

## Mulcahy, Connor P - DNR

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**From:** Travis W. Peterson <tpeterson@kapurinc.com>  
**Sent:** Friday, February 9, 2024 3:15 PM  
**To:** Mulcahy, Connor P - DNR  
**Cc:** robert3bach@gmail.com  
**Subject:** RE: Mercury Marine Plant No. 1 site (02-46-588930)  
**Attachments:** DRAFT Fox Run Updated VP Plan.pdf; Fox Run Vapor Data Table ALL INCLUSIVE.pdf

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

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Good afternoon Connor.

I have attached a draft analytical data table and vapor probe/sample location plan that both represent the vapor sampling conducted onsite to date. Please note that multiple rounds of post-interim action vapor sampling have been performed within the newly constructed buildings at the site and the attached information provides a “draft” summary of the results of what we consider post-interim action (post-Fall 2022) vapor results. Another sampling event is planned to be completed next week and upon receiving the final analytical data, we will update the data table and site figures as needed.

Occupancy of some of the units is planned to occur in early March 2024 and not April as indicated in your previous email.

If you have any questions, feel free to email me at your convenience.

Cheers,



**Travis W. Peterson**

Associate / Economic Development Manager

7711 N Port Washington Road, Milwaukee, Wisconsin 53217

m: 414.254.6358

o: 414.751.7279

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**From:** Mulcahy, Connor P - DNR <connor.mulcahy@wisconsin.gov>  
**Sent:** Thursday, February 1, 2024 9:52 AM  
**To:** Travis W. Peterson <tpeterson@kapurinc.com>  
**Subject:** Mercury Marine Plant No. 1 site (02-46-588930)

Travis,

Thanks for taking the time to speak with me over the phone today.

Based on our conversation, it's my understanding that one round of vapor sampling has been conducted in the newly constructed buildings at the Mercury Marine Plant No. 1 site (02-46-588930), and that an additional round of sampling is planned for February of 2024. It's also my understanding that none of the buildings on the site are currently occupied, and that the earliest scheduled occupancy is in April of 2024.

As discussed during our phone call, please submit the results of the first round of vapor sampling to the DNR as soon as practical, and submit a report with both sets of results after the second round of sampling is completed.

Please let me know if your understanding on any of the topics above differs from mine.

Thank you,  
Connor

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**Connor P. Mulcahy**

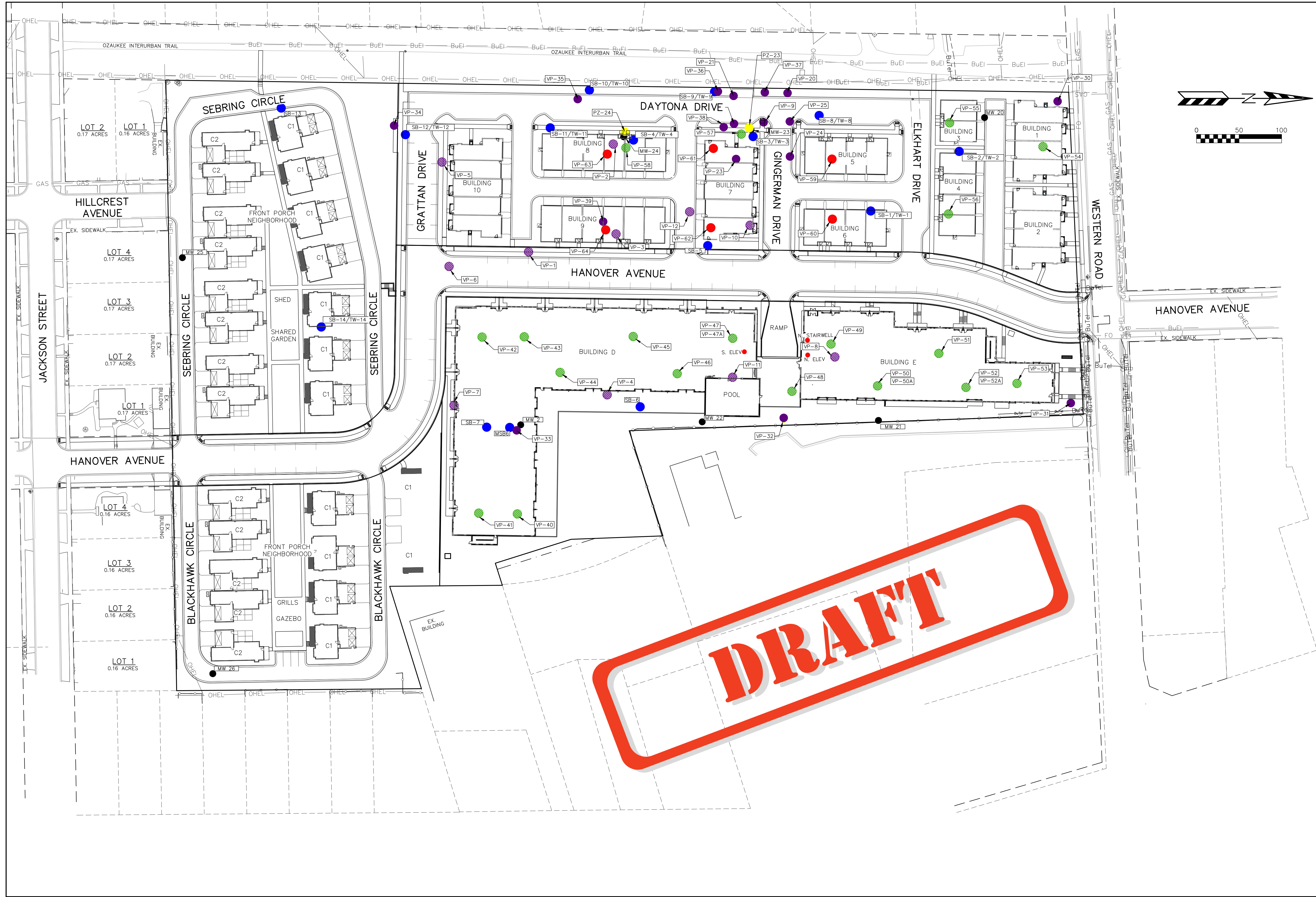
Hydrogeologist – Remediation and Redevelopment Program

