

Table 4-1
Monitoring Well Depth-to-Groundwater Measurements

Well Location	Date	Top of Casing Elevation (ft.)	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	Groundwater Elevation (ft.)	Well Head Screening (ppm)
MW-1S	8/4/2025	225.20	-	24.26	-	200.94	0.0
	8/5/2025		-	23.54	-	201.66	4.9
	8/6/2025		-	23.25	-	201.95	4.4
	8/7/2025		-	23.06	-	202.14	4.4
	8/8/2025		-	22.65	-	202.55	7.1
	8/11/2025		-	22.82	-	202.38	1.7
	8/12/2025		-	22.98	-	202.22	1.2
	8/13/2025		-	23.18	-	202.02	2.2
	8/13/2025		-	23.17	-	202.03	1.4
MW-1D	8/4/2025	225.55	-	27.84	-	197.71	0.0
	8/5/2025		-	27.38	-	198.17	0.0
	8/6/2025		-	27.15	-	198.40	0.0
	8/7/2025		-	26.94	-	198.61	0.0
	8/8/2025		-	27.07	-	198.48	0.2
	8/11/2025		-	27.55	-	198.00	0.0
	8/12/2025		-	27.97	-	197.58	0.0
	8/13/2025		-	27.93	-	197.62	0.0
	8/13/2025		-	27.87	-	197.68	0.0
MW-2S	8/4/2025	223.96	-	26.50	-	197.46	1.1
	8/5/2025		-	24.69	-	199.27	0.0
	8/6/2025		-	25.35	-	198.61	0.0
	8/7/2025		-	25.21	-	198.75	0.4
	8/8/2025		-	25.28	-	198.68	0.7
	8/11/2025		-	25.79	-	198.17	0.3
	8/12/2025		-	26.15	-	197.81	0.3
	8/13/2025		-	26.27	-	197.69	0.1
	8/13/2025		-	26.27	-	197.69	0.2
MW-2D	8/4/2025	224.31	-	28.30	-	196.01	0.0
	8/5/2025		-	27.54	-	196.77	0.0
	8/6/2025		-	27.50	-	196.81	0.0
	8/7/2025		-	27.03	-	197.28	0.0
	8/8/2025		-	27.27	-	197.04	0.3
	8/11/2025		-	27.40	-	196.91	0.1
	8/12/2025		-	27.85	-	196.46	0.0
	8/13/2025		-	28.04	-	196.27	0.0
	8/13/2025		-	27.93	-	196.38	0.0
MW-3S	8/4/2025	225.66	-	11.11	-	214.55	0.0
	8/5/2025		-	8.58	-	217.08	0.0
	8/6/2025		-	8.05	-	217.61	0.0
	8/7/2025		-	7.76	-	217.90	0.0
	8/8/2025		-	7.67	-	217.99	0.2
	8/11/2025		-	7.83	-	217.83	0.1
	8/12/2025		-	7.99	-	217.67	0.2
	8/13/2025		-	7.96	-	217.70	0.1
	8/13/2025		-	8.02	-	217.64	0.1

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Well Location	Date	Top of Casing Elevation (ft.)	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	Groundwater Elevation (ft.)	Well Head Screening (ppm)
MW-3D	8/4/2025	225.39	-	19.25	-	206.14	0.0
	8/5/2025		-	18.85	-	206.54	3.0
	8/6/2025		-	18.78	-	206.61	0.0
	8/7/2025		-	18.68	-	206.71	0.6
	8/8/2025		-	18.73	-	206.66	2.2
	8/11/2025		-	19.09	-	206.30	0.5
	8/12/2025		-	19.46	-	205.93	0.2
	8/13/2025		-	19.76	-	205.63	0.2
MW-4S	8/13/2025	196.67	-	19.75	-	205.64	0.3
	7/28/2025		-	17.20	-	179.47	0.0
	7/29/2025		-	19.13	-	177.54	0.5
	7/30/2025		-	19.66	-	177.01	0.7
	8/4/2025		-	20.23	-	176.44	3.5
	8/5/2025		-	20.17	-	176.50	0.6
	8/6/2025		-	21.16	-	175.51	0.0
	8/7/2025		-	21.32	-	175.35	1.9
	8/8/2025		-	20.92	-	175.75	2.0
	8/11/2025		-	21.86	-	174.81	0.0
	8/12/2025		-	22.30	-	174.37	0.3
	8/13/2025		-	22.67	-	174.00	0.4
MW-4D	8/13/2025	196.63	-	22.75	-	173.92	0.4
	7/28/2025		-	28.40	-	168.23	0.0
	7/29/2025		-	25.35	-	171.28	0.3
	7/29/2025		-	27.24	-	169.39	0.2
	8/4/2025		-	26.76	-	169.87	26.8
	8/5/2025		-	26.47	-	170.16	0.0
	8/6/2025		-	27.53	-	169.10	0.0
	8/7/2025		-	27.62	-	169.01	0.0
	8/8/2025		-	27.48	-	169.15	0.2
	8/11/2025		-	29.06	-	167.57	0.0
	8/12/2025		-	29.79	-	166.84	0.2
	8/13/2025		-	30.03	-	166.60	0.0
MW-5S	8/13/2025	213.69	-	29.93	-	166.70	0.0
	7/24/2025		-	3.55	-	210.14	-
	7/25/2025		-	3.47	-	210.22	-
	7/28/2025		-	3.71	-	209.98	0.0
	7/29/2025		-	3.82	-	209.87	0.2
	7/30/2025		-	3.95	-	209.74	0.1
	8/4/2025		-	3.91	-	209.78	0.2
	8/5/2025		-	3.98	-	209.71	0.0
	8/6/2025		-	4.11	-	209.58	0.0
	8/7/2025		-	4.10	-	209.59	0.0
	8/8/2025		-	4.15	-	209.54	0.1
	8/11/2025		-	4.33	-	209.36	0.0
	8/12/2025		-	4.59	-	209.10	0.1
	8/13/2025		-	4.24	-	209.45	0.0
	8/13/2025		-	4.58	-	209.11	0.0

