

Pfeiffer, Jane K - DNR

From: Robert Reineke <rreineke@ksinghengineering.com>
Sent: Friday, March 24, 2023 2:03 PM
To: Pfeiffer, Jane K - DNR; Pratap Singh
Cc: Mylotta, Pamela A - DNR
Subject: RE: Community Within the Corridor East Block (02-41-263675) - Occupancy Update Requested
Attachments: Vacuum Measurements.pdf; Hotspots and Confirmatory Sampling Figure.pdf; Table Hotspot Confirmatory Sample Results.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

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Jane,

Please find attached a figure showing the vacuum measurements, a figure showing the hot spot excavations and confirmatory sample locations, and a table summarizing the hot spot confirmatory samples.

I expect hot spot samples 1 to 5 will be of principal interest to WDNR.

Robert Reineke, PE

Principal Engineer | rreineke@ksinghengineering.com
262.821.1171, ext. 111 (p) | 262.424.5191 (cell)
www.ksinghengineering.com



From: Pfeiffer, Jane K - DNR <jane.pfeiffer@wisconsin.gov>
Sent: Friday, March 24, 2023 10:22 AM
To: Robert Reineke <rreineke@ksinghengineering.com>; Pratap Singh <psingh@ksinghengineering.com>
Cc: Mylotta, Pamela A - DNR <Pamela.Mylotta@wisconsin.gov>
Subject: RE: Community Within the Corridor East Block (02-41-263675) - Occupancy Update Requested

Robert – To ensure that the DNR can review the soil excavation information as soon as possible (before 2PM), send the soil confirmation data table and map as soon as possible. The comprehensive RADR can be presented separately when it is complete. As a reminder, per Wis. Admin. Code § NR 716.14, all sampling results must be submitted to the DNR within 10 days of receiving laboratory data. Therefore, these results are overdue.

Thanks, Jane

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Jane Pfeiffer

Phone: (414) 435-8021

jane.pfeiffer@wisconsin.gov

From: Robert Reineke <rreineke@ksinghengineering.com>
Sent: Friday, March 24, 2023 10:17 AM
To: Pfeiffer, Jane K - DNR <jane.pfeiffer@wisconsin.gov>; Pratap Singh <psingh@ksinghengineering.com>
Cc: Mylotta, Pamela A - DNR <Pamela.Mylotta@wisconsin.gov>
Subject: RE: Community Within the Corridor East Block (02-41-263675) - Occupancy Update Requested

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Jane,

We've been working on the RADR for the project for a while. We're trying to finish it today rather than pulling out data and figures. We're aiming to get you the additional information requested by the end of day today.

Robert Reineke, PE

Principal Engineer | rreineke@ksinghengineering.com

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From: Pfeiffer, Jane K - DNR <jane.pfeiffer@wisconsin.gov>
Sent: Friday, March 24, 2023 10:01 AM
To: Robert Reineke <rreineke@ksinghengineering.com>; Pratap Singh <psingh@ksinghengineering.com>
Cc: Mylotta, Pamela A - DNR <Pamela.Mylotta@wisconsin.gov>
Subject: RE: Community Within the Corridor East Block (02-41-263675) - Occupancy Update Requested
Importance: High

Robert – Please send me the soil excavation/confirmation sample data, the depth of excavations, and amount of soil generated/disposed of as soon as possible. Include a map showing sample locations/data. Ideally before 2PM today. This can be sent in an email format.

Thank you, Jane

We are committed to service excellence.

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Jane Pfeiffer

Phone: (414) 435-8021

jane.pfeiffer@wisconsin.gov

From: Pfeiffer, Jane K - DNR
Sent: Thursday, March 23, 2023 8:32 PM
To: Robert Reineke <rreineke@ksinghengineering.com>; Pratap Singh <psingh@ksinghengineering.com>; Shane LaFave <Shane@roerscompanies.com>; Que El-Amin <que@scott-crawford.com>
Cc: Mylotta, Pamela A - DNR <Pamela.Mylotta@wisconsin.gov>; Hedman, Curtis J - DHS <Curtis.Hedman@dhs.wisconsin.gov>; Kloczko, Nathan F - DHS <nathan.kloczko@dhs.wisconsin.gov>
Subject: RE: Community Within the Corridor East Block (02-41-263675) - Occupancy Update Requested

Hi Robert – Thank you for presenting the report. The DNR will reach out tomorrow with feedback.

In the meantime, please confirm whether K. Singh has collected the PFE measurements yet. If so, please submit these tabulated results to the DNR as soon as feasible with an applicable figure.

