

From: Brian Kappen <bkappen@enviroforensics.com>
Sent: Monday, November 14, 2022 2:40 PM
To: Schultz, Josie M - DNR
Cc: Rob Hoverman
Subject: Troy Cleaners Data
Attachments: 6351 Documents_DRAFT.pdf

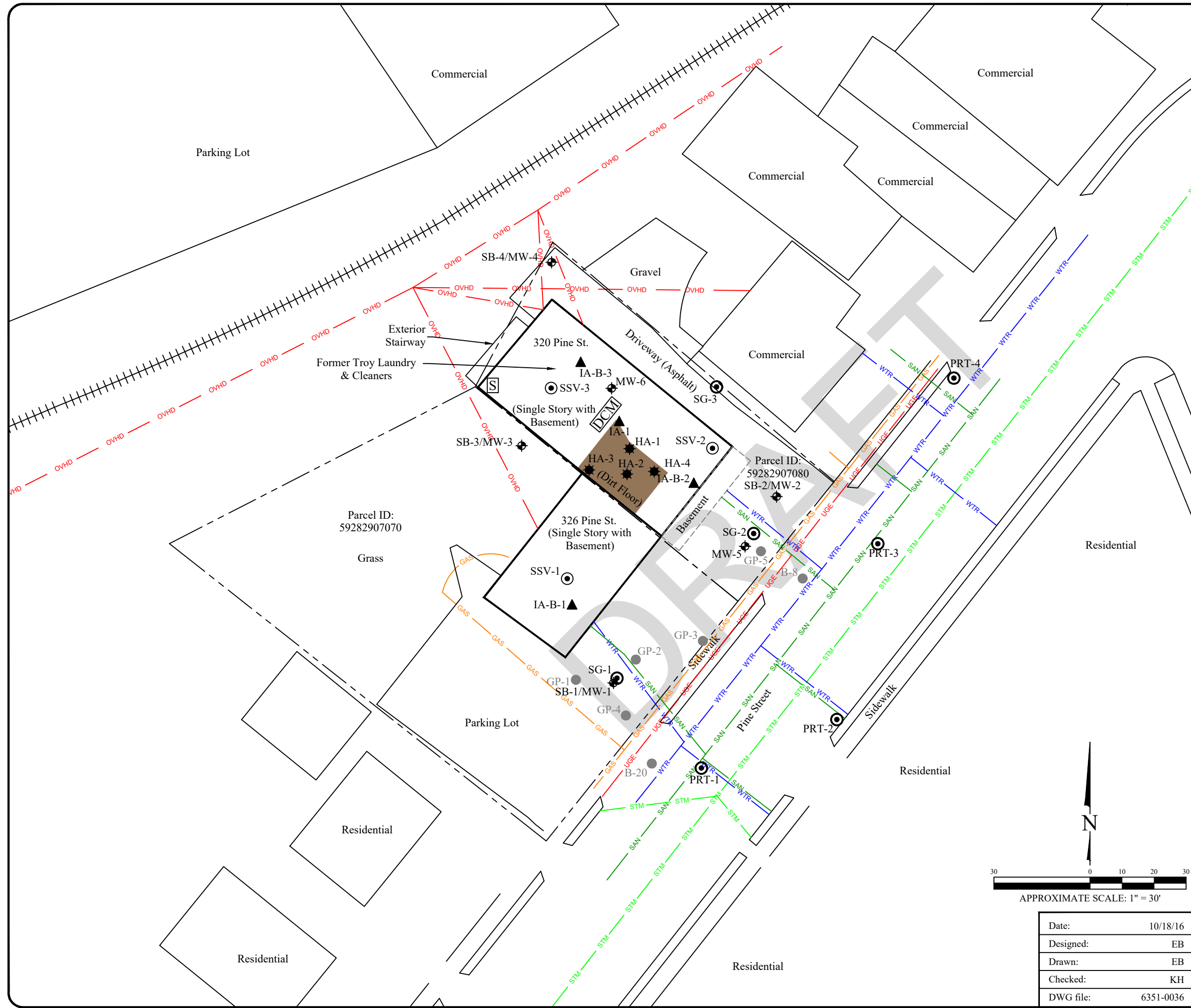
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Good Afternoon,

Sharing recent data from the subject site for our discussion today. All new groundwater and vapor/air data have a collection date of 6/7/2022.