Table 4-1
Monitoring Well Depth-to-Groundwater Measurements

Well Location	Date	Top of Casing Elevation (ft.)	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	Groundwater Elevation (ft.)	Well Head Screening (ppm)
MW-5D	7/23/2025	213.62	-	40.00	-	173.62	-
	7/23/2025		-	39.77	-	173.85	-
	7/25/2025		-	38.41	-	175.21	-
	7/28/2025		-	38.36	-	175.26	0.0
	7/29/2025		-	38.12	-	175.50	0.5
	7/30/2025		-	37.98	-	175.64	0.3
	8/4/2025		-	37.98	-	175.64	6.5
	8/5/2025		-	37.87	-	175.75	0.5
	8/6/2025		-	37.86	-	175.76	0.0
	8/7/2025		-	37.83	-	175.79	1.2
	8/8/2025		-	37.80	-	175.82	2.5
	8/11/2025		-	37.88	-	175.74	0.0
	8/12/2025		-	38.05	-	175.57	0.2
	8/13/2025		-	37.89	-	175.73	0.3
	8/13/2025		-	38.00	-	175.62	0.3
MW-6S	8/7/2025	215.18	-	20.68	-	194.50	4.0
	8/8/2025		-	21.28	-	193.90	83.6
	8/11/2025		-	22.06	-	193.12	45.1
	8/12/2025		-	22.49	-	192.69	12.8
	8/13/2025		-	22.66	-	192.52	23.1
	8/13/2025		-	22.64	-	192.54	18.1
MW-6D	8/6/2025	215.29	-	21.40	-	193.89	-
	8/7/2025		-	23.18	-	192.11	78.5
	8/8/2025		-	24.26	-	191.03	6.7
	8/11/2025		-	53.85	-	161.44	18.3
	8/12/2025		-	51.38	-	163.91	7.9
	8/13/2025		-	47.44	-	167.85	23.6
	8/13/2025		-	46.59	-	168.70	2.5
MW-7S	8/8/2025	205.67	-	29.53	-	176.14	0.0
	8/11/2025		-	33.72	-	171.95	-
	8/12/2025		-	30.64	-	175.03	0.4
	8/13/2025		-	30.85	-	174.82	0.6
	8/13/2025		-	30.88	-	174.79	0.0
MW-7D	8/8/2025	205.47	-	33.11	-	172.36	0.0
	8/11/2025		-	30.42	-	175.05	-
	8/12/2025		-	33.98	-	171.49	0.6
	8/13/2025		-	33.94	-	171.53	1.8
	8/13/2025		-	33.99	-	171.48	0.2
MW-8S	8/11/2025	224.25	-	8.80	-	215.45	-
	8/11/2025		-	22.14*	-	202.11	-
	8/12/2025		-	8.14	-	216.11	0.0
	8/13/2025		-	8.08	-	216.17	0.1
	8/13/2025		-	8.04	-	216.21	0.0
MW-8D	8/11/2025	224.17	-	69.95	-	154.22	-
	8/11/2025		-	69.92	-	154.25	-
	8/12/2025		-	67.69	-	156.48	0.6
	8/13/2025		-	65.77	-	158.40	0.0
	8/13/2025		-	65.51	-	158.66	0.3

Notes:

* Measurement collected right after development

ft. = feet

LNAPL = Light Non-Aqueous Phase Liquid

NA = Not Applicable

Well head screening is completed with a photoionization detector (PID).