Best, Jane

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Jane Pfeiffer

Phone: (414) 435-8021

jane.pfeiffer@wisconsin.gov

From: Robert Reineke <rreineke@ksinghengineering.com>
Sent: Thursday, March 23, 2023 7:03 PM
To: Pfeiffer, Jane K - DNR <jane.pfeiffer@wisconsin.gov>; Pratap Singh <psingh@ksinghengineering.com>; Shane LaFave <Shane@roerscompanies.com>; Que El-Amin <que@scott-crawford.com>
Cc: Mylotta, Pamela A - DNR <Pamela.Mylotta@wisconsin.gov>; Hedman, Curtis J - DHS <Curtis.Hedman@dhs.wisconsin.gov>; Kloczko, Nathan F - DHS <nathan.kloczko@dhs.wisconsin.gov>
Subject: RE: Community Within the Corridor East Block (02-41-263675) - Occupancy Update Requested

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Jane,

Please find attached the data that you requested.

It is our understanding that there are women of child bearing age in the building.

Please feel free to contact me with any questions you may have while we put into motion these contingency plans.

Robert Reineke, PE

Principal Engineer | rreineke@ksinghengineering.com

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From: Pfeiffer, Jane K - DNR <jane.pfeiffer@wisconsin.gov>

Sent: Thursday, March 23, 2023 4:40 PM

To: Pratap Singh <psingh@ksinghengineering.com>; Shane LaFave <Shane@roerscompanies.com>; Que El-Amin <que@scott-crawford.com>

Cc: Robert Reineke <rreineke@ksinghengineering.com>; Mylotta, Pamela A - DNR <Pamela.Mylotta@wisconsin.gov>;

Hedman, Curtis J - DHS <Curtis.Hedman@dhs.wisconsin.gov>; Kloczko, Nathan F - DHS

<nathan.kloczko@dhs.wisconsin.gov>

Subject: RE: Community Within the Corridor East Block (02-41-263675) - Occupancy Update Requested

Importance: High

Good Afternoon All – The purpose of this email is to remind you to send the below requested information by the end of the day today. As indicated below, *at a minimum*, provide the following information:

- Lab data sheets
- Information on whether women of child bearing years are currently occupying the site buildings

Thank you, Jane

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Jane Pfeiffer

Phone: (414) 435-8021

jane.pfeiffer@wisconsin.gov

From: Pfeiffer, Jane K - DNR

Sent: Thursday, March 23, 2023 11:06 AM

To: Pratap Singh <psingh@ksinghengineering.com>; Shane LaFave <Shane@roerscompanies.com>; Que El-Amin <que@scott-crawford.com>

Cc: Robert Reineke <rreineke@ksinghengineering.com>; Mylotta, Pamela A - DNR <Pamela.Mylotta@wisconsin.gov>;

Hedman, Curtis J - DHS <Curtis.Hedman@dhs.wisconsin.gov>; Kloczko, Nathan F - DHS

<nathan.kloczko@dhs.wisconsin.gov>

Subject: RE: Community Within the Corridor East Block (02-41-263675) - Occupancy Update Requested

Importance: High

Hi All – Additionally, determine whether there are women of childbearing years that are currently occupying the site buildings, and present this information the DNR **by the end of the day today** alongside the commissioning results. Please note that the Centers for Disease Control and Prevention defines this demographic to be women ages of 15 to 44.

Thank you, Jane

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Jane Pfeiffer

Phone: (414) 435-8021

jane.pfeiffer@wisconsin.gov

From: Pfeiffer, Jane K - DNR

Sent: Thursday, March 23, 2023 8:36 AM

To: Pratap Singh <psingh@ksinghengineering.com>; Shane LaFave <Shane@roerscompanies.com>; Que El-Amin <que@scott-crawford.com>

Cc: Robert Reineke <rreineke@ksinghengineering.com>; Mylotta, Pamela A - DNR <Pamela.Mylotta@wisconsin.gov>

Subject: RE: Community Within the Corridor East Block (02-41-263675) - Occupancy Update Requested

Importance: High

Good Morning,

Based on my phone conversations with K. Singh yesterday (03/22), I understand that the first round of commissioning identified residential vapor action level (VAL) exceedances for site contaminants of concern, namely trichloroethene (TCE), from indoor air samples collected within the site buildings, which are primarily used for residential living spaces. The DNR requests that the commissioning results be provided as soon as possible. These results should be tabulated and a map should be provided that includes sample locations, data, and labels indicating which units are presently occupied. **This requested information should be provided, at the very latest, at by the end of the day today (03/23).** If the tabulated data and map cannot be provided in this timeframe, then, at a minimum, submit the lab data sheets.

