

Memorandum

TO: City of Auburn Hills Brownfield Redevelopment Authority

FROM: Brian Westhoff, Senior Project Manager - Group Leader, AKT Peerless

DATE: June 7th, 2023

SUBJECT: Galloway Creek in Auburn Hills Michigan – 2nd Quarter 2023 Results

Galloway Creek Sampling

The City of Auburn Hills retained AKT Peerless to coordinate and conduct sampling of Galloway Creek from four locations within the city limits. One surface water and one sediment sample were collected from each location (refer to attached Figure).

Sample Locations

- Location A: One surface water and one sediment sample were taken from Galloway Creek north of 4470 Castlewood Drive.
- Location B: One surface water and one sediment sample were taken from Galloway Creek along Hole #12 at the Fieldstone Golf Club.
- Location C: One surface water and one sediment sample were taken from Galloway Creek west of 1361 N Opdyke Road.
- Location D: One surface water and one sediment sample were taken from Galloway Creek west of 1400 N Squirrel Road.

Analytical Results

On May 25th, 2023, four surface water and four sediment samples were collected and submitted to Quantum Laboratories, Inc. for analysis of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), herbicides, pesticides, Michigan 10 Metals, and hexavalent chromium.

Sediment Results:

- Chromium (total) detected at locations A, B, and C was in the trivalent chromium form. Hexavalent chromium was not detected in any of the sediment samples at concentrations exceeding Residential Cleanup Criteria. Therefore, the Chromium (total) is not a concern.
- Arsenic, Barium, Copper, Lead, and Zinc were above method detection limits but below Residential Cleanup Criteria from each of the four sediment samples.
- Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene and Pyrene were above method detection limits, but below Residential Cleanup Criteria at Location C.
- The four sediment samples were below method detection limits for the remaining VOCs, SVOCs, PCBs, herbicides, pesticides, and Michigan 10 Metals.

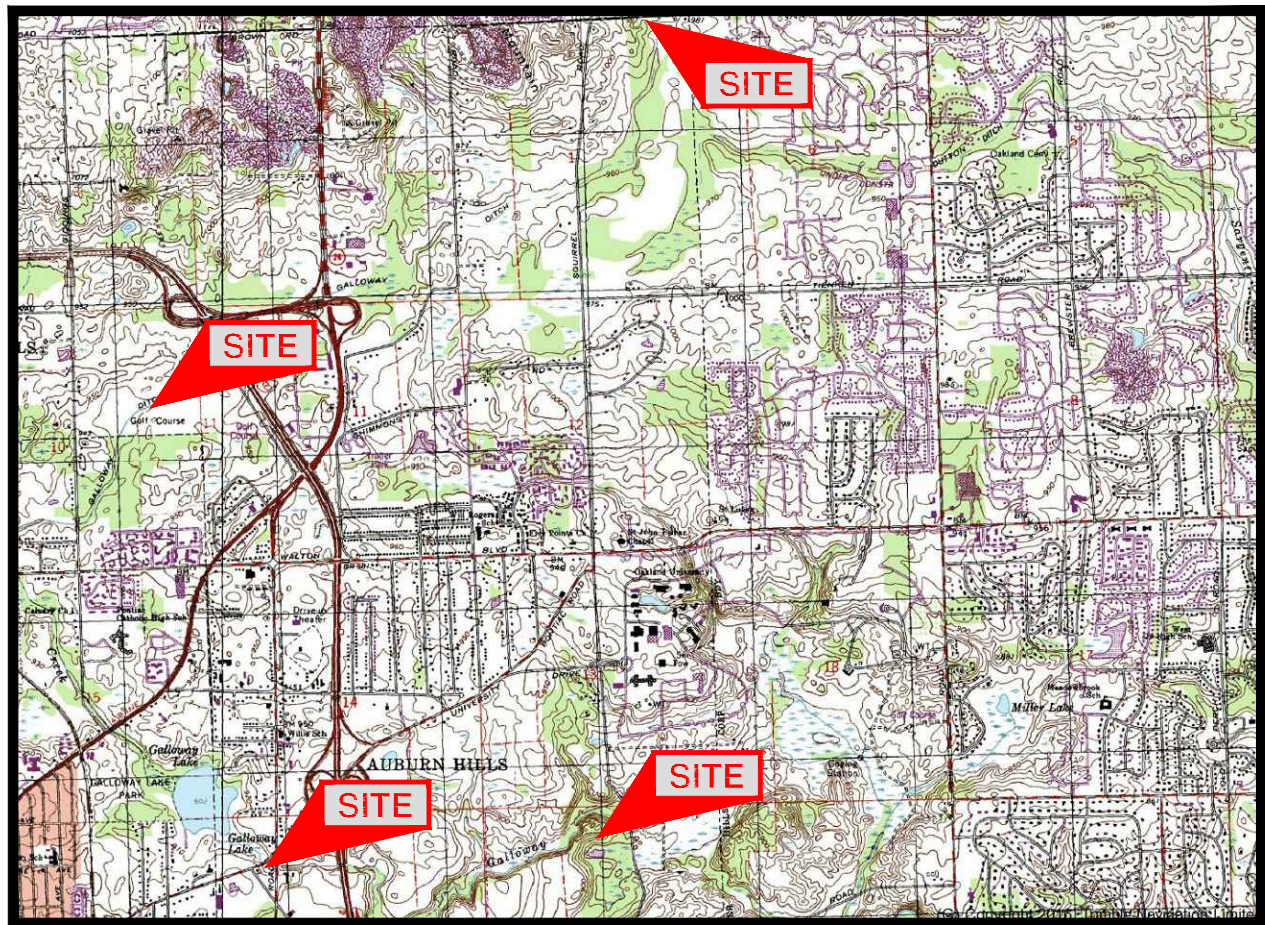
Surface Water Results:

- Barium was above method detection limits but below Residential Cleanup Criteria at all four surface water locations.
- Cadmium was above method detection limits but below Residential Cleanup Criteria at Location C.
- Copper was above method detection limits but below Residential Cleanup Criteria at Location B and D.
- Lead was above Residential Cleanup Criteria for drinking water criteria at Location D.
- Surface water samples were below method detection limits for the remaining VOCs, SVOCs, PCBs, herbicides, pesticides, Michigan 10 Metals, and hexavalent chromium.

Next Actions:

- Future sampling will be on a quarterly basis for 2023.

ROCHESTER QUADRANGLE
MICHIGAN - OAKLAND COUNTY
7.5 MINUTE SERIES (TOPOGRAPHIC)



T.3 N.-R.10 E.

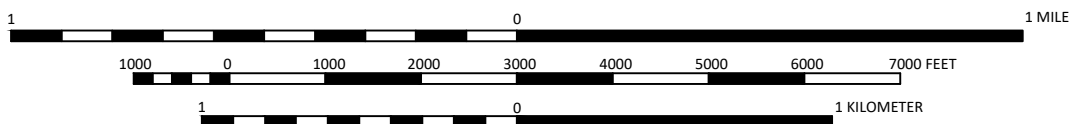


IMAGE TAKEN FROM 1997 U.S.G.S. TOPOGRAPHIC MAP

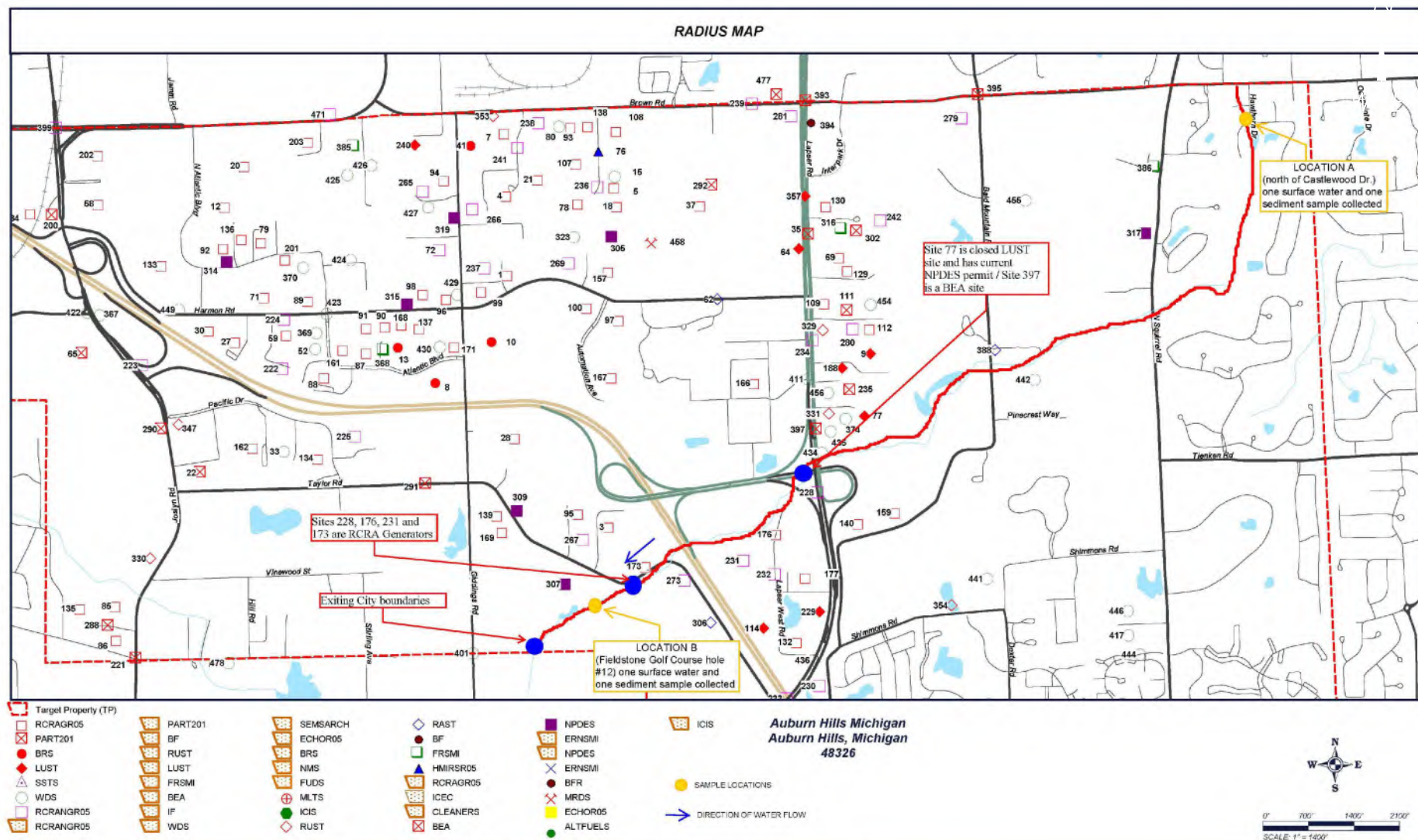
MICHIGAN
QUADRANGLE LOCATION



TOPOGRAPHIC LOCATION MAP
4470 CASTLEWOOD DRIVE, FIELDSTONE GOLF COURSE
HOLE #12, NEAR 1592 NORTH OPDYKE ROAD, AND NEAR
1400 NORTH SQUIRREL ROAD
AUBURN HILLS, MICHIGAN
PROJECT NUMBER: 13038F-4-20

DRAWN BY: SES
DATE: 04/05/2023

FIGURE 1



GeoSearch www.geo-search.com - phone: 866-396-0042 - fax: 512-472-9967

JOB #: 193674 - 8/9/2017

SAMPLE LOCATION MAP

NE CORNER OF LAPEER ROAD AND I-75 INTERCHANGE
AUBURN HILLS, MICHIGAN
PROJECT NUMBER: 13038F-4-20

DRAWN BY: MST
DATE: 06/08/2023

SCALE AS SHOWN

FIGURE 2



SAMPLE LOCATION MAP A

4470 CASTLEWOOD DRIVE
AUBURN HILLS, MICHIGAN
PROJECT NUMBER: 13038F-4-20

DRAWN BY: SES
DATE: 04/05/2023

0 15 30
SCALE: 1" = 30'

FIGURE 4



LEGEND

● = ONE SEDIMENT AND ONE SURFACE WATER SAMPLE COLLECTED



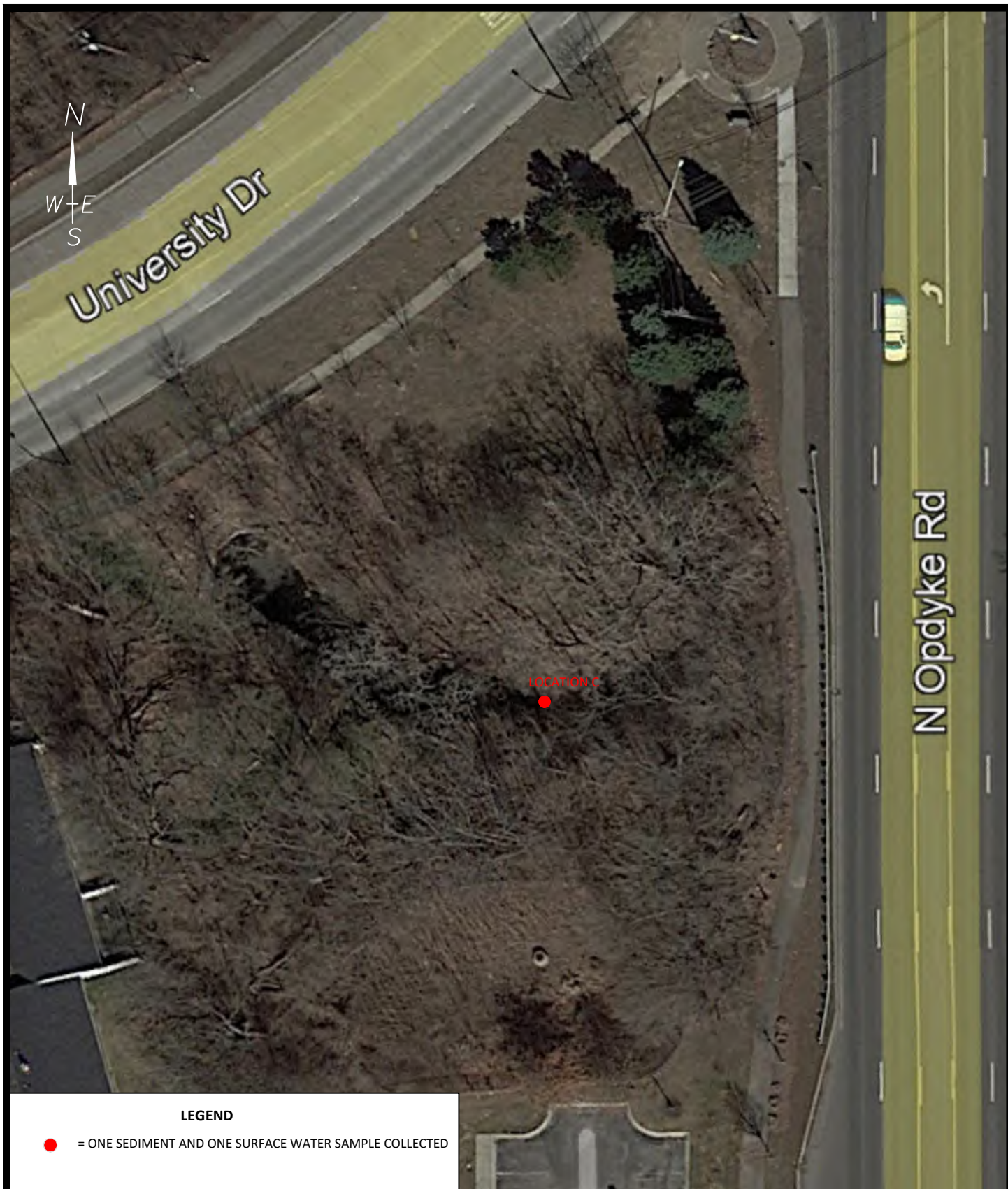
SAMPLE LOCATION MAP B

FIELDSTONE GOLF COURSE HOLE #12
AUBURN HILLS, MICHIGAN
PROJECT NUMBER: 13038F-4-20

DRAWN BY: SES
DATE: 04/10/2023

0 15 30
SCALE: 1" = 30'

FIGURE 5



SAMPLE LOCATION MAP C

NEAR 1592 NORTH OPDYKE ROAD
AUBURN HILLS, MICHIGAN
PROJECT NUMBER: 13038F-4-20

DRAWN BY: SES
DATE: 04/10/2023

0 15 30
SCALE: 1" = 30'

FIGURE 6



LEGEND

● = ONE SEDIMENT AND ONE SURFACE WATER SAMPLE COLLECTED



SAMPLE LOCATION MAP D

NEAR 1400 NORTH SQUIRREL ROAD
AUBURN HILLS, MICHIGAN
PROJECT NUMBER: 13038F-4-20

DRAWN BY: SES
DATE: 04/10/2023

0 15 30
SCALE: 1" = 30'

FIGURE 7

Table 1 - Summary of Sediment Analytical Results
Galloway Creek
Auburn Hills, Michigan
AKT Peerless Project No. 13038F-4-20

Parameters*	Chemical Abstract Service Number	Residential										Sample Location	Location A	Location B	Location C	Location D
		Statewide Default Background Levels	Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Soil Volatilization to Indoor Air Inhalation Criteria	Infinite Source Volatile Soil Inhalation Criteria (VSIC)	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation Criteria	Direct Contact Criteria	Soil Saturation Concentration Screening Levels	Collection Date	05/25/23	05/25/23	05/25/23	05/25/23
												Depth	Surface	Surface	Surface	Surface
Metals		NA	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg			ug/Kg	ug/Kg	ug/Kg	ug/Kg
Arsenic	7440-38-2	5,800	4,600	4,600	NLV	NLV	NLV	NLV	7.2E+5	7,600	NA		2,440	2,480	1,120	1,750
Barium (B)	7440-39-3	75,000	1.3E+6	(G)	NLV	NLV	NLV	NLV	3.3E+8	3.7E+7	NA		129,000	51,000	106,000	71,800
Cadmium (B)	7440-43-9	1,200	6,000	(G,X)	NLV	NLV	NLV	NLV	1.7E+6	5.5E+5	NA		<200	<200	<200	<200
Chromium, Total	7440-47-3	18,000 (total)	30,000	3,300	NLV	NLV	NLV	NLV	2.6E+5	2.5E+6	NA		3,560	4,140	13,600	<2,000
Chromium III (B,H)	16065-83-1	18,000 (total)	1.0E+9 (D)	(G,X)	NLV	NLV	NLV	NLV	3.3E+8	7.9E+8	NA		NS	NS	NS	NS
Chromium VI	18540-29-9	NA	30,000	3,300	NLV	NLV	NLV	NLV	2.6E+5	2.5E+6	NA		<2,000	<2,000	<2,000	<2,000
Copper (B)	7440-50-8	32,000	5.8E+6	(G)	NLV	NLV	NLV	NLV	1.3E+8	2.0E+7	NA		2,940	6,540	16,800	1,240
Lead (B)	7439-92-1	21,000	7.0E+5	(G,X)	NLV	NLV	NLV	NLV	1.0E+8	4.0E+5	NA		2,540	4,450	3,610	1,530
Mercury, Total	7439-97-6	130	1,700	50 (M); 1.2	48,000	52,000	52,000	52,000	2.0E+7	1.6E+5	NA		<50	<50	<50	<50
Selenium (B)	7782-49-2	410	4,000	400	NLV	NLV	NLV	NLV	1.3E+8	2.6E+6	NA		<200	<200	<200	<200
Silver (B)	7440-22-4	1,000	4,500	100 (M); 27	NLV	NLV	NLV	NLV	6.7E+6	2.5E+6	NA		<100	<100	<100	<100
Zinc (B)	7440-66-6	47,000	2.4E+6	(G)	NLV	NLV	NLV	NLV	ID	1.7E+8	NA		12,600	29,400	16,800	9,200
PCBs ug/Kg																
PCB, Aroclor 1016	12674-11-2	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<100	<100	<100	<100
PCB, Aroclor 1221	11104-28-2	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<100	<100	<100	<100
PCB, Aroclor 1232	11141-16-5	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<100	<100	<100	<100
PCB, Aroclor 1242	53469-21-9	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<100	<100	<100	<100
PCB, Aroclor 1248	12672-29-6	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<100	<100	<100	<100
PCB, Aroclor 1254	11097-69-1	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<100	<100	<100	<100
PCB, Aroclor 1260	11096-82-5	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<100	<100	<100	<100
PCB, Aroclor 1262	37324-23-5	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		NS	NS	NS	NS
PCB, Aroclor 1268	11100-14-4	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		NS	NS	NS	NS
Polychlorinated biphenyls (PCBs) (J,T)	1336-36-3	NA	NLL	NLL	3.0E+6	2.4E+5	7.9E+6	7.9E+6	5.2E+6	(T)	NA		<700	<700	<700	<700
Organochlorine Herbicides																
2,4-DB	94826	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS		<200	<200	<200	<200
2,4,5-T	93721	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS		<500	<500	<500	<500
Dalapon	75-99-0	NA	4,000	NA	NLV	NLV	NLV	NLV	ID	1.9E+7	5.9E+7		<500	<500	<500	<500
Dicamba	1918-00-9	NA	4,400	NA	NA	NLV	NLV	NLV	ID	3.4E+6	NA		<50	<50	<50	<50
2,4-Dichlorophenoxyacetic acid	94-75-7	NA	1,400	4,400	NLV	NLV	NLV	NLV	6.7E+9	2.5E+6	NA		<200	<200	<200	<200
Dichloroprop	15165670	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS		<50	<50	<50	<50
Dinoseb	88-85-7	NA	300	200 (M); 43	NLV	NLV	NLV	NLV	2.7E+8	66,000 (DD)	1.4E+5		<200	<200	<200	<200
2-Methyl-4-chlorophenoxyacetic acid	94-74-6	NA	390	NA	NLV	NLV	NLV	NLV	ID	2.3E+5	NA		<5,000	<5,000	<5,000	<5,000
MCPP	7085190	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS		<5,000	<5,000	<5,000	<5,000
Silvex (2,4,5-TP)	93-72-1	NA	3,600	2,200	NLV	NLV	NLV	NLV	ID	1.7E+6	NA		<300	<300	<300	<300
Organochlorine Pesticides																
Aldrin	309-00-2	NA	NLL	NLL	1.3E+6	58,000	58,000	58,000	6.4E+5	1,000	NA		<20	<20	<20	<20
Chlordane (J)	57-74-9	NA	NLL	NLL	1.1E+7	1.2E+6	1.2E+6	1.2E+6	3.1E+7	31,000	NA		<30	<30	<30	<30
4-4'-DDD	72-54-8	NA	NLL	NLL	NLV	NLV	NLV	NLV	4.4E+7	95,000	NA		<20	<20	<20	<20
4-4'-DDE	72-55-9	NA	NLL	NLL	NLV	NLV	NLV	NLV	3.2E+7	45,000	NA		<20	<20	<20	<20
4-4'-DDT	50-29-3	NA	NLL	NLL	NLV	NLV	NLV	NLV	3.2E+7	57,000	NA		<20	<20	<20	<20
Dieldrin	60-57-1	NA	NLL	NLL	1.4E+5	19,000	19,000	19,000	6.8E+5	1,100	NA		<20	<20	<20	<20
Endosulfan I	959-98-8	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<20	<20	<20	<20
Endosulfan II	33213-65-9	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<20	<20	<20	<20
Endosulfan (J)	115-29-7	NA	NLL	NLL	ID	ID	ID	ID	ID	1.4E+6	NA		<40	<40	<40	<40
Endosulfan Sulfate	1031078	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS		<20	<20	<20	<20
Endrin	72-20-8	NA	NLL	NLL	NLV	NLV	NLV	NLV	ID	65,000	NA		<20	<20	<20	<20
Endrin aldehyde	7421934	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS		<20	<20	<20	<20
Heptachlor	76-44-8	NA	NLL	NLL	3.5E+5	62,000	62,000	62,000	2.4E+6	5,600	NA		<20	<20	<20	<20
Heptachlor epoxide	1024-57-3	NA	NLL	NLL	NLV	NLV	NLV	NLV	1.2E+6	3,100	NA		<20	<20	<20	<20
Hexachlorobutadiene (C-46)	87-68-3	NA	26,000	91	1.3E+5	1.3E+5	1.3E+5	1.3E+5	1.4E+8	1.0E+5	3.5E+5		<50	<50	<50	<50
alpha-Hexachlorocyclohexane	319-84-6	NA	18	ID	30,000	12,000	22,000	25,000	1.7E+6	2,600	NA		<10	<10	<10	<10
beta-Hexachlorocyclohexane	319-85-7	NA	37	ID	NLV	NLV	NLV	NLV	5.9E+6	5,400	NA		<20	<20	<20	<20
delta-Hexachlorocyclohexane	319868	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS		<20	<20	<20	<20
Lindane	58-89-9	NA	20 (M); 7.0	20 (M); 1.1	ID	ID	ID	ID	ID	8,300	NA		<20	<20	<20	<20
Methoxychlor	72-43-5	NA	16,000	NA	ID	ID	ID	ID	ID	1.9E+6	NA		<50	<50	<50	<50
Semivolatiles																
Aniline	62-53-3	NA	1,100	330 (M); 80	NLV	NLV	NLV	NLV	6.7E+7	3.3E+5	4.5E+6		<330	<330	<330	<330
Azobenzene	103-33-3	NA	4,200	ID	6.1E+6	6.3E+5	6.3E+5	6.3E+5	1.0E+8	1.4E+5	NA		<200	<200	<200	<200
Benzidine	92-87-5	NA	1,000 (M); 6.0	1,000 (M); 6.0	NLV	NLV	NLV	NLV	46,000	1,000 (M); 23	NA		<1,000	<1,000	<1,000	<1,000