Table 4-2
Soil Analytical Data Summary

Sampling Event	Sample ID	Approximate Depth (feet)	Sample Date	PID Reading (ppmv)	Benzene (µg/kg)	Toluene (µg/kg)	Ethylbenzene (µg/kg)	Total Xylenes (µg/kg)	MTBE (µg/kg)	Isopropyl benzene (µg/kg)	Naphthalene (µg/kg)	1,2,4-Trimethyl benzene (µg/kg)	1,3,5-Trimethyl benzene (µg/kg)	1,2-Dichloro-ethane (µg/kg)	1,2-Dibromo-ethane (µg/kg)	Lead (µg/kg)
PADEP Soil to Groundwater Numeric Values for Unsaturated Soils in a Residential, Used Aquifer Setting					500	100,000	70,000	1,000,000	2,000	600,000	25,000	73,000	23,000	500	5	450,000
PADEP Direct Contact Numeric Values for Soils in Residential Setting					57,000	10,000,000	180,000	1,900,000	1,700,000	7,600,000	13,000	1,100,000	1,100,000	17,000	740	500,000
Post-excavation sampling	PE-1	7	02/04/25	333.1	ND<640	15,000	19,000	160,000	ND<760	16,000	87,000	290,000	110,000	ND<760	ND<760	25,000
	PE-2	5	02/04/25	12.6	ND<0.98	ND<1.2	ND<1.2	7.6 J	ND<0.98	ND<1.8	ND<2.5	21	12	ND<0.74	ND<0.86	36,000
	PE-3	4	02/04/25	0.5	ND<34	ND<41	ND<27	ND<96	ND<41	ND<41	ND<140	ND<41	ND<34	ND<41	ND<41	40,000
	PE-4	7	02/04/25	115.4	ND<290	ND<340	ND<230	ND<800	ND<340	ND<340	ND<1,100	1,100 J	600 J	ND<340	ND<340	22,000
	PE-5	3.5	02/04/25	4.1	ND<31	ND<37	ND<25	ND<87	ND<37	ND<37	ND<120	ND<37	45 J	ND<37	ND<37	15,000
	PE-6	5	02/04/25	3.2	ND<34	ND<41	ND<27	ND<96	ND<41	ND<41	ND<140	ND<41	ND<34	ND<41	ND<41	24,000
	PE-7	7	02/04/25	273.2	ND<320	1,900 J	5,400	51,000	ND<390	5,500	5,400	120,000	53,000	ND<390	ND<390	28,000
	PE-8	3.5	02/04/25	12.2	ND<30	ND<36	ND<24	ND<83	ND<36	ND<36	ND<120	ND<36	ND<30	ND<36	ND<36	20,000
	PE-9	7	02/11/25	378.4	ND<320	ND<390	410 J	7,800	ND<390	ND<390	ND<1,300	4,700	2,400 J	ND<390	ND<390	19,000
	PE-10	7	02/11/25	281.5	ND<290	500 J	520 J	8,900	ND<350	ND<350	ND<1,200	5,700	3,100	ND<350	ND<350	20,000
	PE-11	7	02/11/25	617.1	ND<330	ND<390	390 J	11,000	ND<390	ND<390	ND<1,300	8,200	4,800	ND<390	ND<390	21,000
	PE-12	7	02/11/25	455.8	ND<310	ND<370	ND<250	4,600	ND<370	ND<370	ND<1,200	3,200	1,600 J	ND<370	ND<370	19,000
	PE-13	7	02/11/25	308.0	ND<340	ND<410	ND<270	ND<960	ND<410	ND<410	ND<1,400	1,500 J	780 J	ND<410	ND<410	21,000
	PE-14	7	02/11/25	778.0	ND<340	1,300 J	750 J	14,000	ND<410	ND<410	ND<1,400	7,400	6,200	ND<410	ND<410	24,000
	PE-15	7	02/11/25	190.1	ND<350	ND<420	ND<280	ND<980	ND<420	ND<420	ND<1,400	2,300 J	1,100 J	ND<420	ND<420	20,000
	PE-16	7	02/11/25	217.8	ND<340	ND<410	ND<270	3,000 J	ND<410	ND<410	ND<1,400	3,700	2,400 J	ND<410	ND<410	20,000
Recovery Well Installation	RW-1	1-2	03/18/25	0.0	ND<0.19	ND<0.61	ND<0.16	ND<0.33	ND<0.23	ND<0.12	ND<0.73	ND<0.38	ND<0.22	ND<0.29	ND<0.33	ND<60
	RW-1	4-5	03/18/25	0.0	ND<0.20	ND<0.64	ND<0.17	ND<0.34	ND<0.24	ND<0.13	ND<0.77	ND<0.40	ND<0.23	ND<0.30	ND<0.35	14,000
	RW-1	10-11	03/19/25	0.0	0.25 J	ND<0.53	ND<0.14	ND<0.28	ND<0.20	ND<0.10	ND<0.63	ND<0.32	ND<0.19	ND<0.25	ND<0.28	14,000
	RW-2	7-8	05/20/25	414	ND<0.26	ND<0.84	ND<0.22	ND<0.45	ND<0.31	ND<0.17	ND<1.0	ND<0.52	ND<0.30	ND<0.40	ND<0.45	21,000
	RW-3	2-3	05/19/25	0.0	ND<0.18	ND<0.57	0.29 J	2.7 J	ND<0.21	0.68 J	68	43	16	ND<0.27	ND<0.31	29,000
	RW-4	4-5	05/19/25	0.0	ND<0.21	ND<0.68	ND<0.18	ND<0.37	ND<0.25	ND<0.14	ND<0.82	ND<0.40	ND<0.24	ND<0.32	ND<0.37	12,000

