/L	<0.4	<0.4	<0.4	<0.4	NA	NA	NA	NA	NA	NA	NS	NS
1,2-Dibromo-3-Chloropropane	µg/L	<0.74	<0.74	<0.74	<0.74	NA	NA	NA	NA	NA	NA	0.2	0.02
Dibromochloromethane	µg/L	<0.36	<0.36	<0.36	<0.36	NA	NA	NA	NA	NA	NA	60	6
1,4-Dichlorobenzene	µg/L	<0.49	<0.49	<0.49	<0.49	NA	NA	NA	NA	NA	NA	75	15
1,3-Dichlorobenzene	µg/L	<0.35	<0.35	<0.35	<0.35	NA	NA	NA	NA	NA	NA	600	120
1,2-Dichlorobenzene	µg/L	<0.4	<0.4	<0.4	<0.4	NA	NA	NA	NA	NA	NA	600	60
Dichlorodifluoromethane	µg/L	<0.3	<0.3	<0.3	<0.3	NA	NA	NA	NA	NA	NA	1,000	200
1,2-Dichloroethane	µg/L	<0.43	<0.43	<0.43	<0.43	NA	NA	NA	NA	NA	NA	5	0.5
1,1-Dichloroethane	µg/L	<0.43	<0.43	<0.43	<0.43	NA	NA	NA	NA	NA	NA	850	85
1,1-Dichloroethene	µg/L	<0.43	<0.43	<0.43	<0.43	NA	NA	NA	NA	NA	NA	7	0.7
cis-1,2-Dichloroethene	µg/L	<0.32	<0.32	<0.32	<0.32	NA	NA	NA	NA	NA	NA	70	7
trans-1,2-Dichloroethene	µg/L	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	100	20
1,2-Dichloropropane	µg/L	<0.39	<0.39	<0.39	<0.39	NA	NA	NA	NA	NA	NA	5	0.5
1,3-Dichloropropane	µg/L	<0.38	<0.38	<0.38	<0.38	NA	NA	NA	NA	NA	NA	NS	NS
trans-1,3-Dichloropropene	µg/L	<0.41	<0.41	<0.41	<0.41	NA	NA	NA	NA	NA	NA	0.40	0.04
cis-1,3-Dichloropropene	µg/L	<0.41	<0.41	<0.41	<0.41	NA	NA	NA	NA	NA	NA	0.40	0.04
Di-isopropyl ether	µg/L	<0.48	<0.48	<0.48	<0.48	NA	NA	NA	NA	NA	NA	NS	NS
EDB (1,2-Dibromoethane)	µg/L	<0.39	<0.39	<0.39	<0.39	NA	NA	NA	NA	NA	NA	0.05	0.005
Ethylbenzene	µg/L	<0.33	<0.33	<0.33	<0.33	NA	NA	NA	NA	NA	NA	700	140
Hexachlorobutadiene	µg/L	<0.81	<0.81	<0.81	<0.81	NA	NA	NA	NA	NA	NA	NS	NS
Isopropylbenzene	µg/L	<0.34	<0.34	<0.34	<0.34	NA	NA	NA	NA	NA	NA	NS	NS
p-Isopropyltoluene	µg/L	<0.47	<0.47	<0.47	<0.47	NA	NA	NA	NA	NA	NA	NS	NS
Methylene Chloride	µg/L	<0.79	<0.79	<0.79	<0.79	NA	NA	NA	NA	NA	NA	5	0.5
Methyl-tert-butyl-ether	µg/L	<0.47	<0.47	<0.47	<0.47	NA	NA	NA	NA	NA	NA	60	12