Table 1 - Summary of Sediment Analytical Results
Galloway Creek
Auburn Hills, Michigan
AKT Peerless Project No. 13038F-4-20

Parameters*	Chemical Abstract Service Number	Statewide Default Background Levels	Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Soil Volatilization to Indoor Air Inhalation Criteria	Infinite Source Volatile Soil Inhalation Criteria (VSIC)	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation Criteria	Direct Contact Criteria	Soil Saturation Concentration Screening Levels	Sample Location	Location A	Location B	Location C	Location D
												Collection Date	05/25/23	05/25/23	05/25/23	05/25/23
												Depth	Surface	Surface	Surface	Surface
BenzyI alcohol	100-51-6	NA	2.0E+5	NA	NLV	NLV	NLV	NLV	3.3E+11	3.2E+8 (C)	5.8E+6		<3,300	<3,300	<3,300	<3,300
4-Bromophenyl Phenylether	101-55-3	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<330	<330	<330	<330
Butyl benzyl phthalate	85-68-7	NA	2.2E+6 (C)	1.2E+5 (X)	NLV	NLV	NLV	NLV	4.7E+10	3.6E+7 (C)	3.1E+5		<330	<330	<330	<330
Carbazole	86-74-8	NA	9,400	1,100	NLV	NLV	NLV	NLV	6.2E+7	5.3E+5	NA		<330	<330	<330	<330
4-Chloroaniline	106-47-8	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS	NLS		<330	<330	<330	<330
4-Chloro-3-methylphenol	59-50-7	NA	5,800	280	NLV	NLV	NLV	NLV	ID	4.5E+6	NA		<280	<280	<280	<280
Bis(2-chloroethoxy)methane	111-91-1	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<330	<330	<330	<330
bis(2-Chloroethyl)lether (I)	111-44-4	NA	100	100 (M); 20	8,300	3,800	3,800	3,800	9.4E+6	13,000	2.2E+6		<100	<100	<100	<100
Bis(2-chloroisopropyl) Ether	108-60-1	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<330	<330	<330	<330
beta-Chloronaphthalene	91-58-7	NA	6.2E+5	NA	ID	ID	ID	ID	ID	5.6E+7	NA		<330	<330	<330	<330
2-Chlorophenol	95-57-8	NA	900	360	4.3E+5	9.6E+5	9.6E+5	9.6E+5	1.2E+9	1.4E+6	1.9E+7		<330	<330	<330	<330
4-Chlorophenyl Phenylether	7005-72-3	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<330	<330	<330	<330
Dibenzofuran	132-64-9	NA	ID	1,700	2.0E+6	1.3E+5	1.3E+5	1.3E+5	6.7E+6	ID	NA		<330	<330	<330	<330
3,3'-Dichlorobenzidine	91-94-1	NA	2,000 (M); 28	2,000 (M); 7.4	NLV	NLV	NLV	NLV	6.5E+6	6,600	NA		<2,000	<2,000	<2,000	<2,000
2,4-Dichlorophenol	120-83-2	NA	1,500	330 (M); 220	NLV	NLV	NLV	NLV	5.1E+9	6.6E+5 (DD)	1.8E+6		<330	<330	<330	<330
Diethyl phthalate	84-66-2	NA	1.1E+5	2,200	NLV	NLV	NLV	NLV	3.3E+9	1.7E+8 (C)	7.4E+5		<330	<330	<330	<330
2,4-Dimethylphenol	105-67-9	NA	7,400	7,600	NLV	NLV	NLV	NLV	4.7E+9	1.1E+7	NA		<330	<330	<330	<330
Dimethyl phthalate	131-11-3	NA	1.5E+6 (C)	NA	NLV	NLV	NLV	NLV	3.3E+9	1.0E+9 (C,D)	7.9E+5		<330	<330	<330	<330
Di-n-butyl phthalate	84-74-2	NA	9.6E+5 (C)	11,000	NLV	NLV	NLV	NLV	3.3E+9	2.7E+7 (C)	7.6E+5		<330	<330	<330	<330
2,4-Dinitrophenol	51-28-5	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<830	<830	<830	<830
2,4-Dinitrotoluene	121-14-2	NA	430	NA	NLV	NLV	NLV	NLV	1.6E+7	48,000	NA		<330	<330	<330	<330
2,6-Dinitrotoluene	606-20-2	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<330	<330	<330	<330
Di-n-octyl phthalate	117-84-0	NA	1.0E+8	ID	NLV	NLV	NLV	NLV	3.1E+10	6.9E+6	1.4E+8		<330	<330	<330	<330
bis(2-Ethylhexyl)phthalate	117-81-7	NA	NLL	NLL	NLV	NLV	NLV	NLV	7.0E+8	2.8E+6	1.0E+7		<330	<330	<330	<330
Hexachlorobenzene (C-66)	118-74-1	NA	1,800	350	41,000	17,000	17,000	17,000	6.8E+6	8,900	NA		<330	<330	<330	<330
Hexachlorocyclopentadiene (C-56)	77-47-4	NA	3.2E+5	ID	30,000	50,000	50,000	50,000	1.3E+7	2.3E+6 (C)	7.2E+5		<330	<330	<330	<330
Hexachloroethane	67-72-1	NA	430	1,800 (X)	40,000	5.5E+5	9.3E+5	9.3E+5	2.3E+8	2.3E+5	NA		<300	<300	<300	<300
Isophorone	78-59-1	NA	15,000	26,000 (X)	NLV	NLV	NLV	NLV	1.2E+10	4.8E+6 (C)	2.4E+6		<330	<330	<330	<330
2-Methyl-4,6-dinitrophenol	534-52-1	NA	830 (M); 400	NA	NLV	NLV	NLV	NLV	1.3E+8	79,000	NA		<830	<830	<830	<830
Methylphenol, 2-	95-48-7	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<330	<330	<330	<330
Methylphenol, 3- and 4-	MEPH1314	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<330	<330	<330	<330
Methylphenols (J)	1319-77-3	NA	7,400	1,000 (M); 600	NLV	NLV	NLV	NLV	6.7E+9	1.1E+7	NA		<1,000	<1,000	<1,000	<1,000
2-Nitroaniline	88-74-4	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<830	<830	<830	<830
3-Nitroaniline	99-09-2	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<830	<830	<830	<830
4-Nitroaniline	100-01-6	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<830	<830	<830	<830
Nitrobenzene (I)	98-95-3	NA	330 (M); 68	3,600 (X)	91,000	54,000	54,000	54,000	4.7E+7	1.0E+5	4.9E+5		<330	<330	<330	<330
2-Nitrophenol	88-75-5	NA	400	ID	NLV	NLV	NLV	NLV	ID	6.3E+5	NA		<330	<330	<330	<330
4-Nitrophenol	100-02-7	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<830	<830	<830	<830
N-Nitrosodimethylamine	62-75-9	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<330	<330	<330	<330
n-Nitroso-di-n-propylamine	621-64-7	NA	330 (M); 100	NA	NLV	NLV	NLV	NLV	1.6E+6	1,200	1.5E+6		<330	<330	<330	<330
N-Nitrosodiphenylamine	86-30-6	NA	5,400	NA	NLV	NLV	NLV	NLV	2.2E+9	1.7E+6	NA		<330	<330	<330	<330
Pentachlorophenol	87-86-5	NA	22	(G,X)	NLV	NLV	NLV	NLV	1.0E+8	90,000	NA		<20	<20	<20	<20
Phenol	108-95-2	NA	88,000	9,000	NLV	NLV	NLV	NLV	4.0E+10	4.0E+7 (C,DD)	1.2E+7		<330	<330	<330	<330
Pyridine (I)	110-86-1	NA	400	NA	1,100	8,200	40,000	97,000	2.3E+8	2.3E+5 (C)	37,000		<330	<330	<330	<330
2,4,5-Trichlorophenol	95-95-4	NA	39,000	NA	NLV	NLV	NLV	NLV	2.3E+10	2.3E+7	NA		<330	<330	<330	<330
2,4,6-Trichlorophenol	88-06-2	NA	2,400	330 (M); 100	NLV	NLV	NLV	NLV	1.0E+9	7.1E+5	NA		<330	<330	<330	<330
Semivolatiles, PNAs																
Acenaphthene	83-32-9	NA	3.0E+5	8,700	1.9E+8	8.1E+7	8.1E+7	8.1E+7	1.4E+10	4.1E+7	NA		<330	<330	<330	<330
Acenaphthylene	208-96-8	NA	5,900	ID	1.6E+6	2.2E+6	2.2E+6	2.2E+6	2.3E+9	1.6E+6	NA		<330	<330	<330	<330
Anthracene	120-12-7	NA	41,000	ID	1.0E+9 (D)	1.4E+9	1.4E+9	1.4E+9	6.7E+10	2.3E+8	NA		<330	<330	<330	<330
Benzo(a)anthracene (Q)	56-55-3	NA	NLL	NLL	NLV	NLV	NLV	NLV	ID	20,000	NA		<330	<330	484	<330
Benzo(a)pyrene (Q)	50-32-8	NA	NLL	NLL	NLV	NLV	NLV	NLV	1.5E+6	2,000	NA		<330	<330	569	<330
Benzo(b)fluoranthene (Q)	205-99-2	NA	NLL	NLL	ID	ID	ID	ID	ID	20,000	NA		<330	<330	535	<330
Benzo(g,h,i)perylene	191-24-2	NA	NLL	NLL	NLV	NLV	NLV	NLV	8.0E+8	2.5E+6	NA		<330	<330	590	<330
Benzo(k)fluoranthene (Q)	207-08-9	NA	NLL	NLL	NLV	NLV	NLV	NLV	ID	2.0E+5	NA		<330	<330	922	<330
Chrysene (Q)	218-01-9	NA	NLL	NLL	ID	ID	ID	ID	ID	2.0E+6	NA		<330	<330	625	<330
Dibenzo(a,h)anthracene (Q)	53-70-3	NA	NLL	NLL	NLV	NLV	NLV	NLV	ID	2,000	NA		<330	<330	<330	<330
Fluoranthene	206-44-0	NA	7.3E+5	5,500	1.0E+9 (D)	7.4E+8	7.4E+8	7.4E+8	9.3E+9	4.6E+7	NA		<330	<330	1,220	<330
Fluorene	86-73-7	NA	3.9E+5	5,300	5.8E+8	1.3E+8	1.3E+8	1.3E+8	9.3E+9	2.7E+7	NA		<330	<330	<330	<330
Indeno(1,2,3-cd)pyrene (Q)	193-39-5	NA	NLL	NLL	NLV	NLV	NLV	NLV	ID	20,000	NA		<330	<330	583	<330
2-Methylnaphthalene	91-57-6	NA	57,000	4,200	2.7E+6	1.5E+6	1.5E+6	1.5E+6	6.7E+8	8.1E+6	NA		<330	<330	<330	<330
Phenanthrene	85-01-8	NA	56,000	2,100	2.8E+6	1.6E+5	1.6E+5	1.6E+5	6.7E+6	1.6E+6	NA		<330	<330	504	<330
Pyrene	129-00-0	NA	4.8E+5	ID	1.0E+9 (D)	6.5E+8	6.5E+8	6.5E+8	6.7E+9	2.9E+7	NA		<330	<330	984	<330
Toxaphene																
Toxaphene	8001-35-2	NA	24,000	8,200	NLV	NLV	NLV	NLV	9.7E+6	20,000	NA		<170	<170	<170	<170

Table 1 - Summary of Sediment Analytical Results
Galloway Creek
Auburn Hills, Michigan
AKT Peerless Project No. 13038F-4-20

					Residential											
Parameters*	Chemical Abstract Service Number	Statewide Default Background Levels	Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Soil Volatilization to Indoor Air Inhalation Criteria	Infinite Source Volatile Soil Inhalation Criteria (VSIC)	Finite VSIC for 5 Meter Source Thickness	Finite VSIC for 2 Meter Source Thickness	Particulate Soil Inhalation Criteria	Direct Contact Criteria	Soil Saturation Concentration Screening Levels	Sample Location	Location A	Location B	Location C	Location D
(Refer to detailed laboratory report for method reference data)												Collection Date	05/25/23	05/25/23	05/25/23	05/25/23
												Depth	Surface	Surface	Surface	Surface
Volatiles																
Acetone (I)	67-64-1	NA	15,000	34,000	2.9E+8 (C)	1.3E+8	1.3E+8	1.9E+8	3.9E+11	2.3E+7	1.1E+8		<1,000	<1,000	<1,000	<1,000
Acrylonitrile (I)	107-13-1	NA	100 (M); 52	100 (M); 40	6,600	5,000	5,100	10,000	4.6E+7	16,000	8.3E+6		NS	NS	NS	NS
Benzene (I)	71-43-2	NA	100	4,000 (X)	1,600	13,000	34,000	79,000	3.8E+8	1.8E+5	4.0E+5		<50	<50	<50	<50
Bromobenzene (I)	108-86-1	NA	550	NA	3.1E+5	4.5E+5	4.5E+5	4.5E+5	5.3E+8	5.4E+5	7.6E+5		<100	<100	<100	<100
Bromochloromethane	74-97-5	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<100	<100	<100	<100
Bromodichloromethane	75-27-4	NA	1,600 (W)	ID	1,200	9,100	9,700	19,000	8.4E+7	1.1E+5	1.5E+6		<100	<100	<100	<100
Bromoform	75-25-2	NA	1,600 (W)	ID	1.5E+5	9.0E+5	9.0E+5	9.0E+5	2.8E+9	8.2E+5	8.7E+5		<100	<100	<100	<100
Bromomethane	74-83-9	NA	200	100	860	11,000	57,000	1.4E+5	3.3E+8	3.2E+5	2.2E+6		<200	<200	<200	<200
2-Butanone (MEK) (I)	78-93-3	NA	2.6E+5	44,000	5.4E+7 (C)	2.9E+7	2.9E+7	3.5E+7	6.7E+10	1.2E+8 (C,DD)	2.7E+7		<750	<750	<750	<750
n-Butylbenzene	104-51-8	NA	1,600	ID	ID	ID	ID	ID	2.0E+9	2.5E+6	1.0E+7		<50	<50	<50	<50
sec-Butylbenzene	135-98-8	NA	1,600	ID	ID	ID	ID	ID	4.0E+8	2.5E+6	1.0E+7		<50	<50	<50	<50
tert-Butylbenzene (I)	98-06-6	NA	1,600	ID	ID	ID	ID	ID	6.7E+8	2.5E+6	1.0E+7		<50	<50	<50	<50
Carbon disulfide (I,R)	75-15-0	NA	16,000	ID	76,000	1.3E+6	7.9E+6	1.9E+7	4.7E+10	7.2E+6 (C,DD)	2.8E+5		<250	<250	<250	<250
Carbon tetrachloride	56-23-5	NA	100	760 (X)	190	3,500	12,000	28,000	1.3E+8	96,000	3.9E+5		<50	<50	<50	<50
Chlorobenzene (I)	108-90-7	NA	2,000	500	1.2E+5	7.7E+5	9.9E+5	2.1E+6	4.7E+9	4.3E+6 (C)	2.6E+5		<50	<50	<50	<50
Chloroethane	75-00-3	NA	8,600	22,000 (X)	2.9E+6 (C)	3.0E+7	1.2E+8	2.8E+8	6.7E+11	2.6E+6 (C)	9.5E+5		<250	<250	<250	<250
Chloroform	67-66-3	NA	1,600 (W)	7,000	7,200	45,000	1.2E+5	2.7E+5	1.3E+9	1.2E+6	1.5E+6		<50	<50	<50	<50
Chloromethane (I)	74-87-3	NA	5,200	ID	2,300	40,000	4.1E+5	1.0E+6	4.9E+9	1.6E+6 (C)	1.1E+6		<250	<250	<250	<250
2-Chlorotoluene (I)	95-49-8	NA	3,300	ID	2.7E+5	1.2E+6	2.9E+6	6.3E+6	4.7E+9	4.5E+6 (C)	5.0E+5		<50	<50	<50	<50
4-Chlorotoluene (I)	106-43-4	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<50	<50	<50	<50
Dibromochloromethane	124-48-1	NA	1,600 (W)	ID	3,900	24,000	24,000	33,000	1.3E+8	1.1E+5	6.1E+5		<100	<100	<100	<100
Dibromochloropropane	96-12-8	NA	10 (M); 4.0	ID	220	260	260	260	5.6E+5	4,400 (C)	1,200		<10	<10	<10	<10
Dibromomethane	74-95-3	NA	1,600	NA	ID	ID	ID	ID	ID	2.5E+6 (C)	2.0E+6		<250	<250	<250	<250
1,2-Dichlorobenzene	95-50-1	NA	14,000	280	1.1E+7 (C)	3.9E+7	3.9E+7	5.2E+7	1.0E+11	1.9E+7 (C)	2.1E+5		<100	<100	<100	<100
1,3-Dichlorobenzene	541-73-1	NA	170	680	26,000	79,000	79,000	1.1E+5	2.0E+8	2.0E+5 (C)	1.7E+5		<100	<100	<100	<100
1,4-Dichlorobenzene	106-46-7	NA	1,700	360	19,000	77,000	77,000	1.1E+5	4.5E+8	4.0E+5	NA		<100	<100	<100	<100
Dichlorodifluoromethane	75-71-8	NA	95,000	ID	9.0E+5	5.3E+7	5.5E+8	1.4E+9	3.3E+12	5.2E+7 (C)	1.0E+6		<250	<250	<250	<250
1,1-Dichloroethane	75-34-3	NA	18,000	15,000	2.3E+5	2.1E+6	5.9E+6	1.4E+7	3.3E+10	2.7E+7 (C)	8.9E+5		<50	<50	<50	<50
1,2-Dichloroethane (I)	107-06-2	NA	100	7,200 (X)	2,100	6,200	11,000	26,000	1.2E+8	91,000	1.2E+6		<50	<50	<50	<50
cis-1,2-Dichloroethylene	156-59-2	NA	1,400	12,000	22,000	1.8E+5	4.2E+5	9.9E+5	2.3E+9	2.5E+6 (C)	6.4E+5		<50	<50	<50	<50
trans-1,2-Dichloroethylene	156-60-5	NA	2,000	30,000 (X)	23,000	2.8E+5	8.3E+5	2.0E+6	4.7E+9	3.8E+6 (C)	1.4E+6		<50	<50	<50	<50
1,1-Dichloroethylene (I)	75-35-4	NA	140	2,600	62	1,100	5,300	13,000	6.2E+7	2.0E+5	5.7E+5		<50	<50	<50	<50
1,2-Dichloropropane (I)	78-87-5	NA	100	4,600 (X)	4,000	25,000	50,000	1.1E+5	2.7E+8	1.4E+5	5.5E+5		<50	<50	<50	<50
1,3-Dichloropropane	142-28-9	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<50	<50	<50	<50
2,2-Dichloropropane	594-20-7	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<50	<50	<50	<50
1,1-Dichloropropene	563-58-6	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<50	<50	<50	<50
1,3-Dichloropropene	542-75-6	NA	170	180 (X)	1,000	18,000	68,000	1.6E+5	7.8E+8	10,000	6.2E+5		<50	<50	<50	<50
cis-1,3-Dichloropropylene	10061-01-5	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		NS	NS	NS	NS
trans-1,3-Dichloropropylene	10061-02-6	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		NS	NS	NS	NS
Ethylbenzene (I)	100-41-4	NA	1,500	360	87,000	7.2E+5	1.0E+6	2.2E+6	1.0E+10	2.2E+7 (C)	1.4E+5		<50	<50	<50	<50
Ethylene dibromide	106-93-4	NA	20 (M); 1.0	110 (X)	670	1,700	1,700	3,300	1.4E+7	92	8.9E+5		<20	<20	<20	<20
2-Hexanone	591-78-6	NA	20,000	ID	9.9E+5	1.1E+6	1.1E+6	1.4E+6	2.7E+9	3.2E+7 (C)	2.5E+6		<2,500	<2,500	<2,500	<2,500
Isopropyl benzene	98-82-8	NA	91,000	3,200	4.0E+5 (C)	1.7E+6	1.7E+6	2.8E+6	5.8E+9	2.5E+7 (C)	3.9E+5		<250	<250	<250	<250
4-Methyl-2-pentanone (MIBK) (I)	108-10-1	NA	36,000	ID	3.7E+7 (C)	4.5E+7	4.5E+7	6.7E+7	1.4E+11	5.6E+7 (C)	2.7E+6		<2,500	<2,500	<2,500	<2,500
Methylene chloride	75-09-2	NA	100	30,000 (X)	45,000	2.1E+5	5.9E+5	1.4E+6	6.6E+9	1.3E+6	2.3E+6		<250	<250	<250	<250
Methyl-tert-butyl ether (MTBE)	1634-04-4	NA	800	1.4E+5 (X)	9.9E+6 (C)	2.5E+7	3.9E+7	8.7E+7	2.0E+11	1.5E+6	5.9E+6		<250	<250	<250	<250
Naphthalene	91-20-3	NA	35,000	730	2.5E+5	3.0E+5	3.0E+5	3.0E+5	2.0E+8	1.6E+7	NA		<250	<250	<250	<250
n-Propylbenzene (I)	103-65-1	NA	1,600	ID	ID	ID	ID	ID	1.3E+9	2.5E+6	1.0E+7		<100	<100	<100	<100
Styrene	100-42-5	NA	2,700	2,100 (X)	2.5E+5	9.7E+5	9.7E+5	1.4E+6	5.5E+9	4.0E+5	5.2E+5		<50	<50	<50	<50
1,1,1,2-Tetrachloroethane	630-20-6	NA	1,500	ID	6,200	36,000	54,000	1.0E+5	4.2E+8	4.8E+5 (C)	4.4E+5		<100	<100	<100	<100
1,1,2,2-Tetrachloroethane	79-34-5	NA	170	1,600 (X)	4,300	10,000	10,000	14,000	5.4E+7	53,000	8.7E+5		<50	<50	<50	<50
Tetrachloroethylene	127-18-4	NA	100	1,200 (X)	11,000	1.7E+5	4.8E+5	1.1E+6	2.7E+9	2.0E+5 (C)	88,000		<50	<50	<50	<50
Tetrahydrofuran	109-99-9	NA	1,900	2.2E+5 (X)	1.3E+6	1.3E+7	6.7E+7	1.6E+8	3.9E+11	2.9E+6	1.2E+8		<1,000	<1,000	<1,000	<1,000
Toluene (I)	108-88-3	NA	16,000	5,400	3.3E+5 (C)	2.8E+6	5.1E+6	1.2E+7	2.7E+10	5.0E+7 (C)	2.5E+5		<100	<100	<100	<100
1,2,3-Trichlorobenzene	87-61-6	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		<250	<250	<250	<250
1,2,4-Trichlorobenzene	120-82-1	NA	4,200	5,900 (X)	9.6E+6 (C)	2.8E+7	2.8E+7	2.8E+7	2.5E+10	9.9E+5 (DD)	1.1E+6		<250	<250	<250	<250
1,1,1-Trichloroethane	71-55-6	NA	4,000	1,800	2.5E+5	3.8E+6	1.2E+7	2.8E+7	6.7E+10	5.0E+8 (C)	4.6E+5		<50	<50	<50	<50
1,1,2-Trichloroethane	79-00-5	NA	100	6,600 (X)	4,600	17,000	21,000	44,000	1.9E+8	1.8E+5	9.2E+5		<50	<50	<50	<50
Trichloroethylene	79-01-6	NA	100	4,000 (X)	1,000	11,000	25,000	57,000	1.3E+8	1.1E+5 (DD)	5.0E+5		<50	<50	<50	<50
Trichlorofluoromethane	75-69-4	NA	52,000	NA	2.8E+6 (C)	9.2E+7	6.3E+8	1.5E+9	3.8E+12	7.9E+7 (C)	5.6E+5		<100	<100	<100	<100
1,2,3-Trichloropropane	96-18-4	NA	840	NA	4,000	9,200	9,200	11,000	2.0E+7	1.3E+6 (C)	8.3E+5		<100	<100	<100	<100
1,2,3-Trimethylbenzene	526-73-8	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV		NS	NS	NS	NS
1,2,4-Trimethylbenzene (I)	95-63-6	NA	2,100	570	4.3E+6 (C)	2.1E+7	5.0E+8	5.0E+8	8.2E+10	3.2E+7 (C)	1.1E+5		<100	<100	<100	<100
1,3,5-Trimethylbenzene (I)	108-67-8	NA	1,800	1,100	2.6E+6 (C)	1.6E+7	3.8E+8	3.8E+8	8.2E+10	3.2E+7 (C)	94,000		<100	<100	<100	<100
Vinyl acetate (I)	108-05-4	NA	13,000	NA	7.9E+5	1.7E+6	2.6E+6	5.8E+6	1.3E+10	5.8E+6 (C,DD)	2.4E+6		<5,000	<5,000	<5,000	<5,000
Vinyl chloride	75-01-4	NA	40	260 (X)	270	4,200	30,000	73,000	3.5E+8	3,800	4.9E+5		<40	<40	<40	<40
Xylenes (I)	1330-20-7	NA	5,600	980	6.3E+6 (C)	4.6E+7	6.1E+7	1.3E+8	2.9E+11	4.1E+8 (C)	1.5E+5		<150	<150	<150	<150