Thank you, Jane

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Jane Pfeiffer

Phone: (414) 435-8021

jane.pfeiffer@wisconsin.gov

From: Pratap Singh <psingh@ksinghengineering.com>

Sent: Wednesday, March 22, 2023 6:43 PM

To: Pfeiffer, Jane K - DNR <jane.pfeiffer@wisconsin.gov>; Shane LaFave <Shane@roerscompanies.com>; Que El-Amin <que@scott-crawford.com>

Cc: Robert Reineke <rreineke@ksinghengineering.com>; Mylotta, Pamela A - DNR <Pamela.Mylotta@wisconsin.gov>

Subject: RE: Community Within the Corridor East Block (02-41-263675) - Occupancy Update Requested

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Hi Jane,

East Block has some occupancy. We are working on taking corrective measures.
We will keep you posted.

Thank you.

Pratap N. Singh, Ph.D., PE

Chief Executive Officer | psingh@ksinghengineering.com

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www.ksinghengineering.com



From: Pfeiffer, Jane K - DNR <jane.pfeiffer@wisconsin.gov>

Sent: Wednesday, March 22, 2023 4:13 PM

To: Shane LaFave <Shane@roerscompanies.com>; Que El-Amin <que@scott-crawford.com>

Cc: Robert Reineke <rreineke@ksinghengineering.com>; Pratap Singh <psingh@ksinghengineering.com>; Mylotta, Pamela A - DNR <Pamela.Mylotta@wisconsin.gov>

Subject: Community Within the Corridor East Block (02-41-263675) - Occupancy Update Requested

Importance: High

Good Afternoon Shane and Que,

Can you please provide an update on the occupancy schedule for the residential living spaces at the above-referenced site?

Thank you, Jane

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Jane K. Pfeiffer

Hydrogeologist - Remediation & Redevelopment Program

Wisconsin Department of Natural Resources

Phone: (414) 435-8021

jane.pfeiffer@wisconsin.gov



TABLE 5
CONFIRMATION SOIL SAMPLE TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40441

