

## Pfeiffer, Jane K - DNR

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**From:** Robert Reineke <rreineke@ksinghengineering.com>  
**Sent:** Wednesday, August 3, 2022 4:06 PM  
**To:** Pfeiffer, Jane K - DNR  
**Cc:** Pratap Singh  
**Subject:** RE: CWC- West Block (02-41-587376) VMS Commissioning Info Request  
**Attachments:** Report.pdf

**Follow Up Flag:** Follow up  
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Jane,

Please find attached additional air sampling results for the anomalous PCE reading at location IA-8A-01B which was performed on July 27, 2022. Additional sampling was performed at location IA-8A-01B and the apartments on the either side of the PCE reading.

No VALs were exceeded for PCE this time around. PCE in indoor air was detected ranging from 0.54 ug/m<sup>3</sup> to 0.68 ug/m<sup>3</sup>, well below the VAL of 42 ug/m<sup>3</sup>. TCE was not detected in any of the three samples.

A second round of commissioning is scheduled for later in August. We will be preparing a report summarizing this round of indoor air sampling and the commissioning testing when we receive the results.

Please let me know if you have any questions. Thanks.

**Robert T. Reineke, P.E.**

Principal Engineer | [rreineke@ksinghengineering.com](mailto:rreineke@ksinghengineering.com)  
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Scientists  
Consultants



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**From:** Pfeiffer, Jane K - DNR <jane.pfeiffer@wisconsin.gov>  
**Sent:** Monday, July 11, 2022 1:11 PM  
**To:** Robert Reineke <rreineke@ksinghengineering.com>  
**Subject:** RE: CWC- West Block (02-41-587376) VMS Commissioning Info Request

I think I found a map showing the fan locations – Please confirm that the “exterior fan locations” shown on the attached figure are correct and that these are the locations where the exhaust samples were collected.

**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](mailto:jane.pfeiffer@wisconsin.gov)

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**From:** Pfeiffer, Jane K - DNR

**Sent:** Monday, July 11, 2022 11:54 AM

**To:** Robert Reineke <[rreineke@ksinghengineering.com](mailto:rreineke@ksinghengineering.com)>

**Subject:** CWC- West Block (02-41-587376) VMS Commissioning Info Request

Hi Robert,

Can you please provide me with an update on the first round of commissioning for Buildings 4 and 5 for the above-referenced site? Has the commissioning occurred yet and, if so, when will the results be submitted to the DNR? Additionally, please present a figure that displays the locations of all of the fans (i.e., the exhaust sample locations) on the rooftops of Buildings 6, 7, 8A, and 8B.

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](mailto:jane.pfeiffer@wisconsin.gov)



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# Synergy Environmental Lab, LLC.

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ACCOUNTS PAYABLE  
K SINGH & ASSOCIATES  
3636 N. 124TH STREET  
MILWAUKEE. WI 53222