Table 2: Summary of Surface Water Analytical Results
Galloway Creek
Auburn Hills, Michigan
AKT Peerless Project No. 13038F-4-20

Residential							Sample Location	Location A	Location B	Location C	Location D
Parameters	Chemical Abstract Service Number	Drinking Water Criteria	Groundwater Surface Water Interface Criteria	Groundwater Volatilization to Indoor Air Inhalation Criteria	Water Solubility	Flammability and Explosivity Screening Level	Collection Date	05/25/23	05/25/23	05/25/23	05/25/23
(Refer to detailed laboratory report for method reference data)							Screen Depth	Surface	Surface	Surface	Surface
Metals											
Arsenic	7440-38-2	10 (A)	10	NLV	NA	ID		<5.0	<5.0	<5.0	<5.0
Barium (B)	7440-39-3	2,000 (A)	(G)	NLV	NA	ID		208	449	319	408
Cadmium (B)	7440-43-9	5.0 (A)	(G,X)	NLV	NA	ID		<1.0	<1.0	2	<1.0
Chromium, Total	7440-47-3	100 (A)	11	NLV	NA	ID		<5.0	<5.0	<5.0	<5.0
Chromium VI	18540-29-9	100 (A)	11	NLV	NA	ID		<10	<10	<10	<10
Copper (B)	7440-50-8	1,000 (E)	(G)	NLV	NA	ID		<4.0	5	<4.0	4
Lead (B)	7439-92-1	4.0 (L)	(G,X)	NLV	NA	ID		<3.0	<3.0	<3.0	9
Mercury, Total	7439-97-6	2.0 (A)	0.0013	56 (S)	56	ID		<0.20	<0.20	<0.20	<0.20
Selenium (B)	7782-49-2	50 (A)	5.0	NLV	NA	ID		<5.0	<5.0	<5.0	<5.0
Silver (B)	7440-22-4	34	0.2 (M); 0.06	NLV	NA	ID		<0.20	<0.20	<0.20	<0.20
Zinc (B)	7440-66-6	2,400	(G)	NLV	NA	ID		<50	<50	<50	<50
PCBs											
PCB, Aroclor 1016	12674-11-2	NLV	NLV	NLV	NLV	NLV		<0.20	<0.20	<0.20	<0.20
PCB, Aroclor 1221	11104-28-2	NLV	NLV	NLV	NLV	NLV		<0.20	<0.20	<0.20	<0.20
PCB, Aroclor 1232	11141-16-5	NLV	NLV	NLV	NLV	NLV		<0.20	<0.20	<0.20	<0.20
PCB, Aroclor 1242	53469-21-9	NLV	NLV	NLV	NLV	NLV		<0.20	<0.20	<0.20	<0.20
PCB, Aroclor 1248	12672-29-6	NLV	NLV	NLV	NLV	NLV		<0.20	<0.20	<0.20	<0.20
PCB, Aroclor 1254	11097-69-1	NLV	NLV	NLV	NLV	NLV		<0.20	<0.20	<0.20	<0.20
PCB, Aroclor 1260	11096-82-5	NLV	NLV	NLV	NLV	NLV		<0.20	<0.20	<0.20	<0.20
PCB, Aroclor 1262	37324-23-5	NLV	NLV	NLV	NLV	NLV		NS	NS	NS	NS
PCB, Aroclor 1268	11100-14-4	NLV	NLV	NLV	NLV	NLV		NS	NS	NS	NS
Polychlorinated biphenyls (PCBs) (I,T)	1336-36-3	0.5 (A)	0.2 (M); 2.6E-5	45 (S)	44.7	ID		<2.0	<2.0	<2.0	<2.0
Herbicides											
2,4-DB	94826	NLV	NLV	NLV	NLV	NLV		<10	<10	<10	<10
2,4,5-T	93765	NLV	NLV	NLV	NLV	NLV		<10	<10	<10	<10
Dalapon	75-99-0	200 (A)	NA	NLV	5.02E+8	ID		<10	<10	<10	<10
Dicamba	1918-00-9	220	NA	NLV	4.5E+6	ID		<1.0	<1.0	<1.0	<1.0
2,4-Dichlorophenoxyacetic acid	94-75-7	70 (A)	220	NLV	6.80E+5	ID		<10	<10	<10	<10
Dichloroprop	15165670	NLV	NLV	NLV	NLV	NLV		<10	<10	<10	<10
Dinoseb	88-85-7	7.0 (A)	1.0 (M); 0.48	NLV	52,000	ID		<1.0	<1.0	<1.0	<1.0
MCPA	94746	7.3	NA	NLV	9.24E+05	ID		<8,000	<8,000	<8,000	<8,000
MCPP	7085190	NLV	NLV	NLV	NLV	NLV		<30,000	<30,000	<30,000	<30,000
Silvex (2,4,5-TP)	93-72-1	50 (A)	30	NLV	1.40E+5	ID		<30	<30	<30	<30
Pesticides, Chlorinated											
Aldrin	309-00-2	0.098	0.01 (M); 8.7E-6	180 (S)	180	ID		<0.010	<0.010	<0.010	<0.010
Chlordane (J)	57-74-9	2.0 (A)	2.0 (M); 0.00025	56 (S)	56	ID		<0.050	<0.050	<0.050	<0.050
4-4'-DDD	72-54-8	9.1	NA	NLV	90	ID		<0.1	<0.1	<0.1	<0.1
4-4'-DDE	72-55-9	4.3	NA	NLV	120	ID		<0.1	<0.1	<0.1	<0.1
4-4'-DDT	50-29-3	3.6	0.02 (M); 1.1E-5	NLV	25	NA		<0.020	<0.020	<0.020	<0.020
Dieldrin	60-57-1	0.11	0.02 (M); 6.5E-6	200 (S)	195	ID		<0.020	<0.020	<0.020	<0.020
Endosulfan I	959-98-8	NLV	NLV	NLV	NLV	NLV		<0.015	<0.015	<0.015	<0.015
Endosulfan II	33213-65-9	NLV	NLV	NLV	NLV	NLV		<0.015	<0.015	<0.015	<0.015
Endosulfan (I)	115-29-7	44	0.03 (M); 0.029	ID	510	ID		<0.03	<0.03	<0.03	<0.03
Endosulfan sulfate	1031078	NLV	NLV	NLV	NLV	NLV		<0.050	<0.050	<0.050	<0.050
Endrin	72-20-8	2.0 (A)	ID	NLV	250	ID		<0.020	<0.020	<0.020	<0.020
Endrin aldehyde	7421934	NLV	NLV	NLV	NLV	NLV		<0.020	<0.020	<0.020	<0.020
Heptachlor	76-44-8	0.4 (A)	0.01 (M); 0.0018	180 (S)	180	ID		<0.010	<0.010	<0.010	<0.010
Heptachlor epoxide	1024-57-3	0.2 (A)	ID	NLV	200	ID		<0.010	<0.010	<0.010	<0.010
Hexachlorobutadiene (C-46)	87-68-3	15	0.053	1,600	3,230	ID		<0.2	<0.2	<0.2	<0.2
alpha-Hexachlorocyclohexane	319-84-6	0.43	ID	2,000 (S)	2,000	ID		<0.050	<0.050	<0.050	<0.050
beta-Hexachlorocyclohexane	319-85-7	0.88	ID	NLV	240	ID		<0.020	<0.020	<0.020	<0.020
delta-Hexachlorocyclohexane	319-86-8	NLV	NLV	NLV	NLV	NLV		<0.010	<0.010	<0.010	<0.010
Lindane	58-89-9	0.2 (A)	0.03 (M); 0.026	ID	6,800	ID		<0.030	<0.030	<0.030	<0.030
Methoxychlor	72-43-5	40 (A)	NA	ID	45	ID		<0.50	<0.50	<0.50	<0.50

Table 2: Summary of Surface Water Analytical Results
Galloway Creek
Auburn Hills, Michigan
AKT Peerless Project No. 13038F-4-20

Residential							Sample Location	Location A	Location B	Location C	Location D
Parameters	Chemical Abstract Service Number	Drinking Water Criteria	Groundwater Surface Water Interface Criteria	Groundwater Volatilization to Indoor Air Inhalation Criteria	Water Solubility	Flammability and Explosivity Screening Level	Collection Date	05/25/23	05/25/23	05/25/23	05/25/23
(Refer to detailed laboratory report for method reference data)							Screen Depth	Surface	Surface	Surface	Surface
Semivolatiles											
Aniline	62-53-3	53	4.0 (M); 3.0	NLV	3.60E+7	NA		<4.0	<4.0	<4.0	<4.0
Azobenzene	103-33-3	23	ID	6,400 (S)	6,400	ID		<2.0	<2.0	<2.0	<2.0
Benzidine	92-87-5	0.3 (M); 0.0037	0.3 (M); 0.073	NLV	5.20E+5	ID		<2.0	<2.0	<2.0	<2.0
Benzyl alcohol	100-51-6	10,000	NA	NLV	4.40E+7	ID		<50	<50	<50	<50
4-Bromophenyl Phenylether	101-55-3	NLV	NLV	NLV	NLV	NLV		<5.0	<5.0	<5.0	<5.0
Butyl benzyl phthalate	85-68-7	1,200	67 (X)	NLV	2,690	ID		<5.0	<5.0	<5.0	<5.0
Carbazole	86-74-8	85	10 (M); 4.0	NLV	7,480	ID		<10	<10	<10	<10
4-Chloroaniline	106-47-8	NLS	NLS	NLS	NLS	NLS		<10	<10	<10	<10
4-Chloro-3-methylphenol	59-50-7	150	7.4	NLV	3.90E+6	ID		<5.0	<5.0	<5.0	<5.0
Bis(2-chloroethoxy)methane	111-91-1	NLV	NLV	NLV	NLV	NLV		<5.0	<5.0	<5.0	<5.0
bis(2-Chloroethyl)ether (I)	111-44-4	2.0	1.0 (M); 0.79	38,000	1.72E+7	1.7E+7 (S)		<1.0	<1.0	<1.0	<1.0
Bis(2-chloroisopropyl) Ether	108-60-1	NLV	NLV	NLV	NLV	NLV		<5.0	<5.0	<5.0	<5.0
beta-Chloronaphthalene	91-58-7	1,800	NA	ID	6,740	ID		<5.0	<5.0	<5.0	<5.0
2-Chlorophenol	95-57-8	45	18	4.9E+5	2.20E+7	ID		<10	<10	<10	<10
4-Chlorophenyl Phenylether	7005-72-3	NLV	NLV	NLV	NLV	NLV		<5.0	<5.0	<5.0	<5.0
Dibenzofuran	132-64-9	ID	4.0	10,000 (S)	10,000	ID		<4.0	<4.0	<4.0	<4.0
3,3'-Dichlorobenzidine	91-94-1	1.1	0.3 (M); 0.2	NLV	3,110	ID		<2.0	<2.0	<2.0	<2.0
2,4-Dichlorophenol	120-83-2	73	11	NLV	4.50E+6	ID		<10	<10	<10	<10
Diethyl phthalate	84-66-2	5,500	110	NLV	1.08E+6	NA		<5.0	<5.0	<5.0	<5.0
2,4-Dimethylphenol	105-67-9	370	380	NLV	7.87E+6	ID		<5.0	<5.0	<5.0	<5.0
Dimethyl phthalate	131-11-3	73,000	NA	NLV	4.19E+6	NA		<5.0	<5.0	<5.0	<5.0
Di-n-butyl phthalate	84-74-2	880	9.7	NLV	11,200	NA		<5.0	<5.0	<5.0	<5.0
2,4-Dinitrophenol	51-28-5	NLV	NLV	NLV	NLV	NLV		<25	<25	<25	<25
2,4-Dinitrotoluene	121-14-2	7.7	NA	NLV	2.70E+5	ID		<5.0	<5.0	<5.0	<5.0
2,6-Dinitrotoluene	606-20-2	NLV	NLV	NLV	NLV	NLV		<5.0	<5.0	<5.0	<5.0
Di-n-octyl phthalate	117-84-0	130	ID	NLV	3,000	ID		<5.0	<5.0	<5.0	<5.0
bis(2-Ethylhexyl)phthalate	117-81-7	6.0 (A)	14	NLV	340	NA		<5.0	<5.0	<5.0	<5.0
Hexachlorobenzene (C-66)	118-74-1	1.0 (A)	0.2 (M); 0.0003	440	6,200	ID		<1.0	<1.0	<1.0	<1.0
Hexachlorocyclopentadiene (C-56)	77-47-4	50 (A)	ID	130	1,800	ID		<5.0	<5.0	<5.0	<5.0
Hexachloroethane	67-72-1	7.3	6.7 (X)	27,000	50,000	ID		<5.0	<5.0	<5.0	<5.0
Isophorone	78-59-1	770	1,300 (X)	NLV	1.20E+7	ID		<5.0	<5.0	<5.0	<5.0
2-Methyl-4,6-dinitrophenol	534-52-1	20 (M); 2.6	NA	NLV	2.00E+5	ID		<20	<20	<20	<20
Methylphenol, 2-	95-48-7	NLV	82	NLV	NLV	NLV		<10	<10	<10	<10
Methylphenol, 3- and 4-	MEPH1314	NLV	25	NLV	NLV	NLV		<10	<10	<10	<10
Methylphenols (J)	1319-77-3	370	30 (M); 25	NLV	2.80E+7	NA		<30	<30	<30	<30
2-Nitroaniline	88-74-4	NLV	NLV	NLV	NLV	NLV		<25	<25	<25	<25
3-Nitroaniline	99-09-2	NLV	NLV	NLV	NLV	NLV		<25	<25	<25	<25
4-Nitroaniline	100-01-6	NLV	NLV	NLV	NLV	NLV		<25	<25	<25	<25
Nitrobenzene (I)	98-95-3	3.4	180 (X)	2.8E+5	2.09E+6	NA		<3.0	<3.0	<3.0	<3.0
2-Nitrophenol	88-75-5	20	ID	NLV	2.50E+6	ID		<5.0	<5.0	<5.0	<5.0
4-Nitrophenol	100-02-7	NLV	NLV	NLV	NLV	NLV		<25	<25	<25	<25
N-Nitrosodimethylamine	62-75-9	NLV	NLV	NLV	NLV	NLV		<5.0	<5.0	<5.0	<5.0
n-Nitroso-di-n-propylamine	621-64-7	5.0 (M); 0.19	NA	NLV	9.89E+6	ID		<5.0	<5.0	<5.0	<5.0
N-Nitrosodiphenylamine	86-30-6	270	NA	NLV	35,100	ID		<5.0	<5.0	<5.0	<5.0
Pentachlorophenol	87-86-5	1.0 (A)	(G,X)	NLV	1.85E+6	ID		<1.0	<1.0	<1.0	<1.0
Phenol	108-95-2	4,400	450	NLV	8.28E+7	NA		<5.0	<5.0	<5.0	<5.0
Pyridine (I)	110-86-1	20 (M); 7.3	NA	5,500	3.00E+5	81,000		<20	<20	<20	<20
2,4,5-Trichlorophenol	95-95-4	730	NA	NLV	1.20E+6	ID		<5.0	<5.0	<5.0	<5.0
2,4,6-Trichlorophenol	88-06-2	120	5.0	NLV	8.00E+5	ID		<4.0	<4.0	<4.0	<4.0
Semivolatiles, PNAs											
Acenaphthene	83-32-9	1,300	38	4,200 (S)	4,240	ID		<5.0	<5.0	<5.0	<5.0
Acenaphthylene	208-96-8	52	ID	3,900 (S)	3,930	ID		<5.0	<5.0	<5.0	<5.0
Anthracene	120-12-7	43 (S)	ID	43 (S)	43.4	ID		<5.0	<5.0	<5.0	<5.0
Benzo(a)anthracene (Q)	56-55-3	2.1	ID	NLV	9.4	ID		<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene (Q)	50-32-8	5.0 (A)	ID	NLV	1.62	ID		<1.0	<1.0	<1.0	<1.0
Benzo(b)fluoranthene (Q)	205-99-2	1.5 (S, AA)	ID	ID	1.5	ID		<1.0	<1.0	<1.0	<1.0
Benzo(g,h,i)perylene	191-24-2	1.0 (M); 0.26 (S)	ID	NLV	0.26	ID		<1.0	<1.0	<1.0	<1.0
Benzo(k)fluoranthene (Q)	207-08-9	1.0 (M); 0.8 (S)	NA	NLV	0.8	ID		<1.0	<1.0	<1.0	<1.0
Chrysene (Q)	218-01-9	1.6 (S)	ID	ID	1.6	ID		<1.0	<1.0	<1.0	<1.0
Dibenzo(a,h)anthracene (Q)	53-70-3	2.0 (M); 0.21	ID	NLV	2.49	ID		<2.0	<2.0	<2.0	<2.0
Fluoranthene	206-44-0	210 (S)	1.6	210 (S)	206	ID		<1.0	<1.0	<1.0	<1.0
Fluorene	86-73-7	880	12	2,000 (S)	1,980	ID		<5.0	<5.0	<5.0	<5.0
Indeno(1,2,3-cd)pyrene (Q)	193-39-5	2.0 (M); 0.022 (S)	ID	NLV	0.022	ID		<2.0	<2.0	<2.0	<2.0
2-Methylnaphthalene	91-57-6	260	19	25,000 (S)	24,600	ID		<5.0	<5.0	<5.0	<5.0
Phenanthrene	85-01-8	52	2.0 (M); 1.7	1,000 (S)	1,000	ID		<2.0	<2.0	<2.0	<2.0
Pyrene	129-00-0	140 (S)	ID	140 (S)	135	ID		<5.0	<5.0	<5.0	<5.0
Toxaphene											
Toxaphene	8001-35-2	3.0 (A)	1.0 (M); 6.8E-5	NLV	740	ID		<1.0	<1.0	<1.0	<1.0

Table 2: Summary of Surface Water Analytical Results
Galloway Creek
Auburn Hills, Michigan
AKT Peerless Project No. 13038F-4-20

Residential							Sample Location	Location A	Location B	Location C	Location D
Parameters	Chemical Abstract Service Number	Drinking Water Criteria	Groundwater Surface Water Interface Criteria	Groundwater Volatilization to Indoor Air Inhalation Criteria	Water Solubility	Flammability and Explosivity Screening Level	Collection Date	05/25/23	05/25/23	05/25/23	05/25/23
(Refer to detailed laboratory report for method reference data)							Screen Depth	Surface	Surface	Surface	Surface
Volatiles											
Acetone (l)	67-64-1	730	1,700	1.0E+9 (D,S)	1.0E+9	1.5E+7		<50.0	<50.0	<50.0	<50.0
Acrylonitrile (l)	107-13-1	2.6	2.0 (M); 1.2	34,000	7.50E+7	6.4E+6		NS	NS	NS	NS
Benzene (l)	71-43-2	5.0 (A)	200 (X)	5,600	1.75E+6	68,000		<1.0	<1.0	<1.0	<1.0
Bromobenzene (l)	108-86-1	18	NA	1.8E+5	4.13E+5	ID		<1.0	<1.0	<1.0	<1.0
Bromochloromethane	74-97-5	NLV	NLV	NLV	NLV	NLV		<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	75-27-4	80 (A,W)	ID	4,800	6.74E+6	ID		<1.0	<1.0	<1.0	<1.0
Bromoform	75-25-2	80 (A,W)	ID	4.7E+5	3.10E+6	ID		<1.0	<1.0	<1.0	<1.0
Bromomethane	74-83-9	10	5.0 (M); 4.2	4,000	1.45E+7	ID		<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK) (l)	78-93-3	13,000	2,200	2.4E+8 (S)	2.40E+8	ID		<25	<25	<25	<25
n-Butylbenzene	104-51-8	80	ID	ID	NA	ID		<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	135-98-8	80	ID	ID	NA	ID		<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene (l)	98-06-6	80	ID	ID	NA	ID		<1.0	<1.0	<1.0	<1.0
Carbon disulfide (l,R)	75-15-0	800	ID	2.5E+5	1.19E+6	13,000		<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	56-23-5	5.0 (A)	38 (X)	370	7.93E+5	ID		<1.0	<1.0	<1.0	<1.0
Chlorobenzene (l)	108-90-7	100 (A)	25	2.1E+5	4.72E+5	1.6E+5		<1.0	<1.0	<1.0	<1.0
Chloroethane	75-00-3	430	1,100 (X)	5.7E+6 (S)	5.74E+6	1.1E+5		<5.0	<5.0	<5.0	<5.0
Chloroform	67-66-3	80 (A,W)	350	28,000	7.92E+6	ID		<1.0	<1.0	<1.0	<1.0
Chloromethane (l)	74-87-3	260	ID	8,600	6.34E+6	36,000		<5.0	<5.0	<5.0	<5.0
2-Chlorotoluene (l)	95-49-8	150	ID	2.2E+5	3.73E+5	ID		<5.0	<5.0	<5.0	<5.0
4-Chlorotoulene (l)	106-43-4	NLV	NLV	NLV	NLV	NLV		<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	124-48-1	80 (A,W)	ID	14,000	2.60E+6	ID		<5.0	<5.0	<5.0	<5.0
Dibromochloropropane	96-12-8	0.2 (A)	ID	220	1,230	NA		<0.2	<0.2	<0.2	<0.2
Dibromomethane	74-95-3	80	NA	ID	1.10E+7	ID		<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	95-50-1	600 (A)	13	1.6E+5 (S)	1.56E+5	NA		<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	541-73-1	6.6	28	18,000	1.11E+5	ID		<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	106-46-7	75 (A)	17	16,000	73,800	NA		<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	75-71-8	1,700	ID	2.2E+5	3.00E+5	ID		<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	75-34-3	880	740	1.0E+6	5.06E+6	3.8E+5		<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane (l)	107-06-2	5.0 (A)	360 (X)	9,600	8.52E+6	2.5E+6		<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethylene	156-59-2	70 (A)	620	93,000	3.50E+6	5.3E+5		<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethylene	156-60-5	100 (A)	1,500 (X)	85,000	6.30E+6	2.3E+5		<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethylene (l)	75-35-4	7.0 (A)	130	200	2.25E+6	97,000		<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane (l)	78-87-5	5.0 (A)	230 (X)	16,000	2.80E+6	5.5E+5		<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	142-28-9	NLV	NLV	NLV	NLV	NLV		<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	594-20-7	NLV	NLV	NLV	NLV	NLV		<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	563-58-6	NLV	NLV	NLV	NLV	NLV		<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropene	542-75-6	8.5	9.0 (X)	3,900	2.80E+6	1.3E+5		<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropylene	10061-01-5	NLV	NLV	NLV	NLV	NLV		NS	NS	NS	NS
trans-1,3-Dichloropropylene	10061-02-6	NLV	NLV	NLV	NLV	NLV		NS	NS	NS	NS
Ethylbenzene (l)	100-41-4	74 (E)	18	1.1E+5	1.69E+5	43,000		<1.0	<1.0	<1.0	<1.0
Ethylene dibromide	106-93-4	0.05 (A)	5.7 (X)	2,400	4.20E+6	ID		<0.2	<0.2	<0.2	<0.2
2-Hexanone	591-78-6	1,000	ID	4.2E+6	1.60E+7	NA		<50.0	<50.0	<50.0	<50.0
Isopropyl benzene	98-82-8	800	28	56,000 (S)	56,000	29,000		<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK) (l)	108-10-1	1,800	ID	2.0E+7 (S)	2.00E+7	ID		<50.0	<50.0	<50.0	<50.0
Methylene chloride	75-09-2	5.0 (A)	1,500 (X)	2.2E+5	1.70E+7	ID		<5.0	<5.0	<5.0	<5.0
Methyl-tert-butyl ether (MTBE)	1634-04-4	40 (E)	7,100 (X)	4.7E+7 (S)	4.68E+7	ID		<5.0	<5.0	<5.0	<5.0
Naphthalene	91-20-3	520	11	31,000 (S)	31,000	NA		<5.0	<5.0	<5.0	<5.0
n-Propylbenzene (l)	103-65-1	80	ID	ID	NA	ID		<1.0	<1.0	<1.0	<1.0
Styrene	100-42-5	100 (A)	80 (X)	1.7E+5	3.10E+5	1.4E+5		<1.0	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	630-20-6	77	ID	15,000	1.10E+6	ID		<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	79-34-5	8.5	78 (X)	12,000	2.97E+6	ID		<1.0	<1.0	<1.0	<1.0
Tetrachloroethylene	127-18-4	5.0 (A)	60 (X)	25,000	2.0E+5	ID		<1.0	<1.0	<1.0	<1.0
Tetrahydrofuran	109-99-9	95	11,000 (X)	6.9E+6	1.0E+9	60,000		<90	<90	<90	<90
Toluene (l)	108-88-3	790 (E)	270	5.3E+5 (S)	5.26E+5	61,000		<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	87-61-6	NLV	NLV	NLV	NLV	NLV		<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	120-82-1	70 (A)	99 (X)	3.0E+5 (S)	3.00E+5	NA		<5.0	<5.0	<5.0	<5.0
1,1,1-Trichloroethane	71-55-6	200 (A)	89	6.6E+5	1.33E+6	ID		<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	79-00-5	5.0 (A)	330 (X)	17,000	4.42E+6	NA		<1.0	<1.0	<1.0	<1.0
Trichloroethylene	79-01-6	5.0 (A)	200 (X)	2,200	1.10E+6	ID		<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	75-69-4	2,600	NA	1.1E+6 (S)	1.10E+6	ID		<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	96-18-4	42	NA	8,300	1.90E+6	NA		<1.0	<1.0	<1.0	<1.0
1,2,3-Trimethylbenzene	526-73-8	NLV	NLV	NLV	NLV	NLV		<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene (l)	95-63-6	63 (E)	17	56,000 (S)	55,890	56,000 (S)		<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene (l)	108-67-8	72 (E)	45	61,000 (S)	61,150	ID		<1.0	<1.0	<1.0	<1.0
Vinyl acetate (l)	108-05-4	640	NA	4.1E+6	2.00E+7	1.8E+6		<100	<100	<100	<100
Vinyl chloride	75-01-4	2.0 (A)	13 (X)	1,100	2.76E+6	33,000		<1.0	<1.0	<1.0	<1.0
Xylenes (l)	1330-20-7	280 (E)	49	1.9E+5 (S)	1.86E+5	70,000		<3.0	<3.0	<3.0	<3.0