Sample	Units	Method	NR 720 RCLs for GW Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	EB-HS-1	EB-HS-2	EB-HS-3	EB-HS-4	EB-HS-5	EB-HS-6	EB-HS-7	EB-HS-8	EB-HS-9
						1.5'	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'	1.33'	1.33'
Depth (feet)						ML-CL	ML-CL	ML-CL	ML-CL	ML-CL	ML-CL	ML-CL	ML-CL	ML-CL
Soil Type						Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
Soil Conditions						Interior	Interior	Interior	Interior	Interior	Interior	Interior	Interior	Interior
Sampling Location						7/26/2021	7/26/2021	7/26/2021	7/26/2021	7/26/2021	8/3/2021	8/3/2021	8/4/2021	8/4/2021
Sampling Date														
Physical Characteristics														
Percent Moisture						8.6	9.8	9.9	10.7	13.1	0.0	11.1	6.6	20.1
Percent Solids						91.4	90.2	90.1	89.3	86.9	100.0	88.9	93.4	79.9
Volatile Organic Compounds (VOCs)														
1,1,1,2-Tetrachloroethane	mg/Kg	8260B	0.0534	2.78	12.3	<0.027	<0.028	<0.028	<0.032	<0.070	<0.023	<0.031	<0.028	<0.033
1,1,1-Trichloroethane	mg/Kg	8260B	0.1402	640	640	<0.022	<0.023	<0.023	<0.026	0.12 J	<0.019	<0.026	<0.023	<0.027
1,1,2,2-Tetrachloroethane	mg/Kg	8260B	0.0002	0.81	3.6	<0.023	<0.024	<0.024	<0.027	<0.060	<0.020	<0.027	<0.024	<0.029
1,1,2-Trichloroethane	mg/Kg	8260B	0.0032	1.59	7.01	<0.021	<0.021	<0.021	<0.024	<0.053	<0.018	<0.024	<0.021	<0.025
1,1-Dichloroethane	mg/Kg	8260B	0.4834	5.06	22.2	<0.024	<0.025	<0.025	<0.028	<0.062	<0.020	<0.028	<0.025	<0.029
1,1-Dichloroethene	mg/Kg	8260B	0.005	320	1,190	<0.023	<0.024	<0.024	<0.027	<0.059	<0.019	<0.026	<0.024	<0.028
1,1-Dichloropropene	mg/Kg	8260B	---	---	---	<0.018	<0.018	<0.018	<0.021	<0.045	<0.015	<0.020	<0.018	<0.021
1,2,3-Trichlorobenzene	mg/Kg	8260B	---	62.6	934	<0.027	<0.028	<0.028	<0.032	<0.069	<0.023	<0.031	<0.028	<0.033
1,2,3-Trichloropropane	mg/Kg	8260B	0.0519	0.005	0.109	<0.024	<0.025	<0.025	<0.029	<0.062	<0.021	<0.028	<0.025	<0.030
1,2,4-Trichlorobenzene	mg/Kg	8260B	0.408	24	113	<0.020	<0.021	<0.021	<0.024	<0.051	<0.017	<0.023	<0.021	<0.025
1,2,4-Trimethylbenzene	mg/Kg	8260B	1.3787**	219	219	<0.021	<0.022	<0.022	<0.025	0.94	<0.018	<0.024	<0.022	<0.026
1,2-Dibromo-3-Chloropropane	mg/Kg	8260B	0.0002	0.008	0.092	<0.12	<0.12	<0.12	<0.14	<0.30	<0.099	<0.13	<0.12	<0.14
1,2-Dibromoethane	mg/Kg	8260B	0.000282	0.05	0.221	<0.023	<0.023	<0.023	<0.027	<0.058	<0.019	<0.026	<0.023	<0.028
1,2-Dichlorobenzene	mg/Kg	8260B	1.168	376	376	<0.020	<0.020	<0.020	<0.023	0.60	<0.017	<0.023	<0.020	<0.024
1,2-Dichloroethane	mg/Kg	8260B	0.0028	0.652	2.87	<0.023	<0.024	<0.024	<0.027	<0.059	<0.020	<0.026	<0.024	<0.028
1,2-Dichloropropane	mg/Kg	8260B	0.0033	3.4	15	<0.025	<0.026	<0.026	<0.030	<0.064	<0.021	<0.029	<0.026	<0.031
1,3,5-Trimethylbenzene	mg/Kg	8260B	1.3787**	182	182	<0.022	<0.023	<0.023	<0.026	0.50	<0.019	<0.026	<0.023	<0.027
1,3-Dichlorobenzene	mg/Kg	8260B	1.1528	297	297	<0.024	<0.024	<0.024	<0.028	0.10 J	<0.020	<0.027	<0.024	<0.029
1,3-Dichloropropane	mg/Kg	8260B	0.0003	2.37	10.6	<0.021	<0.022	<0.022	<0.025	<0.054	<0.018	<0.024	<0.022	<0.026
1,4-Dichlorobenzene	mg/Kg	8260B	0.144	3.74	16.4	<0.021	<0.022	<0.022	<0.025	0.40	<0.018	<0.025	<0.022	<0.026
2,2-Dichloropropane	mg/Kg	8260B	---	191	191	<0.026	<0.027	<0.027	<0.031	<0.067	<0.022	<0.030	<0.027	<0.032
2-Chlorotoluene	mg/Kg	8260B	---	907	907	<0.019	<0.019	<0.019	<0.022	<0.047	<0.016	<0.021	<0.019	<0.023
4-Chlorotoluene	mg/Kg	8260B	---	253	253	<0.021	<0.021	<0.021	<0.024	<0.053	<0.017	<0.024	<0.021	<0.025
Benzene	mg/Kg	8260B	0.0051	1.6	7.07	<0.0086	<0.0088	<0.0089	<0.010	<0.022	<0.0073	<0.0098	<0.0089	<0.011
Bromobenzene	mg/Kg	8260B	---	342	679	<0.021	<0.022	<0.022	<0.025	<0.054	<0.018	<0.024	<0.022	<0.026