Wisconsin Department of Natural Resources

Phone: 414-704-4348

[connor.mulcahy@wisconsin.gov](mailto:connor.mulcahy@wisconsin.gov)





REVISIONS:	
NO.	DATE DESCRIPTION

**P S E**  
 PARISH SURVEY & ENGINEERING  
 122 Wisconsin Street, West Bend, WI 53095  
 262.346.7800 www.parishse.com

PROJECT TITLE:  
**FOX RUN DEVELOPMENT  
 HANOVER AVE  
 CEDARBURG, WI 53012**

PLAN TITLE:  
**VAPOR & SOIL  
 BORINGS -  
 PROPOSED  
 SITE**

DRAWN BY:  
**M.SWARTWOUT**

DESIGNED BY:  
**K.PARISH**

CHECKED BY:  
**K.PARISH**

PLAN DATE:  
**01-02-2024**

PROJECT NO:  
 \PD-09-21\

BID SET  
**C10.04**

SHEET NO:





Parameter	Residential Indoor Air Vapor Risk Screening Level (ug/m3)	Residential Sub-Slab Vapor Risk Screening Level (ug/m3)	VP-1	VP-2	VP-3	VP-4	VP-5	VP-6	VP-7	VP-8	VP-9	VP-10	VP-11	VP-12
Attenuation Factor	0.03	0.03												
Date Sampled			3/7/2022	3/7/2022	3/7/2022	3/7/2022	3/7/2022	3/7/2022	3/7/2022	3/7/2022	3/8/2022	3/8/2022	3/8/2022	3/8/2022
Regulated Fill Time			30 Min	30 Min	30 Min	30 Min	30 Min	30 Min	30 Min	30 Min	30 Min	30 Min	30 Min	30 Min
Structure/Location Sampled			Sub-slab	Sub-slab	Sub-slab	Sub-slab	Sub-slab	Sub-slab	Sub-slab	Sub-slab	Sub-slab	Sub-slab	Sub-slab	Sub-slab
Media			Vapor	Vapor	Vapor	Vapor	Vapor	Vapor	Vapor	Vapor	Vapor	Vapor	Vapor	Vapor
Benzene	3.6	120	9.50	11.40	8.70	8.80	4.00	5.00	4.60	2.70	2.4J	1.80	2.10	4.10
Carbon Tetrachloride	4.7	160	<0.50	<0.51	<0.52	<0.52	1.2J	<.58	<2.6	<0.50	13.7J	<0.50	<0.50	<0.52
Chloroform	1.2	40	<0.33	<0.33	<0.34	<0.34	<0.33	<.38	<1.7	<0.33	3.9J	<0.33	<0.33	<0.34
Chloromethane	94.0	3,100	<0.15	<0.16	<0.16	<0.16	<0.16	<.18	<.80	<0.15	<1.5	<0.15	<.59J	<0.16
Dichlorodifluoromethane	100.0	3,300	2.30	2.80	2.60	2.40	2.90	2.60	3.1J	2.60	3.4J	2.30	2.60	2.40
1,1-Dichloroethane (1,1-DCA)	1.8	600	<0.30	<0.30	<0.31	<0.31	<0.30	<.34	<1.5	<0.30	<2.9	<0.30	<0.30	<0.31
1,2-Dichloroethane (1,2-DCA)	1.1	37	<0.35	<0.36	<0.36	<0.36	<0.36	<.40	<1.8	<0.35	<3.4	<0.35	<0.35	<0.36
1,1-Dichloroethene (1,1-DCE)	210.0	7,000	<0.25	<0.25	<0.26	<0.26	<0.25	<.28	<1.3	<0.25	<2.4	<0.25	<0.25	<0.26
cis-1,2-Dichloroethene	42.0	1,400	<0.35	<0.36	<0.36	<0.36	<0.36	<0.40	<1.8	<0.35	<3.5	<0.35	<0.35	<0.36
trans-1,2-Dichloroethene	42.0	1,400	<0.30	<0.31	<0.31	<0.31	<0.31	<0.35	<1.6	<0.30	<3.0	<0.30	<0.30	<0.31
Ethylbenzene	11.0	370	36.90	49.20	31.50	35.30	26.70	30.50	29.70	10.80	12.1J	7.40	7.60	7.70
Methylene Chloride	630.0	21,000	<1.1	<1.1	<1.1	<1.1	<1.1	<1.2	<5.5	<1.1	<10.5	<1.1	<1.1	<1.1
Naphthalene	0.8	28	7.0J	8.5J	5.7J	6.6J	4.4J	8.2J	<20.3	<3.9	<38.4	4.1J	<3.9	<4.1
Tetrachloroethene (PCE)	42.0	1,400	1.60	1.70	1.1J	1.1J	1.30	3.00	<2.7	<0.52	<5.2	<0.52	<.52	<0.55
1,1,1-Trichloroethane (1,1,1-TCA)	5,200.0	170,000	2.10	2.0J	<0.35	<0.35	<0.34	<.69J	<1.7	<0.33	21.70	<0.33	<0.33	<0.35
Trichloroethene	2.1	70	0.75J	15.30	<0.37	<0.37	<0.36	3.10	<1.8	2.40	<b>1,530.00</b>	0.91J	0.77J	1.10
Trichlorofluoromethane	NS	NS	1.9J	7.70	1.3J	1.2J	1.8J	1.9J	3.8J	5.20	8.6J	10.00	1.5J	4.00
Vinyl chloride	1.7	57	<0.16	<0.16	<0.16	<0.16	<0.16	<.18	<.81	<0.16	<1.5	<0.16	<0.16	<0.16
Total Xylene	100.0	3,300	180.3	243.0	156.7	176.8	134.7	156.6	145.6	54.7	53.5J	36.9	37.7	35.7

NOTES:

All results are in micrograms per cubic meter (µg/m<sup>3</sup>) unless noted otherwise  
 Concentrations exceeding the Residential Indoor Air Vapor Risk Screening Levels are in **BOLD**  
 Concentrations exceeding the Residential Sub-Slab Vapor Risk Screening Levels are *italicized*  
 J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.  
 N/A