Report Date 03-Aug-22

Project Name CWC-WEST BLOCK  
Project # 40443A

Invoice # E41246

Lab Code 5041246A  
Sample ID IA APT-111  
Sample Matrix Air  
Sample Date 7/27/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
Air Samples										
Acetone	320	ug/m3	2.99	9.5	10	TO-15		8/2/2022	CJR	1
Benzene	0.99	ug/m3	0.136	0.433	1	TO-15		7/28/2022	CJR	1
Benzyl Chloride	< 0.209	ug/m3	0.209	0.665	1	TO-15		7/28/2022	CJR	1
Bromodichloromethane	< 0.374	ug/m3	0.374	1.19	1	TO-15		7/28/2022	CJR	1
Bromoform	< 0.414	ug/m3	0.414	1.32	1	TO-15		7/28/2022	CJR	1
Bromomethane	< 0.2	ug/m3	0.2	0.637	1	TO-15		7/28/2022	CJR	1
1,3-Butadiene	< 0.143	ug/m3	0.143	0.454	1	TO-15		7/28/2022	CJR	1
Carbon Disulfide	0.62	ug/m3	0.138	0.44	1	TO-15		7/28/2022	CJR	1
Carbon Tetrachloride	0.63 "J"	ug/m3	0.307	0.978	1	TO-15		7/28/2022	CJR	1
Chlorobenzene	< 0.251	ug/m3	0.251	0.798	1	TO-15		7/28/2022	CJR	1
Chloroethane	< 0.159	ug/m3	0.159	0.507	1	TO-15		7/28/2022	CJR	1
Chloroform	< 0.3	ug/m3	0.3	0.953	1	TO-15		7/28/2022	CJR	1
Chloromethane	1.61 "J"	ug/m3	0.831	2.64	1	TO-15		7/28/2022	CJR	1
Cyclohexane	0.45 "J"	ug/m3	0.212	0.674	1	TO-15		7/28/2022	CJR	1
Dibromochloromethane	< 0.376	ug/m3	0.376	1.2	1	TO-15		7/28/2022	CJR	1
1,4-Dichlorobenzene	< 0.302	ug/m3	0.302	0.96	1	TO-15		7/28/2022	CJR	1
1,3-Dichlorobenzene	< 0.302	ug/m3	0.302	0.96	1	TO-15		7/28/2022	CJR	1
1,2-Dichlorobenzene	0.47 "J"	ug/m3	0.235	0.749	1	TO-15		7/28/2022	CJR	1
Dichlorodifluoromethane	3.7	ug/m3	0.263	0.836	1	TO-15		7/28/2022	CJR	1
1,2-Dichloroethane	< 0.24	ug/m3	0.24	0.763	1	TO-15		7/28/2022	CJR	1
1,1-Dichloroethane	< 0.187	ug/m3	0.187	0.596	1	TO-15		7/28/2022	CJR	1
1,1-Dichloroethene	< 0.21	ug/m3	0.21	0.668	1	TO-15		7/28/2022	CJR	1
cis-1,2-Dichloroethene	< 0.197	ug/m3	0.197	0.626	1	TO-15		7/28/2022	CJR	1
trans-1,2-Dichloroethene	8.0	ug/m3	0.231	0.734	1	TO-15		7/28/2022	CJR	1
1,2-Dichloropropane	< 0.28	ug/m3	0.28	0.89	1	TO-15		7/28/2022	CJR	1