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Soil Analytical Data Summary

Sampling Event	Sample ID	Approximate Depth (feet)	Sample Date	PID Reading (ppmv)	Benzene (µg/kg)	Toluene (µg/kg)	Ethylbenzene (µg/kg)	Total Xylenes (µg/kg)	MTBE (µg/kg)	Isopropyl benzene (µg/kg)	Naphthalene (µg/kg)	1,2,4-Trimethyl benzene (µg/kg)	1,3,5-Trimethyl benzene (µg/kg)	1,2-Dichloro-ethane (µg/kg)	1,2-Dibromo-ethane (µg/kg)	Lead (µg/kg)
PADEP Soil to Groundwater Numeric Values for Unsaturated Soils in a Residential, Used Aquifer Setting					500	100,000	70,000	1,000,000	2,000	600,000	25,000	73,000	23,000	500	5	450,000
PADEP Direct Contact Numeric Values for Soils in Residential Setting					57,000	10,000,000	180,000	1,900,000	1,700,000	7,600,000	13,000	1,100,000	1,100,000	17,000	740	500,000
Soil Characterization (around excavated area)	SS-1	7-8	06/17/25	0.0	ND<0.18	ND<0.58	ND<0.15	ND<0.31	ND<0.21	ND<0.12	ND<0.69	ND<0.35	ND<0.20	ND<0.27	ND<0.31	12,000
	SS-2	5-6	06/17/25	32.7	ND<0.20	ND<0.66	ND<0.17	ND<0.35	ND<0.24	ND<0.13	ND<0.79	ND<0.41	ND<0.24	ND<0.31	ND<0.36	22,000
	SS-3	5-6	06/17/25	2.0	ND<0.23	ND<0.74	0.25 J	17	ND<0.28	1.1 J	16	50	41	ND<0.35	ND<0.40	43,000
	SS-4	4-5	06/17/25	29.8	ND<0.18	ND<0.59	ND<0.15	ND<0.32	ND<0.22	ND<0.12	1.2 J	0.41 J	1.4 J	ND<0.28	ND<0.32	15,000
	SS-5	7-7.5	06/17/25	323.2	ND<0.18	8.4	3.9	300	ND<0.22	2.4	7.3	180	240	ND<0.28	ND<0.32	8,700
	SS-6	6-6.5	06/17/25	85.7	ND<0.19	1.2	2.2	150	ND<0.23	12	170	6,600	2,600	ND<0.29	ND<0.33	26,000
	SS-7	7-8	06/17/25	109.7	ND<0.17	ND<0.56	0.49 J	33	ND<0.21	3.8	12	140	98	ND<0.26	ND<0.30	21,000
	SS-8	7-8	06/17/25	0.0	ND<0.19	ND<0.62	ND<0.16	ND<0.33	ND<0.23	ND<0.12	ND<0.74	0.78 J	1.2 J	ND<0.29	ND<0.33	18,000
	SS-9	5-6	06/17/25	0.0	ND<0.20	ND<0.67	ND<0.17	ND<0.36	ND<0.25	ND<0.14	ND<0.81	ND<0.41	ND<0.24	ND<0.32	ND<0.36	19,000
	SS-10	7-8	06/17/25	349.2	ND<11	ND<35	ND<9.1	280	ND<13	15 J	200 J	1,200	960	ND<16	ND<19	20,000
	SS-11	3-4	06/17/25	0.0	ND<0.19	ND<0.62	ND<0.16	ND<0.34	ND<0.23	ND<0.12	ND<0.75	ND<0.38	ND<0.22	ND<0.30	ND<0.34	22,000
	SS-12	6-7	06/17/25	0.9	ND<17	ND<55	ND<14	37 J	ND<20	25 J	2,300	5,500	2,100	ND<26	ND<30	12,000
	SS-13	7-8	06/17/25	38.4	ND<0.17	ND<0.56	ND<0.14	ND<0.30	ND<0.21	ND<0.11	ND<0.67	1.2 J	1.5 J	ND<0.26	ND<0.30	22,000
	SS-14	7-8	06/17/25	33.1	ND<10	ND<33	28 J	650	ND<12	130	420	3,700	2,600	ND<16	ND<18	21,000

Notes:
PADEP: Pennsylvania Department of Environmental Protection
PADEP Soil to Groundwater Numeric Values are found in Appendix A of the Administration of Land Recycling Program regulations (Title 25, Chapter 250)
PADEP Direct Contact Numeric Values are found in Appendix A of the Administration of Land Recycling Program regulations (Title 25, Chapter 250)
The applicable Statewide health standard (SHS) medium-specific concentration (MSC) is the lower of the Soil to Groundwater Numeric Value and the Direct Contact Numeric Value
PID: Photoionization detector
ppmv: parts per million by volume
MTBE: Methyl *tert*-butyl ether
µg/kg: Micrograms per kilogram
ND: Not detected (# is method detection limit)
J: Laboratory estimated value between the reporting limit and method detection limit
Bold: Reported concentration or laboratory reporting limit exceeds applicable SHS MSC for unsaturated soil in a residential, used aquifer setting