ANALYTICAL REPORT

For: AKT Peerless
22725 Orchard Lake Rd
Farmington MI 48336

Report Number: 12960
Report Date: June 6, 2023
Project Name: Galloway Creek
Project Number: 13038f-4-20
Page: 1 of 62
248-615-1333 Fax: 248-615-1334

Attn: Mr. Brian Westhoff
Ms. Rachel Stenzel

Sample Description

Eight (8) samples reported to be Soil (4) and Water (4) and identified as "Galloway Creek", Auburn Hills, MI, 5/25/23, Grab and:

1. Location D, 9:20 (Water)
2. Location D, 9:26 (Soil)
3. Location B, 10:08 (Water)
4. Location B, 10:13 (Soil)
5. Location C, 10:52 (Water)
6. Location C, 10:56 (Soil)
7. Location A, 11:28 (Water)
8. Location A, 11:33 (Soil)

Analysis Requested

Chemical Analysis per SW-846 (SW) for:

1. Volatile Organic Compounds (VOC), Methods 8260B and 5035 (Soil)
2. Semi-Volatile Organic Compounds (SVOC), Method 8270C
3. Polychlorinated Biphenyls (PCB), Method 8082A
4. Pesticides, Method 8081B
5. Herbicides, Method 8151A
6. 10 Michigan Metals
 - a) Arsenic, Method 7010
 - b) Barium, Method 7010
 - c) Cadmium, Method 7010
 - d) Chromium, Method 7010
 - e) Copper, Method 7010
 - f) Lead, Method 7010
 - g) Mercury, Method 7470A (Water) or Method 7471B (Soil)
 - h) Selenium, Method 7010
 - i) Silver, Method 7010
 - j) Zinc, Method 7010
7. Hexavalent Chromium, Methods 7196 and 3060 (Soil)

Analytical Results

Sample Description:	Location D, 9:20, 5/25/23					
Laboratory ID:	12960-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
<i>Volatile Organic Compounds</i>						
Acetone	Not Detected	50	µg/L	05/26/23	BD	
Benzene	Not Detected	1	µg/L	05/26/23	BD	
Bromobenzene	Not Detected	1	µg/L	05/26/23	BD	
Bromochloromethane	Not Detected	1	µg/L	05/26/23	BD	
Bromodichloromethane	Not Detected	1	µg/L	05/26/23	BD	
Bromoform	Not Detected	1	µg/L	05/26/23	BD	
Bromomethane	Not Detected	5	µg/L	05/26/23	BD	
2-Butanone (MEK)	Not Detected	25	µg/L	05/26/23	BD	
n-Butylbenzene	Not Detected	1	µg/L	05/26/23	BD	
sec-Butylbenzene	Not Detected	1	µg/L	05/26/23	BD	
tert-Butylbenzene	Not Detected	1	µg/L	05/26/23	BD	
Carbon disulfide	Not Detected	5	µg/L	05/26/23	BD	
Carbon tetrachloride	Not Detected	1	µg/L	05/26/23	BD	
Chlorobenzene	Not Detected	1	µg/L	05/26/23	BD	
Chloroethane	Not Detected	5	µg/L	05/26/23	BD	
Chloroform	Not Detected	1	µg/L	05/26/23	BD	
Chloromethane	Not Detected	5	µg/L	05/26/23	BD	
2-Chlorotoluene	Not Detected	5	µg/L	05/26/23	BD	
4-Chlorotoluene	Not Detected	5	µg/L	05/26/23	BD	
Dibromochloromethane	Not Detected	5	µg/L	05/26/23	BD	
1,2-Dibromo-3-chloropropane	Not Detected	0.2	µg/L	05/26/23	BD	
Dibromomethane	Not Detected	5	µg/L	05/26/23	BD	
1,2-Dichlorobenzene	Not Detected	1	µg/L	05/26/23	BD	
1,3-Dichlorobenzene	Not Detected	1	µg/L	05/26/23	BD	
1,4-Dichlorobenzene	Not Detected	1	µg/L	05/26/23	BD	
Dichlorodifluoromethane	Not Detected	5	µg/L	05/26/23	BD	
1,1-Dichloroethane	Not Detected	1	µg/L	05/26/23	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	05/26/23	BD	
1,1-Dichloroethylene	Not Detected	1	µg/L	05/26/23	BD	
cis-1,2-Dichloroethylene	Not Detected	1	µg/L	05/26/23	BD	
trans-1,2-Dichloroethylene	Not Detected	1	µg/L	05/26/23	BD	
1,2-Dichloropropane	Not Detected	1	µg/L	05/26/23	BD	
1,3-Dichloropropane	Not Detected	1	µg/L	05/26/23	BD	
2,2-Dichloropropane	Not Detected	1	µg/L	05/26/23	BD	
1,1-Dichloropropene	Not Detected	1	µg/L	05/26/23	BD	
1,3-Dichloropropene	Not Detected	1	µg/L	05/26/23	BD	
<i>continued</i>						

Sample Description:		Location D, 9:20, 5/25/23				
Laboratory ID:	12960-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs, cont'd						
Ethylbenzene	Not Detected	1	µg/L	05/26/23	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	05/26/23	BD	
Hexachlorobutadiene	Not Detected	0.2	µg/L	05/26/23	BD	
2-Hexanone	Not Detected	50	µg/L	05/26/23	BD	
Isopropyl benzene	Not Detected	5	µg/L	05/26/23	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	50	µg/L	05/26/23	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	5	µg/L	05/26/23	BD	
Methylene chloride	Not Detected	5	µg/L	05/26/23	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	05/26/23	BD	
Naphthalene	Not Detected	5	µg/L	05/26/23	BD	
n-Propyl benzene	Not Detected	1	µg/L	05/26/23	BD	
Styrene	Not Detected	1	µg/L	05/26/23	BD	
1,1,1,2-Tetrachloroethane	Not Detected	1	µg/L	05/26/23	BD	
1,1,2,2-Tetrachloroethane	Not Detected	1	µg/L	05/26/23	BD	
Tetrachloroethylene	Not Detected	1	µg/L	05/26/23	BD	
Tetrahydrofuran	Not Detected	90	µg/L	05/26/23	BD	
Toluene	Not Detected	1	µg/L	05/26/23	BD	
1,2,3-Trichlorobenzene	Not Detected	5	µg/L	05/26/23	BD	
1,2,4-Trichlorobenzene	Not Detected	5	µg/L	05/26/23	BD	
1,1,1-Trichloroethane	Not Detected	1	µg/L	05/26/23	BD	
1,1,2-Trichloroethane	Not Detected	1	µg/L	05/26/23	BD	
Trichloroethylene	Not Detected	1	µg/L	05/26/23	BD	
Trichlorofluoromethane	Not Detected	1	µg/L	05/26/23	BD	
1,2,3-Trichloropropane	Not Detected	1	µg/L	05/26/23	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	05/26/23	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	05/26/23	BD	
Vinyl Acetate	Not Detected	100	µg/L	05/26/23	BD	
Vinyl chloride	Not Detected	1	µg/L	05/26/23	BD	
Xylene (Total)	Not Detected	3	µg/L	05/26/23	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	97.9%	-	% Recovery	05/26/23	BD	
Toluene-d8	105%	-	% Recovery	05/26/23	BD	
4-Bromofluorobenzene	99.8%	-	% Recovery	05/26/23	BD	
continued						

Sample Description:		Location D, 9:20, 5/25/23				
Laboratory ID:	12960-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Semi-Volatile Organic Cmpds			□□□			
Acenaphthene	Not Detected	5	µg/L	05/31/23	BD	
Acenaphthylene	Not Detected	5	µg/L	05/31/23	BD	
Aniline	Not Detected	4	µg/L	05/31/23	BD	
Anthracene	Not Detected	5	µg/L	05/31/23	BD	
Azobenzene	Not Detected	2	µg/L	05/31/23	BD	
Benzidine	Not Detected	2	µg/L	05/31/23	BD	
Benzo(a)anthracene	Not Detected	1	µg/L	05/31/23	BD	
Benzo(b)fluoranthene	Not Detected	1	µg/L	05/31/23	BD	
Benzo(k)fluoranthene	Not Detected	1	µg/L	05/31/23	BD	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	05/31/23	BD	
Benzo(a)pyrene	Not Detected	1	µg/L	05/31/23	BD	
Benzyl alcohol	Not Detected	50	µg/L	05/31/23	BD	
Bis(2-chloroethyl)ether	Not Detected	1	µg/L	05/31/23	BD	
Bis(2-chloroisopropyl)ether	Not Detected	5	µg/L	05/31/23	BD	
Bis(2-chloroethoxy)methane	Not Detected	5	µg/L	05/31/23	BD	
Bis(2-ethylhexyl)phthalate	Not Detected	5	µg/L	05/31/23	BD	
4-Bromophenyl phenyl ether	Not Detected	5	µg/L	05/31/23	BD	
Butyl benzyl phthalate	Not Detected	5	µg/L	05/31/23	BD	
Carbazole	Not Detected	10	µg/L	05/31/23	BD	
4-Chloroaniline	Not Detected	10	µg/L	05/31/23	BD	
4-Chloro-3-methylphenol	Not Detected	5	µg/L	05/31/23	BD	
2-Chloronaphthalene (beta)	Not Detected	5	µg/L	05/31/23	BD	
2-Chlorophenol	Not Detected	10	µg/L	05/31/23	BD	
4-Chlorophenyl phenyl ether	Not Detected	5	µg/L	05/31/23	BD	
Chrysene	Not Detected	1	µg/L	05/31/23	BD	
Di-n-butylphthalate	Not Detected	5	µg/L	05/31/23	BD	
Di-n-octyl phthalate	Not Detected	5	µg/L	05/31/23	BD	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	05/31/23	BD	
Dibenzofuran	Not Detected	4	µg/L	05/31/23	BD	
3,3'-Dichlorobenzidine	Not Detected	2	µg/L	05/31/23	BD	
2,4-Dichlorophenol	Not Detected	10	µg/L	05/31/23	BD	
Diethylphthalate	Not Detected	5	µg/L	05/31/23	BD	
Dimethyl phthalate	Not Detected	5	µg/L	05/31/23	BD	
2,4-Dimethylphenol	Not Detected	5	µg/L	05/31/23	BD	
2,4-Dinitrophenol	Not Detected	25	µg/L	05/31/23	BD	
2,4-Dinitrotoluene	Not Detected	5	µg/L	05/31/23	BD	
2,6-Dinitrotoluene	Not Detected	5	µg/L	05/31/23	BD	
continued						

Sample Description:	Location D, 9:20, 5/25/23					
Laboratory ID:	12960-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
SVOCs, cont'd			□□□			
Fluoranthene	Not Detected	1	µg/L	05/31/23	BD	
Fluorene	Not Detected	5	µg/L	05/31/23	BD	
Hexachlorobenzene	Not Detected	1	µg/L	05/31/23	BD	
Hexachlorocyclopentadiene	Not Detected	5	µg/L	05/31/23	BD	
Hexachloroethane	Not Detected	5	µg/L	05/31/23	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	05/31/23	BD	
Isophorone	Not Detected	5	µg/L	05/31/23	BD	
2-Methyl-4,6-Dinitrophenol	Not Detected	20	µg/L	05/31/23	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	05/31/23	BD	
2-Methylphenol	Not Detected	10	µg/L	05/31/23	BD	
4-Methylphenol	Not Detected	10	µg/L	05/31/23	BD	
Methylphenols (total)	Not Detected	30	µg/L	05/31/23	BD	
Naphthalene	Not Detected	5	µg/L	05/31/23	BD	
2-Nitroaniline	Not Detected	25	µg/L	05/31/23	BD	
3-Nitroaniline	Not Detected	25	µg/L	05/31/23	BD	
4-Nitroaniline	Not Detected	25	µg/L	05/31/23	BD	
Nitrobenzene	Not Detected	3	µg/L	05/31/23	BD	
2-Nitrophenol	Not Detected	5	µg/L	05/31/23	BD	
4-Nitrophenol	Not Detected	25	µg/L	05/31/23	BD	
N-Nitrosodi-n-propylamine	Not Detected	5	µg/L	05/31/23	BD	
N-Nitrosodiphenylamine	Not Detected	5	µg/L	05/31/23	BD	
Pentachlorophenol	Not Detected	1	µg/L	05/31/23	BD	
Phenanthrene	Not Detected	2	µg/L	05/31/23	BD	
Phenol	Not Detected	5	µg/L	05/31/23	BD	
Pyrene	Not Detected	5	µg/L	05/31/23	BD	
Pyridine	Not Detected	20	µg/L	05/31/23	BD	
2,4,5-Trichlorophenol	Not Detected	5	µg/L	05/31/23	BD	
2,4,6-Trichlorophenol	Not Detected	4	µg/L	05/31/23	BD	
Surrogate Standards						
2-Fluorophenol	59.0%	-	% Recovery	05/31/23	BD	
Phenol-d5	49.0%	-	% Recovery	05/31/23	BD	
Nitrobenzene-d5	63.0%	-	% Recovery	05/31/23	BD	
2-Fluorobiphenyl	54.4%	-	% Recovery	05/31/23	BD	
2,4,6-Tribromophenol	84.4%	-	% Recovery	05/31/23	BD	
Terphenyl-d14	69.7%	-	% Recovery	05/31/23	BD	
continued						

Sample Description:	Location D, 9:20, 5/25/23					
Laboratory ID:	12960-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PCBs						
Aroclor 1016	Not Detected	0.2	µg/L	05/31/23	DS	
Aroclor 1221	Not Detected	0.2	µg/L	05/31/23	DS	
Aroclor 1232	Not Detected	0.2	µg/L	05/31/23	DS	
Aroclor 1242	Not Detected	0.2	µg/L	05/31/23	DS	
Aroclor 1248	Not Detected	0.2	µg/L	05/31/23	DS	
Aroclor 1254	Not Detected	0.2	µg/L	05/31/23	DS	
Aroclor 1260	Not Detected	0.2	µg/L	05/31/23	DS	
Polychlorinated biphenyls (Total)	Not Detected	2	µg/L	05/31/23	DS	
Surrogate Standards						
Tetrachloro-m-xylene	63.5%	-	% Recovery	05/31/23	DS	
Decachlorobiphenyl	70.9%	-	% Recovery	05/31/23	DS	
Herbicides						
2,4-D	Not Detected	10	µg/L	06/01/23	DS	
2,4-DB	Not Detected	10	µg/L	06/01/23	DS	
2,4,5-TP (Silvex)	Not Detected	30	µg/L	06/01/23	DS	
2,4,5-T	Not Detected	10	µg/L	06/01/23	DS	
Dalapon	Not Detected	10	µg/L	06/01/23	DS	
Dicamba	Not Detected	1	µg/L	06/01/23	DS	
Dichloroprop	Not Detected	10	µg/L	06/01/23	DS	
Dinoseb	Not Detected	1	µg/L	06/01/23	DS	
MCPA	Not Detected	8,000	µg/L	06/01/23	DS	E, C
MCPP	Not Detected	30,000	µg/L	06/01/23	DS	E, C
Surrogate Standards						
DCPAA	89.3%	-	% Recovery	06/01/23	DS	
<i>continued</i>						

Sample Description:	Location D, 9:20, 5/25/23					
Laboratory ID:	12960-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Pesticides						
Aldrin	Not Detected	0.01	µg/L	05/31/23	DS	
Chlordane	Not Detected	0.05	µg/L	05/31/23	DS	
4,4'-DDD	Not Detected	0.1	µg/L	05/31/23	DS	
4,4'-DDE	Not Detected	0.1	µg/L	05/31/23	DS	
4,4'-DDT	Not Detected	0.02	µg/L	05/31/23	DS	
Dieldrin	Not Detected	0.02	µg/L	05/31/23	DS	
Endosulfan-alpha	Not Detected	0.015	µg/L	05/31/23	DS	
Endosulfan-beta	Not Detected	0.015	µg/L	05/31/23	DS	
Endosulfan (Total)	Not Detected	0.03	µg/L	05/31/23	DS	
Endosulfan sulfate	Not Detected	0.05	µg/L	05/31/23	DS	
Endrin	Not Detected	0.02	µg/L	05/31/23	DS	
Endrin aldehyde	Not Detected	0.02	µg/L	05/31/23	DS	
Heptachlor	Not Detected	0.01	µg/L	05/31/23	DS	
Heptachlor Epoxide	Not Detected	0.01	µg/L	05/31/23	DS	
alpha-Hexachlorocyclohexane	Not Detected	0.05	µg/L	05/31/23	DS	
beta-Hexachlorocyclohexane	Not Detected	0.02	µg/L	05/31/23	DS	
delta-Hexachlorocyclohexane	Not Detected	0.01	µg/L	05/31/23	DS	
Lindane	Not Detected	0.03	µg/L	05/31/23	DS	
Methoxychlor	Not Detected	0.5	µg/L	05/31/23	DS	
Toxaphene	Not Detected	1	µg/L	05/31/23	DS	
Surrogate Standards			□□□			
Tetrachloro-m-xylene	65.7%	-	% Recovery	05/31/23	DS	
Decachlorobiphenyl	67.5%	-	% Recovery	05/31/23	DS	
continued						

Sample Description:		Location D, 9:20, 5/25/23				
Laboratory ID:	12960-1	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Metals						
Arsenic	Not Detected	5	µg/L	05/30/23	DS	
Barium	408	100	µg/L	05/31/23	DS	
Cadmium	Not Detected	1	µg/L	05/30/23	DS	
Chromium	Not Detected	5	µg/L	05/30/23	DS	
Hexavalent Chromium	Not Detected	10	µg/L	05/25/23	LB	
Copper	4	4	µg/L	05/30/23	DS	
Lead	9	3	µg/L	05/30/23	DS	
Mercury	Not Detected	0.2	µg/L	06/01/23	DS	
Selenium	Not Detected	5	µg/L	05/31/23	DS	
Silver	Not Detected	0.2	µg/L	05/30/23	DS	
Zinc	Not Detected	50	µg/L	05/30/23	DS	
Analysis Information						
SVOC Extraction	Completed	-	-	05/31/23	LB/MR	
PCB Extraction	Completed	-	-	05/26/23	LB	
Pesticide Extraction	Completed	-	-	05/31/23	LB	
Herbicide Extraction	Completed	-	-	06/01/23	LB/DS	
Mercury Digestion	Completed	-	-	05/31/23	LB/DS	
Metals Digestion	Completed	-	-	05/30/23	LB	

Sample Description:		Location D, 9:26, 5/25/23				
Laboratory ID:	12960-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
<i>Volatile Organic Compounds</i>						
Acetone	Not Detected	1,000	µg/Kg, dry wt.	05/26/23	BD	
Benzene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Bromobenzene	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
Bromochloromethane	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
Bromodichloromethane	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
Bromoform	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
Bromomethane	Not Detected	200	µg/Kg, dry wt.	05/26/23	BD	
2-Butanone (MEK)	Not Detected	750	µg/Kg, dry wt.	05/26/23	BD	
n-Butylbenzene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
sec-Butylbenzene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
tert-Butylbenzene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Carbon disulfide	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
Carbon tetrachloride	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Chlorobenzene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Chloroethane	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
Chloroform	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Chloromethane	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
2-Chlorotoluene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
4-Chlorotoluene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Dibromochloromethane	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	µg/Kg, dry wt.	05/26/23	BD	
Dibromomethane	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
1,2-Dichlorobenzene	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
1,3-Dichlorobenzene	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
1,4-Dichlorobenzene	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
Dichlorodifluoromethane	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
1,1-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
1,1-Dichloroethylene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
cis-1,2-Dichloroethylene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
trans-1,2-Dichloroethylene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
1,2-Dichloropropane	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
1,3-Dichloropropane	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
2,2-Dichloropropane	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
1,1-Dichloropropene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
1,3-Dichloropropene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
<i>continued</i>						

Sample Description:		Location D, 9:26, 5/25/23				
Laboratory ID:	12960-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs, cont'd						
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	05/26/23	BD	
Hexachlorobutadiene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
2-Hexanone	Not Detected	2,500	µg/Kg, dry wt.	05/26/23	BD	
Isopropyl benzene	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	µg/Kg, dry wt.	05/26/23	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
Methylene chloride	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
n-Propylbenzene	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
Styrene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Tetrachloroethylene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Tetrahydrofuran	Not Detected	1,000	µg/Kg, dry wt.	05/26/23	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
1,2,3-Trichlorobenzene	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
1,2,4-Trichlorobenzene	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
1,1,1-Trichloroethane	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
1,1,2-Trichloroethane	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Trichloroethylene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Trichlorofluoromethane	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
1,2,3-Trichloropropane	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
Vinyl Acetate	Not Detected	5,000	µg/Kg, dry wt.	05/26/23	BD	
Vinyl Chloride	Not Detected	40	µg/Kg, dry wt.	05/26/23	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	05/26/23	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	93.0%	-	% Recovery	05/26/23	BD	
Toluene-d8	105%	-	% Recovery	05/26/23	BD	
4-Bromofluorobenzene	101%	-	% Recovery	05/26/23	BD	
continued						

Sample Description:	Location D, 9:26, 5/25/23					
Laboratory ID:	12960-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
<i>Semi-Volatile Organic Cmpds</i>						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Aniline	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Anthracene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Azobenzene	Not Detected	200	µg/Kg, dry wt.	05/31/23	BD	
Benzydine	Not Detected	1,000	µg/Kg, dry wt.	05/31/23	BD	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Benzyl alcohol	Not Detected	3,300	µg/Kg, dry wt.	05/31/23	BD	
Bis(2-chloroethyl)ether	Not Detected	100	µg/Kg, dry wt.	05/31/23	BD	
Bis(2-chloroisopropyl)ether	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Bis(2-chloroethoxy)methane	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Bis(2-ethylhexyl)phthalate	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
4-Bromophenyl phenyl ether	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Butyl benzyl phthalate	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Carbazole	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
4-Chloroaniline	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
4-Chloro-3-methylphenol	Not Detected	280	µg/Kg, dry wt.	05/31/23	BD	
2-Chloronaphthalene (beta)	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2-Chlorophenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
4-Chlorophenyl phenyl ether	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Chrysene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Di-n-butylphthalate	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Di-n-octyl phthalate	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Dibenzofuran	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
3,3'-Dichlorobenzidine	Not Detected	2,000	µg/Kg, dry wt.	05/31/23	BD	
2,4-Dichlorophenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Diethylphthalate	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Dimethyl phthalate	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2,4-Dimethylphenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2,4-Dinitrophenol	Not Detected	830	µg/Kg, dry wt.	05/31/23	BD	
2,4-Dinitrotoluene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2,6-Dinitrotoluene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
<i>continued</i>						

Sample Description:		Location D, 9:26, 5/25/23				
Laboratory ID:	12960-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
SVOCs, cont'd						
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Fluorene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Hexachlorobenzene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Hexachlorocyclopentadiene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Hexachloroethane	Not Detected	300	µg/Kg, dry wt.	05/31/23	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Isophorone	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2-Methyl-4,6-Dinitrophenol	Not Detected	830	µg/Kg, dry wt.	05/31/23	BD	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2-Methylphenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
4-Methylphenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Methylphenols (total)	Not Detected	1,000	µg/Kg, dry wt.	05/31/23	BD	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2-Nitroaniline	Not Detected	830	µg/Kg, dry wt.	05/31/23	BD	
3-Nitroaniline	Not Detected	830	µg/Kg, dry wt.	05/31/23	BD	
4-Nitroaniline	Not Detected	830	µg/Kg, dry wt.	05/31/23	BD	
Nitrobenzene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2-Nitrophenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
4-Nitrophenol	Not Detected	830	µg/Kg, dry wt.	05/31/23	BD	
N-Nitrosodi-n-propylamine	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
N-Nitrosodiphenylamine	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Pentachlorophenol	Not Detected	20	µg/Kg, dry wt.	05/31/23	BD	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Phenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Pyrene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Pyridine	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2,4,5-Trichlorophenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2,4,6-Trichlorophenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Surrogate Standards						
2-Fluorophenol	53.6%	-	% Recovery	05/31/23	BD	
Phenol-d5	54.9%	-	% Recovery	05/31/23	BD	
Nitrobenzene-d5	55.1%	-	% Recovery	05/31/23	BD	
2-Fluorobiphenyl	56.3%	-	% Recovery	05/31/23	BD	
2,4,6-Tribromophenol	61.3%	-	% Recovery	05/31/23	BD	
Terphenyl-d14	67.5%	-	% Recovery	05/31/23	BD	
continued						