Parameter	Residential Indoor Air Vapor Risk Screening Level (ug/m3)	Residential Sub-Slab Vapor Risk Screening Level (ug/m3)	VP-20	VP-21	VP-22	VP-23	VP-24	VP-25
Attenuation Factor	0.03	0.03						
Date Sampled			7/14/2022	7/14/2022	7/14/2022	7/14/2022	7/14/2022	7/14/2022
Regulated Fill Time			30 Min	30 Min	30 Min	30 Min	30 Min	30 Min
Structure/Location Sampled			Sub-slab	Sub-slab	Sub-slab	Sub-slab	Sub-slab	Sub-slab
Media			Vapor	Vapor	Vapor	Vapor	Vapor	Vapor
Benzene	3.6	120	19.3	28.2	27.9	19.6	24.6	22.6
Carbon Tetrachloride	4.7	160	<0.56	1.4J	<0.56	5.0	23.5	37.4
Chloroform	1.2	40	6.2	35.5	2.6	9.8	55.4	38.6
Chloromethane	94.0	3,100	<0.17	<0.24	<0.17	<0.18	<0.18	<0.19
Dichlorodifluoromethane	100.0	3,300	2.8	2.9	3.0	3.1	2.7	3.3
1,1-Dichloroethane (1,1-DCA)	1.8	600	1.9	2.2J	<0.33	<0.34	2.5	<0.36
1,2-Dichloroethane (1,2-DCA)	1.1	37	<0.39	<0.54	<0.39	<0.40	2.5	<0.42
1,1-Dichloroethene (1,1-DCE)	210.0	7,000	1.1J	2.5	<0.28	0.47J	6.1	<0.30
cis-1,2-Dichloroethene	42.0	1,400	1.8	3,240.0	1.0J	0.62J	3.0	0.58J
trans-1,2-Dichloroethene	42.0	1,400	<0.34	99.5	<0.34	<0.35	<0.36	<0.37
Ethylbenzene	11.0	370	536.0	925.0	524.0	586.0	699.0	619.0
Methylene Chloride	630.0	21,000	<1.2	<1.6	<1.2	<1.2	<1.3	<1.3
Naphthalene	0.8	28	18.1	19.4	19.7	18.8	16.9	7.3
Tetrachloroethene (PCE)	42.0	1,400	7.2	6.8	6.7	9.5	10.0	30.5
1,1,1-Trichloroethane (1,1,1-TCA)	5,200.0	170,000	58.9	73.6	11.4	227.0	1,790.0	132.0
Trichloroethene	2.1	70	114.0	153,000.0	1,980.0	13,000.0	55,900.0	20,700.0
Trichlorofluoromethane	NS	NS	3.9	168.0	22.4	44.4	4.4	27.5
Vinyl chloride	1.7	57	<0.17	0.24J	<0.17	<0.18	<0.18	<0.19
Total Xylene	100.0	3,300	545.0	941.0	525.0	638.0	697.0	638.0



Parameter	Residential Indoor Air Vapor Risk Screening Level (ug/m3)	Residential Sub-Slab Vapor Risk Screening Level (ug/m3)	VP-30	VP-31	VP-32	VP-33	VP-34	VP-35	VP-36	VP-37	VP-38	VP-39
Attenuation Factor	0.03	0.03										
Date Sampled			8/15/2022	8/15/2022	8/15/2022	8/15/2022	8/15/2022	8/15/2022	8/15/2022	8/15/2022	8/15/2022	8/15/2022