Table 4-3
Recovery and Monitoring Well Analytical Results Summary

Well ID / Location	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Ground-water Elevation (feet)	Product Adj. Groundwater Elevation (feet)	Sample Depth	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Isopropyl Benzene (µg/L)	Naphthalene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)	1,2-Dichloroethane (EDC) (µg/L)	1,2-Dibromoethane (EDB) (µg/L)	Lead (µg/L)	
DEP MSCs for a Residential, Used Aquifer									fbtoc	5	1,000	700	10,000	20	840	100	130	130	5	0.05	5
RW-1	03/24/2025	208.27	42.67	-	-	165.60	-	-	2.0	0.35 J	0.70	14	ND<0.13	0.67	2.1	12	13	ND<0.15	ND<0.005	ND<0.3	
	05/01/2025	208.27	32.11	-	-	176.16	-	-	0.52	ND<0.19	ND<0.13	1.7	ND<0.13	0.51	3.2	4.0	2.3	ND<0.15	ND<0.005	ND<0.3	
	06/17/2025	208.27	24.86	-	-	183.41	-	-	1.6	ND<0.20	0.30 J	3.1 J	ND<0.17	1.1	14	21	8.2	ND<0.13	ND<0.005	ND<0.34	
	08/11/2025	208.27	31.34	-	-	176.93	-	-	3.0	ND<0.20	0.42 J	1.6	ND<0.17	1.3	15	22	6.6	ND<0.13	ND<0.005	ND<0.34	
RW-2	06/05/2025	221.25	20.45	-	-	200.80	-	-	No sample collected - LNAPL observed in bailer post-purge of 3-well volumes												
	06/24/2025	221.25	-	-	-	-	-	48-63	290	500	220	1,400	ND<1.7	42	460	1,100	350	ND<1.3	ND<0.005	ND<0.34	
	07/30/2025	221.25	27.92	-	-	193.33	-	-	42	78	39	310	ND<0.33	8.6	200	390	130	ND<0.26	ND<0.005	ND<0.34	
RW-3	06/05/2025	222.38	21.34	21.21	0.13	201.04	201.142	-	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	06/25/2025	222.38	-	-	-	-	-	30-48	100	200	43	720	ND<0.66	16	120	540	210	ND<0.53	ND<0.005	ND<0.34	
	06/24/2025	222.38	-	-	-	-	-	47-65	100	200	56	830	ND<0.66	15	130	530	230	ND<0.53	ND<0.005	ND<0.34	
	07/30/2025	222.38	28.47	-	-	193.91	-	-	140	260	39	780	ND<0.42	7.8	150	400	190	ND<0.33	ND<0.005	ND<0.34	
RW-4	06/05/2025	223.34	13.51	-	-	209.83	-	-	0.73	0.20	0.99	14	ND<0.17	0.60	2.3	16	13	ND<0.13	ND<0.19	ND<0.34	
	07/30/2025	223.34	17.75	-	-	205.59	-	-	4.6	ND<0.20	ND<0.17	5.9 J	ND<0.17	0.49 J	8.4	3.1	1.5 J	ND<0.13	ND<0.005	ND<0.34	
MW-1S	08/18/2025	225.20	23.51	-	-	201.69	-	-	ND<0.16	ND<0.20	ND<0.17	ND<0.33	ND<0.17	ND<0.19	ND<0.22	ND<0.19	ND<0.22	ND<0.13	ND<0.005	ND<0.34	
MW-1D	08/18/2025	225.55	29.59	-	-	195.96	-	-	ND<0.16	ND<0.20	ND<0.17	ND<0.33	ND<0.17	ND<0.19	0.27 J	0.75 J	0.44 J	ND<0.13	ND<0.005	ND<0.34	
MW-2S	08/18/2025	223.96	26.75	-	-	197.21	-	-	ND<0.16	ND<0.20	ND<0.17	ND<0.33	ND<0.17	ND<0.19	ND<0.22	ND<0.19	ND<0.22	ND<0.13	ND<0.005	ND<0.34	
MW-2D	08/18/2025	224.31	28.74	-	-	195.57	-	-	ND<0.16	ND<0.20	ND<0.17	ND<0.33	ND<0.17	ND<0.19	ND<0.22	ND<0.19	ND<0.22	ND<0.13	ND<0.005	ND<0.34	
MW-3S	08/18/2025	225.66	8.21	-	-	217.45	-	-	ND<0.16	ND<0.20	ND<0.17	ND<0.33	ND<0.17	ND<0.19	ND<0.22	ND<0.19	ND<0.22	ND<0.13	ND<0.005	ND<0.34	
MW-3D	08/18/2025	225.39	20.21	-	-	205.18	-	-	ND<0.16	0.32 J	ND<0.17	ND<0.33	ND<0.17	ND<0.19	ND<0.22	ND<0.19	ND<0.22	ND<0.13	ND<0.005	ND<0.34	

