

### **MEMORANDUM**

DATE : July 1, 2023

TO : Shane LaFave / Roers Companies, LLC

FROM : Pratap Singh, Ph.D., PE / KSingh

SUBJECT: Weekly Progress Report for Week Ending 07/01/2023

Community Within the Corridor - East Block

COPY TO : Que El-Amin / Scott Crawford, Inc., Robert Reineke, PE, Robert Fedorchak, PE

Project #40441B

The purpose of this memorandum is to summarize the work performed as a part of the emergency response for the referenced project for the week ending 07/01/2023. This document is intended to serve two purposes:

1. Summarizing the tasks performed during the past week, and

2. The action items for the following week.

Note that in the month of June, significant improvements have been made toward depressurization throughout the building, and reduction of TCE concentrations both inside the residential units as well as beneath the concrete slab. The three primary goals of acceptable indoor air quality standards, effective depressurization, and sub-slab TCE detections have shown dramatic improvements based on the corrective actions implemented in June 2023.

There are isolated areas which will require additional remediation. Efforts moving forward will focus on these areas and will include source removal, Biochar application, and supplemental fan installation. With the proposed improvements, we are confident that the Vapor Mitigation System's performance will be protective of public health and the environment.

Please see below for the tasks that were performed this week:

### 1. Task #1 – GC Testing by KSingh

KSingh continues to work on conducting gas chromatograph (GC) testing for measurement of TCE in various units of the East Block focused on the first floor. The focus of testing for TCE is concentrated in units that have detected elevated levels of TCE. Attachment A is comprised of Figure 1 for reference of Unit locations and blowers, with the test results of TCE shown in Tables 1 to 5.

A comprehensive data table of Indoor Air Monitoring Data for TCE is provided in Table 7 (Attachment C). Note that highlighted cell values in green indicate levels that are **lower** than the vapor risk screening levels for **residential** facilities. Graphs showing comprehensive data can be found in Attachment D. The findings of portable continuous and discrete testing for TCE are as follows:

- TCE detections ranged from 1.06 μg/m³ to 3.21 μg/m³ in Unit 1045 with an average of 2.68 μg/m³.
- TCE detections ranged from 0.6 μg/m³ to 2.54 μg/m³ in Unit 1050 with an average of 1.38 μg/m³.
- Continuous monitoring continues in Units 1045 and 1050 which are displayed in Attachment D in Figure 3. The continuous monitoring data shows a direct correlation with the barometric pressure and ambient temperature with the values of TCE.
- The increase in temperatures appeared to have aided the volatilization of TCE leading to higher ambient and sub-slab concentrations.
- TCE detections in Unit 1045 appear to have stabilized at ~2.5 μg/m³ which requires additional corrective action implementation. See #1 of Action Items on Page 2 for further description of actions to be taken.
- TCE detections in Unit 1050 have fluctuated and this Unit will be assessed for further action given this week's data.
- Overall, there was a <u>significant decline</u> in the indoor air concentrations in all the residential
  and utility units on the 1<sup>st</sup> floor of buildings 1B-W, 1B-SW, and 1B-S. Almost all units comply
  to the Vapor Action Levels (VAL) set forth by WDNR.

### 2. Task #2 – Sub-Slab TCE Concentration Distribution

Weekly readings of sub-slab vapor concentrations were recorded from the vapor pin installations to evaluate the magnitude and variation of sub-slab vapor contamination in the soil. Results include:

- Sub-slab vapor concentrations taken from various locations saw a decline in the levels after installation of the Obar Fans in the 1B-NW Garage and 1B-S.
- The majority of the areas on the first-floor exhibit lower values than the Vapor Risk Screening Level (VRSL) set forth by WDNR.
- The values of sub-slab TCE can be observed in Appendix D (Table 8). A major hotspot can
  be observed in the areas between Units 1043 1050, extending the Laundry and Storage
  Room which will require additional response action.
- In addition to this, the area outside the Electrical Room (1058) towards the southern part of the Gym has also demonstrated higher values likely due to volatilization.
- The south-west section of the garage has high value of sub-slab TCE coupled with no vacuum making it another area of concern.

#### 3. Task #3 – VMS Operations

All seven blowers continue to function properly and the addition of Blowers 5, 6, and 7 have provided consistent indoor air quality results since their installation.