Project Name CWC-WEST BLOCK  
Project # 40443A

Invoice # E41246

Lab Code 5041246A  
Sample ID IA APT-111  
Sample Matrix Air  
Sample Date 7/27/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
trans-1,3-Dichloropropene	< 0.198	ug/m3	0.198	0.63	1	TO-15		7/28/2022	CJR	1
cis-1,3-Dichloropropene	< 0.234	ug/m3	0.234	0.745	1	TO-15		7/28/2022	CJR	1
1,2-Dichlorotetrafluoroethane	< 0.446	ug/m3	0.446	1.42	1	TO-15		7/28/2022	CJR	1
1,4-Dioxane	< 0.157	ug/m3	0.157	0.5	1	TO-15		7/28/2022	CJR	1
EDB (1,2-Dibromoethane)	< 0.342	ug/m3	0.342	1.09	1	TO-15		7/28/2022	CJR	1
Ethanol	320	ug/m3	1.52	4.82	10	TO-15		8/2/2022	CJR	1
Ethyl Acetate	3.06	ug/m3	0.176	0.559	1	TO-15		7/28/2022	CJR	1
Ethylbenzene	24.2	ug/m3	0.203	0.645	1	TO-15		7/28/2022	CJR	1
4-Ethyltoluene	4.0	ug/m3	0.214	0.681	1	TO-15		7/28/2022	CJR	1
Heptane	2.17	ug/m3	0.265	0.845	1	TO-15		7/28/2022	CJR	1
Hexachlorobutadiene	< 0.489	ug/m3	0.489	1.56	1	TO-15		7/28/2022	CJR	1
Hexane	7.8	ug/m3	0.235	0.748	1	TO-15		7/28/2022	CJR	1
2-Hexanone	2.09	ug/m3	0.222	0.707	1	TO-15		7/28/2022	CJR	1
Isopropyl Alcohol	33	ug/m3	0.109	0.347	1	TO-15		7/28/2022	CJR	1
Methyl ethyl ketone (MEK)	189	ug/m3	1.78	5.67	10	TO-15		8/2/2022	CJR	1
Methyl isobutyl ketone (MIBK)	1.27	ug/m3	0.168	0.536	1	TO-15		7/28/2022	CJR	1
Methyl Methacrylate	< 0.217	ug/m3	0.217	0.69	1	TO-15		7/28/2022	CJR	1
Methylene chloride	17.8	ug/m3	0.159	0.506	1	TO-15		7/28/2022	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.16	ug/m3	0.16	0.509	1	TO-15		7/28/2022	CJR	1
Naphthalene	2.56	ug/m3	0.675	2.15	1	TO-15		7/28/2022	CJR	1
Propene	6.9	ug/m3	0.079	0.251	1	TO-15		7/28/2022	CJR	1
Styrene	4.8	ug/m3	0.181	0.577	1	TO-15		7/28/2022	CJR	1
1,1,2,2-Tetrachloroethane	< 0.325	ug/m3	0.325	1.03	1	TO-15		7/28/2022	CJR	1
Tetrachloroethene	0.68 "J"	ug/m3	0.278	0.884	1	TO-15		7/28/2022	CJR	1
Tetrahydrofuran	31.2	ug/m3	0.131	0.417	1	TO-15		7/28/2022	CJR	1
Toluene	7.4	ug/m3	0.184	0.585	1	TO-15		7/28/2022	CJR	1
1,2,4-Trichlorobenzene	< 0.657	ug/m3	0.657	2.09	1	TO-15		7/28/2022	CJR	1
1,1,1-Trichloroethane	< 0.249	ug/m3	0.249	0.793	1	TO-15		7/28/2022	CJR	1
1,1,2-Trichloroethane	< 0.258	ug/m3	0.258	0.822	1	TO-15		7/28/2022	CJR	1
Trichloroethene (TCE)	< 0.237	ug/m3	0.237	0.754	1	TO-15		7/28/2022	CJR	1
Trichlorofluoromethane	1.46	ug/m3	0.337	1.07	1	TO-15		7/28/2022	CJR	1
Trichlorotrifluoroethane	0.61 "J"	ug/m3	0.402	1.28	1	TO-15		7/28/2022	CJR	1
1,2,4-Trimethylbenzene	15.7	ug/m3	0.283	0.899	1	TO-15		7/28/2022	CJR	1
1,3,5-Trimethylbenzene	4.7	ug/m3	0.232	0.739	1	TO-15		7/28/2022	CJR	1
Vinyl acetate	< 0.203	ug/m3	0.203	0.645	1	TO-15		7/28/2022	CJR	1
Vinyl Chloride	< 0.148	ug/m3	0.148	0.472	1	TO-15		7/28/2022	CJR	1
m&p-Xylene	100	ug/m3	0.377	1.2	1	TO-15		7/28/2022	CJR	1
o-Xylene	35	ug/m3	0.218	0.695	1	TO-15		7/28/2022	CJR	1