Regards,

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Legend

- Property boundary
- Railroad tracks
- SAN Underground sanitary utility line
- STM Underground storm utility line
- GAS Underground gas utility line
- WTR Underground water utility line
- OVHD Over head electrical utility line
- UGE Underground electrical utility line
- GP-1 Soil boring (By Others)
- SB-1/MW-1 Soil Boring/Monitoring well
- SG-1/PRT-1 Soil Gas sampling point
- PRT soil gas sample boring
- OA-1 Outdoor air sample
- IA-B-1 Indoor air sample
- SSV-1 Sub-slab sample
- HA-1 Hand Auger
- DCM Former dry cleaning machine location
- S Former PCE storage
- Dirt floor area

SITE LAYOUT AND INVESTIGATION SAMPLE LOCATIONS

Former Troy Laundry & Cleaners
320 Pine Street
Sheboygan Falls, Wisconsin

Date: 10/18/16	Figure
Designed: EB	2
Drawn: EB	Project
Checked: KH	6351
DWG file: 6351-0036	

825 North Capitol Avenue • Indianapolis, IN 46204
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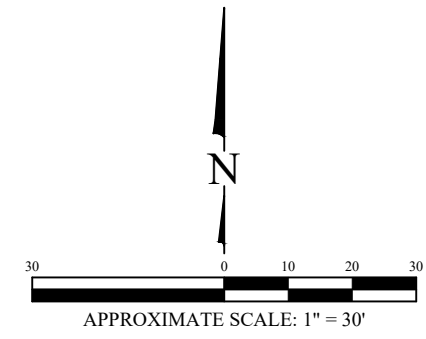


TABLE 4
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
 MT Wooden Wash Tub
 320 Pine Street, Sheboygan Falls, Wisconsin