### 4. Task #4 – Depressurization

The results of vacuum measurements are shown in Table 6 in Attachment B. Please note the following:

All the units and common areas in the East Block have demonstrated sufficient vacuum (> 0.01) except for Stairwell 4, SW Garage, and the N Mechanical Room as of June 30<sup>th</sup>.



Figure 9 in Attachment E shows the correlation between sub-slab vapor TCE values and the
corresponding vacuum levels at all the vapor pin installations. An improved positive
correlation coefficient indicates that presence of higher vacuum would result in lower subslab TCE levels giving evidence of the efficient functioning of the VMS system (vacuum
readings and sub-slab TCE levels are inversely proportional).

### Action Items for Week of July 2, 2023 – July 8, 2023

KSingh plans to perform the following tasks in the upcoming week:

- 1. Complete work plan for additional remediation in Units 1043, 1044,1045, Shared Laundry Room, Storage Room and SW Garage in Building 1B, and North Mechanical Room in Building 2A, and potentially Unit 1050. The plan will include a combination of source removal, Biochar application, and supplemental radon fan installation to be submitted to WDNR on July 7, 2023.
- 2. Measure and mark area to be excavated in specified units.
- 3. Explore additional sealing of wooden columns given most recent data.
- 4. Continue discrete sampling in various units and common areas and add results to comprehensive data table.
- 5. Continue continuous sampling of Units 1045 and 1050.
- 6. Conduct vacuum measurements at strategic locations within the buildings daily.
- 7. Continue to measure sub-slab TCE concentrations on a weekly basis to evaluate the performance of the VMS.

#### **Attachments**

KSingh has included the following attachments, figures and tables for reference:

- Attachment A: Summary of Monitoring Results by Date
  - Tables 1-5 Indoor Air Monitoring Results by Date
- Attachment B/Table 6: Comprehensive Vacuum Measurements (inches H<sub>2</sub>O)
- Attachment C/Table 7: Comprehensive Data Table Indoor Air
- Attachment D/Table 8: Comprehensive Data Table Sub-Slab Vapor TCE
- Attachment E: Figures 3-9 of TCE Levels through July 1, 2023



## Attachment A Monitoring Results by Date



### Attachment A

### Monitoring Results by Date On-site EPA Method TO-14 Data

Instrument: SRI 8610 Gas Chromatograph with ECD

Operator: KSingh

Table 1: Indoor Air Monitoring Results from 06/26/2023

Sample	Sample	Sample	TCE	PCE					
ID	Location	Time	(µg/m³)	(µg/m³)					
IA - 927	1053	14:08	0.47	ND					
IA - 928	1052	14:15	0.35	ND					
IA - 929	1049	14:23	1.03	ND					
IA - 930	1048	14:31	0	ND					
IA - 931	1044	14:38	1.67	ND					
IA - 932	1042	14:45	0.24	ND					
IA - 933	1040	14:53	0.24	ND					
IA - 934	1039	15:01	0.19	ND					
IA - 935	1037	15:08	0	ND					
IA - 936	1035	15:16	0	ND					
IA - 937	Basketball 1	15:24	0.2	ND					
IA - 938	1054	15:32	0.49	ND					
IA - 939	Stairwell 4	15:39	0.2	ND					
IA - 940	N Mechanical Room	15:47	2.86	ND					
Reporting Limit (µg/m3)			0.6	0.6					
ND Indicates Not Detected at listed reporting level									



Table 2: Indoor Air Monitoring Results from 06/27/2023

All samples from cracks in wooden columns in the respective units

Sample		Sample	TCE	PCE
ID	Location	Time		(µg/m³)
IA - 941	1045	12:15	22.7	ND
IA - 942	1050	12:25	4.24	ND
IA - 943	1042	12:34	ND	ND
IA - 944	1049	12:43	0.79	ND
IA - 945	1006	13:00	ND	ND
IA - 946	1025	13:07	ND	ND
IA - 947	2014	13:16	ND	ND
IA - 948	2045	13:27	ND	ND
IA - 949	2039	13:40	ND	ND
IA - 950	3039	13:49	ND	ND
IA - 951	3045	13:59	ND	ND
IA - 952	3014	14:07	ND	3.47
IA - 953	1044	14:15	2.53	ND
Reporting Limit (µg/m3)			0.6	0.6
	ND Indicates I	I Not Detected at listed	reporting level	



