

Table A.3a-1. Chemical Results for PDI Sediment Trap Samples

Chemical	CAS RN	Units	Location		T06A			T06B		
			Sample ID	Date	PDI-ST-T06A-1810	PDI-ST-T06A-1901	PDI-ST-T06A-1905	PDI-ST-T06B-1810	PDI-ST-T06B-1901	PDI-ST-T06B-1905
					10/31/2018	1/30/2019	5/1/2019	10/31/2018	1/30/2019	5/1/2019
Sample Type Code			N	N	N	N	N	N	N	
Dioxins and Furans										
1,2,3,4,6,7,8-HpCDD	35822-46-9	µg/kg	0.11 J	0.063 J	0.034	0.081 J	0.073 J	0.027		
1,2,3,4,6,7,8-HpCDF	67562-39-4	µg/kg	0.019 J	0.020 JN	0.0078 JN	0.017 JN	0.016 JN	0.0047 JN		
1,2,3,4,7,8,9-HpCDF	55673-89-7	µg/kg	< 0.0012 UJ	< 0.00041 UJ	< 0.00035 U	< 0.00096 UJ	< 0.00032 UJ	< 0.00022 U		
1,2,3,4,7,8-HxCDD	39227-28-6	µg/kg	< 0.00076 UJ	0.0012 J	0.00067 J	0.0014 J	0.0014 J	0.00057 JN		
1,2,3,4,7,8-HxCDF	70648-26-9	µg/kg	< 0.0011 UJ	0.0016 J	0.00056 J	< 0.0013 UJ	0.0013 J	0.00047 J		
1,2,3,6,7,8-HxCDD	57653-85-7	µg/kg	0.0064 J	0.0030 J	0.0015 JN	0.0052 J	0.0034 J	0.0015 J		
1,2,3,6,7,8-HxCDF	57117-44-9	µg/kg	< 0.0011 UJ	0.00065 J	0.00031 J	< 0.0012 UJ	0.00085 J	0.00034 J		
1,2,3,7,8,9-HxCDD	19408-74-3	µg/kg	0.0038 J	0.0029 J	0.0011 J	0.0034 JN	0.0031 J	0.00090 J		
1,2,3,7,8,9-HxCDF	72918-21-9	µg/kg	< 0.00060 UJ	0.00022 J+	0.00030 J	< 0.00065 UJ	0.00024 J+	0.00076 J+		
1,2,3,7,8-PeCDD	40321-76-4	µg/kg	< 0.00061 UJ	0.00061 J	0.00024 JN	< 0.00053 UJ	0.00058 JN	< 0.00014 U		
1,2,3,7,8-PeCDF	57117-41-6	µg/kg	< 0.00048 UJ	0.00027 J	< 0.00011 U	< 0.00042 UJ	< 0.00010 UJ	< 0.00010 U		
2,3,4,6,7,8-HxCDF	60851-34-5	µg/kg	< 0.00072 UJ	0.00051 J	0.00017 J	< 0.00076 UJ	0.00052 J	0.00022 JN		
2,3,4,7,8-PeCDF	57117-31-4	µg/kg	< 0.00053 UJ	0.00043 J	< 0.00013 U	0.00092 J	0.00035 J	< 0.00012 U		
2,3,7,8-TCDD	1746-01-6	µg/kg	0.00063 J	0.00027 JN	< 0.00014 U	< 0.00045 UJ	0.00046 JN	< 0.00015 U		
2,3,7,8-TCDF	51207-31-9	µg/kg	0.0015 JN	0.00062 J	< 0.00010 U	0.0013 JN	0.00067 J	0.00028 JN		
OCDD	3268-87-9	µg/kg	0.94 J	0.56 J	0.32	0.65 J	0.67 J	0.26		
OCDF	39001-02-0	µg/kg	0.061 J	0.12 J	0.034	0.045 J	0.056 J	0.013		
TCDD-TEQ	(b) T_DF_TEQ (PDI)	µg/kg	0.0037	0.0031	0.0013	0.0029	0.0034	0.00098		