Sample Description:		Location D, 9:26, 5/25/23				
Laboratory ID:	12960-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PCBs						
Aroclor 1016	Not Detected	100	µg/Kg, dry wt.	05/31/23	DS	
Aroclor 1221	Not Detected	100	µg/Kg, dry wt.	05/31/23	DS	
Aroclor 1232	Not Detected	100	µg/Kg, dry wt.	05/31/23	DS	
Aroclor 1242	Not Detected	100	µg/Kg, dry wt.	05/31/23	DS	
Aroclor 1248	Not Detected	100	µg/Kg, dry wt.	05/31/23	DS	
Aroclor 1254	Not Detected	100	µg/Kg, dry wt.	05/31/23	DS	
Aroclor 1260	Not Detected	100	µg/Kg, dry wt.	05/31/23	DS	
Polychlorinated biphenyls (Total)	Not Detected	700	µg/Kg, dry wt.	05/31/23	DS	
Surrogate Standards						
Tetrachloro-m-xylene	57.6%	-	% Recovery	05/31/23	DS	
Decachlorobiphenyl	60.8%	-	% Recovery	05/31/23	DS	
Herbicides						
2,4-D	Not Detected	200	µg/Kg, dry wt.	06/01/23	DS	
2,4-DB	Not Detected	200	µg/Kg, dry wt.	06/01/23	DS	
2,4,5-TP (Silvex)	Not Detected	300	µg/Kg, dry wt.	06/01/23	DS	
2,4,5-T	Not Detected	500	µg/Kg, dry wt.	06/01/23	DS	
Dalapon	Not Detected	500	µg/Kg, dry wt.	06/01/23	DS	
Dicamba	Not Detected	50	µg/Kg, dry wt.	06/01/23	DS	
Dichloroprop	Not Detected	50	µg/Kg, dry wt.	06/01/23	DS	
Dinoseb	Not Detected	200	µg/Kg, dry wt.	06/01/23	DS	
MCPA	Not Detected	5,000	µg/Kg, dry wt.	06/01/23	DS	
MCPP	Not Detected	5,000	µg/Kg, dry wt.	06/01/23	DS	
Surrogate Standards						
DCPAA	102%	-	% Recovery	06/01/23	DS	
<i>continued</i>						

Sample Description:		Location D, 9:26, 5/25/23				
Laboratory ID:	12960-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Pesticides						
Aldrin	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Chlordane	Not Detected	30	µg/Kg, dry wt.	05/31/23	DS	
4,4'-DDD	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
4,4'-DDE	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
4,4'-DDT	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Dieldrin	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Endosulfan-alpha	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Endosulfan-beta	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Endosulfan (Total)	Not Detected	40	µg/Kg, dry wt.	05/31/23	DS	
Endosulfan sulfate	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Endrin	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Endrin aldehyde	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Heptachlor	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Heptachlor Epoxide	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
alpha-Hexachlorocyclohexane	Not Detected	10	µg/Kg, dry wt.	05/31/23	DS	
beta-Hexachlorocyclohexane	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
delta-Hexachlorocyclohexane	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Lindane	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Methoxychlor	Not Detected	50	µg/Kg, dry wt.	05/31/23	DS	
Toxaphene	Not Detected	170	µg/Kg, dry wt.	05/31/23	DS	
Surrogate Standards						
Tetrachloro-m-xylene	63.2%	-	% Recovery	05/31/23	DS	
Decachlorobiphenyl	68.2%	-	% Recovery	05/31/23	DS	
continued						

Sample Description:	Location D, 9:26, 5/25/23					
Laboratory ID:	12960-2	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Metals						
Arsenic	1,750	100	µg/Kg, dry wt.	05/30/23	DS	
Barium	71,800	1,000	µg/Kg, dry wt.	05/31/23	DS	
Cadmium	Not Detected	200	µg/Kg, dry wt.	05/30/23	DS	
Chromium	Not Detected	2,000	µg/Kg, dry wt.	05/30/23	DS	
Hexavalent Chromium	Not Detected	2,000	µg/Kg, dry wt.	05/25/23	LB	
Copper	1,240	1,000	µg/Kg, dry wt.	05/30/23	DS	
Lead	1,530	1,000	µg/Kg, dry wt.	05/30/23	DS	
Mercury	Not Detected	50	µg/Kg, dry wt.	06/01/23	DS	
Selenium	Not Detected	200	µg/Kg, dry wt.	05/31/23	DS	
Silver	Not Detected	100	µg/Kg, dry wt.	05/30/23	DS	
Zinc	9,200	1,000	µg/Kg, dry wt.	05/30/23	DS	
Analysis Information						
Dry Weight Solids	83.7%	-	% by weight	05/25/23	LB	
SVOC Extraction	Completed	-	-	05/25/23	LB	
PCB Extraction	Completed	-	-	05/31/23	LB/MR	
Pesticide Extraction	Completed	-	-	05/31/23	LB/MR	
Herbicide Extraction	Completed	-	-	06/01/23	LB/DS	
Mercury Digestion	Completed	-	-	05/31/23	LB/MR	
Metals Digestion	Completed	-	-	05/30/23	LB	

Sample Description:		Location B, 10:08, 5/25/23				
Laboratory ID:	12960-3	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
<i>Volatile Organic Compounds</i>						
Acetone	Not Detected	50	µg/L	05/26/23	BD	
Benzene	Not Detected	1	µg/L	05/26/23	BD	
Bromobenzene	Not Detected	1	µg/L	05/26/23	BD	
Bromochloromethane	Not Detected	1	µg/L	05/26/23	BD	
Bromodichloromethane	Not Detected	1	µg/L	05/26/23	BD	
Bromoform	Not Detected	1	µg/L	05/26/23	BD	
Bromomethane	Not Detected	5	µg/L	05/26/23	BD	
2-Butanone (MEK)	Not Detected	25	µg/L	05/26/23	BD	
n-Butylbenzene	Not Detected	1	µg/L	05/26/23	BD	
sec-Butylbenzene	Not Detected	1	µg/L	05/26/23	BD	
tert-Butylbenzene	Not Detected	1	µg/L	05/26/23	BD	
Carbon disulfide	Not Detected	5	µg/L	05/26/23	BD	
Carbon tetrachloride	Not Detected	1	µg/L	05/26/23	BD	
Chlorobenzene	Not Detected	1	µg/L	05/26/23	BD	
Chloroethane	Not Detected	5	µg/L	05/26/23	BD	
Chloroform	Not Detected	1	µg/L	05/26/23	BD	
Chloromethane	Not Detected	5	µg/L	05/26/23	BD	
2-Chlorotoluene	Not Detected	5	µg/L	05/26/23	BD	
4-Chlorotoluene	Not Detected	5	µg/L	05/26/23	BD	
Dibromochloromethane	Not Detected	5	µg/L	05/26/23	BD	
1,2-Dibromo-3-chloropropane	Not Detected	0.2	µg/L	05/26/23	BD	
Dibromomethane	Not Detected	5	µg/L	05/26/23	BD	
1,2-Dichlorobenzene	Not Detected	1	µg/L	05/26/23	BD	
1,3-Dichlorobenzene	Not Detected	1	µg/L	05/26/23	BD	
1,4-Dichlorobenzene	Not Detected	1	µg/L	05/26/23	BD	
Dichlorodifluoromethane	Not Detected	5	µg/L	05/26/23	BD	
1,1-Dichloroethane	Not Detected	1	µg/L	05/26/23	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	05/26/23	BD	
1,1-Dichloroethylene	Not Detected	1	µg/L	05/26/23	BD	
cis-1,2-Dichloroethylene	Not Detected	1	µg/L	05/26/23	BD	
trans-1,2-Dichloroethylene	Not Detected	1	µg/L	05/26/23	BD	
1,2-Dichloropropane	Not Detected	1	µg/L	05/26/23	BD	
1,3-Dichloropropane	Not Detected	1	µg/L	05/26/23	BD	
2,2-Dichloropropane	Not Detected	1	µg/L	05/26/23	BD	
1,1-Dichloropropene	Not Detected	1	µg/L	05/26/23	BD	
1,3-Dichloropropene	Not Detected	1	µg/L	05/26/23	BD	
<i>continued</i>						

Sample Description:		Location B, 10:08, 5/25/23				
Laboratory ID:	12960-3	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs, cont'd						
Ethylbenzene	Not Detected	1	µg/L	05/26/23	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	05/26/23	BD	
Hexachlorobutadiene	Not Detected	0.2	µg/L	05/26/23	BD	
2-Hexanone	Not Detected	50	µg/L	05/26/23	BD	
Isopropyl benzene	Not Detected	5	µg/L	05/26/23	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	50	µg/L	05/26/23	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	5	µg/L	05/26/23	BD	
Methylene chloride	Not Detected	5	µg/L	05/26/23	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	05/26/23	BD	
Naphthalene	Not Detected	5	µg/L	05/26/23	BD	
n-Propyl benzene	Not Detected	1	µg/L	05/26/23	BD	
Styrene	Not Detected	1	µg/L	05/26/23	BD	
1,1,1,2-Tetrachloroethane	Not Detected	1	µg/L	05/26/23	BD	
1,1,2,2-Tetrachloroethane	Not Detected	1	µg/L	05/26/23	BD	
Tetrachloroethylene	Not Detected	1	µg/L	05/26/23	BD	
Tetrahydrofuran	Not Detected	90	µg/L	05/26/23	BD	
Toluene	Not Detected	1	µg/L	05/26/23	BD	
1,2,3-Trichlorobenzene	Not Detected	5	µg/L	05/26/23	BD	
1,2,4-Trichlorobenzene	Not Detected	5	µg/L	05/26/23	BD	
1,1,1-Trichloroethane	Not Detected	1	µg/L	05/26/23	BD	
1,1,2-Trichloroethane	Not Detected	1	µg/L	05/26/23	BD	
Trichloroethylene	Not Detected	1	µg/L	05/26/23	BD	
Trichlorofluoromethane	Not Detected	1	µg/L	05/26/23	BD	
1,2,3-Trichloropropane	Not Detected	1	µg/L	05/26/23	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	05/26/23	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	05/26/23	BD	
Vinyl Acetate	Not Detected	100	µg/L	05/26/23	BD	
Vinyl chloride	Not Detected	1	µg/L	05/26/23	BD	
Xylene (Total)	Not Detected	3	µg/L	05/26/23	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	95.9%	-	% Recovery	05/26/23	BD	
Toluene-d8	105%	-	% Recovery	05/26/23	BD	
4-Bromofluorobenzene	99.9%	-	% Recovery	05/26/23	BD	
continued						

Sample Description:		Location B, 10:08, 5/25/23				
Laboratory ID:	12960-3	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Semi-Volatile Organic Cmpds			□□□			
Acenaphthene	Not Detected	5	µg/L	05/31/23	BD	
Acenaphthylene	Not Detected	5	µg/L	05/31/23	BD	
Aniline	Not Detected	4	µg/L	05/31/23	BD	
Anthracene	Not Detected	5	µg/L	05/31/23	BD	
Azobenzene	Not Detected	2	µg/L	05/31/23	BD	
Benzidine	Not Detected	2	µg/L	05/31/23	BD	
Benzo(a)anthracene	Not Detected	1	µg/L	05/31/23	BD	
Benzo(b)fluoranthene	Not Detected	1	µg/L	05/31/23	BD	
Benzo(k)fluoranthene	Not Detected	1	µg/L	05/31/23	BD	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	05/31/23	BD	
Benzo(a)pyrene	Not Detected	1	µg/L	05/31/23	BD	
Benzyl alcohol	Not Detected	50	µg/L	05/31/23	BD	
Bis(2-chloroethyl)ether	Not Detected	1	µg/L	05/31/23	BD	
Bis(2-chloroisopropyl)ether	Not Detected	5	µg/L	05/31/23	BD	
Bis(2-chloroethoxy)methane	Not Detected	5	µg/L	05/31/23	BD	
Bis(2-ethylhexyl)phthalate	Not Detected	5	µg/L	05/31/23	BD	
4-Bromophenyl phenyl ether	Not Detected	5	µg/L	05/31/23	BD	
Butyl benzyl phthalate	Not Detected	5	µg/L	05/31/23	BD	
Carbazole	Not Detected	10	µg/L	05/31/23	BD	
4-Chloroaniline	Not Detected	10	µg/L	05/31/23	BD	
4-Chloro-3-methylphenol	Not Detected	5	µg/L	05/31/23	BD	
2-Chloronaphthalene (beta)	Not Detected	5	µg/L	05/31/23	BD	
2-Chlorophenol	Not Detected	10	µg/L	05/31/23	BD	
4-Chlorophenyl phenyl ether	Not Detected	5	µg/L	05/31/23	BD	
Chrysene	Not Detected	1	µg/L	05/31/23	BD	
Di-n-butylphthalate	Not Detected	5	µg/L	05/31/23	BD	
Di-n-octyl phthalate	Not Detected	5	µg/L	05/31/23	BD	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	05/31/23	BD	
Dibenzofuran	Not Detected	4	µg/L	05/31/23	BD	
3,3'-Dichlorobenzidine	Not Detected	2	µg/L	05/31/23	BD	
2,4-Dichlorophenol	Not Detected	10	µg/L	05/31/23	BD	
Diethylphthalate	Not Detected	5	µg/L	05/31/23	BD	
Dimethyl phthalate	Not Detected	5	µg/L	05/31/23	BD	
2,4-Dimethylphenol	Not Detected	5	µg/L	05/31/23	BD	
2,4-Dinitrophenol	Not Detected	25	µg/L	05/31/23	BD	
2,4-Dinitrotoluene	Not Detected	5	µg/L	05/31/23	BD	
2,6-Dinitrotoluene	Not Detected	5	µg/L	05/31/23	BD	
continued						

Sample Description:	Location B, 10:08, 5/25/23					
Laboratory ID:	12960-3	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
SVOCs, cont'd			□□□			
Fluoranthene	Not Detected	1	µg/L	05/31/23	BD	
Fluorene	Not Detected	5	µg/L	05/31/23	BD	
Hexachlorobenzene	Not Detected	1	µg/L	05/31/23	BD	
Hexachlorocyclopentadiene	Not Detected	5	µg/L	05/31/23	BD	
Hexachloroethane	Not Detected	5	µg/L	05/31/23	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	05/31/23	BD	
Isophorone	Not Detected	5	µg/L	05/31/23	BD	
2-Methyl-4,6-Dinitrophenol	Not Detected	20	µg/L	05/31/23	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	05/31/23	BD	
2-Methylphenol	Not Detected	10	µg/L	05/31/23	BD	
4-Methylphenol	Not Detected	10	µg/L	05/31/23	BD	
Methylphenols (total)	Not Detected	30	µg/L	05/31/23	BD	
Naphthalene	Not Detected	5	µg/L	05/31/23	BD	
2-Nitroaniline	Not Detected	25	µg/L	05/31/23	BD	
3-Nitroaniline	Not Detected	25	µg/L	05/31/23	BD	
4-Nitroaniline	Not Detected	25	µg/L	05/31/23	BD	
Nitrobenzene	Not Detected	3	µg/L	05/31/23	BD	
2-Nitrophenol	Not Detected	5	µg/L	05/31/23	BD	
4-Nitrophenol	Not Detected	25	µg/L	05/31/23	BD	
N-Nitrosodi-n-propylamine	Not Detected	5	µg/L	05/31/23	BD	
N-Nitrosodiphenylamine	Not Detected	5	µg/L	05/31/23	BD	
Pentachlorophenol	Not Detected	1	µg/L	05/31/23	BD	
Phenanthrene	Not Detected	2	µg/L	05/31/23	BD	
Phenol	Not Detected	5	µg/L	05/31/23	BD	
Pyrene	Not Detected	5	µg/L	05/31/23	BD	
Pyridine	Not Detected	20	µg/L	05/31/23	BD	
2,4,5-Trichlorophenol	Not Detected	5	µg/L	05/31/23	BD	
2,4,6-Trichlorophenol	Not Detected	4	µg/L	05/31/23	BD	
Surrogate Standards						
2-Fluorophenol	63.5%	-	% Recovery	05/31/23	BD	
Phenol-d5	57.7%	-	% Recovery	05/31/23	BD	
Nitrobenzene-d5	77.5%	-	% Recovery	05/31/23	BD	
2-Fluorobiphenyl	68.6%	-	% Recovery	05/31/23	BD	
2,4,6-Tribromophenol	91.1%	-	% Recovery	05/31/23	BD	
Terphenyl-d14	90.6%	-	% Recovery	05/31/23	BD	
continued						

Sample Description:		Location B, 10:08, 5/25/23				
Laboratory ID:	12960-3	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PCBs						
Aroclor 1016	Not Detected	0.2	µg/L	05/31/23	DS	
Aroclor 1221	Not Detected	0.2	µg/L	05/31/23	DS	
Aroclor 1232	Not Detected	0.2	µg/L	05/31/23	DS	
Aroclor 1242	Not Detected	0.2	µg/L	05/31/23	DS	
Aroclor 1248	Not Detected	0.2	µg/L	05/31/23	DS	
Aroclor 1254	Not Detected	0.2	µg/L	05/31/23	DS	
Aroclor 1260	Not Detected	0.2	µg/L	05/31/23	DS	
Polychlorinated biphenyls (Total)	Not Detected	2	µg/L	05/31/23	DS	
Surrogate Standards						
Tetrachloro-m-xylene	61.1%	-	% Recovery	05/31/23	DS	
Decachlorobiphenyl	62.5%	-	% Recovery	05/31/23	DS	
Herbicides						
2,4-D	Not Detected	10	µg/L	06/01/23	DS	
2,4-DB	Not Detected	10	µg/L	06/01/23	DS	
2,4,5-TP (Silvex)	Not Detected	30	µg/L	06/01/23	DS	
2,4,5-T	Not Detected	10	µg/L	06/01/23	DS	
Dalapon	Not Detected	10	µg/L	06/01/23	DS	
Dicamba	Not Detected	1	µg/L	06/01/23	DS	
Dichloroprop	Not Detected	10	µg/L	06/01/23	DS	
Dinoseb	Not Detected	1	µg/L	06/01/23	DS	
MCPA	Not Detected	8,000	µg/L	06/01/23	DS	E, C
MCPP	Not Detected	30,000	µg/L	06/01/23	DS	E, C
Surrogate Standards						
DCPAA	96.4%	-	% Recovery	06/01/23	DS	
<i>continued</i>						

Sample Description:	Location B, 10:08, 5/25/23					
Laboratory ID:	12960-3	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Pesticides						
Aldrin	Not Detected	0.01	µg/L	05/31/23	DS	
Chlordane	Not Detected	0.05	µg/L	05/31/23	DS	
4,4'-DDD	Not Detected	0.1	µg/L	05/31/23	DS	
4,4'-DDE	Not Detected	0.1	µg/L	05/31/23	DS	
4,4'-DDT	Not Detected	0.02	µg/L	05/31/23	DS	
Dieldrin	Not Detected	0.02	µg/L	05/31/23	DS	
Endosulfan-alpha	Not Detected	0.015	µg/L	05/31/23	DS	
Endosulfan-beta	Not Detected	0.015	µg/L	05/31/23	DS	
Endosulfan (Total)	Not Detected	0.03	µg/L	05/31/23	DS	
Endosulfan sulfate	Not Detected	0.05	µg/L	05/31/23	DS	
Endrin	Not Detected	0.02	µg/L	05/31/23	DS	
Endrin aldehyde	Not Detected	0.02	µg/L	05/31/23	DS	
Heptachlor	Not Detected	0.01	µg/L	05/31/23	DS	
Heptachlor Epoxide	Not Detected	0.01	µg/L	05/31/23	DS	
alpha-Hexachlorocyclohexane	Not Detected	0.05	µg/L	05/31/23	DS	
beta-Hexachlorocyclohexane	Not Detected	0.02	µg/L	05/31/23	DS	
delta-Hexachlorocyclohexane	Not Detected	0.01	µg/L	05/31/23	DS	
Lindane	Not Detected	0.03	µg/L	05/31/23	DS	
Methoxychlor	Not Detected	0.5	µg/L	05/31/23	DS	
Toxaphene	Not Detected	1	µg/L	05/31/23	DS	
Surrogate Standards						
Tetrachloro-m-xylene	65.7%	-	% Recovery	05/31/23	DS	
Decachlorobiphenyl	69.8%	-	% Recovery	05/31/23	DS	
continued						

Sample Description:		Location B, 10:08, 5/25/23				
Laboratory ID:	12960-3	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Metals						
Arsenic	Not Detected	5	µg/L	05/30/23	DS	
Barium	449	100	µg/L	05/31/23	DS	
Cadmium	Not Detected	1	µg/L	05/30/23	DS	
Chromium	Not Detected	5	µg/L	05/30/23	DS	
Hexavalent Chromium	Not Detected	10	µg/L	05/25/23	LB	
Copper	5	4	µg/L	05/30/23	DS	
Lead	Not Detected	3	µg/L	05/30/23	DS	
Mercury	Not Detected	0.2	µg/L	06/01/23	DS	
Selenium	Not Detected	5	µg/L	05/31/23	DS	
Silver	Not Detected	0.2	µg/L	05/30/23	DS	
Zinc	Not Detected	50	µg/L	05/30/23	DS	
Analysis Information						
SVOC Extraction	Completed	-	-	05/31/23	LB/MR	
PCB Extraction	Completed	-	-	05/26/23	LB	
Pesticide Extraction	Completed	-	-	05/31/23	LB	
Herbicide Extraction	Completed	-	-	06/01/23	LB/DS	
Mercury Digestion	Completed	-	-	05/31/23	LB/DS	
Metals Digestion	Completed	-	-	05/30/23	LB	

Sample Description:		Location B, 10:13, 5/25/23				
Laboratory ID:	12960-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
<i>Volatile Organic Compounds</i>						
Acetone	Not Detected	1,000	µg/Kg, dry wt.	05/26/23	BD	
Benzene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Bromobenzene	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
Bromochloromethane	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
Bromodichloromethane	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
Bromoform	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
Bromomethane	Not Detected	200	µg/Kg, dry wt.	05/26/23	BD	
2-Butanone (MEK)	Not Detected	750	µg/Kg, dry wt.	05/26/23	BD	
n-Butylbenzene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
sec-Butylbenzene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
tert-Butylbenzene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Carbon disulfide	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
Carbon tetrachloride	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Chlorobenzene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Chloroethane	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
Chloroform	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Chloromethane	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
2-Chlorotoluene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
4-Chlorotoluene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Dibromochloromethane	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	µg/Kg, dry wt.	05/26/23	BD	
Dibromomethane	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
1,2-Dichlorobenzene	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
1,3-Dichlorobenzene	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
1,4-Dichlorobenzene	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
Dichlorodifluoromethane	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
1,1-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
1,1-Dichloroethylene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
cis-1,2-Dichloroethylene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
trans-1,2-Dichloroethylene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
1,2-Dichloropropane	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
1,3-Dichloropropane	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
2,2-Dichloropropane	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
1,1-Dichloropropene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
1,3-Dichloropropene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
<i>continued</i>						

Sample Description:		Location B, 10:13, 5/25/23				
Laboratory ID:	12960-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs, cont'd						
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	05/26/23	BD	
Hexachlorobutadiene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
2-Hexanone	Not Detected	2,500	µg/Kg, dry wt.	05/26/23	BD	
Isopropyl benzene	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	µg/Kg, dry wt.	05/26/23	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
Methylene chloride	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
n-Propylbenzene	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
Styrene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Tetrachloroethylene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Tetrahydrofuran	Not Detected	1,000	µg/Kg, dry wt.	05/26/23	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
1,2,3-Trichlorobenzene	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
1,2,4-Trichlorobenzene	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
1,1,1-Trichloroethane	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
1,1,2-Trichloroethane	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Trichloroethylene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Trichlorofluoromethane	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
1,2,3-Trichloropropane	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
Vinyl Acetate	Not Detected	5,000	µg/Kg, dry wt.	05/26/23	BD	
Vinyl Chloride	Not Detected	40	µg/Kg, dry wt.	05/26/23	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	05/26/23	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	93.9%	-	% Recovery	05/26/23	BD	
Toluene-d8	106%	-	% Recovery	05/26/23	BD	
4-Bromofluorobenzene	101%	-	% Recovery	05/26/23	BD	
continued						