Table 3: Sub-Slab Monitoring Results from 06/28/2023

File	Sample	Sample	TCE	PCE					
ID	Location	Time	(µg/m³)	(µg/m³)					
IA - 512	SSD 1	13:59	18.66	1.87					
IA - 524	SSD 2	14:16	17.62	1.95					
IA - 525	SSD 5	14:23	400.4	1.54					
IA - 526	SSD 6	14:31	25.7	4.6					
IA - 527	1053 VRSL	14:39	20.35	ND					
IA - 528	Basketball 1 VRSL	14:47	120.15	11					
IA - 529	SSD 7	14:55	11.7	0.66					
IA - 530	1043 VRSL	15:04	134	240					
Reporting Limit (µg/m3)			0.6	0.6					
ND Indicates Not Detected at listed reporting level									

Table 4: Sub-Slab Monitoring Results from 06/29/2023

All samples from sub-surface taken from the vapor pins

Sample	Sample	Sample	TCE	PCE
ID	Location	Time	(µg/m³)	(µg/m³)
IA - 962	1055	13:15	13.5	ND
IA - 963	1054	13:25	0.483	ND
IA - 964	1053	13:35	55.7	ND
IA - 965	Oppo. 1054	13:49	46.9	ND
IA - 966	Stairwell 4	13:59	27.4	ND
IA - 967	1052	14:06	14.9	ND
IA - 968	1051	14:27	22.7	ND
IA - 969	1049	14:36	1.76	ND
IA - 970	1048	14:47	561	1.59
IA - 971	1050	14:57	265	ND
IA - 972	Out 1050	15:05	64.1	ND
IA - 973	1045	15:13	253	6.37
IA - 974	Out 1044	15:25	419	52.6
IA - 975	1043	15:33	7.92	16
IA - 976	1042	15:42	2.67	ND
IA - 977	1041	15:52	4.48	ND
IA - 978	1040	16:01	3.22	ND
IA - 979	Out 1040	16:10	3.1	ND



IA - 980	1039	16:21	15.2	ND					
IA - 981	1037	16:31	11.04	3.29					
IA - 982	1036	16:41	2.85	3.88					
Reporting Limit (µg/m3)			0.6	0.6					
ND Indicates Not Detected at listed reporting level									

Table 5: Sub-Slab Monitoring Results from 06/30/2023

All samples from sub-surface taken from the vapor pins									
Sample	Sample	Sample	TCE	PCE					
ID	Location	Time	(µg/m³)	(µg/m³)					
IA - 983	1035	10:27	0.534	ND					
IA - 984	Out 1035	10:36	10:36 73.2						
IA - 985	1058 E	10:45	87	3.99					
IA - 986	1058 W	10:55	ND	ND					
IA - 987	1026	11:15	7.39	ND					
IA - 988	1025	11:27	1.01	ND					
IA - 989	1014	11:35	21.2	2.28					
IA - 990	1011	11:44	1.5	0.771					
IA - 991	SE Lobby	11:52	ND	ND					
IA - 992	BB 1	13:10	25.1	12.1					
IA - 993	BB 2	13:19	286	11.8					
IA - 994	BB 3	14:46	0.733	1.21					
IA - 995	BB 4	14:53	0.569	3.51					
IA - 996	BB 5	15:02	27.5	4.05					
IA - 997	NE Garage	15:27	9.87	ND					
IA - 998	NW Garage	15:35	12.7	ND					
IA - 999	N Mech Room	15:44	27.07	1.43					
IA - 1000	SW Garage	15:52	300	0.831					
IA - 1001	SE Garage	15:59	1.24	ND					
IA - 1003	WB 102 Lobby	16:23	ND	ND					
IA - 1004	WB 117 Mech Room	16:40	ND	ND					
Reporting Limit (µg/m3)			0.6	0.6					
ND In	 dicates Not Detected at lis	ted reporting	level						



Attachment B
Table 6: Comprehensive Vacuum Measurements (inches H<sub>2</sub>O)