Naphthalene	µg/L	<1.4	<1.4	<1.4	<1.4	NA	NA	NA	NA	NA	NA	100	10
n-Propylbenzene	µg/L	<0.39	<0.39	<0.39	<0.39	NA	NA	NA	NA	NA	NA	NS	NS
1,1,2,2-Tetrachloroethane	µg/L	<0.43	<0.43	<0.43	<0.43	NA	NA	NA	NA	NA	NA	0.2	0.02
1,1,1,2-Tetrachloroethane	µg/L	<0.55	<0.55	<0.55	<0.55	NA	NA	NA	NA	NA	NA	70	7
Tetrachloroethene	µg/L	<0.47	<0.47	<0.47	<0.47	NA	NA	NA	NA	NA	NA	5	0.5
Toluene	µg/L	<0.33	<0.33	<0.33	<0.33	NA	NA	NA	NA	NA	NA	800	160
1,2,4-Trichlorobenzene	µg/L	<0.63	<0.63	<0.63	<0.63	NA	NA	NA	NA	NA	NA	70	14
1,2,3-Trichlorobenzene	µg/L	<1.4	<1.4	<1.4	<1.4	NA	NA	NA	NA	NA	NA	NS	NS
1,1,1-Trichloroethane	µg/L	<0.33	<0.33	<0.33	<0.33	NA	NA	NA	NA	NA	NA	200	40
1,1,2-Trichloroethane	µg/L	<0.42	<0.42	<0.42	<0.42	NA	NA	NA	NA	NA	NA	5	0.5
Trichloroethene (TCE)	µg/L	<0.38	<0.38	<0.38	<0.38	NA	NA	NA	NA	NA	NA	5	0.5
Trichlorofluoromethane	µg/L	<0.33	<0.33	<0.33	<0.33	NA	NA	NA	NA	NA	NA	3,490	698
1,2,4-Trimethylbenzene	µg/L	<0.35	<0.35	<0.35	<0.35	NA	NA	NA	NA	NA	NA	NS	NS
1,3,5-Trimethylbenzene	µg/L	<0.41	<0.41	<0.41	<0.41	NA	NA	NA	NA	NA	NA	NS	NS
Total Trimethylbenzene	µg/L	<0.76	<0.76	<0.76	<0.76	NA	NA	NA	NA	NA	NA	480	96
Vinyl Chloride	µg/L	<0.15	<0.15	<0.15	<0.15	NA	NA	NA	NA	NA	NA	0.2	0.02
Xylenes, Total	µg/L	<0.101	<0.101	<0.101	<0.101	NA	NA	NA	NA	NA	NA	2,000	400
PAHs													
Acenaphthene	µg/L	0.011 "J"	0.081	NA	NA	0.0245 "J"	0.192	0.0113 "J"	0.102	0.0258 "J"	<0.0094	NS	NS
Acenaphthylene	µg/L	< 0.0156	< 0.0156	NA	NA	<0.0156	0.0277 "J"	<0.0156	<0.0156	0.0187 "J"	<0.0156	NS	NS
Anthracene	µg/L	< 0.015	0.079	NA	NA	<0.015	0.086	<0.015	0.04 "J"	0.045 "J"	0.0177 "J"	3,000	600
Benzo(a)anthracene	µg/L	0.032 "J"	0.224	NA	NA	<0.02	0.06 "J"	<0.02	<0.02	0.053 "J"	<0.02	NS	NS
Benzo(a)pyrene	µg/L	*0.0209 "J" ** *	*0.174*	NA	NA	<0.0167	*0.037 "J"** *	<0.0167	<0.0167	*0.0303 "J" ** *	<0.0167	0.2	0.02