**Project Name** CWC-WEST BLOCK  
**Project #** 40443A

**Invoice #** E41246

**Lab Code** 5041246B  
**Sample ID** IA-8A-01B (APT 109)  
**Sample Matrix** Air  
**Sample Date** 7/27/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
Air Samples										
Acetone	292	ug/m3	2.99	9.5	10	TO-15		8/2/2022	CJR	1
Benzene	1.09	ug/m3	0.136	0.433	1	TO-15		7/28/2022	CJR	1
Benzyl Chloride	< 0.209	ug/m3	0.209	0.665	1	TO-15		7/28/2022	CJR	1
Bromodichloromethane	< 0.374	ug/m3	0.374	1.19	1	TO-15		7/28/2022	CJR	1
Bromoform	< 0.414	ug/m3	0.414	1.32	1	TO-15		7/28/2022	CJR	1
Bromomethane	< 0.2	ug/m3	0.2	0.637	1	TO-15		7/28/2022	CJR	1
1,3-Butadiene	< 0.143	ug/m3	0.143	0.454	1	TO-15		7/28/2022	CJR	1
Carbon Disulfide	0.62	ug/m3	0.138	0.44	1	TO-15		7/28/2022	CJR	1
Carbon Tetrachloride	0.57 "J"	ug/m3	0.307	0.978	1	TO-15		7/28/2022	CJR	1
Chlorobenzene	< 0.251	ug/m3	0.251	0.798	1	TO-15		7/28/2022	CJR	1
Chloroethane	< 0.159	ug/m3	0.159	0.507	1	TO-15		7/28/2022	CJR	1
Chloroform	< 0.3	ug/m3	0.3	0.953	1	TO-15		7/28/2022	CJR	1
Chloromethane	1.86 "J"	ug/m3	0.831	2.64	1	TO-15		7/28/2022	CJR	1
Cyclohexane	0.45 "J"	ug/m3	0.212	0.674	1	TO-15		7/28/2022	CJR	1
Dibromochloromethane	< 0.376	ug/m3	0.376	1.2	1	TO-15		7/28/2022	CJR	1
1,4-Dichlorobenzene	0.54 "J"	ug/m3	0.302	0.96	1	TO-15		7/28/2022	CJR	1
1,3-Dichlorobenzene	< 0.302	ug/m3	0.302	0.96	1	TO-15		7/28/2022	CJR	1
1,2-Dichlorobenzene	0.59 "J"	ug/m3	0.235	0.749	1	TO-15		7/28/2022	CJR	1
Dichlorodifluoromethane	3.5	ug/m3	0.263	0.836	1	TO-15		7/28/2022	CJR	1
1,2-Dichloroethane	< 0.24	ug/m3	0.24	0.763	1	TO-15		7/28/2022	CJR	1
1,1-Dichloroethane	< 0.187	ug/m3	0.187	0.596	1	TO-15		7/28/2022	CJR	1
1,1-Dichloroethene	< 0.21	ug/m3	0.21	0.668	1	TO-15		7/28/2022	CJR	1
cis-1,2-Dichloroethene	< 0.197	ug/m3	0.197	0.626	1	TO-15		7/28/2022	CJR	1
trans-1,2-Dichloroethene	7.2	ug/m3	0.231	0.734	1	TO-15		7/28/2022	CJR	1
1,2-Dichloropropane	< 0.28	ug/m3	0.28	0.89	1	TO-15		7/28/2022	CJR	1
trans-1,3-Dichloropropene	< 0.198	ug/m3	0.198	0.63	1	TO-15		7/28/2022	CJR	1
cis-1,3-Dichloropropene	< 0.234	ug/m3	0.234	0.745	1	TO-15		7/28/2022	CJR	1
1,2-Dichlorotetrafluoroethane	< 0.446	ug/m3	0.446	1.42	1	TO-15		7/28/2022	CJR	1
1,4-Dioxane	< 0.157	ug/m3	0.157	0.5	1	TO-15		7/28/2022	CJR	1
EDB (1,2-Dibromoethane)	< 0.342	ug/m3	0.342	1.09	1	TO-15		7/28/2022	CJR	1
Ethanol	1940	ug/m3	1.52	4.82	10	TO-15		8/2/2022	CJR	10
Ethyl Acetate	3.9	ug/m3	0.176	0.559	1	TO-15		7/28/2022	CJR	1
Ethylbenzene	31.2	ug/m3	0.203	0.645	1	TO-15		7/28/2022	CJR	1
4-Ethyltoluene	7.1	ug/m3	0.214	0.681	1	TO-15		7/28/2022	CJR	1
Heptane	2.49	ug/m3	0.265	0.845	1	TO-15		7/28/2022	CJR	1
Hexachlorobutadiene	< 0.489	ug/m3	0.489	1.56	1	TO-15		7/28/2022	CJR	1
Hexane	7.3	ug/m3	0.235	0.748	1	TO-15		7/28/2022	CJR	1
2-Hexanone	2.66	ug/m3	0.222	0.707	1	TO-15		7/28/2022	CJR	1
Isopropyl Alcohol	67	ug/m3	0.109	0.347	1	TO-15		7/28/2022	CJR	1
Methyl ethyl ketone (MEK)	223	ug/m3	1.78	5.67	10	TO-15		8/2/2022	CJR	1
Methyl isobutyl ketone (MIBK)	2.82	ug/m3	0.168	0.536	1	TO-15		7/28/2022	CJR	1
Methyl Methacrylate	< 0.217	ug/m3	0.217	0.69	1	TO-15		7/28/2022	CJR	1
Methylene chloride	16.9	ug/m3	0.159	0.506	1	TO-15		7/28/2022	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.16	ug/m3	0.16	0.509	1	TO-15		7/28/2022	CJR	1