Note			Obar @ 75%		
Note			Obai (0, 7370		
Date	26-Jun	27-Jun	28-Jun	29-Jun	30-Jun
Time	14:00	14:26	15:00	13:00	10:15
Location					
1055	-0.374	-0.372	-0.374	-0.371	-0.37
1054	-0.777	-0.776	-777	-0.765	-0.77
1053	-0.419	-0.41	-0.416	-0.423	-0.422
Орро. 1054	-0.249	-0.238	-0.243	-0.054	-0.245
Stairwell 4	-0.005	-0.006	-0.006	-0.004	-0.003
1052	-0.761	-0.746	-0.763	-0.773	-0.765
1051	-0.186	-0.179	-0.181	-0.137	-0.17
1049	-0.189	-0.182	-0.184	-0.058	-0.183
1048	-0.088	-0.074	-0.086	-0.089	-0.085
1050	-0.099	-0.087	-0.094	-0.029	-0.086
Out 1050	-0.128	-0.11	-0.111	-0.112	-0.11
1045	-0.051	-0.053	-0.53	-0.021	-0.053
Out 1044	-0.133	-0.121	-0.126	-0.13	-0.129
1043	-0.027	-0.043	-0.033	-0.042	-0.039
1042	-0.029	-0.031	-0.031	-0.033	-0.032
1041	-0.149	-0.079	-0.116	-0.05	-0.075
1040	-0.046	-0.046	-0.048	-0.029	-0.051
Out 1040	-0.061	-0.081	-0.088	-0.072	-0.078
1039	-0.018	-0.018	-0.019	-0.006	-0.016
1037	-0.067	-0.054	-0.076	-0.08	-0.079
1036	-0.188	-0.199	-0.196	-0.2	-0.192
1035	-0.122	-0.101	-0.126	-0.111	-0.117
Out 1035	-0.04	-0.043	-0.04	-0.036	-0.038
1058 E	-0.079	-0.076	-0.077	-0.081	-0.073
1058 W	-0.117	-0.097	-0.119	-0.101	-0.099
1026	-0.136	-0.12	-0.133	-0.125	-0.139
1025	-0.066	-0.067	-0.064	-0.059	-0.076
1014	-0.218	-0.217	-0.218	-0.223	-0.222



1011	-0.059	-0.052	-0.055	-0.061	-0.064					
SE Lobby	-0.562	-0.575	-0.566	-0.572	-0.577					
BB 1	-0.024	-0.023	-0.024	-0.019	-0.023					
BB 2	-0.015	-0.019	-0.016	-0.015	-0.02					
BB 3	-0.057	-0.049	-0.048	-0.049	-0.048					
<b>BB 4</b>	-0.022	-0.011	-0.024	-0.021	-0.024					
BB 5	-0.029	-0.036	-0.026	-0.024	-0.032					
SW Garage	0	0	0	0	0					
SE Garage	-0.024	-0.037	-0.031	-0.029	-0.032					
NW Garage	-0.019	-0.029	-0.022	-0.025	-0.035					
NE Garage	-1.489	-1.553	-1.519	-1.544	-1.539					
N Mech Room	0	0	0	0	0					
Red highlighted cells indicate values below the desired level on -0.01 in H <sub>2</sub> O										