Benzo(b)fluoranthene	µg/L	*0.0201 "J" ** *	**0.252**	NA	NA	<0.016	*0.033 "J"** *	<0.016	<0.016	*0.033 "J" ** *	<0.016	0.2	0.02
Benzo(ghi)perylene	µg/L	< 0.0142	0.105	NA	NA	<0.0142	0.033 "J"	<0.0142	<0.0142	0.0255 "J"	<0.0142	NS	NS
Benzo(k)fluoranthene	µg/L	0.0181 "J"	0.126	NA	NA	<0.0146	0.0316 "J"	<0.0146	<0.0146	0.0279 "J"	<0.0146	NS	NS
Chrysene	µg/L	*0.0284 "J" ** *	**0.249**	NA	NA	<0.0157	*0.057*	<0.0157	<0.0157	*0.054*	<0.0157	0.2	0.02
Dibenzo(a,h)anthracene	µg/L	< 0.0173	0.0272 "J"	NA	NA	<0.0173	0.0255 "J"	<0.0173	<0.0173	0.0234 "J"	<0.0173	NS	NS
Fluoranthene	µg/L	0.0298	0.6	NA	NA	0.048	0.266	0.043	0.0301	0.079	0.0161 "J"	400	80
Fluorene	µg/L	0.015 "J"	0.045	NA	NA	0.0261	0.184	0.0191 "J"	0.06	0.042	0.0142 "J"	400	80
Indeno(1,2,3-cd)pyrene	µg/L	< 0.0121	0.095	NA	NA	<0.0121	0.0223 "J"	<0.0121	<0.0121	0.0192 "J"	<0.0121	NS	NS
1-Methylnaphthalene	µg/L	< 0.0191	< 0.0191	NA	NA	<0.0191	0.033 "J"	<0.0191	0.043 "J"	<0.0191	<0.0191	NS	NS
2-Methylnaphthalene	µg/L	0.0217 "J"	< 0.0186	NA	NA	<0.0186	0.03 "J"	<0.0186	0.04 "J"	<0.0186	<0.0186	NS	NS
Naphthalene	µg/L	< 0.03	< 0.03	NA	NA	<0.03	0.072 "J"	<0.03	0.195	<0.03	<0.03	100	10
Phenanthrene	µg/L	0.042 "J"	0.206	NA	NA	0.048	0.167	0.052	0.095	0.056	0.0247 "J"	NS	NS
Pyrene	µg/L	0.0258 "J"	0.35	NA	NA	0.036 "J"	0.182	0.034 "J"	0.0235 "J"	0.091	0.0214 "J"	250	50
Dissolved Metals													
Arsenic	µg/L	<4.4	<4.4	<4.4	NA	NA	NA	NA	NA	NA	NA	10	1
Barium	µg/L	44.1	26.6	63.6	NA	NA	NA	NA	NA	NA	NA	2,000	400
Cadmium	µg/L	*0.762 "J" ** *	<0.479	<0.479	NA	NA	NA	NA	NA	NA	NA	5	0.5
Chromium	µg/L	<1.4	<1.4	2.75 "J"	NA	NA	NA	NA	NA	NA	NA	100	10
Lead	µg/L	<2.99	<2.99	<2.99	NA	<0.8	NA	<0.8	NA	<0.8	NA	15	1.5
Mercury	µg/L	<0.1	<0.1	<0.1	NA	NA	NA	NA	NA	NA	NA	2	0.2
Selenium	µg/L	<7.35	<7.35	<7.35	NA	NA	NA	NA	NA	NA	NA	50	10
Silver	µg/L	<1.54	<1.54	<1.54	NA	NA	NA	NA	NA	NA	NA	50	10