Table 4-3
Recovery and Monitoring Well Analytical Results Summary

Well ID / Location	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Ground-water Elevation (feet)	Product Adj. Groundw ater Elevation (feet)	Sample Depth	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Isopropyl Benzene (µg/L)	Naphthalene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)	1,2-Dichloroethane (EDC) (µg/L)	1,2-Dibromoethane (EDB) (µg/L)	Lead (µg/L)
DEP MSCs for a Residential, Used Aquifer								fbtoc	5	1,000	700	10,000	20	840	100	130	130	5	0.05	5
MW-4S	08/11/2025	196.67	21.86	-	-	174.81	-	-	ND<0.16	ND<0.20	ND<0.17	ND<0.33	ND<0.17	ND<0.19	ND<0.22	ND<0.19	ND<0.22	ND<0.13	ND<0.005	ND<0.34
MW-4D	08/11/2025	196.63	29.06	-	-	167.57	-	-	ND<0.16	ND<0.20	ND<0.17	ND<0.33	ND<0.17	ND<0.19	ND<0.22	ND<0.19	ND<0.22	ND<0.13	ND<0.005	ND<0.34
MW-5S	08/11/2025	213.69	4.33	-	-	209.36	-	-	ND<0.16	ND<0.20	ND<0.17	ND<0.33	ND<0.17	ND<0.19	ND<0.22	ND<0.19	ND<0.22	ND<0.13	ND<0.005	ND<0.34
MW-5D	08/11/2025	213.62	37.88	-	-	175.74	-	-	ND<0.16	ND<0.20	ND<0.17	ND<0.33	ND<0.17	ND<0.19	ND<0.22	ND<0.19	ND<0.22	ND<0.13	ND<0.005	ND<0.34
MW-6S	08/25/2025	215.18	23.70	-	-	191.48	-	-	0.84	ND<0.20	1.2	1.1 J	0.25 J	11	9.2	7.9	0.50 J	ND<0.13	ND<0.005	ND<0.34
MW-6D	08/25/2025	215.29	29.05	-	-	186.24	-	-	ND<0.64	ND<0.81	ND<0.67	ND<1.3	ND<0.66	1.9 J	4.5	ND<0.76	ND<0.87	ND<0.53	ND<0.005	ND<0.34
MW-7S	08/25/2025	205.67	33.27	-	-	172.40	-	-	ND<0.16	ND<0.20	ND<0.17	ND<0.33	ND<0.17	ND<0.19	ND<0.22	ND<0.19	ND<0.22	ND<0.13	ND<0.005	ND<0.34
MW-7D	08/25/2025	205.47	35.82	-	-	169.65	-	-	ND<0.16	ND<0.20	ND<0.17	ND<0.33	ND<0.17	ND<0.19	ND<0.22	ND<0.19	ND<0.22	ND<0.13	ND<0.005	ND<0.34
MW-8S	08/25/2025	224.25	8.38	-	-	215.87	-	-	ND<0.16	ND<0.20	ND<0.17	ND<0.33	ND<0.17	ND<0.19	ND<0.22	ND<0.19	ND<0.22	ND<0.13	ND<0.005	ND<0.34
MW-8D	08/25/2025	224.17	42.65	-	-	181.52	-	-	ND<0.16	ND<0.20	ND<0.17	ND<0.33	ND<0.17	ND<0.19	ND<0.22	ND<0.19	ND<0.22	ND<0.13	ND<0.005	ND<0.34

Notes:
Product Adjusted Groundwater Elevation was calculated with the specific gravity midpoint of Jet A fuel (0.80)
- = Not calculated/not measured
fbtoc = feet below top of casing
DEP = Pennsylvania Department of Environmental Protection
MSCs = Medium-Specific Concentrations per 25 Pa. Code Chapter 250
µg/L = Micrograms/Liter
ND<# = Not Detected (# is method detection limit)
LNAPL = Light Non-Aqueous Phase Liquid
MTBE = Methyl tert-Butyl Ether
NS = Not Sampled

Table 4-4

Summary of Indoor Air Sampling Results

Note: These results are preliminary and have not yet undergone data validation.