## Attachment C Comprehensive Data Table – Indoor Air



	Community Within the Corridor - East Block																																
Sample Location	30-Mar	31-Mar	1-Apr 3-Apr 4-Apr	5-Apr 6-	-Apr 7-A	Apr 10-Apr 11-	Apr 12-Apr	13-Apr 14-Apr	r 15-Apr 17-Ap	pr 18-Apr	r 19-Apr	20-Apr 21-A	or 24-Apr 25-	or 26-Apr	27-Apr 28-A	Apr 1-Mav			mpling Test Results  4-May 5-May 8-May	9-Mav	10-Mav	11-May 1	2-May 15-May 16-May	17-Mav	18-May 19-May 22-May 23-Ma	av 24-Mav	25-May 26-May 30-May 31-May	1-Jun	5-Jun 7-Jun	8-Jun 9-Jun 12-Ju	n 13-Jun 14-Jun 15-Jun	16-Jun 23-Jun	n 26-Jun
1045 Entry Floor Hole 1045 North Wall			400														,	,	,	,			,			,,							
1045 Wood Column			1500				352																										
1050 South Wall Hole 1st Floor Hallway Center	15		8000	17.7	64 25	5 81.1 3	5	42.7 63.3	106 181	. 147	8.5	22.4 7.4	7.8	4.7	17.7 2.3	7	14	9	3.5 2.3	3.49					21.2 3.48 5.39		2.38 3.6				0.24		
1st Floor Hallway North 1st Floor Hallway South	10 5.2																					0.947	1.92 1.96	0						0.4			+-
2081 Hallway  2nd Floor Corridor North		0																															1
2nd Floor Corridor South 2nd Floor Hallway Center	0.7	0						3 3.6													4.69		4.2				2.74			0.42			
2nd Floor Hallway North 2nd Floor Hallway South		0						3 3.5													4.03		7.2				2.77			0.42			
Stairwell 2		2											4.5		2.9	9					4.15												
2nd Floor Stairwell 4 2nd Floor Stairwell 8		0											12	4					7.19														
3rd Floor Corridor 3rd Floor Hallway Center			0					3.3 2															1.7				1.71			0.4			+-
3rd Floor Hallway South  3rd Floor Stairwell 2	0 3.4			2.1															2.35														+
Stairwell 3 3rd Floor Stairwell 4			0.6										11	2							3.9									0.1	0.23		1
Basket Ball Court	0.3												1	!	6.3		2.2		3 2.3 0.624			1.02			1.84 8.96					2.65			0.2
Basket Ball Court 2  Basket Ball Court 3														/.3					2.3 0.024			2.02			1.53 0 1.56 0.536	5					0.24		$\pm \pm$
Basket Ball Court 4 Elevator	0																								0.816 0.734								
Fitness Center Front Lobby		0				49	1.6 43.7	28.1					29.3								29		33.8		21 24.5 16.6	42.5	15.1 24.2	16.1	4.2	0.4	0.29 0.55		0.49
NW Garage N Garage	0.6								$\pm \mp$		$oldsymbol{\perp}$			0									1.78	14 0.607	0.62 0 0.63	0.776				0.8	0 0.27		<u>+</u> =
SE Garage Hallway Outside 3021	0.8		0												7.3	7									6.6	0.6					0.23		
Hallway Outside 3035 Hallway Outside 3065			0 0.7																														$\blacksquare$
N Mechanical Room  Men's Locker Room			0.7	60.7 1	122	122		5.9 14.8 82.9	7 7.3		5.3 131		10 7	7.2	7.8 4.5				10.1 10.9	11.8 53.3		6.89	10.7 52.3 7.62		0.73	7	21.7	1.5		0.5	3.4		2.86
Women's Locker Room				60.7	123	122	428	82.9		161	131	23.7	28.3			36	31.0		45	55.5			52.3 7.02				25.8			0.4	0.5	0.36	0.47
Powerhouse Unit 1002 - Postboxes														0.7	3.2												0						
Unit 1006 SSD Vent Pipe #1 - S - 7.5 HP	0.3	0	13 22 24.5	22 2	24.8 24	4 26.7 26	i.2 28	28 30.3	31.4 34.6	5 28.2	4.3 36.4	33.1 35.2	1.4	31.4	28.6	2.97 26.1	27.9		25.7	26.2	2.4	21.9	1.7	27.01	26.7	7.04	0 19.6				0.21		