Notes:
1. NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
2. NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
3. NS = no standard NA = Not Analyzed
4. µg/L = micrograms per liter (equivalent to parts per billion, ppb)
5. Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation.
6. Trip blank results: 2/21/2022: All VOCs reported below laboratory detection limits.
   6/30/2022: Not Collected.
7. Equipment blank results: 2/21/2022: Not Collected
   6/30/2022: Not Collected.
8. Exceedances: **BOLD** = Concentration exceeds NR 140 ES
   ITALICS = Concentration exceeds NR 140 PAL
9. Special notes: * = monitoring well screen submerged below water table
   ** = not an NR 140 ES or PAL exceedance per NR 140.14(3)(c)

Data Entered By: EKJ Date: 7/6/2022
Data Reviewed By: CCK Date: 7/6/2022

Synergy Environmental Lab, LLC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

CORY KATZBAN
THE SIGMA GROUP, INC.
1300 W. CANAL STREET
MILWAUKEE. WI 53233

Report Date *05-Jul-22*

Project Name 3317 N DR MARTIN LUTHER KING **Invoice #** E41156
Project # 20457

Lab Code 5041156A
Sample ID MW-1
Sample Matrix Water
Sample Date 6/30/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PAH SIM										
Acenaphthene	0.192	ug/l	0.0094	0.03	1	M8270C	7/1/2022	7/1/2022	NJC	1
Acenaphthylene	0.0277 "J"	ug/l	0.0156	0.0495	1	M8270C	7/1/2022	7/1/2022	NJC	1
Anthracene	0.086	ug/l	0.015	0.0478	1	M8270C	7/1/2022	7/1/2022	NJC	1
Benzo(a)anthracene	0.06 "J"	ug/l	0.02	0.067	1	M8270C	7/1/2022	7/1/2022	NJC	1
Benzo(a)pyrene	0.037 "J"	ug/l	0.0167	0.0531	1	M8270C	7/1/2022	7/1/2022	NJC	1
Benzo(b)fluoranthene	0.033 "J"	ug/l	0.016	0.0509	1	M8270C	7/1/2022	7/1/2022	NJC	1
Benzo(g,h,i)perylene	0.033 "J"	ug/l	0.0142	0.0451	1	M8270C	7/1/2022	7/1/2022	NJC	1
Benzo(k)fluoranthene	0.0316 "J"	ug/l	0.0146	0.0463	1	M8270C	7/1/2022	7/1/2022	NJC	1
Chrysene	0.057	ug/l	0.0157	0.0499	1	M8270C	7/1/2022	7/1/2022	NJC	1
Dibenzo(a,h)anthracene	0.0255 "J"	ug/l	0.0173	0.0549	1	M8270C	7/1/2022	7/1/2022	NJC	1
Fluoranthene	0.266	ug/l	0.0088	0.0281	1	M8270C	7/1/2022	7/1/2022	NJC	1
Fluorene	0.184	ug/l	0.0079	0.0251	1	M8270C	7/1/2022	7/1/2022	NJC	1
Indeno(1,2,3-cd)pyrene	0.0223 "J"	ug/l	0.0121	0.0385	1	M8270C	7/1/2022	7/1/2022	NJC	1
1-Methyl naphthalene	0.033 "J"	ug/l	0.0191	0.0609	1	M8270C	7/1/2022	7/1/2022	NJC	1
2-Methyl naphthalene	0.03 "J"	ug/l	0.0186	0.059	1	M8270C	7/1/2022	7/1/2022	NJC	1
Naphthalene	0.072 "J"	ug/l	0.03	0.1	1	M8270C	7/1/2022	7/1/2022	NJC	1
Phenanthrene	0.167	ug/l	0.0143	0.0456	1	M8270C	7/1/2022	7/1/2022	NJC	1
Pyrene	0.182	ug/l	0.0121	0.0386	1	M8270C	7/1/2022	7/1/2022	NJC	1

Project Name 3317 N DR MARTIN LUTHER KING **Invoice #** E41156
Project # 20457

Lab Code 5041156B
Sample ID MW-2
Sample Matrix Water
Sample Date 6/30/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PAH SIM										
Acenaphthene	0.102	ug/l	0.0094	0.03	1	M8270C	7/1/2022	7/1/2022	NJC	1
Acenaphthylene	< 0.0156	ug/l	0.0156	0.0495	1	M8270C	7/1/2022	7/1/2022	NJC	1
Anthracene	0.04 "J"	ug/l	0.015	0.0478	1	M8270C	7/1/2022	7/1/2022	NJC	1
Benzo(a)anthracene	< 0.02	ug/l	0.02	0.067	1	M8270C	7/1/2022	7/1/2022	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	7/1/2022	7/1/2022	NJC	1
Benzo(b)fluoranthene	< 0.016	ug/l	0.016	0.0509	1	M8270C	7/1/2022	7/1/2022	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	7/1/2022	7/1/2022	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	7/1/2022	7/1/2022	NJC	1
Chrysene	< 0.0157	ug/l	0.0157	0.0499	1	M8270C	7/1/2022	7/1/2022	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	7/1/2022	7/1/2022	NJC	1
Fluoranthene	0.0301	ug/l	0.0088	0.0281	1	M8270C	7/1/2022	7/1/2022	NJC	1
Fluorene	0.06	ug/l	0.0079	0.0251	1	M8270C	7/1/2022	7/1/2022	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	7/1/2022	7/1/2022	NJC	1
1-Methyl naphthalene	0.043 "J"	ug/l	0.0191	0.0609	1	M8270C	7/1/2022	7/1/2022	NJC	1
2-Methyl naphthalene	0.04 "J"	ug/l	0.0186	0.059	1	M8270C	7/1/2022	7/1/2022	NJC	1
Naphthalene	0.195	ug/l	0.03	0.1	1	M8270C	7/1/2022	7/1/2022	NJC	1
Phenanthrene	0.095	ug/l	0.0143	0.0456	1	M8270C	7/1/2022	7/1/2022	NJC	1
Pyrene	0.0235 "J"	ug/l	0.0121	0.0386	1	M8270C	7/1/2022	7/1/2022	NJC	1