TCDD-TEQ (EMPC=half)	(c) T_DF_TEQ(E 0.5)	µg/kg	0.0035	0.003	0.00096	0.0024	0.0027	0.00082		
TCDD-TEQ (EMPC=0)	(c) T_DF_TEQ(E 0)	µg/kg	0.0032	0.0029	0.00084	0.0021	0.0024	0.00075		
Polychlorinated Biphenyls (PCBs)										
PCB-1	2051-60-7	µg/kg	< 0.00054 U	0.0040 JN	< 0.00053 U	< 0.00043 U	0.0069 JN	< 0.00076 U		
PCB-2	2051-61-8	µg/kg	< 0.00058 U	0.0039 JN	< 0.00054 U	0.0026 JN	0.0072 J	0.0055 J		
PCB-3	2051-62-9	µg/kg	< 0.00058 U	0.0029 JN	< 0.00051 U	< 0.00051 U	0.0061 J	< 0.00089 U		
PCB-4	13029-08-8	µg/kg	0.054 JN	0.0090 JN	0.0095 JN	0.016 JN	0.012 JN	0.012 JN		
PCB-5	16605-91-7	µg/kg	< 0.0035 U	< 0.0035 UJ	< 0.0033 U	< 0.0033 U	< 0.0033 UJ	< 0.0057 U		
PCB-6	25569-80-6	µg/kg	0.024	< 0.0031 UJ	< 0.0029 U	0.0036 JN	0.0040 JN	0.038 JN		
PCB-7	33284-50-3	µg/kg	< 0.0032 U	0.0032 JN	< 0.0029 U	< 0.0030 U	< 0.0030 UJ	< 0.0051 U		
PCB-8	34883-43-7	µg/kg	0.031 J	0.0088 JN	0.0092 JN	0.013 JN	0.0075 JN	0.016 JN		
PCB-9	34883-39-1	µg/kg	< 0.0032 U	< 0.0033 UJ	< 0.0030 U	< 0.0031 U	< 0.0031 UJ	< 0.0053 U		
PCB-10	33146-45-1	µg/kg	0.0035 JN	< 0.0035 UJ	< 0.0032 U	< 0.0033 U	< 0.0033 UJ	< 0.0056 U		
PCB-11	2050-67-1	µg/kg	0.13	0.071 J	0.052	0.088	0.082 J	0.054		
PCB-12/13	2974-92-7	µg/kg	0.0057 JN	0.0052 JN	< 0.0029 U	0.0042 JN	0.0061 JN	< 0.0051 U		
PCB-14	34883-41-5	µg/kg	< 0.0027 U	< 0.0027 UJ	< 0.0025 U	< 0.0025 U	< 0.0025 UJ	< 0.0043 U		
PCB-15	2050-68-2	µg/kg	0.024	0.0084 JN	0.0062 JN	0.016 JN	0.011 JN	0.0067 JN		
PCB-16	38444-78-9	µg/kg	0.014 J	0.0039 JN	0.0085 J	0.0060 JN	0.0064 JN	0.020 JN		
PCB-17	37680-66-3	µg/kg	0.041	0.013 J	0.011 JN	0.015 JN	0.015 J	0.035 JN		
PCB-18/30	37680-65-2	µg/kg	0.044	0.014 J	0.017 JN	0.030 J	0.018 J	0.063 JN		
PCB-19	38444-73-4	µg/kg	0.089	0.019 JN	0.011	0.019	0.013 J	0.0058 JN		
PCB-20/28	38444-84-7	µg/kg	0.087	0.037 J	0.031	0.058	0.043 J	0.093		
PCB-21/33	55702-46-0	µg/kg	0.021 JN	0.012 J	0.0095 J	0.020 JN	0.015 JN	0.029		
PCB-22	38444-85-8	µg/kg	0.017 J	0.0085 JN	0.0055 JN	0.018	0.010 JN	0.022		
PCB-23	55720-44-0	µg/kg	< 0.0014 U	< 0.0011 UJ	< 0.0014 U	< 0.0014 U	< 0.0012 UJ	< 0.0020 U		
PCB-24	55702-45-9	µg/kg	< 0.00058 U	0.0011 JN	< 0.0013 U	< 0.00040 U	< 0.00049 UJ	< 0.0019 U		