SSD Vent Pipe #2 - S - 10 HP SSD Vent Pipe #3 - N - 7.5 HP			26 30 21.9 17.6		18.7 17. 3 5	7.2 44.4 19 5 3.3 3		47.7 29.3 11.9 7.17							28.5 6.1	1.2 8.6			20 5.9	15.7 4.97		18.7		18.2 3.47		11.1	33.8 4.8				3.4		
SSD Vent Pipe #4 - N - 10 HP SW Garage			41.2	29.5	33 39	9 37 38	39.1	29.3 44	41.9 36.8	38.2	35 11.3		46.3	5.7	44.4 20.3	38.3 25.2			37.7 26.1 23.6	22.4 25.5		4.83 21.4		31.1 0.683		4.7	20.2				0.3	0.33	
Stairwell 4 Stairwell 6	1.6			2.2		2.7 2.	.6		14.4		7						12						6	9.03					3	0.34	0.24	0.33	0.2
Stairwell 7																					2.61	0											
Unit 1011 Unit 1014							)														2.61	0					0			0.21		0	
Unit 1025 Unit 1026	0.3				0.9	96 0	)				3.6				4.8						1.67	0	0		1.1	0	0 0			0.31			
Unit 1035 Unit 1036	0.3																				1.37				4.59		2.37 1.2		6.9	0.22		0.3	
Unit 1037 Unit 1039	4.7						.4 8						3.	1				1.4					5.18		6.06		3.7 1.19 8.1			0.46			0.1
Unit 1040 Unit 1041	10.3 11.6		12.7		19.	1.9 16	14.5 i.8 14.4			21.2	22.6								13		11.2	7.37	7.25 7.07				5.29 11.5 9.13 10.9			0.6			0.24
Unit 1042 Unit 1043	11.4 17.6			21.6 3	31.3	16	i.2 15.2 24							12.6	9.3	3 15.5			11.9	13.1			8.22 13.6 6.61 117	_	1.42 5.16	3.88	10.1 5.3		4 19.2	0.8	0.32	0.47	0.24
Unit 1044	56 350		200	77 9	95		.7 84.5		101 005	85.8		45.6	53.3		51.0		400	404		22.0		47.0	37.6 14.3 22.6 9.82			40.7	29.3 37.8	22.2		1.7	1.85	3.2	1.67
Unit 1045 Unit 1048	350		293 298 287	2/2 2	267 27	79 28.9 23	30 352	236 151.5	336	115	283	61 127	116 11	2 221	51.3 26.	.6 90.3	132	121					86.2	60.7	45.7			121	19.8 13.5	0.33	3.33 2.99 2.88 0.43	0.72	0.1
Unit 1049 Unit 1050	160		137 143 110	348 2	280 10	08 135 11	14 706	145 60	118 142	149	110	77.8 131	138 15	2 113	71.7 19	9 231	194	186	95.5 174 67.5		159		96.9 75.7 228 77.9		103 90.7 90.9 88.5	147	170 116 78.4	21.8 60.4			0.58 1.95 2.12 2.17		1.03
Unit 1051 Unit 1052	19			88.7 9		i.4 i.7 128 10				70.5		57.2	70.3	72	20.	.2 73.6	62.6	340	76	70.7			52.7 55.7		32		18.2 16.8 21.1	16.9 14.5		0.76	0.38 0.36		0.35
Unit 1056 Unit 1057			24.8											44													0	14.6					+
Unit 1058 Unit 1079																							152		1.46		0				0.21	0.34	4-
Unit 2014 Unit 2015																		48.8			0.77		0							0.3			1
Unit 2016 Unit 2017		0																															$\blacksquare$
Unit 2022		0																															
Unit 2025 Unit 2036		0											(																				
Unit 2037 Unit 2039		0						2.5 2.5													0.77												
Unit 2040 Unit 2042		0			0														2.5														
Unit 2043 Unit 2044	0.4	0																															$+ \blacksquare$
Unit 2045 Unit 2049		18		8	9	2.9		3.7 5.2										19.1	1.36				0.99		1.97 2.99		11.8			0.52			$\blacksquare$
Unit 2056 Unit 2057	60	52 4.7		42.2 2	24.7 49.	1.2 9.6		3.4 6.6					1.	5					4.21			0.64	1.11		5.89 11.5		66.4			1			$\pm 1$
Unit 2058	3.8	4.2		8.5		3.8													2.9			U.04											$\pm \pm$
Unit 2059 Unit 2061		0																															
Unit 2062 Unit 2064	0	0		1		+					+								1.78	$+ \top$	$- \mp$					+					+ $+$ $+$		+
Unit 2077 Unit 2111	0			1.6															1.7 0.838							0							##
Unit 3014																														0.3			