**Project Name** CWC-WEST BLOCK  
**Project #** 40443A

**Invoice #** E41246

**Lab Code** 5041246B  
**Sample ID** IA-8A-01B (APT 109)  
**Sample Matrix** Air  
**Sample Date** 7/27/2022

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Naphthalene	3.5	ug/m3	0.675	2.15	1	TO-15		7/28/2022	CJR	1
Propene	< 0.079	ug/m3	0.079	0.251	1	TO-15		7/28/2022	CJR	1
Styrene	5.8	ug/m3	0.181	0.577	1	TO-15		7/28/2022	CJR	1
1,1,2,2-Tetrachloroethane	< 0.325	ug/m3	0.325	1.03	1	TO-15		7/28/2022	CJR	1
Tetrachloroethene	0.61 "J"	ug/m3	0.278	0.884	1	TO-15		7/28/2022	CJR	1
Tetrahydrofuran	29.8	ug/m3	0.131	0.417	1	TO-15		7/28/2022	CJR	1
Toluene	8.1	ug/m3	0.184	0.585	1	TO-15		7/28/2022	CJR	1
1,2,4-Trichlorobenzene	< 0.657	ug/m3	0.657	2.09	1	TO-15		7/28/2022	CJR	1
1,1,1-Trichloroethane	< 0.249	ug/m3	0.249	0.793	1	TO-15		7/28/2022	CJR	1
1,1,2-Trichloroethane	< 0.258	ug/m3	0.258	0.822	1	TO-15		7/28/2022	CJR	1
Trichloroethene (TCE)	< 0.237	ug/m3	0.237	0.754	1	TO-15		7/28/2022	CJR	1
Trichlorofluoromethane	1.4	ug/m3	0.337	1.07	1	TO-15		7/28/2022	CJR	1
Trichlorotrifluoroethane	0.54 "J"	ug/m3	0.402	1.28	1	TO-15		7/28/2022	CJR	1
1,2,4-Trimethylbenzene	28.7	ug/m3	0.283	0.899	1	TO-15		7/28/2022	CJR	1
1,3,5-Trimethylbenzene	8.9	ug/m3	0.232	0.739	1	TO-15		7/28/2022	CJR	1
Vinyl acetate	< 0.203	ug/m3	0.203	0.645	1	TO-15		7/28/2022	CJR	1
Vinyl Chloride	< 0.148	ug/m3	0.148	0.472	1	TO-15		7/28/2022	CJR	1
m&p-Xylene	131	ug/m3	0.377	1.2	1	TO-15		7/28/2022	CJR	1
o-Xylene	47	ug/m3	0.218	0.695	1	TO-15		7/28/2022	CJR	1