Regulated Fill Time			30 Min	30 Min	30 Min	30 Min	30 Min	30 Min	30 Min	30 Min	30 Min	30 Min
Structure/Location Sampled			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Media			Vapor	Vapor	Vapor	Vapor	Vapor	Vapor	Vapor	Vapor	Vapor	Vapor
Benzene	3.6	120	4.7	10.9	13.4	12.1	10.7	12.8	7.2	7.7	<14.1	<7.0
Carbon Tetrachloride	4.7	160	<0.58	<0.58	1.4J	0.77J	<0.50	<0.56	<0.56	<0.55	<34.6	<17.3
Chloroform	1.2	40	0.84J	<0.38	0.82J	<b>40.1</b>	1.0	13.6	0.74J	0.67J	<22.6	<11.3
Chloromethane	94.0	3,100	0.86J	2.0	0.69J	<b>0.72J</b>	0.37J	1.4	0.83J	0.77J	<10.5	<5.3
Dichlorodifluoromethane	100.0	3,300	2.3	2.5	38.0	2.4	2.4	2.0J	2.0J	2.1	<23.2	<11.6
1,1-Dichloroethane (1,1-DCA)	1.8	600	<0.34	<0.34	<0.34	<0.35	<0.30	<b>25,600.0</b>	<0.33	<0.32	<20.4	<10.2
1,2-Dichloroethane (1,2-DCA)	1.1	37	<0.40	<0.40	<0.40	<0.41	<0.35	6.8	<0.39	<0.38	<24.0	<12.0
1,1-Dichloroethene (1,1-DCE)	210.0	7,000	<0.28	<0.28	<0.28	<0.29	<0.25	2,340.0	<0.28	<0.27	<17.1	<8.5
cis-1,2-Dichloroethene	42.0	1,400	<0.40	<0.40	<0.40	<0.41	<0.35	1,100J	<0.39	0.76J	<24.1	<12.1
trans-1,2-Dichloroethene	42.0	1,400	<0.30	<0.30	<0.35	<0.36	<0.30	6.6	<0.34	<0.33	<20.8	<10.4
Ethylbenzene	11.0	370	25.9	32.4	38.3	33.3	30.6	26.5	88.5	94.6	99.7J	75.7
Methylene Chloride	630.0	21,000	<1.2	<1.2	<1.2	<1.3	<1.1	<1.2	<1.2	<1.2	<73.3	<36.6
Naphthalene	0.8	28	4.9J	5.3J	6.6	5.9	5.9	5.8	8.6	9.6	<268	<134
Tetrachloroethene (PCE)	42.0	1,400	2.5	2.1	3.8	4.3	2.0	17.9	2.1	2.1	<36.1	<18.0
1,1,1-Trichloroethane (1,1,1-TCA)	5,200.0	170,000	0.51J	<0.51J	50.1	<0.39	3.1	<b>233,000.0</b>	4.8	15.8	<23.0	<11.5
Trichloroethene	2.1	70	2.0	3.3	<b>111.0</b>	2.2	3.7	<b>459.0</b>	<b>181.0</b>	<b>218.0</b>	<b>2,620.0</b>	14.4J
Trichlorofluoromethane	NS	NS	3.0	1.8J	2.6	2.2J	166.0	6.6	1.2J	3.0	<28.8	<14.4
Vinyl chloride	1.7	57	<0.38J	0.32J	0.39J	<0.18	<0.16	2.7	<0.17	<0.17	<10.7	<5.4
Total Xylene	100.0	3,300	32.9	41.3	47.5	42.2	39.3	34.9	93.4	99.9	155.0	108.0



