

MEMORANDUM

DATE : May 20, 2023

TO : Shane LaFave / Roers Companies, LLC

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

SUBJECT : Weekly Progress Report for Week Ending 05/20/2023
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 05/20/2023. 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.

The following tasks were performed this week which are summarized below:

1. Task #1 – GC Testing by KSingh & Hartman

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. The test results of TCE are shown in Tables 1 to 5 in Attachment A. Comprehensive data tables of Indoor Air Monitoring Data for TCE is provided in Attachment C. The findings of portable discrete testing for TCE are as follows:

- TCE detections ranged from 10 ug/m³ to 61 ug/m³ in unit 1045.
- TCE detections ranged from 78 ug/m³ to 228 ug/m³ in Unit 1050.
- TCE was detected at 56 ug/m³ in Unit 1052 where the concrete was filled in under water pipe going out the wall onto the 32nd Street. This number was improved after an open pipe coming out of the floor was sealed.
- TCE detections ranged from 0 ug/m³ to 22 ug/m³ in the First Floor Hallway.
- The two north blowers detections of TCE ranged from 3.4 ug/m³ to 31 ug/m³.
- The two south blowers detections of TCE ranged from 18 ug/m³ to 27 ug/m³.

2. Task # 2 – Excavation of Sump Pits

Horner Plumbing began saw-cutting activities to prepare for sump pump installation. Horner installed three sump pumps and two new drain tiles. Minimal free water was noted. Soil samples were taken to document contamination removed and they will be tested for VOCs. Excavated soils were placed

in 55-gallon drums for disposal. GC testing in the proximity of excavation indicated TCE concentrations were approximately 21 ug/m³.

3. Task #3 – VMS Operations and Troubleshooting

The following tasks were performed:

- All four blowers are functioning. Fliteway Technologies and KSingh are monitoring the operations of the VMS.
- Water extraction from the blowers has reduced significantly and no water was extracted throughout the week as compared to previous weeks.
- The vacuum measurements in the 1st floor hallway in Buildings 1B-SW and 1B-W continue to be 0, while those in the Gym have consistent negative values between – 0.016 to – 0.113 in H₂O. The vacuum measurement near the exit of 3100 W. Center Street was between - 0.808 to -0.821 in H₂O.
- A new vapor pin was installed in the North Mechanical room in the previous week, but no vacuum was detected. Vacuum measurements from all the blowers were also noted to be between – 8 and – 16 inches of water.
- New vapor pins were installed in Units 1026, 1036, and 1058 in the previous weeks. The readings at these locations indicated vacuum in these units due to the South blowers. These units are apparently unaffected by the presence of water in the system. The results of vacuum measurements are shown in Table 6 in Attachment B.

Action Items for Week of May 21, 2023 – May 27, 2023

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

1. Horner to complete additional sump installation.
2. Conduct Smoke Testing.
3. Seek Approval from MMSD regarding previously submitted NOI for discharging of water.
4. Install access points for CCTV Inspection.
5. Conduct CCTV Inspection.
6. Coordinate with Fliteway Technologies for 2 HP Blower Rentals.
7. Continue discrete sampling in the various impacted units and add results to comprehensive table.
8. Conduct vacuum measurements at strategic locations within the buildings.
9. Continue to prepare comprehensive figure showing indoor air data.

Attachment A
Summary of Monitoring Results by Date

Attachment A
Monitoring Results by Date
On-site EPA Method TO-14 Data from Indoor Air Samples

Instrument: SRI 8610 Gas Chromatograph with ECD

Operator: KSingh

Table 1: Monitoring Results from 5/15/2023

Sample ID	Sample Location	Sample Time	TCE (µg/m ³)	PCE (µg/m ³)	Comments
IA - 512	Unit 1050	9:45	228	ND	Bathroom
IA - 513	Unit 1042	9:53	13.6	ND	Column
IA - 514	Mens Locker Room	10:10	52.3	ND	
IA - 515	Unit 1079	10:18	152	ND	
IA - 516	Stairwell 7	10:58	7.69	ND	
IA - 517	N Mech Room	11:07	10.7	ND	
IA - 518	3rd Floor Hallway	11:41	1.7	ND	
IA - 519	Unit 3023	11:52	0	ND	
IA - 520	SE Lobby	12:05	1.96	ND	3A Basement
IA - 521	Community Room	12:17	1.7	ND	
IA - 522	Unit 1045	12:32	22.6	ND	
IA - 523	2nd Floor Hallway	12:42	4.2	ND	
IA - 524	Unit 2045	13:01	0.99	ND	
IA - 525	Unit 2056	13:15	1.11	ND	Living Room
Reporting Limit (µg/m ³)			0.6	0.6	
ND Indicates Not Detected at listed reporting level					

Table 2: Monitoring Results from 5/16/2023

Sample ID	Sample Location	Sample Time	TCE ($\mu\text{g}/\text{m}^3$)	PCE ($\mu\text{g}/\text{m}^3$)	Comments
IA - 526	Unit 1039	15:45	5.18	ND	
IA - 527	Unit 1040	15:55	7.25	ND	
IA - 528	Unit 1041	16:12	7.07	ND	
IA - 529	Unit 1042	16:20	6.61	ND	
IA - 530	Unit 1043	16:28	11.7	ND	
IA - 531	Unit 1044	16:37	37.6	ND	
IA - 532	Unit 1045	16:46	9.82	ND	
IA - 533	Unit 1050	16:57	77.9	ND	
IA - 534	Unit 1051	17:04	52.7	ND	
IA - 535	Unit 1052	17:12	55.7	ND	
IA - 536	Storage Room	17:20	121	ND	
IA - 537	Fitness Room	17:28	33.8	ND	
IA - 538	Mens Locker Room	15:37	7.62	ND	
Reporting Limit ($\mu\text{g}/\text{m}^3$)			0.6	0.6	
ND Indicates Not Detected at listed reporting level					