Analyte	1/10 PA DEP Residential SV _{IA} (µg/m ³)	Number of Indoor Samples	Number of Indoor Detections	Range of Indoor Detections (µg/m ³)	Number Detected Above 1/10 Residential SV _{IA}	Number of Outdoor Samples	Number of Outdoor Detections	Range of Outdoor Detections (µg/m ³)
Benzene	0.31	24	24	0.348 – 9.20	24	12	12	0.399 – 1.53
Toluene	520	24	24	1.11 (J) – 31.9	0	12	12	0.689 (J) – 26.7
Ethylbenzene	0.97	24	19	0.38 (J) – 11.2	7	12	1	1.74
m&p-Xylene	10*	24	18	1.14 (J) – 25.4	2	12	2	0.941 (J) – 4.08
o-Xylene		24	18	0.46 (J) – 10.7		12	2	0.46 (J) – 2.01
Isopropylbenzene	42	24	8	0.404 (J) – 2.07	0	12	1	0.424 (J)
Methyl tert-butyl ether	9.4	24	0	< 1.10 ⁺	0	12	0	< 0.293
Naphthalene	0.072	24	19	0.133 (J) – 0.486	19	12	1	0.181
1,2,4-Trimethylbenzene	6.3	24	19	0.506 (J) – 8.00	1	12	1	0.736 (J)
1,3,5-Trimethylbenzene	6.3	24	9	0.496 (J) – 2.66	0	12	0	< 0.419
1,2-Dichloroethane	0.094	24	23	0.0705 (J) – 1.13	20	12	12	0.0595 (J) – 0.138
1,2-Dibromoethane	0.0041	24	0	< 0.360 [^]	0	12	0	< 0.0961
Hexane	73	24	19	0.620 (J) – 26.5	0	12	4	0.582 (J) – 1.7
Cyclohexane	630	24	7	0.802 – 29.6	0	12	1	2.74

µg/m³ = micrograms per cubic meter. Laboratory non-detections are reported as less than (<) the laboratory method detection limit. Laboratory result qualifiers are reported to the right of corresponding detections (in parentheses). Definitions of reported qualifiers are as follows. J: Result is estimated between the laboratory method detection limit and reporting limit.

* The PA DEP Residential SV_{IA} is established for total xylenes. The concentration of total xylenes will be calculated by adding the concentrations of m&p-xylene and o-xylene.

+ One of the 24 samples was diluted by the laboratory due to sample volume, yielding an MDL of 1.10 µg/m³. The MDL for the remaining samples was 0.293 µg/m³.

^ One of the 24 samples was diluted by the laboratory due to sample volume, yielding an MDL of 0.360 µg/m³. The MDL for the remaining samples was 0.0961 µg/m³.

Table 4-5

Summary of Sub-Slab Soil Gas Sampling Results (Phase 1)

Note: These results are preliminary and have not yet undergone data validation.

Analyte	1/10 PA DEP Residential SV _{SS} (µg/m ³)	Phase 1, Round 1				Phase 1, Round 2			
		Number of Sub-Slab Soil Gas Samples	Number of Sub-Slab Soil Gas Detections	Range of Sub-Slab Soil Gas Detections (µg/m ³)	Number Detected Above 1/10 Residential SV _{SS}	Number of Sub-Slab Soil Gas Samples	Number of Sub-Slab Soil Gas Detections	Range of Sub-Slab Soil Gas Detections (µg/m ³)	Number Detected Above 1/10 Residential SV _{SS}
Benzene	12	15	15	0.141 (J) – 2.72	0	13	11	0.246 (J) – 0.559	0
Toluene	20,000	15	15	0.667 (J) – 31.0	0	13	6	0.339 (J) – 2.57	0
Ethylbenzene	37	15	14	0.256 (J) – 18.5	0	13	4	0.287 (J) – 0.682 (J)	0
Total xylenes	400*	15	15	0.912 (J) – 63.0	0	13	6	0.339 (J) – 5.04	0
Isopropylbenzene	1,600	15	3	0.315 (J) – 2.40 (J)	0	13	1	0.310 (J)	0
Methyl tert-butyl ether	360	15	0	< 0.162 ⁺	0	13	0	< 0.162	0
Naphthalene	2.8	15	14	0.110 (J) – 2.32	0	13	8	0.110 (J) – 1.64	0
1,2,4-Trimethylbenzene	240	15	15	0.408 (J) – 16.6	0	13	5	0.290 (J) – 1.96	0
1,3,5-Trimethylbenzene	240	15	13	0.310 (J) – 4.03	0	13	3	0.295 (J) – 15.6	0
1,2-Dichloroethane	3.6	15	15	0.105 – 745	12	13	9	0.045 (J) – 1.23	0
1,2-Dibromoethane	0.16	15	0	< 0.070 ⁺	0	13	2	0.415 – 0.553	2
Hexane	2,800	15	15	1.04 – 19.5	0	13	13	0.455 (J) – 2.71	0
Cyclohexane	24,000	15	15	0.513 (J) – 22.1	0	13	5	0.299 (J) – 23.8	0

µg/m³ = micrograms per cubic meter. Laboratory non-detections are reported as less than (<) the laboratory method detection limit (MDL). Laboratory result qualifiers are reported to the right of corresponding detections (in parentheses). Definitions of reported qualifiers are as follows. J: Result is estimated between the laboratory MDL and reporting limit (RL).

* The PA DEP Residential SV_{SS} is established for total xylenes. The concentration of total xylenes was reported by the laboratory (the concentrations of m&p-xylene and o-xylene were also reported).