Parameter	Residential Indoor Air Vapor Risk Screening Level (ug/m3)	Residential Sub-Slab Vapor Risk Screening Level (ug/m3)	VP-40	VP-41	VP-42	VP-43	VP-44	VP-45	VP-46	VP-47	VP-48	VP-49	VP-50
Attenuation Factor	0.03	0.03											
Date Sampled			9/20/2023	9/20/2023	9/20/2023	9/20/2023	9/20/2023	9/20/2023	9/20/2023	9/20/2023	9/20/2023	9/20/2023	9/20/2023
Regulated Fill Time			30 Min	30 Min	30 Min	30 Min	30 Min	30 Min	30 Min	30 Min	30 Min	30 Min	30 Min
Structure/Location Sampled			Sub-slab	Sub-slab	Sub-slab	Sub-slab	Sub-slab	Sub-slab	Sub-slab	Sub-slab	Sub-slab	Sub-slab	Sub-slab
Media			Vapor	Vapor	Vapor	Vapor	Vapor	Vapor	Vapor	Vapor	Vapor	Vapor	Vapor
Benzene	3.6	120	4.7	1.9	2.7	2.0	3.0	2.9	2.8	4.5	7.0	3.5	2.4
Carbon Tetrachloride	4.7	160	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54
Chloroform	1.2	40	<1.16	<1.16	2.4	1.3	<1.16	1.7	36.0	1.2	<1.16	<1.16	<1.16
Chloromethane	94.0	3,100	<0.708	<0.708	<0.708	<0.708	<0.708	<0.708	<0.708	<0.708	<0.708	<0.708	<0.708
Dichlorodifluoromethane	100.0	3,300	2.9	2.8	2.9	2.8	3.2	2.9	3.5	2.6	2.9	3.3	2.6
1,1-Dichloroethane (1,1-DCA)	1.8	600	<0.966	<0.966	<0.966	<0.966	<0.966	<0.966	<0.966	<0.966	<0.966	<0.966	<0.966
1,2-Dichloroethane (1,2-DCA)	1.1	37	<0.943	<0.943	<0.943	<0.943	<0.943	<0.943	<0.943	<0.943	<0.943	<0.943	<0.943
1,1-Dichloroethene (1,1-DCE)	210.0	7,000	<1.01	<1.01	<1.01	<1.01	<1.01	<1.01	<1.01	<1.01	<1.01	<1.01	<1.01
cis-1,2-Dichloroethene	42.0	1,400	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03
trans-1,2-Dichloroethene	42.0	1,400	<0.888	<0.888	<0.888	<0.888	<0.888	6.5	<0.888	4.3	2.9	<0.888	<0.888
Ethylbenzene	11.0	370	6.2	4.8	6.8	4.6	11.4	4.6	7.1	6.8	8.2	4.3	5.6
Methylene Chloride	630.0	21,000	1.6	9.8	1.6	<1.13	7.4	9.4	<1.13	<1.13	<1.13	<1.13	<1.13
Naphthalene	0.8	28	<6.13	<6.13	<6.13	<6.13	<6.13	<6.13	<6.13	<6.13	<6.13	<6.13	<6.13
Tetrachloroethene (PCE)	42.0	1,400	<1.84	<1.84	<1.84	<1.84	<1.84	<1.84	<1.84	<1.84	<1.84	<1.84	<1.84
1,1,1-Trichloroethane (1,1,1-TCA)	5,200.0	170,000	<1.33	<1.33	<1.33	<1.33	2.2	2.9	4.2	1.9	<1.33	9.4	1.5
Trichloroethene	2.1	70	<1.22	<1.22	25.4	22.0	12.7	60.0	50.4	<b>92.7</b>	9.5	38.4	<b>237.0</b>
Trichlorofluoromethane	NS	NS	3.7	2.8	4.0	23.2	153.0	160.0	333.0	149.0	13.1	110.0	55.6
Vinyl chloride	1.7	57	<0.808	<0.808	<0.808	<0.808	<0.808	<0.808	<0.808	<0.808	<0.808	<0.808	<0.808
Total Xylene	100.0	3,300	33.8	25.3	33.5	23.8	59.9	21.2	37.1	31.2	35.3	19.9	26.0