Sample Description:		Location B, 10:13, 5/25/23				
Laboratory ID:	12960-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
<i>Semi-Volatile Organic Cmpds</i>						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Aniline	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Anthracene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Azobenzene	Not Detected	200	µg/Kg, dry wt.	05/31/23	BD	
Benzydine	Not Detected	1,000	µg/Kg, dry wt.	05/31/23	BD	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Benzyl alcohol	Not Detected	3,300	µg/Kg, dry wt.	05/31/23	BD	
Bis(2-chloroethyl)ether	Not Detected	100	µg/Kg, dry wt.	05/31/23	BD	
Bis(2-chloroisopropyl)ether	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Bis(2-chloroethoxy)methane	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Bis(2-ethylhexyl)phthalate	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
4-Bromophenyl phenyl ether	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Butyl benzyl phthalate	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Carbazole	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
4-Chloroaniline	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
4-Chloro-3-methylphenol	Not Detected	280	µg/Kg, dry wt.	05/31/23	BD	
2-Chloronaphthalene (beta)	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2-Chlorophenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
4-Chlorophenyl phenyl ether	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Chrysene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Di-n-butylphthalate	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Di-n-octyl phthalate	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Dibenzofuran	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
3,3'-Dichlorobenzidine	Not Detected	2,000	µg/Kg, dry wt.	05/31/23	BD	
2,4-Dichlorophenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Diethylphthalate	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Dimethyl phthalate	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2,4-Dimethylphenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2,4-Dinitrophenol	Not Detected	830	µg/Kg, dry wt.	05/31/23	BD	
2,4-Dinitrotoluene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2,6-Dinitrotoluene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
<i>continued</i>						

Sample Description:		Location B, 10:13, 5/25/23				
Laboratory ID:	12960-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
SVOCs, cont'd						
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Fluorene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Hexachlorobenzene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Hexachlorocyclopentadiene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Hexachloroethane	Not Detected	300	µg/Kg, dry wt.	05/31/23	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Isophorone	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2-Methyl-4,6-Dinitrophenol	Not Detected	830	µg/Kg, dry wt.	05/31/23	BD	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2-Methylphenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
4-Methylphenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Methylphenols (total)	Not Detected	1,000	µg/Kg, dry wt.	05/31/23	BD	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2-Nitroaniline	Not Detected	830	µg/Kg, dry wt.	05/31/23	BD	
3-Nitroaniline	Not Detected	830	µg/Kg, dry wt.	05/31/23	BD	
4-Nitroaniline	Not Detected	830	µg/Kg, dry wt.	05/31/23	BD	
Nitrobenzene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2-Nitrophenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
4-Nitrophenol	Not Detected	830	µg/Kg, dry wt.	05/31/23	BD	
N-Nitrosodi-n-propylamine	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
N-Nitrosodiphenylamine	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Pentachlorophenol	Not Detected	20	µg/Kg, dry wt.	05/31/23	BD	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Phenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Pyrene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Pyridine	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2,4,5-Trichlorophenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2,4,6-Trichlorophenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Surrogate Standards						
2-Fluorophenol	65.8%	-	% Recovery	05/31/23	BD	
Phenol-d5	67.1%	-	% Recovery	05/31/23	BD	
Nitrobenzene-d5	63.0%	-	% Recovery	05/31/23	BD	
2-Fluorobiphenyl	63.8%	-	% Recovery	05/31/23	BD	
2,4,6-Tribromophenol	71.9%	-	% Recovery	05/31/23	BD	
Terphenyl-d14	74.5%	-	% Recovery	05/31/23	BD	
continued						

Sample Description:		Location B, 10:13, 5/25/23				
Laboratory ID:	12960-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PCBs						
Aroclor 1016	Not Detected	100	µg/Kg, dry wt.	05/31/23	DS	
Aroclor 1221	Not Detected	100	µg/Kg, dry wt.	05/31/23	DS	
Aroclor 1232	Not Detected	100	µg/Kg, dry wt.	05/31/23	DS	
Aroclor 1242	Not Detected	100	µg/Kg, dry wt.	05/31/23	DS	
Aroclor 1248	Not Detected	100	µg/Kg, dry wt.	05/31/23	DS	
Aroclor 1254	Not Detected	100	µg/Kg, dry wt.	05/31/23	DS	
Aroclor 1260	Not Detected	100	µg/Kg, dry wt.	05/31/23	DS	
Polychlorinated biphenyls (Total)	Not Detected	700	µg/Kg, dry wt.	05/31/23	DS	
Surrogate Standards						
Tetrachloro-m-xylene	66.6%	-	% Recovery	05/31/23	DS	
Decachlorobiphenyl	71.1%	-	% Recovery	05/31/23	DS	
Herbicides						
2,4-D	Not Detected	200	µg/Kg, dry wt.	06/01/23	DS	
2,4-DB	Not Detected	200	µg/Kg, dry wt.	06/01/23	DS	
2,4,5-TP (Silvex)	Not Detected	300	µg/Kg, dry wt.	06/01/23	DS	
2,4,5-T	Not Detected	500	µg/Kg, dry wt.	06/01/23	DS	
Dalapon	Not Detected	500	µg/Kg, dry wt.	06/01/23	DS	
Dicamba	Not Detected	50	µg/Kg, dry wt.	06/01/23	DS	
Dichloroprop	Not Detected	50	µg/Kg, dry wt.	06/01/23	DS	
Dinoseb	Not Detected	200	µg/Kg, dry wt.	06/01/23	DS	
MCPA	Not Detected	5,000	µg/Kg, dry wt.	06/01/23	DS	
MCPP	Not Detected	5,000	µg/Kg, dry wt.	06/01/23	DS	
Surrogate Standards						
DCPAA	101%	-	% Recovery	06/01/23	DS	
<i>continued</i>						

Sample Description:		Location B, 10:13, 5/25/23				
Laboratory ID:	12960-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Pesticides						
Aldrin	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Chlordane	Not Detected	30	µg/Kg, dry wt.	05/31/23	DS	
4,4'-DDD	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
4,4'-DDE	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
4,4'-DDT	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Dieldrin	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Endosulfan-alpha	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Endosulfan-beta	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Endosulfan (Total)	Not Detected	40	µg/Kg, dry wt.	05/31/23	DS	
Endosulfan sulfate	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Endrin	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Endrin aldehyde	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Heptachlor	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Heptachlor Epoxide	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
alpha-Hexachlorocyclohexane	Not Detected	10	µg/Kg, dry wt.	05/31/23	DS	
beta-Hexachlorocyclohexane	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
delta-Hexachlorocyclohexane	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Lindane	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Methoxychlor	Not Detected	50	µg/Kg, dry wt.	05/31/23	DS	
Toxaphene	Not Detected	170	µg/Kg, dry wt.	05/31/23	DS	
Surrogate Standards						
Tetrachloro-m-xylene	74.0%	-	% Recovery	05/31/23	DS	
Decachlorobiphenyl	73.4%	-	% Recovery	05/31/23	DS	
continued						

Sample Description:	Location B, 10:13, 5/25/23					
Laboratory ID:	12960-4	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Metals						
Arsenic	2,480	100	µg/Kg, dry wt.	05/30/23	DS	
Barium	51,000	1,000	µg/Kg, dry wt.	05/31/23	DS	
Cadmium	Not Detected	200	µg/Kg, dry wt.	05/30/23	DS	
Chromium	4,140	2,000	µg/Kg, dry wt.	05/30/23	DS	
Hexavalent Chromium	Not Detected	2,000	µg/Kg, dry wt.	05/25/23	LB	
Copper	6,540	1,000	µg/Kg, dry wt.	05/30/23	DS	
Lead	4,450	1,000	µg/Kg, dry wt.	05/30/23	DS	
Mercury	Not Detected	50	µg/Kg, dry wt.	06/01/23	DS	
Selenium	Not Detected	200	µg/Kg, dry wt.	05/31/23	DS	
Silver	Not Detected	100	µg/Kg, dry wt.	05/30/23	DS	
Zinc	29,400	1,000	µg/Kg, dry wt.	05/30/23	DS	
Analysis Information						
Dry Weight Solids	71.9%	-	% by weight	05/25/23	LB	
SVOC Extraction	Completed	-	-	05/25/23	LB	
PCB Extraction	Completed	-	-	05/31/23	LB/MR	
Pesticide Extraction	Completed	-	-	05/31/23	LB/MR	
Herbicide Extraction	Completed	-	-	06/01/23	LB/DS	
Mercury Digestion	Completed	-	-	05/31/23	LB/MR	
Metals Digestion	Completed	-	-	05/30/23	LB	

Sample Description:		Location C, 10:52, 5/25/23				
Laboratory ID:	12960-5	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
<i>Volatile Organic Compounds</i>						
Acetone	Not Detected	50	µg/L	05/26/23	BD	
Benzene	Not Detected	1	µg/L	05/26/23	BD	
Bromobenzene	Not Detected	1	µg/L	05/26/23	BD	
Bromochloromethane	Not Detected	1	µg/L	05/26/23	BD	
Bromodichloromethane	Not Detected	1	µg/L	05/26/23	BD	
Bromoform	Not Detected	1	µg/L	05/26/23	BD	
Bromomethane	Not Detected	5	µg/L	05/26/23	BD	
2-Butanone (MEK)	Not Detected	25	µg/L	05/26/23	BD	
n-Butylbenzene	Not Detected	1	µg/L	05/26/23	BD	
sec-Butylbenzene	Not Detected	1	µg/L	05/26/23	BD	
tert-Butylbenzene	Not Detected	1	µg/L	05/26/23	BD	
Carbon disulfide	Not Detected	5	µg/L	05/26/23	BD	
Carbon tetrachloride	Not Detected	1	µg/L	05/26/23	BD	
Chlorobenzene	Not Detected	1	µg/L	05/26/23	BD	
Chloroethane	Not Detected	5	µg/L	05/26/23	BD	
Chloroform	Not Detected	1	µg/L	05/26/23	BD	
Chloromethane	Not Detected	5	µg/L	05/26/23	BD	
2-Chlorotoluene	Not Detected	5	µg/L	05/26/23	BD	
4-Chlorotoluene	Not Detected	5	µg/L	05/26/23	BD	
Dibromochloromethane	Not Detected	5	µg/L	05/26/23	BD	
1,2-Dibromo-3-chloropropane	Not Detected	0.2	µg/L	05/26/23	BD	
Dibromomethane	Not Detected	5	µg/L	05/26/23	BD	
1,2-Dichlorobenzene	Not Detected	1	µg/L	05/26/23	BD	
1,3-Dichlorobenzene	Not Detected	1	µg/L	05/26/23	BD	
1,4-Dichlorobenzene	Not Detected	1	µg/L	05/26/23	BD	
Dichlorodifluoromethane	Not Detected	5	µg/L	05/26/23	BD	
1,1-Dichloroethane	Not Detected	1	µg/L	05/26/23	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	05/26/23	BD	
1,1-Dichloroethylene	Not Detected	1	µg/L	05/26/23	BD	
cis-1,2-Dichloroethylene	Not Detected	1	µg/L	05/26/23	BD	
trans-1,2-Dichloroethylene	Not Detected	1	µg/L	05/26/23	BD	
1,2-Dichloropropane	Not Detected	1	µg/L	05/26/23	BD	
1,3-Dichloropropane	Not Detected	1	µg/L	05/26/23	BD	
2,2-Dichloropropane	Not Detected	1	µg/L	05/26/23	BD	
1,1-Dichloropropene	Not Detected	1	µg/L	05/26/23	BD	
1,3-Dichloropropene	Not Detected	1	µg/L	05/26/23	BD	
<i>continued</i>						

Sample Description:		Location C, 10:52, 5/25/23				
Laboratory ID:	12960-5	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs, cont'd						
Ethylbenzene	Not Detected	1	µg/L	05/26/23	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	05/26/23	BD	
Hexachlorobutadiene	Not Detected	0.2	µg/L	05/26/23	BD	
2-Hexanone	Not Detected	50	µg/L	05/26/23	BD	
Isopropyl benzene	Not Detected	5	µg/L	05/26/23	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	50	µg/L	05/26/23	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	5	µg/L	05/26/23	BD	
Methylene chloride	Not Detected	5	µg/L	05/26/23	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	05/26/23	BD	
Naphthalene	Not Detected	5	µg/L	05/26/23	BD	
n-Propyl benzene	Not Detected	1	µg/L	05/26/23	BD	
Styrene	Not Detected	1	µg/L	05/26/23	BD	
1,1,1,2-Tetrachloroethane	Not Detected	1	µg/L	05/26/23	BD	
1,1,2,2-Tetrachloroethane	Not Detected	1	µg/L	05/26/23	BD	
Tetrachloroethylene	Not Detected	1	µg/L	05/26/23	BD	
Tetrahydrofuran	Not Detected	90	µg/L	05/26/23	BD	
Toluene	Not Detected	1	µg/L	05/26/23	BD	
1,2,3-Trichlorobenzene	Not Detected	5	µg/L	05/26/23	BD	
1,2,4-Trichlorobenzene	Not Detected	5	µg/L	05/26/23	BD	
1,1,1-Trichloroethane	Not Detected	1	µg/L	05/26/23	BD	
1,1,2-Trichloroethane	Not Detected	1	µg/L	05/26/23	BD	
Trichloroethylene	Not Detected	1	µg/L	05/26/23	BD	
Trichlorofluoromethane	Not Detected	1	µg/L	05/26/23	BD	
1,2,3-Trichloropropane	Not Detected	1	µg/L	05/26/23	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	05/26/23	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	05/26/23	BD	
Vinyl Acetate	Not Detected	100	µg/L	05/26/23	BD	
Vinyl chloride	Not Detected	1	µg/L	05/26/23	BD	
Xylene (Total)	Not Detected	3	µg/L	05/26/23	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	96.7%	-	% Recovery	05/26/23	BD	
Toluene-d8	105%	-	% Recovery	05/26/23	BD	
4-Bromofluorobenzene	101%	-	% Recovery	05/26/23	BD	
continued						

Sample Description:		Location C, 10:52, 5/25/23				
Laboratory ID:	12960-5	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Semi-Volatile Organic Cmpds			□□□			
Acenaphthene	Not Detected	5	µg/L	05/31/23	BD	
Acenaphthylene	Not Detected	5	µg/L	05/31/23	BD	
Aniline	Not Detected	4	µg/L	05/31/23	BD	
Anthracene	Not Detected	5	µg/L	05/31/23	BD	
Azobenzene	Not Detected	2	µg/L	05/31/23	BD	
Benzidine	Not Detected	2	µg/L	05/31/23	BD	
Benzo(a)anthracene	Not Detected	1	µg/L	05/31/23	BD	
Benzo(b)fluoranthene	Not Detected	1	µg/L	05/31/23	BD	
Benzo(k)fluoranthene	Not Detected	1	µg/L	05/31/23	BD	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	05/31/23	BD	
Benzo(a)pyrene	Not Detected	1	µg/L	05/31/23	BD	
Benzyl alcohol	Not Detected	50	µg/L	05/31/23	BD	
Bis(2-chloroethyl)ether	Not Detected	1	µg/L	05/31/23	BD	
Bis(2-chloroisopropyl)ether	Not Detected	5	µg/L	05/31/23	BD	
Bis(2-chloroethoxy)methane	Not Detected	5	µg/L	05/31/23	BD	
Bis(2-ethylhexyl)phthalate	Not Detected	5	µg/L	05/31/23	BD	
4-Bromophenyl phenyl ether	Not Detected	5	µg/L	05/31/23	BD	
Butyl benzyl phthalate	Not Detected	5	µg/L	05/31/23	BD	
Carbazole	Not Detected	10	µg/L	05/31/23	BD	
4-Chloroaniline	Not Detected	10	µg/L	05/31/23	BD	
4-Chloro-3-methylphenol	Not Detected	5	µg/L	05/31/23	BD	
2-Chloronaphthalene (beta)	Not Detected	5	µg/L	05/31/23	BD	
2-Chlorophenol	Not Detected	10	µg/L	05/31/23	BD	
4-Chlorophenyl phenyl ether	Not Detected	5	µg/L	05/31/23	BD	
Chrysene	Not Detected	1	µg/L	05/31/23	BD	
Di-n-butylphthalate	Not Detected	5	µg/L	05/31/23	BD	
Di-n-octyl phthalate	Not Detected	5	µg/L	05/31/23	BD	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	05/31/23	BD	
Dibenzofuran	Not Detected	4	µg/L	05/31/23	BD	
3,3'-Dichlorobenzidine	Not Detected	2	µg/L	05/31/23	BD	
2,4-Dichlorophenol	Not Detected	10	µg/L	05/31/23	BD	
Diethylphthalate	Not Detected	5	µg/L	05/31/23	BD	
Dimethyl phthalate	Not Detected	5	µg/L	05/31/23	BD	
2,4-Dimethylphenol	Not Detected	5	µg/L	05/31/23	BD	
2,4-Dinitrophenol	Not Detected	25	µg/L	05/31/23	BD	
2,4-Dinitrotoluene	Not Detected	5	µg/L	05/31/23	BD	
2,6-Dinitrotoluene	Not Detected	5	µg/L	05/31/23	BD	
continued						

Sample Description:	Location C, 10:52, 5/25/23					
Laboratory ID:	12960-5	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
SVOCs, cont'd			□□□			
Fluoranthene	Not Detected	1	µg/L	05/31/23	BD	
Fluorene	Not Detected	5	µg/L	05/31/23	BD	
Hexachlorobenzene	Not Detected	1	µg/L	05/31/23	BD	
Hexachlorocyclopentadiene	Not Detected	5	µg/L	05/31/23	BD	
Hexachloroethane	Not Detected	5	µg/L	05/31/23	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	05/31/23	BD	
Isophorone	Not Detected	5	µg/L	05/31/23	BD	
2-Methyl-4,6-Dinitrophenol	Not Detected	20	µg/L	05/31/23	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	05/31/23	BD	
2-Methylphenol	Not Detected	10	µg/L	05/31/23	BD	
4-Methylphenol	Not Detected	10	µg/L	05/31/23	BD	
Methylphenols (total)	Not Detected	30	µg/L	05/31/23	BD	
Naphthalene	Not Detected	5	µg/L	05/31/23	BD	
2-Nitroaniline	Not Detected	25	µg/L	05/31/23	BD	
3-Nitroaniline	Not Detected	25	µg/L	05/31/23	BD	
4-Nitroaniline	Not Detected	25	µg/L	05/31/23	BD	
Nitrobenzene	Not Detected	3	µg/L	05/31/23	BD	
2-Nitrophenol	Not Detected	5	µg/L	05/31/23	BD	
4-Nitrophenol	Not Detected	25	µg/L	05/31/23	BD	
N-Nitrosodi-n-propylamine	Not Detected	5	µg/L	05/31/23	BD	
N-Nitrosodiphenylamine	Not Detected	5	µg/L	05/31/23	BD	
Pentachlorophenol	Not Detected	1	µg/L	05/31/23	BD	
Phenanthrene	Not Detected	2	µg/L	05/31/23	BD	
Phenol	Not Detected	5	µg/L	05/31/23	BD	
Pyrene	Not Detected	5	µg/L	05/31/23	BD	
Pyridine	Not Detected	20	µg/L	05/31/23	BD	
2,4,5-Trichlorophenol	Not Detected	5	µg/L	05/31/23	BD	
2,4,6-Trichlorophenol	Not Detected	4	µg/L	05/31/23	BD	
Surrogate Standards						
2-Fluorophenol	54.5%	-	% Recovery	05/31/23	BD	
Phenol-d5	48.1%	-	% Recovery	05/31/23	BD	
Nitrobenzene-d5	68.5%	-	% Recovery	05/31/23	BD	
2-Fluorobiphenyl	66.2%	-	% Recovery	05/31/23	BD	
2,4,6-Tribromophenol	88.7%	-	% Recovery	05/31/23	BD	
Terphenyl-d14	84.6%	-	% Recovery	05/31/23	BD	
continued						

Sample Description:		Location C, 10:52, 5/25/23				
Laboratory ID:	12960-5	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PCBs						
Aroclor 1016	Not Detected	0.2	µg/L	05/31/23	DS	
Aroclor 1221	Not Detected	0.2	µg/L	05/31/23	DS	
Aroclor 1232	Not Detected	0.2	µg/L	05/31/23	DS	
Aroclor 1242	Not Detected	0.2	µg/L	05/31/23	DS	
Aroclor 1248	Not Detected	0.2	µg/L	05/31/23	DS	
Aroclor 1254	Not Detected	0.2	µg/L	05/31/23	DS	
Aroclor 1260	Not Detected	0.2	µg/L	05/31/23	DS	
Polychlorinated biphenyls (Total)	Not Detected	2	µg/L	05/31/23	DS	
Surrogate Standards						
Tetrachloro-m-xylene	56.5%	-	% Recovery	05/31/23	DS	
Decachlorobiphenyl	62.3%	-	% Recovery	05/31/23	DS	
Herbicides						
2,4-D	Not Detected	10	µg/L	06/01/23	DS	
2,4-DB	Not Detected	10	µg/L	06/01/23	DS	
2,4,5-TP (Silvex)	Not Detected	30	µg/L	06/01/23	DS	
2,4,5-T	Not Detected	10	µg/L	06/01/23	DS	
Dalapon	Not Detected	10	µg/L	06/01/23	DS	
Dicamba	Not Detected	1	µg/L	06/01/23	DS	
Dichloroprop	Not Detected	10	µg/L	06/01/23	DS	
Dinoseb	Not Detected	1	µg/L	06/01/23	DS	
MCPA	Not Detected	8,000	µg/L	06/01/23	DS	E, C
MCPP	Not Detected	30,000	µg/L	06/01/23	DS	E, C
Surrogate Standards						
DCPAA	95.9%	-	% Recovery	06/01/23	DS	
<i>continued</i>						

Sample Description:	Location C, 10:52, 5/25/23					
Laboratory ID:	12960-5	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Pesticides						
Aldrin	Not Detected	0.01	µg/L	05/31/23	DS	
Chlordane	Not Detected	0.05	µg/L	05/31/23	DS	
4,4'-DDD	Not Detected	0.1	µg/L	05/31/23	DS	
4,4'-DDE	Not Detected	0.1	µg/L	05/31/23	DS	
4,4'-DDT	Not Detected	0.02	µg/L	05/31/23	DS	
Dieldrin	Not Detected	0.02	µg/L	05/31/23	DS	
Endosulfan-alpha	Not Detected	0.015	µg/L	05/31/23	DS	
Endosulfan-beta	Not Detected	0.015	µg/L	05/31/23	DS	
Endosulfan (Total)	Not Detected	0.03	µg/L	05/31/23	DS	
Endosulfan sulfate	Not Detected	0.05	µg/L	05/31/23	DS	
Endrin	Not Detected	0.02	µg/L	05/31/23	DS	
Endrin aldehyde	Not Detected	0.02	µg/L	05/31/23	DS	
Heptachlor	Not Detected	0.01	µg/L	05/31/23	DS	
Heptachlor Epoxide	Not Detected	0.01	µg/L	05/31/23	DS	
alpha-Hexachlorocyclohexane	Not Detected	0.05	µg/L	05/31/23	DS	
beta-Hexachlorocyclohexane	Not Detected	0.02	µg/L	05/31/23	DS	
delta-Hexachlorocyclohexane	Not Detected	0.01	µg/L	05/31/23	DS	
Lindane	Not Detected	0.03	µg/L	05/31/23	DS	
Methoxychlor	Not Detected	0.5	µg/L	05/31/23	DS	
Toxaphene	Not Detected	1	µg/L	05/31/23	DS	
Surrogate Standards						
Tetrachloro-m-xylene	68.7%	-	% Recovery	05/31/23	DS	
Decachlorobiphenyl	71.2%	-	% Recovery	05/31/23	DS	
continued						

Sample Description:		Location C, 10:52, 5/25/23				
Laboratory ID:	12960-5	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Metals						
Arsenic	Not Detected	5	µg/L	05/30/23	DS	
Barium	319	100	µg/L	05/31/23	DS	
Cadmium	2	1	µg/L	05/30/23	DS	
Chromium	Not Detected	5	µg/L	05/30/23	DS	
Hexavalent Chromium	Not Detected	10	µg/L	05/25/23	LB	
Copper	Not Detected	4	µg/L	05/30/23	DS	
Lead	Not Detected	3	µg/L	05/30/23	DS	
Mercury	Not Detected	0.2	µg/L	06/01/23	DS	
Selenium	Not Detected	5	µg/L	05/31/23	DS	
Silver	Not Detected	0.2	µg/L	05/30/23	DS	
Zinc	Not Detected	50	µg/L	05/30/23	DS	
Analysis Information						
SVOC Extraction	Completed	-	-	05/31/23	LB/MR	
PCB Extraction	Completed	-	-	05/26/23	LB	
Pesticide Extraction	Completed	-	-	05/31/23	LB	
Herbicide Extraction	Completed	-	-	06/01/23	LB/DS	
Mercury Digestion	Completed	-	-	05/31/23	LB/DS	
Metals Digestion	Completed	-	-	05/30/23	LB	