Project Name CWC-WEST BLOCK  
Project # 40443A

Invoice # E41246

Lab Code 5041246C  
Sample ID IA-APT-107  
Sample Matrix Air  
Sample Date 7/27/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
Air Samples										
Acetone	282	ug/m3	2.99	9.5	10	TO-15		8/2/2022	CJR	1
Benzene	0.86	ug/m3	0.136	0.433	1	TO-15		7/28/2022	CJR	1
Benzyl Chloride	< 0.209	ug/m3	0.209	0.665	1	TO-15		7/28/2022	CJR	1
Bromodichloromethane	< 0.374	ug/m3	0.374	1.19	1	TO-15		7/28/2022	CJR	1
Bromoform	< 0.414	ug/m3	0.414	1.32	1	TO-15		7/28/2022	CJR	1
Bromomethane	< 0.2	ug/m3	0.2	0.637	1	TO-15		7/28/2022	CJR	1
1,3-Butadiene	< 0.143	ug/m3	0.143	0.454	1	TO-15		7/28/2022	CJR	1
Carbon Disulfide	0.47	ug/m3	0.138	0.44	1	TO-15		7/28/2022	CJR	1
Carbon Tetrachloride	0.44 "J"	ug/m3	0.307	0.978	1	TO-15		7/28/2022	CJR	1
Chlorobenzene	< 0.251	ug/m3	0.251	0.798	1	TO-15		7/28/2022	CJR	1
Chloroethane	< 0.159	ug/m3	0.159	0.507	1	TO-15		7/28/2022	CJR	1
Chloroform	0.34 "J"	ug/m3	0.3	0.953	1	TO-15		7/28/2022	CJR	1
Chloromethane	1.69 "J"	ug/m3	0.831	2.64	1	TO-15		7/28/2022	CJR	1
Cyclohexane	0.31 "J"	ug/m3	0.212	0.674	1	TO-15		7/28/2022	CJR	1
Dibromochloromethane	< 0.376	ug/m3	0.376	1.2	1	TO-15		7/28/2022	CJR	1
1,4-Dichlorobenzene	< 0.302	ug/m3	0.302	0.96	1	TO-15		7/28/2022	CJR	1
1,3-Dichlorobenzene	< 0.302	ug/m3	0.302	0.96	1	TO-15		7/28/2022	CJR	1
1,2-Dichlorobenzene	< 0.235	ug/m3	0.235	0.749	1	TO-15		7/28/2022	CJR	1
Dichlorodifluoromethane	2.47	ug/m3	0.263	0.836	1	TO-15		7/28/2022	CJR	1
1,2-Dichloroethane	< 0.24	ug/m3	0.24	0.763	1	TO-15		7/28/2022	CJR	1
1,1-Dichloroethane	< 0.187	ug/m3	0.187	0.596	1	TO-15		7/28/2022	CJR	1
1,1-Dichloroethene	< 0.21	ug/m3	0.21	0.668	1	TO-15		7/28/2022	CJR	1
cis-1,2-Dichloroethene	< 0.197	ug/m3	0.197	0.626	1	TO-15		7/28/2022	CJR	1
trans-1,2-Dichloroethene	2.89	ug/m3	0.231	0.734	1	TO-15		7/28/2022	CJR	1
1,2-Dichloropropane	< 0.28	ug/m3	0.28	0.89	1	TO-15		7/28/2022	CJR	1
trans-1,3-Dichloropropene	< 0.198	ug/m3	0.198	0.63	1	TO-15		7/28/2022	CJR	1
cis-1,3-Dichloropropene	< 0.234	ug/m3	0.234	0.745	1	TO-15		7/28/2022	CJR	1
1,2-Dichlorotetrafluoroethane	< 0.446	ug/m3	0.446	1.42	1	TO-15		7/28/2022	CJR	1
1,4-Dioxane	< 0.157	ug/m3	0.157	0.5	1	TO-15		7/28/2022	CJR	1
EDB (1,2-Dibromoethane)	< 0.342	ug/m3	0.342	1.09	1	TO-15		7/28/2022	CJR	1
Ethanol	8500	ug/m3	1.52	4.82	10	TO-15		8/2/2022	CJR	10
Ethyl Acetate	5.2	ug/m3	0.176	0.559	1	TO-15		7/28/2022	CJR	1
Ethylbenzene	18.3	ug/m3	0.203	0.645	1	TO-15		7/28/2022	CJR	1
4-Ethyltoluene	3.7	ug/m3	0.214	0.681	1	TO-15		7/28/2022	CJR	1
Heptane	2.41	ug/m3	0.265	0.845	1	TO-15		7/28/2022	CJR	1
Hexachlorobutadiene	< 0.489	ug/m3	0.489	1.56	1	TO-15		7/28/2022	CJR	1
Hexane	6.4	ug/m3	0.235	0.748	1	TO-15		7/28/2022	CJR	1
2-Hexanone	2.37	ug/m3	0.222	0.707	1	TO-15		7/28/2022	CJR	1
Isopropyl Alcohol	87	ug/m3	0.109	0.347	1	TO-15		7/28/2022	CJR	1
Methyl ethyl ketone (MEK)	177	ug/m3	1.78	5.67	10	TO-15		8/2/2022	CJR	1
Methyl isobutyl ketone (MIBK)	1.56	ug/m3	0.168	0.536	1	TO-15		7/28/2022	CJR	1
Methyl Methacrylate	< 0.217	ug/m3	0.217	0.69	1	TO-15		7/28/2022	CJR	1
Methylene chloride	< 15	ug/m3	0.159	0.506	1	TO-15		7/28/2022	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.16	ug/m3	0.16	0.509	1	TO-15		7/28/2022	CJR	1