Unit 3015	0		0												
Unit 3023										0					
Unit 3025							0								
Unit 3035	0														
Unit 3036	0														
Unit 3037	0		2 N	ND											
Unit 3039	0				1.8										
Unit 3040	0						0								
Unit 3041	0							2.45							
Unit 3042	0														
Unit 3043	0														
Unit 3044	0														
Unit 3045	6.6				2.7 2.7			0			3.75	8.11			
Unit 3056	6 9.6	2.4		0.9	2.4 2.4		0				1.21	6.99		0.22	
Unit 3057	0							0						0.3	
Unit 3058	0														
Unit 3059	0														
Unit 3061	0														
Unit 3062	0														
Unit 3063								0							
Unit 3092								1.67							



# Attachment D Table 8: Comprehensive Data Table – Sub-Slab Vapor TCE

Green cells indicate the VRSL levels below the DNR limit of 70 ug/m3											
Location	Location Ref.	Week of 6/3	Week of 6/17	Week of 6/24	Week of 7/1						
1055	Women's Locker Room		46.5	17.3	13.5						
1054	Fitness Room	596	0.8	4.8	0.483						
1053	Men's Locker Room		102.3	71.31	55.7						
Oppo. 1054			58.9	55.6	46.9						
Stairwell 4			252.5	6.3	27.4						
1052	Mechanical Room		63.9	38.1	14.9						
1051			47.3	32.4	22.7						
1049	Storage Room	426	2.6	3.38	1.76						
1048	Laundry Room	322	679	572	561						
1050		1443	303.4	377	265						
Out 1050		971	113.1	10.1	64.1						
1045		750	271.6	206	253						
Out 1044		456	380.5	364	419						
1043			178.5	185	7.92						
1042		11.8	15.93	10.4	2.67						
1041			108.7	13.2	4.48						
1040		1.6	11.7	16.1	3.22						
1040 - out				21.3	3.1						
1039		23.5	62.2	4.3	15.2						
1037			240.4	4.3	11.04						
1036			17.2	5.5	2.85						
1035			0.8	7	0.534						
1035 - out			87	55.4	73.2						
1058 E	Electric Room		433.8	1.5	87						
1058 W	Electric Room		73.3	6.99	0.1						
1026			16.7	6.6	7.39						



1025			2.2	2.1	1.01
1014			23.9	2.2	21.2
1011	Conference Room		17.5	1.6	1.5
SE Lobby	Near Exit	328	0.46	0.5	0.1
BB 1	SW of the Gym			73	25.1
BB 2	South part of the Gym		30.8	1.5	286
BB 3	SE part of the Gym		2.2	1.6	0.733
BB 4	N of the Gym		2.6	1.9	0.569
BB 5	Center of the Gym		58.9	1.9	27.5
SE Garage			10.3	1.6	1.24
SW Garage			227.4	63.7	300
NE Garage			24.8	2.8	9.87
NW Garage		,	141.5	4.7	12.7
N Mech Room			60.2	147	27.07



## Attachment E Figures of TCE Levels through July 1, 2023

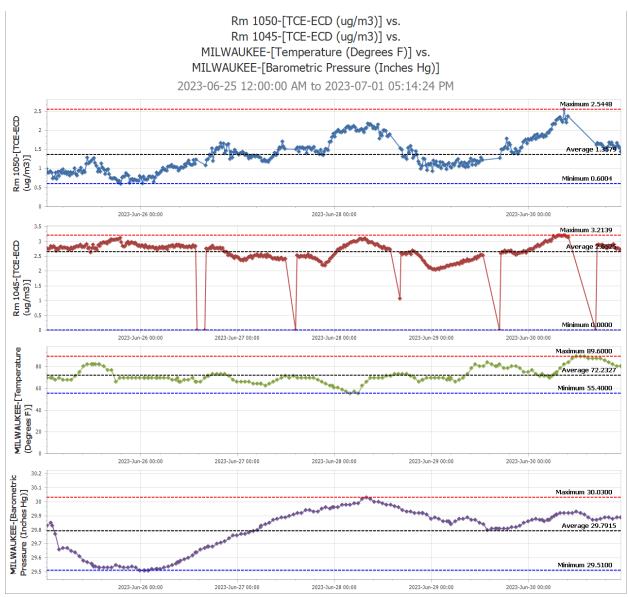


Figure 3 – Continuous Monitoring Data for Units 1045 and 1050 since June 18, 2023