Consultant	Sample Location Identification	Sample Identification	Sample Date	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	Choloform	p-Isopropyltoluene	Toluene
Enforcement Standard				5	5	70	100	0.2	6	NE	1,000
Preventive Action Limit				0.5	0.5	7	20	0.02	0.6	NE	200
Earth Tech, Inc	B-8	B8	9/23/2002	6.45	<0.36	<0.23	<0.39	<0.2	<0.27	<0.32	<0.3
	B-20	B20	9/23/2002	NR	NR	NR	NR	NR	NR	NR	NR
AES Consultants	GP-1	GP-1	4/1/2003	<0.500	<0.500	<0.500	<0.500	<0.170	<0.140	<0.500	<0.500
	GP-2	GP-2	4/1/2003	<0.500	<0.500	<0.500	<0.500	<0.170	<0.140	<0.500	<0.500
	GP-3	GP-3	4/1/2003	<0.500	<0.500	<0.500	<0.500	<0.170	<0.140	<0.500	<0.500
	GP-4	GP-4	7/2/2003	<0.500	<0.500	<0.500	<0.500	<0.170	<0.140	<0.500	<0.500
	GP-5	GP-5	7/2/2003	18.8	<0.500	<0.500	<0.500	<0.170	<0.140	11.4	<0.500
EnviroForensics	MW-1	6351-MW-1	9/29/2016	2.62	<0.47	<0.45	<0.54	<0.17	<0.43	<1.1	<0.44
		6351-MW-1	12/9/2016	1.41 J	<0.47	<0.45	<0.54	<0.17	<0.43	<1.1	<0.44
		6351-MW-1	12/11/2017	1.09 J	<0.45	<0.41	<0.35	<0.19	<0.96	<0.28	<0.67
		6351-MW-1	3/29/2018	1.24	<0.3	<0.37	<0.34	<0.2	<0.26	<0.24	<0.19
		6351-MW-1	6/21/2018	1.42	<0.3	<0.37	<0.34	<0.2	<0.26	<0.24	<0.19
		6351-MW-1	9/25/2018	1.64	<0.3	<0.37	<0.34	<0.2	<0.26	<0.24	<0.19
		6351-MW-1	6/7/2022	0.62 J	<0.38	<0.32	<0.5	<0.15	<0.33	<0.47	<0.33
	MW-2	6351-MW-2	9/29/2016	1.71	<0.47	<0.45	<0.54	<0.17	<0.43	<1.1	<0.44
		6351-MW-2	12/9/2016	1.63	<0.47	<0.45	<0.54	<0.17	<0.43	<1.1	<0.44
		6351-MW-2	12/11/2017	1.23 J	<0.45	<0.41	<0.35	<0.19	<0.96	<0.28	<0.67
		6351-MW-2	3/29/2018	1.64	<0.3	<0.37	<0.34	<0.2	<0.26	<0.24	<0.19
		6351-MW-2	6/21/2018	2.1	<0.3	<0.37	<0.34	<0.2	<0.26	<0.24	<0.19
		6351-MW-2	9/25/2018	2.52	<0.3	<0.37	<0.34	<0.2	<0.26	<0.24	<0.19
		6151-MW-2	6/7/2022	1.47 J	<0.38	<0.32	<0.5	<0.15	<0.33	<0.47	<0.33
	MW-3	6351-MW-3	9/29/2016	2.5	<0.47	<0.45	<0.54	<0.17	<0.43	<1.1	<0.44
		6351-MW-3	12/9/2016	1.93	<0.47	<0.45	<0.54	<0.17	<0.43	<1.1	<0.44
		6351-MW-3	12/11/2017	1.98	<0.45	<0.41	<0.35	<0.19	<0.96	<0.28	<0.67
		6351-MW-3	3/29/2018	1.9	<0.3	<0.37	<0.34	<0.2	<0.26	<0.24	<0.19
		6351-MW-3	6/21/2018	2.14	<0.3	<0.37	<0.34	<0.2	<0.26	<0.24	<0.19
		6351-MW-3	9/25/2018	2.29	0.37 J	<0.37	<0.34	<0.2	1.16	<0.24	<0.19
		6351-MW-3	6/7/2022	1.45 J	<0.38	<0.32	<0.5	<0.15	<0.33	<0.47	<0.33
	MW-4	6351-MW-4	9/29/2016	<0.49	<0.47	<0.45	<0.54	0.72	<0.43	<1.1	<0.44
		6351-MW-4	12/9/2016	<0.49	<0.47	<0.45	<0.54	<0.17	<0.43	<1.1	3.3
		6351-MW-4	12/11/2017	<0.48	<0.45	<0.41	<0.35	0.77	<0.96	<0.28	<0.67
		6351-MW-4	3/29/2018	<0.38	<0.3	<0.37	<0.34	<0.2	<0.26	<0.24	<0.19
		6351-MW-4	6/21/2018	<0.38	<0.3	<0.37	<0.34	<0.2	<0.26	<0.24	<0.19
		6351-MW-4	9/25/2018	<0.38	<0.3	<0.37	<0.34	0.34 J	<0.26	<0.24	<0.19
		6351-MW-4	6/7/2022	<0.47	<0.38	<0.32	<0.5	0.24 J	<0.33	<0.47	<0.33
	MW-5	6351-MW-5	12/11/2017	3.4	<0.45	<0.41	<0.35	<0.19	<0.96	<0.28	<0.67
		6351-MW-5	3/29/2018	3.05	<0.3	<0.37	<0.34	<0.2	<0.26	<0.24	<0.19
6351-MW-5		6/21/2018	4.7	<0.3	<0.37	<0.34	<0.2	<0.26	<0.24	<0.19	
6351-MW-5		9/25/2018	3.7	<0.3	<0.37	<0.34	<0.2	<0.26	<0.24	<0.19	
6351-MW-5		6/7/2022	3.5	<0.38	<0.32	<0.5	<0.15	<0.33	<0.47	<0.33	
6351-DUP-1		6/7/2022	3.5	<0.38	<0.32	<0.5	<0.15	<0.33	<0.47	<0.33	
MW-6	6351-MW-6	6/7/2022	0.75 J	<0.38	<0.32	<0.5	<0.15	<0.33	<0.47	<0.33	

Notes:

Samples analyzed for VOCs according to EPA Method 8260

Only detected compounds are listed

All concentrations reported in micrograms per liter (µg/L)

¹ Value applies to total combined trimethylbenzenes

Bolded values are above method detection limits

Bolded and orange shaded values are above Public Health Enforcement Standard

Bolded and blue shaded values are above Public Health Preventive Action Limit

J = Analyte concentration detected between the Method Detection Limit and Reporting Limit

NA = Not Analyzed

TABLE 6
SUMMARY OF VAPOR INTRUSION ASSESSMENT SAMPLE ANALYTICAL RESULTS
 MT Wooden Wash Tub
 320 Pine Street, Sheboygan Falls, Wisconsin