Parameter	Residential Indoor Air Vapor Risk Screening Level (ug/m3)	Residential Sub-Slab Vapor Risk Screening Level (ug/m3)	VP-51	VP-52	VP-53	VP-54	VP-55	VP-56	VP-57	VP-58
Attenuation Factor	0.03	0.03								
Date Sampled			9/20/2023	9/20/2023	9/20/2023	9/20/2023	9/20/2023	9/20/2023	9/20/2023	9/20/2023
Regulated Fill Time			30 Min	30 Min	30 Min	30 Min	30 Min	30 Min	30 Min	30 Min
Structure/Location Sampled			Sub-slab	Sub-slab	Sub-slab	Sub-slab	Sub-slab	Sub-slab	Sub-slab	Sub-slab
Media			Vapor	Vapor	Vapor	Vapor	Vapor	Vapor	Vapor	Vapor
Benzene	3.6	120	6.6	3.7	7.2	32.3	15.4	17.4	10.2	14.5
Carbon Tetrachloride	4.7	160	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54
Chloroform	1.2	40	<1.16	2.4	3.5	<1.16	<1.16	<1.16	<1.16	<1.16
Chloromethane	94.0	3,100	<0.708	<0.708	<0.708	<0.708	<0.708	<0.708	1.4	1.1
Dichlorodifluoromethane	100.0	3,300	6.8	17.6	13.6	2.7	3.3	3.2	3.0	2.6
1,1-Dichloroethane (1,1-DCA)	1.8	600	<0.966	<0.966	<0.966	<0.966	<0.966	<0.966	<0.966	<0.966
1,2-Dichloroethane (1,2-DCA)	1.1	37	<0.943	<0.943	<0.943	<0.943	<0.943	<0.943	<0.943	<0.943
1,1-Dichloroethene (1,1-DCE)	210.0	7,000	<1.01	<1.01	<1.01	<1.01	<1.01	<1.01	<1.01	<1.01
cis-1,2-Dichloroethene	42.0	1,400	<1.03	<1.03	<1.03	<1.03	1.2	<1.03	<1.03	<1.03
trans-1,2-Dichloroethene	42.0	1,400	<0.888	<0.888	<0.888	<0.888	<0.888	<0.888	<0.888	<0.888
Ethylbenzene	11.0	370	14.9	10.3	8.0	27.8	22.6	26.7	24.3	22.1
Methylene Chloride	630.0	21,000	<1.13	<1.13	<1.13	<1.13	3.5	<1.13	<1.13	20.4
Naphthalene	0.8	28	<6.13	<6.13	<6.13	8.1	<6.13	10.9	12.0	6.7
Tetrachloroethene (PCE)	42.0	1,400	<1.84	<1.84	<1.84	<1.84	<1.84	<1.84	<1.84	<1.84
1,1,1-Trichloroethane (1,1,1-TCA)	5,200.0	170,000	2.6	12.4	3.1	<1.33	3.9	<1.33	<1.33	<1.33
Trichloroethene	2.1	70	13.2	70.7	48.6	<1.22	65.4	1.4	<1.22	2.6
Trichlorofluoromethane	NS	NS	73.1	290.0	68.0	3.8	7.8	5.4	<1.53	2.9
Vinyl chloride	1.7	57	<0.808	<0.808	<0.808	<0.808	<0.808	<0.808	<0.808	<0.808
Total Xylene	100.0	3,300	72.5	48.2	23.1	137.0	112.0	127.0	120.0	105.0