Bromochloromethane	mg/Kg	8260B	---	216	906	<0.025	<0.026	<0.026	<0.030	<0.064	<0.021	<0.029	<0.026	<0.031
Bromodichloromethane	mg/Kg	8260B	0.0003	0.418	1.83	<0.022	<0.023	<0.023	<0.026	<0.056	<0.019	<0.025	<0.023	<0.027
Bromoform	mg/Kg	8260B	0.0023	25.4	113	<0.029	<0.029	<0.029	<0.033	<0.073	<0.024	<0.033	<0.029	<0.035
Bromomethane	mg/Kg	8260B	0.0051	9.6	43	<0.047	<0.048	<0.048	<0.055	<0.12	<0.040	<0.054	<0.048	<0.057
Carbon tetrachloride	mg/Kg	8260B	0.0039	0.916	4.03	<0.023	<0.023	<0.023	<0.027	<0.058	<0.019	<0.026	<0.023	<0.028
Chlorobenzene	mg/Kg	8260B	---	370	761	<0.023	<0.023	<0.023	<0.027	<0.058	<0.019	<0.026	<0.023	<0.028
Chloroethane	mg/Kg	8260B	0.2266	2,120	2,120	<0.030	<0.030	<0.031	<0.035	<0.076	<0.025	<0.034	<0.031	<0.036
Chloroform	mg/Kg	8260B	0.0033	0.454	1.98	<0.022	<0.022	<0.023	<0.026	0.083 J	<0.018	<0.025	<0.022	<0.027
Chloromethane	mg/Kg	8260B	0.0155	159	669	<0.019	<0.019	<0.019	<0.022	<0.048	<0.016	<0.022	<0.019	<0.023
cis-1,2-Dichloroethene	mg/Kg	8260B	0.0412	156	2,340	<0.024	<0.025	0.032 J	<0.028	0.18	<0.020	<0.028	<0.025	<0.029
cis-1,3-Dichloropropene	mg/Kg	8260B	0.0003	1,210	1,210	<0.025	<0.025	<0.025	<0.029	<0.063	<0.021	<0.028	<0.025	<0.030
Dibromochloromethane	mg/Kg	8260B	0.032	8.28	38.9	<0.029	<0.030	<0.030	<0.034	<0.073	<0.024	<0.033	<0.030	<0.035
Dibromomethane	mg/Kg	8260B	---	34	143	<0.016	<0.016	<0.016	<0.019	<0.041	<0.013	<0.018	<0.016	<0.019
Dichlorodifluoromethane	mg/Kg	8260B	3.0863	126	530	<0.040	<0.041	<0.041	<0.047	<0.10	<0.034	<0.045	<0.041	<0.048
Ethylbenzene	mg/Kg	8260B	1.57	8.02	35.4	<0.011	<0.011	<0.011	<0.013	0.038	<0.0091	<0.012	<0.011	<0.013
Hexachlorobutadiene	mg/Kg	8260B	---	1.63	7.19	<0.026	<0.027	<0.027	<0.031	<0.067	<0.022	<0.030	<0.027	<0.032
Isopropyl ether	mg/Kg	8260B	---	2,260	2,260	<0.016	<0.017	<0.017	<0.019	<0.042	<0.014	<0.019	<0.017	<0.020
Isopropylbenzene	mg/Kg	8260B	---	268	268	<0.023	<0.023	<0.023	<0.027	0.063 J	<0.019	<0.026	<0.023	<0.028
Methyl tert-butyl ether	mg/Kg	8260B	0.027	63.8	282	<0.023	<0.024	<0.024	<0.027	<0.059	<0.020	<0.027	<0.024	<0.028
Methylene Chloride	mg/Kg	8260B	0.0026	61.8	1,150	<0.096	<0.099	<0.099	<0.11	0.31 J	<0.081	<0.11	<0.099	<0.12
Naphthalene	mg/Kg	8260B	0.658182	5.52	24.10	<0.020	0.023 J B	0.041 J B	<0.023	0.71	<0.017	<0.023	0.38	0.046 J
n-Butylbenzene	mg/Kg	8260B	---	108	108	<0.023	<0.023	<0.024	<0.027	<0.058	<0.019	<0.026	<0.024	<0.028
N-Propylbenzene	mg/Kg	8260B	---	264	264	<0.024	<0.025	<0.025	<0.029	0.22	<0.021	<0.028	<0.025	<0.030
p-Isopropyltoluene	mg/Kg	8260B	---	162	162	<0.021	<0.022	<0.022	<0.025	0.13 J	<0.018	<0.024	<0.022	<0.026
sec-Butylbenzene	mg/Kg	8260B	---	145	145	<0.023	<0.024	<0.024	<0.027	0.17	<0.020	<0.027	<0.024	<0.029
Styrene	mg/Kg	8260B	0.22	867	867	<0.023	<0.023	<0.023	<0.027	<0.058	<0.019	<0.026	<0.023	<0.028
tert-Butylbenzene	mg/Kg	8260B	---	183	183	<0.023	<0.024	<0.024	<0.027	<0.060	<0.020	<0.027	<0.024	<0.029
Tetrachloroethene	mg/Kg	8260B	0.0045	33	145	0.036 J	0.092	<0.023	<0.026	0.23	<0.018	<0.025	<0.022	<0.027
Toluene	mg/Kg	8260B	1.1072	818	818	<0.0087	<0.0089	<0.0089	<0.010	0.035 J	<0.0073	<0.0099	<0.0089	<0.011
trans-1,2-Dichloroethene	mg/Kg	8260B	0.0626	1560	1850	<0.021	<0.021	<0.021	<0.024	<0.053	<0.017	<0.024	<0.021	<0.025
trans-1,3-Dichloropropene	mg/Kg	8260B	---	1,510	1,510	<0.021	<0.022	<0.022	<0.025	<0.054	<0.018	<0.024	<0.022	<0.026 *
Trichloroethene	mg/Kg	8260B	0.0036	1.3	8.41	35	15	10	22	220	0.11	0.27	0.33	3.7
Trichlorofluoromethane	mg/Kg	8260B	---	1,230	1,230	<0.025	<0.026	<0.026	<0.030	<0.064	<0.021	<0.029	<0.026	<0.031
Vinyl chloride	mg/Kg	8260B	0.0001	0.067	2.08	<0.015	<0.016	<0.016	<0.018	<0.039	<0.013	<0.018	<0.016	<0.019
Xylenes, Total	mg/Kg	8260B	3.96	1,212	1212</									