PCB-25	55712-37-3	µg/kg	0.016 J	0.0034 J	0.0033 JN	0.0071 J	0.0043 JN	0.046 JN		
PCB-26/29	38444-81-4	µg/kg	0.023 J	0.0063 J	0.0057 J	0.012 J	0.0098 J	0.086		
PCB-27	38444-76-7	µg/kg	0.013 J	0.0041 J	0.0068 J	< 0.00035 U	0.0047 J	0.0045 JN		
PCB-31	16606-02-3	µg/kg	0.074	0.029 J	0.024	0.064	0.038 J	0.093		
PCB-32	38444-77-8	µg/kg	0.031	0.0091 J	0.012	0.011 J	0.012 J	0.020		
PCB-34	37680-68-5	µg/kg	< 0.0014 U	< 0.0012 UJ	< 0.0014 U	< 0.0015 U	< 0.0013 UJ	< 0.0021 U		
PCB-35	37680-69-6	µg/kg	0.0029 J	< 0.0012 UJ	< 0.0014 U	0.0039 JN	< 0.0012 UJ	< 0.0020 U		
PCB-36	38444-87-0	µg/kg	< 0.0013 U	< 0.0011 UJ	< 0.0013 U	< 0.0014 U	< 0.0012 UJ	< 0.0019 U		
PCB-37	38444-90-5	µg/kg	0.029	0.012 J	0.0077 JN	0.030	0.015 J	0.014		
PCB-38	53555-66-1	µg/kg	< 0.0014 U	< 0.0012 UJ	< 0.0014 U	< 0.0015 U	< 0.0013 UJ	< 0.0021 U		
PCB-39	38444-88-1	µg/kg	< 0.0013 U	< 0.0011 UJ	< 0.0013 U	< 0.0013 U	< 0.0012 UJ	< 0.0019 U		
PCB-40/41/71	38444-93-8	µg/kg	0.087	0.028 J	0.016 JN	0.12	0.042 J	0.055		

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	Sample ID	Date	PDI-ST-T06A-1810	PDI-ST-T06A-1901	PDI-ST-T06A-1905	PDI-ST-T06B-1810	PDI-ST-T06B-1901	PDI-ST-T06B-1905
	Sample Type	Code	10/31/2018	1/30/2019	5/1/2019	10/31/2018	1/30/2019	5/1/2019
	CAS RN	Units	N	N	N	N	N	N
PCB-42	36559-22-5	µg/kg	0.031	0.014 J	0.015	0.056	0.020 J	0.034
PCB-43/73	70362-46-8	µg/kg	0.018 J	0.0052 JN	< 0.0023 U	0.019 J	0.0085 JN	< 0.0039 U
PCB-44/47/65	41464-39-5	µg/kg	0.38	0.13 J	0.047	0.55	0.14 J	0.13
PCB-45/51	70362-45-7	µg/kg	0.054	0.020 J	< 0.0025 U	0.023 JN	0.015 JN	0.028
PCB-46	41464-47-5	µg/kg	0.0086 J	< 0.0032 UJ	< 0.0031 U	0.0083 JN	0.0033 JN	< 0.0053 U
PCB-48	70362-47-9	µg/kg	0.020 J	0.0096 JN	0.0064 JN	0.037	0.012 J	0.018
PCB-49/69	41464-40-8	µg/kg	0.20	0.066 J	0.037	0.29	0.083 J	0.094
PCB-50/53	62796-65-0	µg/kg	0.060	0.022 J	0.011 J	0.044	0.017 JN	0.026
PCB-52	35693-99-3	µg/kg	0.68	0.17 J	0.080	1.3	0.27 J	0.19
PCB-54	15968-05-5	µg/kg	0.017 J	0.0053 JN	< 0.0013 U	0.0042 JN	0.0039 J	< 0.0014 U
PCB-55	74338-24-2	µg/kg	< 0.0022 U	0.0035 J	< 0.0018 U	0.0093 JN	0.0034 JN	< 0.0030 U