+ Two sub-slab soil gas samples were diluted by the laboratory, which yielded a higher MDL. The MDL for methyl tert-butyl ether was 0.162 µg/m³, except for the two diluted samples, which had MDLs of 0.541 and 0.678 µg/m³. The MDL for 1,2-dibromoethane was 0.070 µg/m³, except for the two diluted samples, which had MDLs of 0.233 and 0.291 µg/m³.

Table 4-6**Summary of Sub-Slab Soil Gas Sampling Results (Phase 2)**

Note: These results are preliminary and have not yet undergone data validation.

Analyte	1/10 PA DEP Residential SV _{SS} (µg/m ³)	Phase 2, Round 1			
		Number of Sub-Slab Soil Gas Samples	Number of Sub-Slab Soil Gas Detections	Range of Sub-Slab Soil Gas Detections (µg/m ³)	Number Detected Above 1/10 Residential SV _{SS}
Benzene	12	23	17	0.105 (J) – 0.952	0
Toluene	20,000	23	18	0.377 (J) – 10.0	0
Ethylbenzene	37	23	5	0.339 (J) – 1.08	0
Total xylenes	400*	23	12	0.278 (J) – 6.52	0
Isopropylbenzene	1,600	23	0	< 0.305	0
Methyl tert-butyl ether	360	23	0	< 0.162	0
Naphthalene	2.8	23	14	0.126 (J) – 0.634 (J)	0
1,2,4-Trimethylbenzene	240	23	17	0.285 (J) – 3.29	0
1,3,5-Trimethylbenzene	240	23	3	0.310 (J) – 1.08	0
1,2-Dichloroethane	3.6	23	11	0.045 (J) – 0.502	0
1,2-Dibromoethane	0.16	23	1	0.169	1
Hexane	2,800	23	23	0.374 (J) – 6.31	0
Cyclohexane	24,000	23	8	0.262 (J) – 1.15	0

µg/m³ = micrograms per cubic meter. Laboratory non-detections are reported as less than (<) the laboratory method detection limit (MDL). Laboratory result qualifiers are reported to the right of corresponding detections (in parentheses). Definitions of reported qualifiers are as follows. J: Result is estimated between the laboratory MDL and reporting limit (RL).

* The PA DEP Residential SV_{SS} is established for total xylenes. The concentration of total xylenes was reported by the laboratory (the concentrations of m&p-xylene and o-xylene were also reported).

Table 4-7**Summary of Outdoor Air Sampling Results (Sub-Slab Soil Gas Sampling)**

Note: These results are preliminary and have not yet undergone data validation.

Analyte	Phase 1, Round 1			Phase 1, Round 2			Phase 2, Round 1		
	Number of Outdoor Air Samples	Number of Outdoor Air Detections	Range of Outdoor Air Detections (µg/m³)	Number of Outdoor Air Samples	Number of Outdoor Air Detections	Range of Outdoor Air Detections (µg/m³)	Number of Outdoor Air Samples	Number of Outdoor Air Detections	Range of Outdoor Air Detections (µg/m³)
Benzene	3	3	0.268 (J) – 0.604	3	3	0.230 (J) – 0.323	4	4	0.179 (J) – 0.329
Toluene	3	3	0.482 (J) – 0.659 (J)	3	0	< 0.327	4	3	0.343 (J) – 0.539 (J)
Ethylbenzene	3	0	< 0.250	3	0	< 0.250	4	0	< 0.250
Total xylenes	3	0	< 0.270	3	0	< 0.270	4	0	< 0.270
Isopropylbenzene	3	0	< 0.305	3	0	< 0.305	4	0	< 0.305
Methyl tert-butyl ether	3	0	< 0.162	3	0	< 0.162	4	0	< 0.162
Naphthalene	3	1	0.115 (J)	3	1	0.147 (J)	4	1	0.136 (J)
1,2,4-Trimethylbenzene	3	0	< 0.284	3	0	< 0.284	4	0	< 0.284
1,3,5-Trimethylbenzene	3	0	< 0.295	3	0	< 0.295	4	0	< 0.295
1,2-Dichloroethane	3	3	0.053 (J) – 0.065 (J)	3	3	0.057 (J) – 0.065 (J)	4	3	0.053 (J) – 0.065 (J)
1,2-Dibromoethane	3	0	< 0.070	3	0	< 0.070	4	0	< 0.070
Hexane	3	3	0.888 – 2.44	3	3	0.479 (J) – 0.613 (J)	4	4	0.557 (J) – 0.648 (J)
Cyclohexane	3	3	0.547 (J) – 0.768	3	0	< 0.251	4	0	< 0.251

µg/m³ = micrograms per cubic meter. Laboratory non-detections are reported as less than (<) the laboratory method detection limit (MDL). Laboratory result qualifiers are reported to the right of corresponding detections (in parentheses). Definitions of reported qualifiers are as follows. J: Result is estimated between the laboratory MDL and reporting limit (RL).