Sample Location	Sample Identification	Sample Date	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Benzene	Chloroform	m,p Xylene
INDOOR/OUTDOOR AIR												
Vapor Action Level ¹			180	8.8	NE	180	28	260	260	16	5.3	440
Outdoor	6351-OA-1	9/29/2016	<3.19	<1.07	<3.96	<3.96	<0.64	NA	NA	NA	NA	NA
		11/28/2017	<3.19	<1.07	<19.8	<39.6	<1.28	<4.92	<4.92	<1.60	<0.83	<43.4
		1/29/2018	<3.19	<1.07	<19.8	<39.6	<1.28	NA	NA	NA	NA	NA
		6/7/2022	<0.44	<0.30	<0.30	<0.26	<0.13	NA	NA	NA	NA	NA
Basement	6351-IA-B-1	9/29/2016	6.85	<1.07	<3.96	<3.96	<0.64	NA	NA	NA	NA	NA
		11/28/2017	<3.19	<1.07	<19.8	<39.6	<1.28	9.34	<4.92	18.2	<0.83	63.8
		1/29/2018	<3.19	<1.07	<19.8	<39.6	<1.28	NA	NA	NA	NA	NA
Basement	6351-IA-B-2	9/29/2016	24.8	<1.07	<3.96	<3.96	<0.64	NA	NA	NA	NA	NA
		11/28/2017	135	7.15	<19.8	<39.6	<1.28	6.44	<4.92	3.45	<0.83	<43.4
		1/29/2018	77.1	3.39	<19.8	<39.6	<1.28	NA	NA	NA	NA	NA
		6/21/2018	9.97	<1.07	<19.8	<39.6	<1.28	NA	NA	NA	NA	NA
		9/25/2018	276	11.7	<19.8	<39.6	<1.28	NA	NA	NA	NA	NA
		6/7/2022	219	19.6	7.4	<0.26	<0.13	NA	NA	NA	NA	NA
Basement	6351-IA-B-3	9/29/2016	10.6	<1.07	<3.96	<3.96	<0.64	NA	NA	NA	NA	NA
1st Floor	6351-IA-1	11/28/2017	58.7	<1.07	<19.8	<39.6	<1.28	<4.92	<4.92	<1.60	1.22	<43.4
		1/29/2018	33.2	1.40	<19.8	<39.6	<1.28	NA	NA	NA	NA	NA
SUB-SLAB VAPOR												
Vapor Risk Screening Level ¹			5,800	290	NE	5800	930	8,800	8,800	520	180	15,000
Basement	6351-SSV-1	11/28/2017	11.7	<1.07	<19.8	<39.6	<1.28	<4.92	<4.92	<1.60	<0.83	<43.4
		1/29/2018	5.36	<1.07	<19.8	<39.6	<1.28	NA	NA	NA	NA	NA
		6/7/2022	438	2.8	<0.36	<0.31	<0.15	NA	NA	NA	NA	NA
Basement	6351-SSV-2	11/28/2017	8,930	3.44	<19.8	<39.6	<1.28	11.9	13.6	<1.60	<0.83	<43.4
		1/29/2018	621	2.96	<19.8	<39.6	<1.28	NA	NA	NA	NA	NA
		6/21/2018	1,340	4.46	<19.8	<39.6	<1.28	NA	NA	NA	NA	NA
		9/25/2018	905	3.71	<19.8	<39.6	<1.28	NA	NA	NA	NA	NA
		6/7/2022	614	7.4	0.55 J	<0.33	<0.17	NA	NA	NA	NA	NA
Basement	6351-SSV-3	11/28/2017	133	9.51	<19.8	<39.6	<1.28	4.96	<4.92	2.24	<0.83	<43.4
		1/29/2018	159	4.73	<19.8	<39.6	<1.28	NA	NA	NA	NA	NA
		6/7/2022	578	8.2	1.5 J	<0.33	<0.17	NA	NA	NA	NA	NA

Notes:

¹ Vapor Action Levels and Vapor Risk Screening Levels are calculated in accordance with the procedures described in WDNR Publication RR-800

All concentrations reported in units in micrograms per cubic meter = µg/m³

Only detected compounds are listed

Bolded values are above method detection limits

Bolded and orange shaded values exceed the Vapor Action Level or Vapor Risk Screening Level for small commercial buildings

NE = Not Established

NA = Not Analyzed