**Project Name** CWC-WEST BLOCK  
**Project #** 40443A

**Invoice #** E41246

**Lab Code** 5041246C  
**Sample ID** IA-APT-107  
**Sample Matrix** Air  
**Sample Date** 7/27/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Naphthalene	1.73 "J"	ug/m3	0.675	2.15	1	TO-15		7/28/2022	CJR	1
Propene	< 0.079	ug/m3	0.079	0.251	1	TO-15		7/28/2022	CJR	1
Styrene	5.1	ug/m3	0.181	0.577	1	TO-15		7/28/2022	CJR	1
1,1,2,2-Tetrachloroethane	< 0.325	ug/m3	0.325	1.03	1	TO-15		7/28/2022	CJR	1
Tetrachloroethene	0.54 "J"	ug/m3	0.278	0.884	1	TO-15		7/28/2022	CJR	1
Tetrahydrofuran	18.7	ug/m3	0.131	0.417	1	TO-15		7/28/2022	CJR	1
Toluene	7.9	ug/m3	0.184	0.585	1	TO-15		7/28/2022	CJR	1
1,2,4-Trichlorobenzene	< 0.657	ug/m3	0.657	2.09	1	TO-15		7/28/2022	CJR	1
1,1,1-Trichloroethane	< 0.249	ug/m3	0.249	0.793	1	TO-15		7/28/2022	CJR	1
1,1,2-Trichloroethane	< 0.258	ug/m3	0.258	0.822	1	TO-15		7/28/2022	CJR	1
Trichloroethene (TCE)	< 0.237	ug/m3	0.237	0.754	1	TO-15		7/28/2022	CJR	1
Trichlorofluoromethane	0.95 "J"	ug/m3	0.337	1.07	1	TO-15		7/28/2022	CJR	1
Trichlorotrifluoroethane	0.46 "J"	ug/m3	0.402	1.28	1	TO-15		7/28/2022	CJR	1
1,2,4-Trimethylbenzene	15.4	ug/m3	0.283	0.899	1	TO-15		7/28/2022	CJR	1
1,3,5-Trimethylbenzene	4.6	ug/m3	0.232	0.739	1	TO-15		7/28/2022	CJR	1
Vinyl acetate	< 0.203	ug/m3	0.203	0.645	1	TO-15		7/28/2022	CJR	1
Vinyl Chloride	< 0.148	ug/m3	0.148	0.472	1	TO-15		7/28/2022	CJR	1
m&p-Xylene	79	ug/m3	0.377	1.2	1	TO-15		7/28/2022	CJR	1
o-Xylene	24.3	ug/m3	0.218	0.695	1	TO-15		7/28/2022	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code	Comment
1	Laboratory QC within limits.
10	Linear range of calibration curve exceeded.

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**