Sample Description:		Location C, 10:56, 5/25/23				
Laboratory ID:	12960-6	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
<i>Volatile Organic Compounds</i>						
Acetone	Not Detected	1,000	µg/Kg, dry wt.	05/26/23	BD	
Benzene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Bromobenzene	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
Bromochloromethane	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
Bromodichloromethane	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
Bromoform	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
Bromomethane	Not Detected	200	µg/Kg, dry wt.	05/26/23	BD	
2-Butanone (MEK)	Not Detected	750	µg/Kg, dry wt.	05/26/23	BD	
n-Butylbenzene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
sec-Butylbenzene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
tert-Butylbenzene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Carbon disulfide	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
Carbon tetrachloride	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Chlorobenzene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Chloroethane	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
Chloroform	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Chloromethane	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
2-Chlorotoluene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
4-Chlorotoluene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Dibromochloromethane	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	µg/Kg, dry wt.	05/26/23	BD	
Dibromomethane	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
1,2-Dichlorobenzene	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
1,3-Dichlorobenzene	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
1,4-Dichlorobenzene	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
Dichlorodifluoromethane	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
1,1-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
1,1-Dichloroethylene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
cis-1,2-Dichloroethylene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
trans-1,2-Dichloroethylene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
1,2-Dichloropropane	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
1,3-Dichloropropane	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
2,2-Dichloropropane	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
1,1-Dichloropropene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
1,3-Dichloropropene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
<i>continued</i>						

Sample Description:		Location C, 10:56, 5/25/23				
Laboratory ID:	12960-6	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs, cont'd						
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	05/26/23	BD	
Hexachlorobutadiene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
2-Hexanone	Not Detected	2,500	µg/Kg, dry wt.	05/26/23	BD	
Isopropyl benzene	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	µg/Kg, dry wt.	05/26/23	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
Methylene chloride	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
n-Propylbenzene	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
Styrene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Tetrachloroethylene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Tetrahydrofuran	Not Detected	1,000	µg/Kg, dry wt.	05/26/23	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
1,2,3-Trichlorobenzene	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
1,2,4-Trichlorobenzene	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
1,1,1-Trichloroethane	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
1,1,2-Trichloroethane	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Trichloroethylene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Trichlorofluoromethane	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
1,2,3-Trichloropropane	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
Vinyl Acetate	Not Detected	5,000	µg/Kg, dry wt.	05/26/23	BD	
Vinyl Chloride	Not Detected	40	µg/Kg, dry wt.	05/26/23	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	05/26/23	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	96.4%	-	% Recovery	05/26/23	BD	
Toluene-d8	106%	-	% Recovery	05/26/23	BD	
4-Bromofluorobenzene	100%	-	% Recovery	05/26/23	BD	
continued						

Sample Description:		Location C, 10:56, 5/25/23				
Laboratory ID:	12960-6	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
<i>Semi-Volatile Organic Cmpds</i>						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Aniline	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Anthracene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Azobenzene	Not Detected	200	µg/Kg, dry wt.	05/31/23	BD	
Benzidine	Not Detected	1,000	µg/Kg, dry wt.	05/31/23	BD	
Benzo(a)anthracene	484	330	µg/Kg, dry wt.	05/31/23	BD	
Benzo(b)fluoranthene	535	330	µg/Kg, dry wt.	05/31/23	BD	
Benzo(k)fluoranthene	922	330	µg/Kg, dry wt.	05/31/23	BD	
Benzo(g,h,i)perylene	590	330	µg/Kg, dry wt.	05/31/23	BD	
Benzo(a)pyrene	569	330	µg/Kg, dry wt.	05/31/23	BD	
Benzyl alcohol	Not Detected	3,300	µg/Kg, dry wt.	05/31/23	BD	
Bis(2-chloroethyl)ether	Not Detected	100	µg/Kg, dry wt.	05/31/23	BD	
Bis(2-chloroisopropyl)ether	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Bis(2-chloroethoxy)methane	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Bis(2-ethylhexyl)phthalate	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
4-Bromophenyl phenyl ether	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Butyl benzyl phthalate	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Carbazole	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
4-Chloroaniline	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
4-Chloro-3-methylphenol	Not Detected	280	µg/Kg, dry wt.	05/31/23	BD	
2-Chloronaphthalene (beta)	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2-Chlorophenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
4-Chlorophenyl phenyl ether	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Chrysene	625	330	µg/Kg, dry wt.	05/31/23	BD	
Di-n-butylphthalate	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Di-n-octyl phthalate	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Dibenzofuran	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
3,3'-Dichlorobenzidine	Not Detected	2,000	µg/Kg, dry wt.	05/31/23	BD	
2,4-Dichlorophenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Diethylphthalate	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Dimethyl phthalate	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2,4-Dimethylphenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2,4-Dinitrophenol	Not Detected	830	µg/Kg, dry wt.	05/31/23	BD	
2,4-Dinitrotoluene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2,6-Dinitrotoluene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
<i>continued</i>						

Sample Description:		Location C, 10:56, 5/25/23				
Laboratory ID:	12960-6	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
SVOCs, cont'd						
Fluoranthene	1,220	330	µg/Kg, dry wt.	05/31/23	BD	
Fluorene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Hexachlorobenzene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Hexachlorocyclopentadiene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Hexachloroethane	Not Detected	300	µg/Kg, dry wt.	05/31/23	BD	
Indeno(1,2,3-cd)pyrene	583	330	µg/Kg, dry wt.	05/31/23	BD	
Isophorone	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2-Methyl-4,6-Dinitrophenol	Not Detected	830	µg/Kg, dry wt.	05/31/23	BD	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2-Methylphenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
4-Methylphenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Methylphenols (total)	Not Detected	1,000	µg/Kg, dry wt.	05/31/23	BD	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2-Nitroaniline	Not Detected	830	µg/Kg, dry wt.	05/31/23	BD	
3-Nitroaniline	Not Detected	830	µg/Kg, dry wt.	05/31/23	BD	
4-Nitroaniline	Not Detected	830	µg/Kg, dry wt.	05/31/23	BD	
Nitrobenzene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2-Nitrophenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
4-Nitrophenol	Not Detected	830	µg/Kg, dry wt.	05/31/23	BD	
N-Nitrosodi-n-propylamine	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
N-Nitrosodiphenylamine	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Pentachlorophenol	Not Detected	20	µg/Kg, dry wt.	05/31/23	BD	
Phenanthrene	504	330	µg/Kg, dry wt.	05/31/23	BD	
Phenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Pyrene	984	330	µg/Kg, dry wt.	05/31/23	BD	
Pyridine	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2,4,5-Trichlorophenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2,4,6-Trichlorophenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Surrogate Standards						
2-Fluorophenol	62.2%	-	% Recovery	05/31/23	BD	
Phenol-d5	63.2%	-	% Recovery	05/31/23	BD	
Nitrobenzene-d5	61.2%	-	% Recovery	05/31/23	BD	
2-Fluorobiphenyl	63.5%	-	% Recovery	05/31/23	BD	
2,4,6-Tribromophenol	73.1%	-	% Recovery	05/31/23	BD	
Terphenyl-d14	73.3%	-	% Recovery	05/31/23	BD	
continued						

Sample Description:		Location C, 10:56, 5/25/23				
Laboratory ID:	12960-6	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PCBs						
Aroclor 1016	Not Detected	100	µg/Kg, dry wt.	05/31/23	DS	
Aroclor 1221	Not Detected	100	µg/Kg, dry wt.	05/31/23	DS	
Aroclor 1232	Not Detected	100	µg/Kg, dry wt.	05/31/23	DS	
Aroclor 1242	Not Detected	100	µg/Kg, dry wt.	05/31/23	DS	
Aroclor 1248	Not Detected	100	µg/Kg, dry wt.	05/31/23	DS	
Aroclor 1254	Not Detected	100	µg/Kg, dry wt.	05/31/23	DS	
Aroclor 1260	Not Detected	100	µg/Kg, dry wt.	05/31/23	DS	
Polychlorinated biphenyls (Total)	Not Detected	700	µg/Kg, dry wt.	05/31/23	DS	
Surrogate Standards						
Tetrachloro-m-xylene	65.9%	-	% Recovery	05/31/23	DS	
Decachlorobiphenyl	74.8%	-	% Recovery	05/31/23	DS	
Herbicides						
2,4-D	Not Detected	200	µg/Kg, dry wt.	06/01/23	DS	
2,4-DB	Not Detected	200	µg/Kg, dry wt.	06/01/23	DS	
2,4,5-TP (Silvex)	Not Detected	300	µg/Kg, dry wt.	06/01/23	DS	
2,4,5-T	Not Detected	500	µg/Kg, dry wt.	06/01/23	DS	
Dalapon	Not Detected	500	µg/Kg, dry wt.	06/01/23	DS	
Dicamba	Not Detected	50	µg/Kg, dry wt.	06/01/23	DS	
Dichloroprop	Not Detected	50	µg/Kg, dry wt.	06/01/23	DS	
Dinoseb	Not Detected	200	µg/Kg, dry wt.	06/01/23	DS	
MCPA	Not Detected	5,000	µg/Kg, dry wt.	06/01/23	DS	
MCPP	Not Detected	5,000	µg/Kg, dry wt.	06/01/23	DS	
Surrogate Standards						
DCPAA	121%	-	% Recovery	06/01/23	DS	
<i>continued</i>						

Sample Description:		Location C, 10:56, 5/25/23				
Laboratory ID:	12960-6	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Pesticides						
Aldrin	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Chlordane	Not Detected	30	µg/Kg, dry wt.	05/31/23	DS	
4,4'-DDD	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
4,4'-DDE	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
4,4'-DDT	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Dieldrin	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Endosulfan-alpha	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Endosulfan-beta	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Endosulfan (Total)	Not Detected	40	µg/Kg, dry wt.	05/31/23	DS	
Endosulfan sulfate	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Endrin	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Endrin aldehyde	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Heptachlor	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Heptachlor Epoxide	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
alpha-Hexachlorocyclohexane	Not Detected	10	µg/Kg, dry wt.	05/31/23	DS	
beta-Hexachlorocyclohexane	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
delta-Hexachlorocyclohexane	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Lindane	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Methoxychlor	Not Detected	50	µg/Kg, dry wt.	05/31/23	DS	
Toxaphene	Not Detected	170	µg/Kg, dry wt.	05/31/23	DS	
Surrogate Standards						
Tetrachloro-m-xylene	74.9%	-	% Recovery	05/31/23	DS	
Decachlorobiphenyl	77.8%	-	% Recovery	05/31/23	DS	
continued						

Sample Description:		Location C, 10:56, 5/25/23				
Laboratory ID:	12960-6	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Metals						
Arsenic	1,120	100	µg/Kg, dry wt.	05/30/23	DS	
Barium	106,000	1,000	µg/Kg, dry wt.	05/31/23	DS	
Cadmium	Not Detected	200	µg/Kg, dry wt.	05/30/23	DS	
Chromium	13,600	2,000	µg/Kg, dry wt.	05/30/23	DS	
Hexavalent Chromium	Not Detected	2,000	µg/Kg, dry wt.	05/25/23	LB	
Copper	16,800	1,000	µg/Kg, dry wt.	05/30/23	DS	
Lead	3,610	1,000	µg/Kg, dry wt.	05/30/23	DS	
Mercury	Not Detected	50	µg/Kg, dry wt.	06/01/23	DS	
Selenium	Not Detected	200	µg/Kg, dry wt.	05/31/23	DS	
Silver	Not Detected	100	µg/Kg, dry wt.	05/30/23	DS	
Zinc	16,800	1,000	µg/Kg, dry wt.	05/30/23	DS	
Analysis Information						
Dry Weight Solids	79.2%	-	% by weight	05/25/23	LB	
SVOC Extraction	Completed	-	-	05/25/23	LB	
PCB Extraction	Completed	-	-	05/31/23	LB/MR	
Pesticide Extraction	Completed	-	-	05/31/23	LB/MR	
Herbicide Extraction	Completed	-	-	06/01/23	LB/DS	
Mercury Digestion	Completed	-	-	05/31/23	LB/MR	
Metals Digestion	Completed	-	-	05/30/23	LB	

Sample Description:		Location A, 11:28, 5/25/23				
Laboratory ID:	12960-7	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
<i>Volatile Organic Compounds</i>						
Acetone	Not Detected	50	µg/L	05/26/23	BD	
Benzene	Not Detected	1	µg/L	05/26/23	BD	
Bromobenzene	Not Detected	1	µg/L	05/26/23	BD	
Bromochloromethane	Not Detected	1	µg/L	05/26/23	BD	
Bromodichloromethane	Not Detected	1	µg/L	05/26/23	BD	
Bromoform	Not Detected	1	µg/L	05/26/23	BD	
Bromomethane	Not Detected	5	µg/L	05/26/23	BD	
2-Butanone (MEK)	Not Detected	25	µg/L	05/26/23	BD	
n-Butylbenzene	Not Detected	1	µg/L	05/26/23	BD	
sec-Butylbenzene	Not Detected	1	µg/L	05/26/23	BD	
tert-Butylbenzene	Not Detected	1	µg/L	05/26/23	BD	
Carbon disulfide	Not Detected	5	µg/L	05/26/23	BD	
Carbon tetrachloride	Not Detected	1	µg/L	05/26/23	BD	
Chlorobenzene	Not Detected	1	µg/L	05/26/23	BD	
Chloroethane	Not Detected	5	µg/L	05/26/23	BD	
Chloroform	Not Detected	1	µg/L	05/26/23	BD	
Chloromethane	Not Detected	5	µg/L	05/26/23	BD	
2-Chlorotoluene	Not Detected	5	µg/L	05/26/23	BD	
4-Chlorotoluene	Not Detected	5	µg/L	05/26/23	BD	
Dibromochloromethane	Not Detected	5	µg/L	05/26/23	BD	
1,2-Dibromo-3-chloropropane	Not Detected	0.2	µg/L	05/26/23	BD	
Dibromomethane	Not Detected	5	µg/L	05/26/23	BD	
1,2-Dichlorobenzene	Not Detected	1	µg/L	05/26/23	BD	
1,3-Dichlorobenzene	Not Detected	1	µg/L	05/26/23	BD	
1,4-Dichlorobenzene	Not Detected	1	µg/L	05/26/23	BD	
Dichlorodifluoromethane	Not Detected	5	µg/L	05/26/23	BD	
1,1-Dichloroethane	Not Detected	1	µg/L	05/26/23	BD	
1,2-Dichloroethane	Not Detected	1	µg/L	05/26/23	BD	
1,1-Dichloroethylene	Not Detected	1	µg/L	05/26/23	BD	
cis-1,2-Dichloroethylene	Not Detected	1	µg/L	05/26/23	BD	
trans-1,2-Dichloroethylene	Not Detected	1	µg/L	05/26/23	BD	
1,2-Dichloropropane	Not Detected	1	µg/L	05/26/23	BD	
1,3-Dichloropropane	Not Detected	1	µg/L	05/26/23	BD	
2,2-Dichloropropane	Not Detected	1	µg/L	05/26/23	BD	
1,1-Dichloropropene	Not Detected	1	µg/L	05/26/23	BD	
1,3-Dichloropropene	Not Detected	1	µg/L	05/26/23	BD	
<i>continued</i>						

Sample Description:	Location A, 11:28, 5/25/23					
Laboratory ID:	12960-7	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs, cont'd						
Ethylbenzene	Not Detected	1	µg/L	05/26/23	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	0.2	µg/L	05/26/23	BD	
Hexachlorobutadiene	Not Detected	0.2	µg/L	05/26/23	BD	
2-Hexanone	Not Detected	50	µg/L	05/26/23	BD	
Isopropyl benzene	Not Detected	5	µg/L	05/26/23	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	50	µg/L	05/26/23	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	5	µg/L	05/26/23	BD	
Methylene chloride	Not Detected	5	µg/L	05/26/23	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	05/26/23	BD	
Naphthalene	Not Detected	5	µg/L	05/26/23	BD	
n-Propyl benzene	Not Detected	1	µg/L	05/26/23	BD	
Styrene	Not Detected	1	µg/L	05/26/23	BD	
1,1,1,2-Tetrachloroethane	Not Detected	1	µg/L	05/26/23	BD	
1,1,2,2-Tetrachloroethane	Not Detected	1	µg/L	05/26/23	BD	
Tetrachloroethylene	Not Detected	1	µg/L	05/26/23	BD	
Tetrahydrofuran	Not Detected	90	µg/L	05/26/23	BD	
Toluene	Not Detected	1	µg/L	05/26/23	BD	
1,2,3-Trichlorobenzene	Not Detected	5	µg/L	05/26/23	BD	
1,2,4-Trichlorobenzene	Not Detected	5	µg/L	05/26/23	BD	
1,1,1-Trichloroethane	Not Detected	1	µg/L	05/26/23	BD	
1,1,2-Trichloroethane	Not Detected	1	µg/L	05/26/23	BD	
Trichloroethylene	Not Detected	1	µg/L	05/26/23	BD	
Trichlorofluoromethane	Not Detected	1	µg/L	05/26/23	BD	
1,2,3-Trichloropropane	Not Detected	1	µg/L	05/26/23	BD	
1,2,4-Trimethylbenzene	Not Detected	1	µg/L	05/26/23	BD	
1,3,5-Trimethylbenzene	Not Detected	1	µg/L	05/26/23	BD	
Vinyl Acetate	Not Detected	100	µg/L	05/26/23	BD	
Vinyl chloride	Not Detected	1	µg/L	05/26/23	BD	
Xylene (Total)	Not Detected	3	µg/L	05/26/23	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	97.4%	-	% Recovery	05/26/23	BD	
Toluene-d8	105%	-	% Recovery	05/26/23	BD	
4-Bromofluorobenzene	101%	-	% Recovery	05/26/23	BD	
continued						

Sample Description:		Location A, 11:28, 5/25/23				
Laboratory ID:	12960-7	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Semi-Volatile Organic Cmpds			□□□			
Acenaphthene	Not Detected	5	µg/L	05/31/23	BD	
Acenaphthylene	Not Detected	5	µg/L	05/31/23	BD	
Aniline	Not Detected	4	µg/L	05/31/23	BD	
Anthracene	Not Detected	5	µg/L	05/31/23	BD	
Azobenzene	Not Detected	2	µg/L	05/31/23	BD	
Benzidine	Not Detected	2	µg/L	05/31/23	BD	
Benzo(a)anthracene	Not Detected	1	µg/L	05/31/23	BD	
Benzo(b)fluoranthene	Not Detected	1	µg/L	05/31/23	BD	
Benzo(k)fluoranthene	Not Detected	1	µg/L	05/31/23	BD	
Benzo(g,h,i)perylene	Not Detected	1	µg/L	05/31/23	BD	
Benzo(a)pyrene	Not Detected	1	µg/L	05/31/23	BD	
Benzyl alcohol	Not Detected	50	µg/L	05/31/23	BD	
Bis(2-chloroethyl)ether	Not Detected	1	µg/L	05/31/23	BD	
Bis(2-chloroisopropyl)ether	Not Detected	5	µg/L	05/31/23	BD	
Bis(2-chloroethoxy)methane	Not Detected	5	µg/L	05/31/23	BD	
Bis(2-ethylhexyl)phthalate	Not Detected	5	µg/L	05/31/23	BD	
4-Bromophenyl phenyl ether	Not Detected	5	µg/L	05/31/23	BD	
Butyl benzyl phthalate	Not Detected	5	µg/L	05/31/23	BD	
Carbazole	Not Detected	10	µg/L	05/31/23	BD	
4-Chloroaniline	Not Detected	10	µg/L	05/31/23	BD	
4-Chloro-3-methylphenol	Not Detected	5	µg/L	05/31/23	BD	
2-Chloronaphthalene (beta)	Not Detected	5	µg/L	05/31/23	BD	
2-Chlorophenol	Not Detected	10	µg/L	05/31/23	BD	
4-Chlorophenyl phenyl ether	Not Detected	5	µg/L	05/31/23	BD	
Chrysene	Not Detected	1	µg/L	05/31/23	BD	
Di-n-butylphthalate	Not Detected	5	µg/L	05/31/23	BD	
Di-n-octyl phthalate	Not Detected	5	µg/L	05/31/23	BD	
Dibenzo(a,h)anthracene	Not Detected	2	µg/L	05/31/23	BD	
Dibenzofuran	Not Detected	4	µg/L	05/31/23	BD	
3,3'-Dichlorobenzidine	Not Detected	2	µg/L	05/31/23	BD	
2,4-Dichlorophenol	Not Detected	10	µg/L	05/31/23	BD	
Diethylphthalate	Not Detected	5	µg/L	05/31/23	BD	
Dimethyl phthalate	Not Detected	5	µg/L	05/31/23	BD	
2,4-Dimethylphenol	Not Detected	5	µg/L	05/31/23	BD	
2,4-Dinitrophenol	Not Detected	25	µg/L	05/31/23	BD	
2,4-Dinitrotoluene	Not Detected	5	µg/L	05/31/23	BD	
2,6-Dinitrotoluene	Not Detected	5	µg/L	05/31/23	BD	
continued						

Sample Description:	Location A, 11:28, 5/25/23					
Laboratory ID:	12960-7	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
SVOCs, cont'd			□□□			
Fluoranthene	Not Detected	1	µg/L	05/31/23	BD	
Fluorene	Not Detected	5	µg/L	05/31/23	BD	
Hexachlorobenzene	Not Detected	1	µg/L	05/31/23	BD	
Hexachlorocyclopentadiene	Not Detected	5	µg/L	05/31/23	BD	
Hexachloroethane	Not Detected	5	µg/L	05/31/23	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	2	µg/L	05/31/23	BD	
Isophorone	Not Detected	5	µg/L	05/31/23	BD	
2-Methyl-4,6-Dinitrophenol	Not Detected	20	µg/L	05/31/23	BD	
2-Methylnaphthalene	Not Detected	5	µg/L	05/31/23	BD	
2-Methylphenol	Not Detected	10	µg/L	05/31/23	BD	
4-Methylphenol	Not Detected	10	µg/L	05/31/23	BD	
Methylphenols (total)	Not Detected	30	µg/L	05/31/23	BD	
Naphthalene	Not Detected	5	µg/L	05/31/23	BD	
2-Nitroaniline	Not Detected	25	µg/L	05/31/23	BD	
3-Nitroaniline	Not Detected	25	µg/L	05/31/23	BD	
4-Nitroaniline	Not Detected	25	µg/L	05/31/23	BD	
Nitrobenzene	Not Detected	3	µg/L	05/31/23	BD	
2-Nitrophenol	Not Detected	5	µg/L	05/31/23	BD	
4-Nitrophenol	Not Detected	25	µg/L	05/31/23	BD	
N-Nitrosodi-n-propylamine	Not Detected	5	µg/L	05/31/23	BD	
N-Nitrosodiphenylamine	Not Detected	5	µg/L	05/31/23	BD	
Pentachlorophenol	Not Detected	1	µg/L	05/31/23	BD	
Phenanthrene	Not Detected	2	µg/L	05/31/23	BD	
Phenol	Not Detected	5	µg/L	05/31/23	BD	
Pyrene	Not Detected	5	µg/L	05/31/23	BD	
Pyridine	Not Detected	20	µg/L	05/31/23	BD	
2,4,5-Trichlorophenol	Not Detected	5	µg/L	05/31/23	BD	
2,4,6-Trichlorophenol	Not Detected	4	µg/L	05/31/23	BD	
Surrogate Standards						
2-Fluorophenol	47.4%	-	% Recovery	05/31/23	BD	
Phenol-d5	41.8%	-	% Recovery	05/31/23	BD	
Nitrobenzene-d5	61.0%	-	% Recovery	05/31/23	BD	
2-Fluorobiphenyl	61.9%	-	% Recovery	05/31/23	BD	
2,4,6-Tribromophenol	79.3%	-	% Recovery	05/31/23	BD	
Terphenyl-d14	79.9%	-	% Recovery	05/31/23	BD	
continued						

Sample Description:	Location A, 11:28, 5/25/23					
Laboratory ID:	12960-7	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PCBs						
Aroclor 1016	Not Detected	0.2	µg/L	05/31/23	DS	
Aroclor 1221	Not Detected	0.2	µg/L	05/31/23	DS	
Aroclor 1232	Not Detected	0.2	µg/L	05/31/23	DS	
Aroclor 1242	Not Detected	0.2	µg/L	05/31/23	DS	
Aroclor 1248	Not Detected	0.2	µg/L	05/31/23	DS	
Aroclor 1254	Not Detected	0.2	µg/L	05/31/23	DS	
Aroclor 1260	Not Detected	0.2	µg/L	05/31/23	DS	
Polychlorinated biphenyls (Total)	Not Detected	2	µg/L	05/31/23	DS	
Surrogate Standards						
Tetrachloro-m-xylene	53.1%	-	% Recovery	05/31/23	DS	
Decachlorobiphenyl	54.8%	-	% Recovery	05/31/23	DS	
Herbicides						
2,4-D	Not Detected	10	µg/L	06/01/23	DS	
2,4-DB	Not Detected	10	µg/L	06/01/23	DS	
2,4,5-TP (Silvex)	Not Detected	30	µg/L	06/01/23	DS	
2,4,5-T	Not Detected	10	µg/L	06/01/23	DS	
Dalapon	Not Detected	10	µg/L	06/01/23	DS	
Dicamba	Not Detected	1	µg/L	06/01/23	DS	
Dichloroprop	Not Detected	10	µg/L	06/01/23	DS	
Dinoseb	Not Detected	1	µg/L	06/01/23	DS	
MCPA	Not Detected	8,000	µg/L	06/01/23	DS	E, C
MCPP	Not Detected	30,000	µg/L	06/01/23	DS	E, C
Surrogate Standards						
DCPAA	90.1%	-	% Recovery	06/01/23	DS	
<i>continued</i>						