Lab Code 5041156C
Sample ID MW-3
Sample Matrix Water
Sample Date 6/30/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PAH SIM										
Acenaphthene	< 0.0094	ug/l	0.0094	0.03	1	M8270C	7/1/2022	7/1/2022	NJC	1
Acenaphthylene	< 0.0156	ug/l	0.0156	0.0495	1	M8270C	7/1/2022	7/1/2022	NJC	1
Anthracene	0.0177 "J"	ug/l	0.015	0.0478	1	M8270C	7/1/2022	7/1/2022	NJC	1
Benzo(a)anthracene	< 0.02	ug/l	0.02	0.067	1	M8270C	7/1/2022	7/1/2022	NJC	1
Benzo(a)pyrene	< 0.0167	ug/l	0.0167	0.0531	1	M8270C	7/1/2022	7/1/2022	NJC	1
Benzo(b)fluoranthene	< 0.016	ug/l	0.016	0.0509	1	M8270C	7/1/2022	7/1/2022	NJC	1
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	7/1/2022	7/1/2022	NJC	1
Benzo(k)fluoranthene	< 0.0146	ug/l	0.0146	0.0463	1	M8270C	7/1/2022	7/1/2022	NJC	1
Chrysene	< 0.0157	ug/l	0.0157	0.0499	1	M8270C	7/1/2022	7/1/2022	NJC	1
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	7/1/2022	7/1/2022	NJC	1
Fluoranthene	0.0161 "J"	ug/l	0.0088	0.0281	1	M8270C	7/1/2022	7/1/2022	NJC	1
Fluorene	0.0142 "J"	ug/l	0.0079	0.0251	1	M8270C	7/1/2022	7/1/2022	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	7/1/2022	7/1/2022	NJC	1
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	7/1/2022	7/1/2022	NJC	1
2-Methyl naphthalene	< 0.0186	ug/l	0.0186	0.059	1	M8270C	7/1/2022	7/1/2022	NJC	1
Naphthalene	< 0.03	ug/l	0.03	0.1	1	M8270C	7/1/2022	7/1/2022	NJC	1
Phenanthrene	0.0247 "J"	ug/l	0.0143	0.0456	1	M8270C	7/1/2022	7/1/2022	NJC	1
Pyrene	0.0214 "J"	ug/l	0.0121	0.0386	1	M8270C	7/1/2022	7/1/2022	NJC	1

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	Laboratory QC within limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

www.synergy-lab.net
1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • mrsynergy@wi.twcbc.com

Chain # 44382

Page 1 of 1

Sample Handling Request

____Rush Analysis Date Required: _____
(Rushes accepted only with prior authorization)
____Normal Turn Around

Lab I.D. #

QUOTE # :

Project #: 20457

Sampler: (signature)

Project (Name / Location): 3317 N. Dr. Martin Luther King Jr. Dr.

Reports To: Cory Katzban	Invoice To:
Company The Sigma Group	Company
Address 1300 canal st	Address
City State Zip Milwaukee WI 53233	City State Zip
Phone 414-588-8617	Phone
Email Ckatzban@thesigmagroup.com	Email

Analysis Requested | **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	VOC AIR (TO - 15)	8-RCRA METALS	PID/ FID
504156 A	MW-1	6/30	8:55	N	1	GW	none						X										
B	MW-2	6/30		N	1	GW	none						X										
C	MW-3	6/30	10:20	N	1	GW	none						X										
	MS	6/30	—	N	1	GW	none						X										
	MSD	6/30	—	N	1	GW	none						X										

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge, etc.)

Sample Integrity - To be completed by receiving lab.

Method of Shipment: CS

Temp. of Temp. Blank: _____ °C On Ice: X

Cooler seal intact upon receipt: X Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
	12:00	6/30/22			

Received in Laboratory By: Time: 8:00 Date: 7/1/22