Parameter	Residential Indoor Air Vapor Risk Screening Level (ug/m3)	Residential Sub-Slab Vapor Risk Screening Level (ug/m3)	VP-47	VP-47A	VP-50	VP-50A	VP-52	VP-52A	SELEV	NELEV	NSTARIWELL
Attenuation Factor	0.03	0.03									
Date Sampled			11/29/2023	11/29/2023	11/29/2023	11/29/2023	11/29/2023	11/29/2023	11/29/2023	11/29/2023	11/29/2023
Regulated Fill Time			30 Min	30 Min	30 Min	30 Min	30 Min	30 Min	30 Min	30 Min	30 Min
Structure/Location Sampled			Sub-slab	Indoor Air	Sub-slab	Indoor Air	Sub-slab	Indoor Air	Indoor Air	Indoor Air	Indoor Air
Media			Vapor	Vapor	Vapor	Vapor	Vapor	Vapor	Vapor	Vapor	Vapor
Benzene	3.6	120	2.0	3.2	3.1	1.3	2.2	2.1	3.2	1.4	1.3
Carbon Tetrachloride	4.7	160	<1.54	<1.54	<4.14	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54
Chloroform	1.2	40	<1.16	<1.16	<3.13	<1.16	<1.16	<1.16	<1.16	<1.16	<1.16
Chloromethane	94.0	3,100	<0.708	1.0	<1.91	0.9	<0.708	0.9	1.0	1.0	1.0
Dichlorodifluoromethane	100.0	3,300	<2.26	2.5	<6.08	<2.26	12.4	2.3	<2.26	2.3	2.3
1,1-Dichloroethane (1,1-DCA)	1.8	600	<0.966	<0.966	<2.59	<0.966	<0.966	<0.966	<0.966	<0.966	<0.966
1,2-Dichloroethane (1,2-DCA)	1.1	37	<0.943	<0.943	<2.54	<0.943	<0.943	<0.943	<0.943	<0.943	<0.943
1,1-Dichloroethene (1,1-DCE)	210.0	7,000	<1.01	<1.01	<2.71	<1.01	<1.01	<1.01	<1.01	<1.01	<1.01
cis-1,2-Dichloroethene	42.0	1,400	<1.03	<1.03	<2.79	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03
trans-1,2-Dichloroethene	42.0	1,400	9.2	<0.888	<2.39	<0.888	<0.888	<0.888	<0.888	<0.888	<0.888
Ethylbenzene	11.0	370	7.7	1.9	7.2	<1.21	8.8	2.0	2.1	2.1	4.0
Methylene Chloride	630.0	21,000	<1.13	<1.13	<3.05	5.4	5.3	<1.13	<1.13	<1.13	<1.13
Naphthalene	0.8	28	<6.13	<6.13	<16.4	<6.13	<6.13	<6.13	<6.13	<6.13	<6.13
Tetrachloroethene (PCE)	42.0	1,400	<1.84	<1.84	<4.96	<1.84	<1.84	<1.84	<1.84	<1.84	<1.84
1,1,1-Trichloroethane (1,1,1-TCA)	5,200.0	170,000	<1.33	<1.33	<3.59	<1.33	1.7	<1.33	<1.33	<1.33	<1.33
Trichloroethene	2.1	70	18.2	<1.22	<3.27	<1.22	3.3	<1.22	<1.22	<1.22	<1.22
Trichlorofluoromethane	NS	NS	69.1	<1.53	<4.12	<1.53	27.3	<1.53	<1.53	<1.53	<1.53
Vinyl chloride	1.7	57	<0.808	<0.808	<2.17	<0.808	<0.808	<0.808	<0.808	<0.808	<0.808
Total Xylene	100.0	3,300	45.2	12.7	41.8	3.3	52.5	9.8	11.7	10.0	21.1