Table 3: Monitoring Results from 5/17/2023

Sample ID	Sample Location	Sample Time	TCE (µg/m ³)	PCE (µg/m ³)	Comments
IA - 539	SSD 1 – South 7.5 HP	10:53	27.01	1.77	
IA - 540	SSD 2 – South 10 HP	11:01	18.2	2.17	
IA - 541	SSD 3 – North 7.5 HP	11:23	3.47	0.692	
IA - 542	SSD 4 – North 10 HP	11:31	31.1	ND	
IA - 543	SSD 5	11:40	0.683	ND	
IA - 544	N Garage	11:53	0.607	ND	
IA - 545	SW Garage	12:13	14	ND	
IA - 546	Unit 1045 Pillar	13:13	60.7	ND	
IA - 547	Stairwell 4	13:35	9.03	ND	
IA - 548	SE Garage	13:43	4.96	ND	
IA - 549	Fitness Room	16:54	21	ND	
IA - 550	Unit 1042	17:03	0.53	ND	
IA - 551	SW Hallway	17:11	ND	ND	
Reporting Limit (µg/m ³)			0.6	0.6	
ND Indicates Not Detected at listed reporting level					

Table 4: Monitoring Results from 5/18/2023

Sample ID	Sample Location	Sample Time	TCE ($\mu\text{g}/\text{m}^3$)	PCE ($\mu\text{g}/\text{m}^3$)	Comments
IA - 551	SSD 5	11:26	1.15	ND	
IA - 552	N Garage	11:36	0.95	ND	
IA - 553	SE Garage	11:47	1.62	ND	
IA - 554	SW Garage	11:55	11.4	ND	
IA - 555	Fitness Room	12:04	21	ND	
IA - 556	Unit 1042	12:12	3.14	ND	
IA - 557	1st Floor Hallway	12:25	21.2	ND	SW
IA - 558	Basket Ball Court 1	12:35	1.84	ND	SE
IA - 559	Basket Ball Court 2	12:43	1.53	ND	NE
IA - 560	Basket Ball Court 3	12:52	1.56	ND	NW
IA - 561	Basket Ball Court 4	15:32	0.816	ND	
IA - 562	Unit 1050	15:42	103	ND	
IA - 563	Unit 2045	15:51	1.97	ND	
IA - 564	Unit 2056	16:02	5.89	ND	
Reporting Limit ($\mu\text{g}/\text{m}^3$)			0.6	0.6	
ND Indicates Not Detected at listed reporting level					

Table 5: Monitoring Results from 5/19/2023

Sample ID	Sample Location	Sample Time	TCE ($\mu\text{g}/\text{m}^3$)	PCE ($\mu\text{g}/\text{m}^3$)	Comments
10 ppbv		9:10	11.3	16.2	
IA - 565	1st Floor Hallway	11:01	3.48	2.17	
IA - 566	Unit 1042	11:23	1.46	0.692	
IA - 567	SW Garage	11:31	8.95	ND	
IA - 568	SE Garage	11:40	1.47	ND	
IA - 569	N Garage	11:53	0	ND	
IA - 570	Fitness Room	12:13	24.5	ND	
IA - 571	SSD 5	13:13	0	ND	
IA - 572	Unit 1045	13:35	14.9	ND	
IA - 573	Unit 1050	13:43	90.7	ND	
IA - 574	SSD 1 – South 7.5 HP	16:54	26.7	ND	
IA - 575	SSD 2 – South 10 HP	17:03	19.3	ND	
IA - 576	SSD 3 – North 7.5 HP	17:11	3.41	ND	
IA - 577	SSD 4 – North 10 HP		21.9		
Reporting Limit ($\mu\text{g}/\text{m}^3$)			0.6	0.6	
ND Indicates Not Detected at listed reporting level					

Attachment B

Table 6: Comprehensive Vacuum Measurements (inches H₂O)

Location	15-May	16-May	17-May	18-May	19-May
Unit 1040	0	0	0	0	0
Unit 1044	0	0	0	0	0
Unit 1050	0	0	0	0	0
Stairwell 4	0	0	0	0	0
Baseball Court - 1	-0.052	-0.053	-0.045	-0.052	-0.058
Baseball Court - 2	-0.023	-0.02	-0.02	-0.016	-0.016
Baseball Court - 3	-0.107	-0.108	-0.113	-0.094	-0.094
Exit 3100 W Center St	-0.816	-0.808	-0.821	-0.812	-0.81
SSD 1 – South 7.5 HP	-16	-15	-16	-16	-15
SSD 2 – South 10 HP	-15	-15	-14	-15	-15
SSD 3 – North 7.5 HP	-9	-8	-9	-8	-8
SSD 4 – North 10 HP	-13	-13	-13	-13	-13
N Mech Room	0	0	0	0	0
Unit 1026	-0.038	-0.041	-0.035	-0.041	-0.054
Unit 1036	0	0	0	-0.014	-0.016
Unit 1058	-0.016	-0.019	-0.019	-0.013	-0.025

Attachment C
Comprehensive Data Tables