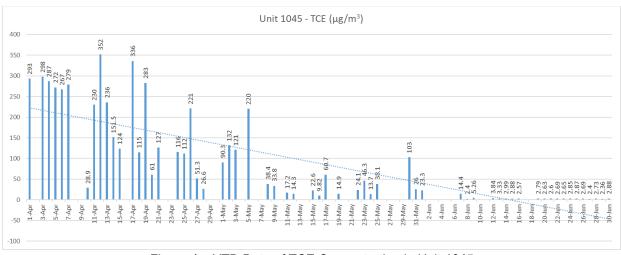


Figure 4 – YTD Data of TCE Concentration in Unit 1045

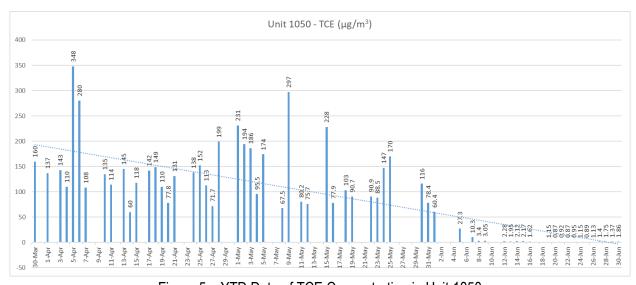


Figure 5 – YTD Data of TCE Concentration in Unit 1050



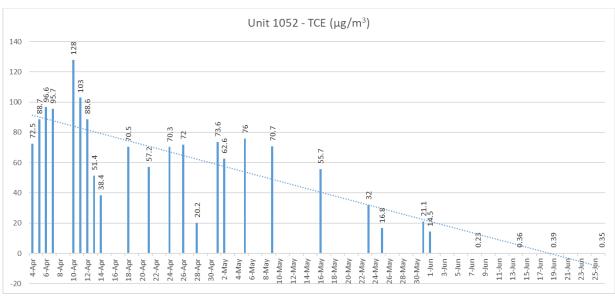


Figure 6 – YTD Data of TCE Concentration in Unit 1052

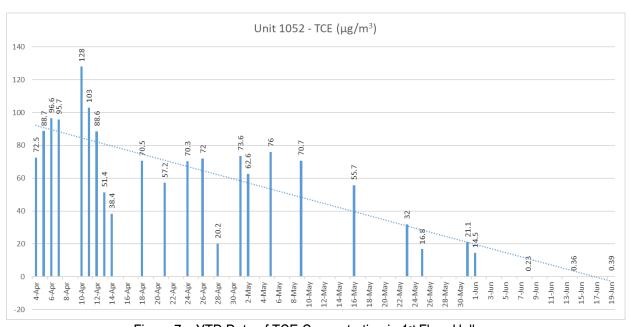


Figure 7 – YTD Data of TCE Concentration in 1st Floor Hallway



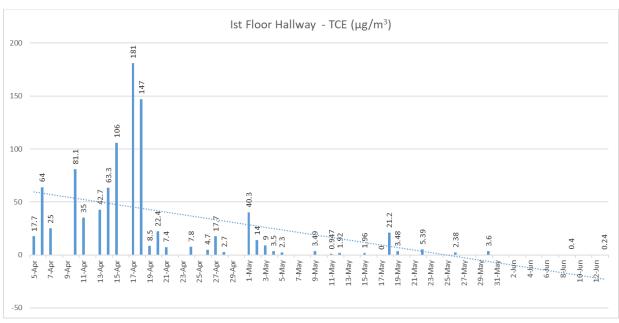


Figure 8 – YTD Data of TCE Concentration in 1st Floor Hallway

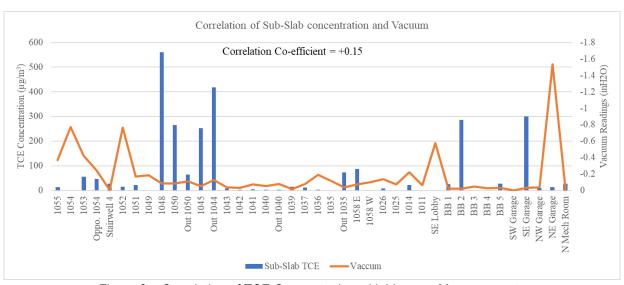


Figure 9 – Correlation of TCE Concentration with Vacuum Measurements