TABLE 5
CONFIRMATION SOIL SAMPLE TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40441

Sample	Units	Method	NR 720 RCLs for GW Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	EB-HS-11	EB-HS-12	EB-HS-13	EB-LF	EB-HS-14	EB-HS-15	EB-HS-16	EB-HS-17	EB-HS-18	EB-HS-19
						1.5'	1.5'	1.5'	NA	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'
Depth (feet)						1.5'	1.5'	1.5'	NA	1.5'	1.5'	1.5'	1.5'	1.5'	1.5'
Soil Type						ML-CL	ML-CL	ML-CL	ML-CL	ML-CL	ML-CL	ML-CL	ML-CL	ML-CL	ML-CL
Soil Conditions						Unsaturated Interior	Unsaturated Interior	Unsaturated Interior	Unsaturated Exterior	Unsaturated Interior	Unsaturated Interior	Unsaturated Interior	Unsaturated Interior	Unsaturated Interior	Unsaturated Interior
Sampling Location						Interior	Interior	Interior	Exterior	Interior	Interior	Interior	Interior	Interior	Interior
Sampling Date						8/11/2021	8/11/2021	8/11/2021	8/11/2021	8/13/2021	8/13/2021	8/13/2021	8/13/2021	8/13/2021	8/13/2021
Physical Characteristics															
Percent Moisture						14.5	9.9	7.4	11.5	10.3	10.2	22.1	12.9	17.8	12.0
Percent Solids						85.5	90.1	92.6	88.5	89.7	89.8	77.9	87.1	82.2	88.0
Volatile Organic Compounds (VOCs)															
1,1,1,2-Tetrachloroethane	mg/Kg	8260B	0.0534	2.78	12.3	<0.031	<0.028	<0.027	<0.029	<0.029	<0.028	<0.036	<0.030	<0.034	<0.029
1,1,1-Trichloroethane	mg/Kg	8260B	0.1402	640	640	<0.025	<0.023	<0.022	<0.024	<0.024	<0.023	<0.030	<0.024	<0.028	<0.024
1,1,2,2-Tetrachloroethane	mg/Kg	8260B	0.0002	0.81	3.6	<0.026	<0.024	<0.023	<0.025	<0.025	<0.024	<0.031	<0.026	<0.029	<0.025
1,1,2-Trichloroethane	mg/Kg	8260B	0.0032	1.59	7.01	<0.023	<0.021	<0.020	<0.022	<0.022	<0.021	<0.027	<0.023	<0.026	<0.022
1,1-Dichloroethane	mg/Kg	8260B	0.4834	5.06	22.2	<0.027	<0.025	<0.024	<0.026	<0.026	<0.025	<0.032	<0.026	<0.030	<0.026
1,1-Dichloroethene	mg/Kg	8260B	0.005	320	1,190	<0.026	<0.024	<0.023	<0.025	<0.024	<0.024	<0.030	<0.025	<0.028	<0.024
1,1-Dichloropropene	mg/Kg	8260B	---	---	---	<0.020	<0.018	<0.017	<0.019	<0.019	<0.018	<0.023	<0.019	<0.022	<0.019
1,2,3-Trichlorobenzene	mg/Kg	8260B	---	62.6	934	<0.030	<0.028	<0.026	<0.029	<0.029	<0.028	<0.036	<0.029	<0.033	<0.029
1,2,3-Trichloropropane	mg/Kg	8260B	0.0519	0.005	0.109	<0.027	<0.025	<0.024	<0.026	<0.026	<0.025	<0.032	<0.027	<0.030	<0.026
1,2,4-Trichlorobenzene	mg/Kg	8260B	0.408	24	113	<0.023	<0.021	<0.020	<0.022	<0.021	<0.021	<0.027	<0.022	<0.025	<0.021
1,2,4-Trimethylbenzene	mg/Kg	8260B	1.3787**	219	219	<0.024	<0.022	<0.021	0.038 J	<0.022	<0.022	<0.028	<0.023	<0.026	<0.022