Parameter	Residential Indoor Air Vapor Risk Screening Level (ug/m3)	Residential Sub-Slab Vapor Risk Screening Level (ug/m3)	VP-54	VP-55	VP-56	VP-57	VP-58	VP-59	VP-60	VP-61	VP-62	VP-63	VP-64
Attenuation Factor	0.03	0.03											
Date Sampled			11/30/2023	11/30/2023	11/30/2023	11/30/2023	11/30/2023	11/30/2023	11/30/2023	11/30/2023	11/30/2023	11/30/2023	11/30/2023
Regulated Fill Time			30 Min	30 Min	30 Min	30 Min	30 Min	30 Min	30 Min	30 Min	30 Min	30 Min	30 Min
Structure/Location Sampled			Sub-slab	Sub-slab	Sub-slab	Soil Vapor	Soil Vapor	Sub-slab	Sub-slab	Sub-slab	Sub-slab	Sub-slab	Sub-slab
Media			Vapor	Vapor	Vapor	Vapor	Vapor	Vapor	Vapor	Vapor	Vapor	Vapor	Vapor
Benzene	3.6	120	1.8	1.4	2.0	1.2	1.5	1.2	1.2	3.5	7.7	3.5	8.1
Carbon Tetrachloride	4.7	160	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54
Chloroform	1.2	40	<1.16	<1.16	<1.16	<1.16	<1.16	<1.16	<1.16	<1.16	<1.16	<1.16	<1.16
Chloromethane	94.0	3,100	0.8	<0.708	<0.708	1.0	0.8	<0.708	0.9	1.0	1.4	<0.708	<0.708
Dichlorodifluoromethane	100.0	3,300	<2.26	2.3	<2.26	2.3	<2.26	<2.26	<2.26	<2.26	2.5	<2.26	<2.26
1,1-Dichloroethane (1,1-DCA)	1.8	600	<0.966	<0.966	<0.966	<0.966	<0.966	<0.966	<0.966	<0.966	<0.966	<0.966	<0.966
1,2-Dichloroethane (1,2-DCA)	1.1	37	<0.943	<0.943	<0.943	<0.943	<0.943	<0.943	<0.943	<0.943	<0.943	<0.943	<0.943
1,1-Dichloroethene (1,1-DCE)	210.0	7,000	<1.01	<1.01	<1.01	<1.01	<1.01	<1.01	<1.01	<1.01	<1.01	<1.01	<1.01
cis-1,2-Dichloroethene	42.0	1,400	<1.03	<1.03	<1.03	<1.03	<1.03	5.9	<1.03	<1.03	<1.03	<1.03	<1.03
trans-1,2-Dichloroethene	42.0	1,400	<0.888	<0.888	<0.888	<0.888	<0.888	<0.888	<0.888	<0.888	<0.888	<0.888	<0.888
Ethylbenzene	11.0	370	3.0	4.2	3.9	<1.21	4.7	3.9	4.3	4.7	5.4	4.8	8.1
Methylene Chloride	630.0	21,000	4.3	<1.13	<1.13	4.7	2.4	<1.13	<1.13	8.9	<1.13	<1.13	2.2
Naphthalene	0.8	28	<6.13	<6.13	<6.13	<6.13	<6.13	<6.13	<6.13	<6.13	<6.13	<6.13	<6.13
Tetrachloroethene (PCE)	42.0	1,400	<1.84	<1.84	<1.84	<1.84	<1.84	<1.84	<1.84	<1.84	<1.84	<1.84	11.1
1,1,1-Trichloroethane (1,1,1-TCA)	5,200.0	170,000	<1.33	<1.33	<1.33	<1.33	<1.33	9.2	<1.33	<1.33	<1.33	<1.33	<1.33
Trichloroethene	2.1	70	<1.22	<1.22	2.3	<1.22	<1.22	328.0	<1.22	<1.22	<1.22	<1.22	2.7
Trichlorofluoromethane	NS	NS	<1.53	<1.53	1.7	7.6	<1.53	3.9	<1.53	<1.53	<1.53	<1.53	2.8
Vinyl chloride	1.7	57	<0.808	<0.808	<0.808	<0.808	<0.808	<0.808	<0.808	<0.808	<0.808	<0.808	<0.808
Total Xylene	100.0	3,300	16.7	25.1	23.0	2.7	27.6	23.8	26.0	25.5	27.1	27.8	27.7