Sample Description:	Location A, 11:28, 5/25/23					
Laboratory ID:	12960-7	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Pesticides						
Aldrin	Not Detected	0.01	µg/L	05/31/23	DS	
Chlordane	Not Detected	0.05	µg/L	05/31/23	DS	
4,4'-DDD	Not Detected	0.1	µg/L	05/31/23	DS	
4,4'-DDE	Not Detected	0.1	µg/L	05/31/23	DS	
4,4'-DDT	Not Detected	0.02	µg/L	05/31/23	DS	
Dieldrin	Not Detected	0.02	µg/L	05/31/23	DS	
Endosulfan-alpha	Not Detected	0.015	µg/L	05/31/23	DS	
Endosulfan-beta	Not Detected	0.015	µg/L	05/31/23	DS	
Endosulfan (Total)	Not Detected	0.03	µg/L	05/31/23	DS	
Endosulfan sulfate	Not Detected	0.05	µg/L	05/31/23	DS	
Endrin	Not Detected	0.02	µg/L	05/31/23	DS	
Endrin aldehyde	Not Detected	0.02	µg/L	05/31/23	DS	
Heptachlor	Not Detected	0.01	µg/L	05/31/23	DS	
Heptachlor Epoxide	Not Detected	0.01	µg/L	05/31/23	DS	
alpha-Hexachlorocyclohexane	Not Detected	0.05	µg/L	05/31/23	DS	
beta-Hexachlorocyclohexane	Not Detected	0.02	µg/L	05/31/23	DS	
delta-Hexachlorocyclohexane	Not Detected	0.01	µg/L	05/31/23	DS	
Lindane	Not Detected	0.03	µg/L	05/31/23	DS	
Methoxychlor	Not Detected	0.5	µg/L	05/31/23	DS	
Toxaphene	Not Detected	1	µg/L	05/31/23	DS	
Surrogate Standards						
Tetrachloro-m-xylene	67.3%	-	% Recovery	05/31/23	DS	
Decachlorobiphenyl	71.3%	-	% Recovery	05/31/23	DS	
continued						

Sample Description:		Location A, 11:28, 5/25/23				
Laboratory ID:	12960-7	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Metals						
Arsenic	Not Detected	5	µg/L	05/30/23	DS	
Barium	208	100	µg/L	05/31/23	DS	
Cadmium	Not Detected	1	µg/L	05/30/23	DS	
Chromium	Not Detected	5	µg/L	05/30/23	DS	
Hexavalent Chromium	Not Detected	10	µg/L	05/25/23	LB	
Copper	Not Detected	4	µg/L	05/30/23	DS	
Lead	Not Detected	3	µg/L	05/30/23	DS	
Mercury	Not Detected	0.2	µg/L	06/01/23	DS	
Selenium	Not Detected	5	µg/L	05/31/23	DS	
Silver	Not Detected	0.2	µg/L	05/30/23	DS	
Zinc	Not Detected	50	µg/L	05/30/23	DS	
Analysis Information						
SVOC Extraction	Completed	-	-	05/31/23	LB/MR	
PCB Extraction	Completed	-	-	05/26/23	LB	
Pesticide Extraction	Completed	-	-	05/31/23	LB	
Herbicide Extraction	Completed	-	-	06/01/23	LB/DS	
Mercury Digestion	Completed	-	-	05/31/23	LB/DS	
Metals Digestion	Completed	-	-	05/30/23	LB	

Sample Description:		Location A, 11:33, 5/25/23				
Laboratory ID:	12960-8	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
<i>Volatile Organic Compounds</i>						
Acetone	Not Detected	1,000	µg/Kg, dry wt.	05/26/23	BD	
Benzene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Bromobenzene	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
Bromochloromethane	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
Bromodichloromethane	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
Bromoform	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
Bromomethane	Not Detected	200	µg/Kg, dry wt.	05/26/23	BD	
2-Butanone (MEK)	Not Detected	750	µg/Kg, dry wt.	05/26/23	BD	
n-Butylbenzene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
sec-Butylbenzene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
tert-Butylbenzene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Carbon disulfide	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
Carbon tetrachloride	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Chlorobenzene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Chloroethane	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
Chloroform	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Chloromethane	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
2-Chlorotoluene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
4-Chlorotoluene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Dibromochloromethane	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
1,2-Dibromo-3-chloropropane	Not Detected	10	µg/Kg, dry wt.	05/26/23	BD	
Dibromomethane	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
1,2-Dichlorobenzene	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
1,3-Dichlorobenzene	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
1,4-Dichlorobenzene	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
Dichlorodifluoromethane	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
1,1-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
1,2-Dichloroethane	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
1,1-Dichloroethylene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
cis-1,2-Dichloroethylene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
trans-1,2-Dichloroethylene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
1,2-Dichloropropane	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
1,3-Dichloropropane	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
2,2-Dichloropropane	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
1,1-Dichloropropene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
1,3-Dichloropropene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
<i>continued</i>						

Sample Description:		Location A, 11:33, 5/25/23				
Laboratory ID:	12960-8	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
VOCs, cont'd						
Ethylbenzene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Ethylene Dibromide (1,2-Dibromoethane)	Not Detected	20	µg/Kg, dry wt.	05/26/23	BD	
Hexachlorobutadiene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
2-Hexanone	Not Detected	2,500	µg/Kg, dry wt.	05/26/23	BD	
Isopropyl benzene	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
4-Methyl-2-pentanone (MIBK)	Not Detected	2,500	µg/Kg, dry wt.	05/26/23	BD	
Methyl-t-butyl ether (MTBE)	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
Methylene chloride	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
2-Methylnaphthalene	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
Naphthalene	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
n-Propylbenzene	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
Styrene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
1,1,1,2-Tetrachloroethane	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
1,1,2,2-Tetrachloroethane	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Tetrachloroethylene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Tetrahydrofuran	Not Detected	1,000	µg/Kg, dry wt.	05/26/23	BD	
Toluene	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
1,2,3-Trichlorobenzene	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
1,2,4-Trichlorobenzene	Not Detected	250	µg/Kg, dry wt.	05/26/23	BD	
1,1,1-Trichloroethane	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
1,1,2-Trichloroethane	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Trichloroethylene	Not Detected	50	µg/Kg, dry wt.	05/26/23	BD	
Trichlorofluoromethane	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
1,2,3-Trichloropropane	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
1,2,4-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
1,3,5-Trimethylbenzene	Not Detected	100	µg/Kg, dry wt.	05/26/23	BD	
Vinyl Acetate	Not Detected	5,000	µg/Kg, dry wt.	05/26/23	BD	
Vinyl Chloride	Not Detected	40	µg/Kg, dry wt.	05/26/23	BD	
Xylene (Total)	Not Detected	150	µg/Kg, dry wt.	05/26/23	BD	
Surrogate Standards						
1,2-Dichloroethane-d4	97.1%	-	% Recovery	05/26/23	BD	
Toluene-d8	107%	-	% Recovery	05/26/23	BD	
4-Bromofluorobenzene	99.8%	-	% Recovery	05/26/23	BD	
continued						

Sample Description:		Location A, 11:33, 5/25/23				
Laboratory ID:	12960-8	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
<i>Semi-Volatile Organic Cmpds</i>						
Acenaphthene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Acenaphthylene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Aniline	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Anthracene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Azobenzene	Not Detected	200	µg/Kg, dry wt.	05/31/23	BD	
Benzydine	Not Detected	1,000	µg/Kg, dry wt.	05/31/23	BD	
Benzo(a)anthracene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Benzo(b)fluoranthene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Benzo(k)fluoranthene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Benzo(g,h,i)perylene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Benzo(a)pyrene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Benzyl alcohol	Not Detected	3,300	µg/Kg, dry wt.	05/31/23	BD	
Bis(2-chloroethyl)ether	Not Detected	100	µg/Kg, dry wt.	05/31/23	BD	
Bis(2-chloroisopropyl)ether	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Bis(2-chloroethoxy)methane	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Bis(2-ethylhexyl)phthalate	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
4-Bromophenyl phenyl ether	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Butyl benzyl phthalate	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Carbazole	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
4-Chloroaniline	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
4-Chloro-3-methylphenol	Not Detected	280	µg/Kg, dry wt.	05/31/23	BD	
2-Chloronaphthalene (beta)	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2-Chlorophenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
4-Chlorophenyl phenyl ether	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Chrysene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Di-n-butylphthalate	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Di-n-octyl phthalate	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Dibenzo(a,h)anthracene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Dibenzofuran	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
3,3'-Dichlorobenzidine	Not Detected	2,000	µg/Kg, dry wt.	05/31/23	BD	
2,4-Dichlorophenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Diethylphthalate	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Dimethyl phthalate	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2,4-Dimethylphenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2,4-Dinitrophenol	Not Detected	830	µg/Kg, dry wt.	05/31/23	BD	
2,4-Dinitrotoluene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2,6-Dinitrotoluene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
<i>continued</i>						

Sample Description:	Location A, 11:33, 5/25/23					
Laboratory ID:	12960-8	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
<i>SVOCs, cont'd</i>						
Fluoranthene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Fluorene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Hexachlorobenzene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Hexachlorocyclopentadiene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Hexachloroethane	Not Detected	300	µg/Kg, dry wt.	05/31/23	BD	
Indeno(1,2,3-cd)pyrene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Isophorone	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2-Methyl-4,6-Dinitrophenol	Not Detected	830	µg/Kg, dry wt.	05/31/23	BD	
2-Methylnaphthalene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2-Methylphenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
4-Methylphenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Methylphenols (total)	Not Detected	1,000	µg/Kg, dry wt.	05/31/23	BD	
Naphthalene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2-Nitroaniline	Not Detected	830	µg/Kg, dry wt.	05/31/23	BD	
3-Nitroaniline	Not Detected	830	µg/Kg, dry wt.	05/31/23	BD	
4-Nitroaniline	Not Detected	830	µg/Kg, dry wt.	05/31/23	BD	
Nitrobenzene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2-Nitrophenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
4-Nitrophenol	Not Detected	830	µg/Kg, dry wt.	05/31/23	BD	
N-Nitrosodi-n-propylamine	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
N-Nitrosodiphenylamine	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Pentachlorophenol	Not Detected	20	µg/Kg, dry wt.	05/31/23	BD	
Phenanthrene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Phenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Pyrene	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
Pyridine	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2,4,5-Trichlorophenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
2,4,6-Trichlorophenol	Not Detected	330	µg/Kg, dry wt.	05/31/23	BD	
<i>Surrogate Standards</i>						
2-Fluorophenol	59.3%	-	% Recovery	05/31/23	BD	
Phenol-d5	60.5%	-	% Recovery	05/31/23	BD	
Nitrobenzene-d5	57.0%	-	% Recovery	05/31/23	BD	
2-Fluorobiphenyl	57.9%	-	% Recovery	05/31/23	BD	
2,4,6-Tribromophenol	68.2%	-	% Recovery	05/31/23	BD	
Terphenyl-d14	70.2%	-	% Recovery	05/31/23	BD	
<i>continued</i>						

Sample Description:		Location A, 11:33, 5/25/23				
Laboratory ID:	12960-8	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
PCBs						
Aroclor 1016	Not Detected	100	µg/Kg, dry wt.	05/31/23	DS	
Aroclor 1221	Not Detected	100	µg/Kg, dry wt.	05/31/23	DS	
Aroclor 1232	Not Detected	100	µg/Kg, dry wt.	05/31/23	DS	
Aroclor 1242	Not Detected	100	µg/Kg, dry wt.	05/31/23	DS	
Aroclor 1248	Not Detected	100	µg/Kg, dry wt.	05/31/23	DS	
Aroclor 1254	Not Detected	100	µg/Kg, dry wt.	05/31/23	DS	
Aroclor 1260	Not Detected	100	µg/Kg, dry wt.	05/31/23	DS	
Polychlorinated biphenyls (Total)	Not Detected	700	µg/Kg, dry wt.	05/31/23	DS	
Surrogate Standards						
Tetrachloro-m-xylene	66.5%	-	% Recovery	05/31/23	DS	
Decachlorobiphenyl	72.3%	-	% Recovery	05/31/23	DS	
Herbicides						
2,4-D	Not Detected	200	µg/Kg, dry wt.	06/01/23	DS	
2,4-DB	Not Detected	200	µg/Kg, dry wt.	06/01/23	DS	
2,4,5-TP (Silvex)	Not Detected	300	µg/Kg, dry wt.	06/01/23	DS	
2,4,5-T	Not Detected	500	µg/Kg, dry wt.	06/01/23	DS	
Dalapon	Not Detected	500	µg/Kg, dry wt.	06/01/23	DS	
Dicamba	Not Detected	50	µg/Kg, dry wt.	06/01/23	DS	
Dichloroprop	Not Detected	50	µg/Kg, dry wt.	06/01/23	DS	
Dinoseb	Not Detected	200	µg/Kg, dry wt.	06/01/23	DS	
MCPA	Not Detected	5,000	µg/Kg, dry wt.	06/01/23	DS	
MCPP	Not Detected	5,000	µg/Kg, dry wt.	06/01/23	DS	
Surrogate Standards						
DCPAA	105%	-	% Recovery	06/01/23	DS	
<i>continued</i>						

Sample Description:		Location A, 11:33, 5/25/23				
Laboratory ID:	12960-8	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Pesticides						
Aldrin	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Chlordane	Not Detected	30	µg/Kg, dry wt.	05/31/23	DS	
4,4'-DDD	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
4,4'-DDE	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
4,4'-DDT	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Dieldrin	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Endosulfan-alpha	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Endosulfan-beta	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Endosulfan (Total)	Not Detected	40	µg/Kg, dry wt.	05/31/23	DS	
Endosulfan sulfate	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Endrin	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Endrin aldehyde	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Heptachlor	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Heptachlor Epoxide	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
alpha-Hexachlorocyclohexane	Not Detected	10	µg/Kg, dry wt.	05/31/23	DS	
beta-Hexachlorocyclohexane	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
delta-Hexachlorocyclohexane	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Lindane	Not Detected	20	µg/Kg, dry wt.	05/31/23	DS	
Methoxychlor	Not Detected	50	µg/Kg, dry wt.	05/31/23	DS	
Toxaphene	Not Detected	170	µg/Kg, dry wt.	05/31/23	DS	
Surrogate Standards						
Tetrachloro-m-xylene	73.2%	-	% Recovery	05/31/23	DS	
Decachlorobiphenyl	76.1%	-	% Recovery	05/31/23	DS	
continued						

Sample Description:		Location A, 11:33, 5/25/23				
Laboratory ID:	12960-8	Reporting Limit	Units of Measure	Date of Analysis	Analyst	Data Qualifiers
Metals						
Arsenic	2,440	100	µg/Kg, dry wt.	05/30/23	DS	
Barium	129,000	1,000	µg/Kg, dry wt.	05/31/23	DS	
Cadmium	Not Detected	200	µg/Kg, dry wt.	05/30/23	DS	
Chromium	3,560	2,000	µg/Kg, dry wt.	05/30/23	DS	
Hexavalent Chromium	Not Detected	2,000	µg/Kg, dry wt.	05/25/23	LB	
Copper	2,940	1,000	µg/Kg, dry wt.	05/30/23	DS	
Lead	2,540	1,000	µg/Kg, dry wt.	05/30/23	DS	
Mercury	Not Detected	50	µg/Kg, dry wt.	06/01/23	DS	
Selenium	Not Detected	200	µg/Kg, dry wt.	05/31/23	DS	
Silver	Not Detected	100	µg/Kg, dry wt.	05/30/23	DS	
Zinc	12,600	1,000	µg/Kg, dry wt.	05/30/23	DS	
Analysis Information						
Dry Weight Solids	72.3%	-	% by weight	05/25/23	LB	
SVOC Extraction	Completed	-	-	05/25/23	LB	
PCB Extraction	Completed	-	-	05/31/23	LB/MR	
Pesticide Extraction	Completed	-	-	05/31/23	LB/MR	
Herbicide Extraction	Completed	-	-	06/01/23	LB/DS	
Mercury Digestion	Completed	-	-	05/31/23	LB/MR	
Metals Digestion	Completed	-	-	05/30/23	LB	

Quality Control

VOC Matrix Spike Data

Spiked Sample: 12965-1		Matrix: Soil		Units: ppb in extract				
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers
1,1-Dichloroethene	0.0	25	29	29	116	116	0.0	
Benzene	0.0	25	26	25	104	100	3.9	
Trichloroethene	0.0	25	25	24	100	96	4.1	
Toluene	0.0	25	25	24	100	96	4.1	
Chlorobenzene	0.0	25	23	22	92	88	4.4	

Spiked Sample: 12960 LCS		Matrix: Water		Units: ppb in solution				
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers
1,1-Dichloroethene	0.0	25	28	28	112	112	0.0	
Benzene	0.0	25	27	25	108	100	7.7	
Trichloroethene	0.0	25	27	24	108	96	11.8	
Toluene	0.0	25	26	24	104	96	8.0	
Chlorobenzene	0.0	25	25	22	100	88	12.8	

SVOC Matrix Spike Data

Spiked Sample: 12960-8		Matrix: Soil		Units: ppm in extract				
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers
2-Chlorophenol	0.0	100	64	68	64	68	6.1	
1,4-Dichlorobenzene	0.0	50	28	30	56	60	6.9	
1,2,4-Trichlorobenzene	0.0	50	27	28	54	56	3.6	
4-Chloro-3-methylphenol	0.0	100	61	66	61	66	7.9	
Acenaphthene	0.0	50	31	32	62	64	3.2	
Pentachlorophenol	0.0	100	76	83	76	83	8.8	

Spiked Sample: 12960 LCS		Matrix: Water		Units: ppm in extract				
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers
2-Chlorophenol	0.0	100	72	88	72	88	20.0	
1,4-Dichlorobenzene	0.0	50	33	41	66	82	21.6	
1,2,4-Trichlorobenzene	0.0	50	30	38	60	76	23.5	
4-Chloro-3-methylphenol	0.0	100	80	99	80	99	21.2	
Acenaphthene	0.0	50	35	36	70	72	2.8	
Pentachlorophenol	0.0	100	100	102	100	102	2.0	

Quality Control, Cont'd

Metals Matrix Spike Data

Spiked Sample: 12960-2 (LCS for Ba, 12960-8 for Hex Cr)					Matrix: Soil		Units: ppb in solution	
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers
Arsenic	8.8	12.5	27.2	25.2	147	131	7.6	S, M
Barium	0	100	112	75.5	112	76	39.0	
Cadmium	0.2	1.3	1.2	1.3	83	92	8.8	
Chromium	7.1	10	16.8	15.9	98	88	5.7	
Cr, Hexavalent	0	500	170	140	34	28	19.4	
Copper	6.2	25	33.0	34.3	107	112	3.9	
Lead	7.7	25	28.5	31.0	83	93	8.4	
Mercury	0.0	5.0	5.2	5.1	104	101	3.1	
Selenium	0.0	25	9.6	8.8	39	35	9.2	
Silver	0.0	5.0	3.9	4.3	78	85	8.3	
Zinc	46	500	378	433	66	77	13.6	

Spiked Sample: 12960-1 (LCS for Ba, Hex Cr, Hg)					Matrix: Water		Units: ppb in solution	
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers
Arsenic	1.4	12.5	17.1	17.0	126	124	0.9	
Barium	0	100	112	75.5	112	76	39.0	
Cadmium	0.0	1.3	1.2	1.2	94	92	1.2	
Chromium	0.0	10	10.0	10.4	100	104	3.7	
Cr, Hexavalent	0	500	490	510	98	102	4.0	
Copper	4.3	25	27.4	29.0	92	99	5.7	
Lead	9.3	25	21.0	21.3	47	48	1.4	
Mercury	0.0	5.0	4.8	4.6	96	93	3.4	
Selenium	0.0	25	6.9	8.6	28	34	21.6	
Silver	0.0	5.0	1.9	2.0	39	40	2.0	
Zinc	0	500	307	337	61	67	9.3	

PCB Matrix Spike Data

Spiked Sample: 12960-2		Matrix: Soil		Units: ppm in extract				
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers
Aroclor 1260	0.000	0.200	0.228	0.211	114	105	7.8	

Spiked Sample: 12960 LCS		Matrix: Water		Units: ppm in extract				
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers
Aroclor 1260	0.000	0.200	0.206	0.237	103	118	14.2	

Quality Control, Cont'd

Pesticides Matrix Spike Data

Spiked Sample: 12960-2		Matrix: Soil		Units: ppb in extract				
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers
BHC-alpha	0.0	50	45.8	39.7	92	79	14.3	
BHC-beta	0.0	50	44.6	38.3	89	77	15.2	
Dieldrin	0.0	50	48.0	41.5	96	83	14.5	
Endosulfan I	0.0	50	47.3	40.8	95	82	14.8	
4,4'-DDD	0.0	50	49.0	42.3	98	85	14.7	

Spiked Sample: 12960 LCS		Matrix: Water		Units: ppb in extract				
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers
BHC-alpha	0.0	50	41.6	49.1	83	98	16.5	
BHC-beta	0.0	50	39.4	45.3	79	91	13.9	
Dieldrin	0.0	50	41.4	48.2	83	96	15.2	
Endosulfan I	0.0	50	40.8	47.8	82	96	15.8	
4,4'-DDD	0.0	50	42.1	47.7	84	95	12.5	

Herbicides Matrix Spike Data

Spiked Sample: 12960-2		Matrix: Soil		Units: ppb in solution				
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers
2,4-DB	0.0	250	224	220	90	88	1.8	
Dicamba	0.0	25	26.4	24.2	106	97	8.7	
Silvex	0.0	25	24.5	24.6	98	98	0.4	

Spiked Sample: 12960 LCS		Matrix: Water		Units: ppb in solution				
Parameter	Sample Result	Spike Added	MS Result	MSD Result	MS % Rec.	MSD % Rec.	RPD	Data Qualifiers
2,4-DB	0.0	250	114	125	46	50	9.2	
Dicamba	0.0	25	17.1	19.7	68	79	14.1	
Silvex	0.0	25	18.0	20.8	72	83	14.4	

Case Narrative

Samples 12960-1, 3, 5 and 7 were filtered with a 0.45µm filter prior to digestion and analysis of metals per client's request.

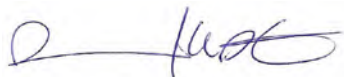
The reporting limits for MCPA and MCPP in water were elevated due to the presence of the analytes in the associated method blank.

All method protocols and quality control requirements were satisfied for all samples.

Notes

- (1) Quality Control Limits available upon request.
- (2) Results are applicable only to the sample tested.
- (3) All samples will be discarded after 30 days unless the laboratory receives other instructions.
- (4) Chain of Custody document attached.

QUANTUM LABORATORIES, INC.



David W. Starr
Analytical Chemistry Manager



CHAIN OF CUSTODY RECORD

Women's Business Enterprise
National Council



Cert. No. 2005111505

QUANTUM LABORATORIES, INC.
28221 Beck Road | Suite A-11
Wixom, MI 48393
248-348-TEST or 248-348-8378

Report Number:

Report Date:

Project Name:

Project Number:

Page:

12960

June 6, 2023

Galloway Creek

13038f-4-20

62 of 62

CLIENT INFO							PROJECT INFO					
COMPANY AKT Peerless							REPORT NO. (LAB USE) P.O. NUMBER 13038f - 4-20					
ADDRESS Galloway Creek Auburn Hills, MI Hunter Petz												
CITY, STATE, ZIP							PROJECT NAME					
TELEPHONE							SAMPLING LOCATION					
FAX							SAMPLES COLLECTED BY					
CONTACT Brian Westhoff							TURN AROUND TIME					
ADDITIONAL PHONE							☒ Standard ☐ Rush ☐ By Date:					
EMAIL ADDRESS westhoff@aktpeerless.com							SPECIAL INSTRUCTIONS					
ANALYSIS REQUESTED												
VOCs SVOCs PCBs Herbicides Pesticides Nickel/Ni Metals Hex Chrom												
REMARKS / PRESERVATIVES												
LINE NO.	LAB USE	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	TIME SAMPLED	DATE SAMPLED	SAMPLE TYPE *	GRAB / COMP **	X	X	X	X	X
1		Location D	4	9:20	5/25/23	W	G	X	X	X	X	X
2		Location D	2	9:26	5/25/23	S	G	X	X	X	X	X
3		Location B	4	10:08	5/25/23	W	G	X	X	X	X	X
4		Location B	2	10:13	5/25/23	S	G	X	X	X	X	X
5		Location C	4	10:52	5/25/23	W	G	X	X	X	X	X
6		Location C	2	10:56	5/25/23	S	G	X	X	X	X	X
7		Location A	4	11:28	5/25/23	W	G	X	X	X	X	X
8		Location A	2	11:33	5/25/23	S	G	X	X	X	X	X
9												
10												
XFER			RELINQUISHED BY		TIME / DATE		ACCEPTED BY		SAMPLE RECEIVED			
1			Hester		12:43/5-25-23		Lora Zell		☐ Wet Ice ☐ Blue Ice			
2												
3												

Data Qualifiers: I Internal Standard results outside of acceptance limits
S QC spike recovery outside of acceptance limits
R RPD outside of acceptance limits

E Reporting limit is elevated
D Result is from a dilution
J Result should be considered estimated

M Matrix interference observed
F Matrix Spike four times rule applied
C See Case Narrative