1,2-Dibromo-3-Chloropropane	mg/Kg	8260B	0.0002	0.008	0.092	<0.13	<0.12	<0.11	<0.13	<0.12	<0.12	<0.16	<0.13	<0.14	<0.12
1,2-Dibromoethane	mg/Kg	8260B	0.000282	0.05	0.221	<0.024	<0.024	<0.022	<0.025	<0.024	<0.024	<0.030	<0.025	<0.028	<0.024
1,2-Dichlorobenzene	mg/Kg	8260B	1.168	376	376	<0.022	<0.020	<0.019	<0.021	<0.021	<0.020	<0.026	<0.021	<0.024	<0.021
1,2-Dichloroethane	mg/Kg	8260B	0.0028	0.652	2.87	<0.026	<0.024	<0.023	<0.025	<0.024	<0.024	<0.031	<0.025	<0.028	<0.025
1,2-Dichloropropane	mg/Kg	8260B	0.0033	3.4	15	<0.028	<0.026	<0.025	<0.027	<0.027	<0.026	<0.033	<0.027	<0.031	<0.027
1,3,5-Trimethylbenzene	mg/Kg	8260B	1.3787**	182	182	<0.025	<0.023	<0.022	<0.024	<0.024	<0.023	<0.030	<0.024	<0.028	<0.024
1,3-Dichlorobenzene	mg/Kg	8260B	1.1528	297	297	<0.027	<0.024	<0.023	<0.025	<0.025	<0.024	<0.031	<0.026	<0.029	<0.025
1,3-Dichloropropane	mg/Kg	8260B	0.0003	2.37	10.6	<0.024	<0.022	<0.021	<0.023	<0.023	<0.022	<0.028	<0.023	<0.026	<0.023
1,4-Dichlorobenzene	mg/Kg	8260B	0.144	3.74	16.4	<0.024	<0.022	<0.021	<0.023	<0.023	<0.022	<0.028	<0.023	<0.026	<0.023
2,2-Dichloropropane	mg/Kg	8260B	---	191	191	<0.029	<0.027	<0.026	<0.028	<0.028	<0.027	<0.035	<0.028	<0.032	<0.028
2-Chlorotoluene	mg/Kg	8260B	---	907	907	<0.021	<0.019	<0.018	<0.020	<0.020	<0.019	<0.024	<0.020	<0.023	<0.020
4-Chlorotoluene	mg/Kg	8260B	---	253	253	<0.023	<0.021	<0.020	<0.022	<0.022	<0.021	<0.027	<0.022	<0.025	<0.022
Benzene	mg/Kg	8260B	0.0051	1.6	7.07	<0.0097	<0.0089	<0.0084	<0.0093	<0.0091	0.014 J	<0.011	<0.0094	<0.011	<0.0091
Bromobenzene	mg/Kg	8260B	---	342	679	<0.024	<0.022	<0.021	<0.023	<0.022	<0.022	<0.028	<0.023	<0.026	<0.022
Bromochloromethane	mg/Kg	8260B	---	216	906	<0.028	<0.026	<0.025	<0.027	<0.027	<0.026	<0.033	<0.027	<0.031	<0.027
Bromodichloromethane	mg/Kg	8260B	0.0003	0.418	1.83	<0.025	<0.023	<0.021	<0.024	<0.023	<0.023	<0.029	<0.024	<0.027	<0.023
Bromoform	mg/Kg	8260B	0.0023	25.4	113	<0.032	<0.030	<0.028	<0.031	<0.030	<0.029	<0.038	<0.031	<0.035	<0.030
Bromomethane	mg/Kg	8260B	0.0051	9.6	43	<0.053	<0.049	<0.046	<0.051	<0.050	<0.049	<0.062	<0.051	<0.058	<0.050
Carbon tetrachloride	mg/Kg	8260B	0.0039	0.916	4.03	<0.025	<0.023	<0.022	<0.024	<0.024	<0.023	<0.030	<0.025	<0.028	<0.024
Chlorobenzene	mg/Kg	8260B	---	370	761	<0.026	<0.024	<0.022	<0.025	<0.024	<0.024	<0.030	<0.025	<0.028	<0.024
Chloroethane	mg/Kg	8260B	0.2266	2,120	2,120	<0.033	<0.031	<0.029	<0.032	<0.031	<0.031	<0.039	<0.032	<0.037	<0.032
Chloroform	mg/Kg	8260B	0.0033	0.454	1.98	<0.025	<0.023	<0.021	<0.023	<0.023	<0.023	<0.029	<0.024	<0.027	<0.023
Chloromethane	mg/Kg	8260B	0.0155	159	669	<0.021	<0.020	<0.018	<0.020	<0.020	<0.020	<0.025	<0.021	<0.023	<0.020
cis-1,2-Dichloroethene	mg/Kg	8260B	0.0412	156	2,340	<0.027	<0.025	<0.024	<0.026	<0.025	<0.025	<0.032	<0.026	<0.030	<0.026
cis-1,3-Dichloropropene	mg/Kg	8260B	0.0003	1,210	1,210	<0.028	<0.025	<0.024	<0.026	<0.026	<0.025	<0.032	<0.027	<0.030	<0.026
Dibromochloromethane	mg/Kg	8260B	0.032	8.28	38.9	<0.032	<0.030	<0.028	<0.031	<0.030	<0.030	<0.038	<0.031	<0.035	<0.031
Dibromomethane	mg/Kg	8260B	---	34	143	<0.018	<0.016	<0.016	<0.017	<0.017	<0.016	<0.021	<0.017	<0.020	<0.017
Dichlorodifluoromethane	mg/Kg	8260B	3.0863	126	530	<0.045	<0.041	<0.039	<0.043	<0.042	<0.041	<0.053	<0.043	<0.049	<0.042
Ethylbenzene	mg/Kg	8260B	1.57	8.02	35.4	<0.012	<0.011	<0.011	<0.012	<0.011	<0.011	<0.014	<0.012	<0.013	<0.011
Hexachlorobutadiene	mg/Kg	8260B	---	1.63	7.19	<0.030	<0.027	<0.026	<0.028	<0.028	<0.027	<0.035	<0.029	<0.032	<0.028
Isopropyl ether	mg/Kg	8260B	---	2,260	2,260	<0.018	<0.017	<0.016	<0.018	<0.017	<0.017	<0.022	<0.018	<0.020	<0.017
Isopropylbenzene	mg/Kg	8260B	---	268	268	<0.025	<0.023	<0.022	<0.024	<0.024	<0.023	<0.030	<0.025	<0.028	<0.024
Methyl tert-butyl ether	mg/Kg	8260B	0.027	63.8	282	<0.026	<0.024	<0.023	<0.025	<0.025	<0.024	<0.031	<0.025	<0.029	<0.025
Methylene Chloride	mg/Kg	8260B	0.0026	61.8	1,150	<0.11	<0.10	<0.094	<0.10	<0.10	<0.099	<0.13	<0.10	<0.12	<0.10
Naphthalene	mg/Kg	8260B	0.658182	5.52	24.10	<0.022	<0.020	<0.019	0.12	<0.021	0.036 J	<0.026	<0.021	<0.024	<0.021
n-Butylbenzene	mg/Kg	8260B	---	108	108	<0.026	<0.024	<0.022	<0.025	<0.024	<0.024	<0.030	<0.025	<0.028	<0.024
N-Propylbenzene	mg/Kg	8260B	---	264	264	<0.027	<0.025	<0.024	<0.026	<0.026	<0.025	<0.032	<0.027	<0.030	<0.026
p-Isopropyltoluene	mg/Kg	8260B	---	162	162	<0.024	<0.022	<0.021	<0.023	<0.023	<0.022	<0.028	<0.023	<0.026	<0.023
sec-Butylbenzene	mg/Kg	8260B	---	145	145	<0.026	<0.024	<0.023	<0.025	<0.025	<0.024	<0.031	<0.026	<0.029	<0.025
Styrene	mg/Kg	8260B	0.22	867	867	<0.026	<0.024	<0.022	<0.025	<0.024	<0.024	<0.030	<0.025	<0.028	<0.024
tert-Butylbenzene	mg/Kg	8260B	---	183	183	<0.026	<0.024	<0.023	<0.025	<0.025	<0.024	<0.031	<0.026	<0.029	<0.025
Tetrachloroethene	mg/Kg	8260B	0.0045	33	145	<0.025	<0.023	0.28	<0.023	0.097	<0.023	<0.029	<0.024	<0.027	<0.023
Toluene	mg/Kg	8260B	1.1072	818	818	<0.0097	<0.0090	<0.0085	0.029	<0.0091	0.074	<0.011	<0.0094	<0.011	<0.0092
trans-1,2-Dichloroethene	mg/Kg	8260B	0.0626	1560	1850	<0.023	<0.021	<0.020	<0.022	<0.022	<0.02				