PCB-56	41464-43-1	µg/kg	0.081	0.029 J	0.017	0.13	0.039 J	0.026
PCB-57	70424-67-8	µg/kg	< 0.0022 U	< 0.0019 UJ	< 0.0018 U	< 0.0027 U	< 0.00027 UJ	< 0.0031 U
PCB-58	41464-49-7	µg/kg	< 0.0023 U	< 0.0019 UJ	< 0.0018 U	0.0040 J	< 0.00027 UJ	< 0.0031 U
PCB-59/62/75	74472-33-6	µg/kg	0.012 J	< 0.0018 UJ	< 0.0017 U	0.015 J	0.0067 J	0.013 J
PCB-60	33025-41-1	µg/kg	0.038	0.012 JN	0.0054 JN	0.058	0.021 J	0.013
PCB-61/70/74/76	33284-53-6	µg/kg	0.67	0.17 J	0.075 JN	1.2	0.26 J	0.12
PCB-63	74472-34-7	µg/kg	0.0074 JN	< 0.0017 UJ	< 0.0016 U	0.012 J	0.0043 JN	< 0.0028 U
PCB-64	52663-58-8	µg/kg	0.088	0.031 J	0.018 JN	0.17	0.047 J	0.042 JN
PCB-66	32598-10-0	µg/kg	0.22	0.072 J	0.045	0.36	0.10 J	0.072
PCB-67	73575-53-8	µg/kg	< 0.0019 U	< 0.0016 UJ	< 0.0015 U	0.0075 J	< 0.00023 UJ	< 0.0027 U
PCB-68	73575-52-7	µg/kg	< 0.0020 U	< 0.0016 UJ	< 0.0016 U	< 0.0024 U	0.0019 JN	< 0.0027 U
PCB-72	41464-42-0	µg/kg	< 0.0022 U	< 0.0018 UJ	< 0.0017 U	< 0.0027 U	< 0.00026 UJ	< 0.0030 U
PCB-77	32598-13-3	µg/kg	0.048 JN	0.013 J	0.0059 J	0.094	0.022 JN	0.0081 J
PCB-78	70362-49-1	µg/kg	< 0.0023 U	< 0.0019 UJ	< 0.0018 U	< 0.0028 U	< 0.00027 UJ	< 0.0031 U
PCB-79	41464-48-6	µg/kg	0.0059 JN	< 0.0016 UJ	< 0.0016 U	0.015 J	0.0031 JN	< 0.0027 U
PCB-80	33284-52-5	µg/kg	< 0.0019 U	< 0.0016 UJ	< 0.0015 U	< 0.0024 U	< 0.00023 UJ	< 0.0027 U
PCB-81	70362-50-4	µg/kg	< 0.0020 U	< 0.0017 UJ	< 0.0016 U	0.0035 J	< 0.00025 UJ	< 0.0028 U
PCB-82	52663-62-4	µg/kg	0.19	0.041 J	0.011 JN	0.36	0.074 J	0.016 JN
PCB-83/99	60145-20-2	µg/kg	0.83	0.18 J	0.061 JN	1.5	0.29 J	0.13
PCB-84	52663-60-2	µg/kg	0.39	0.080 J	0.029 JN	0.76	0.12 J	0.065 JN
PCB-85/116/117	65510-45-4	µg/kg	0.28	0.056 JN	0.019 JN	0.52	0.10 J	0.034 JN
PCB-86/87/97/109/119/125	55312-69-1	µg/kg	1.1	0.21 J	0.075	2.0	0.35 J	0.12
PCB-88/91	55215-17-3	µg/kg	0.21	0.050 J	0.020 JN	0.35	0.057 JN	0.040
PCB-89	73575-57-2	µg/kg	< 0.00068 U	0.0042 JN	< 0.0021 U	0.028	< 0.00030 UJ	< 0.0037 U
PCB-90/101/113	68194-07-0	µg/kg	1.6	0.31 J	0.11	2.8	0.50 J	0.21
PCB-92	52663-61-3	µg/kg	0.27	0.059 J	0.021	0.46	0.089 J	0.047
PCB-93/100	73575-56-1	µg/kg	0.034 J	0.012 JN	0.0053 JN	0.048	0.0096 J	0.0077 JN
PCB-94	73575-55-0	µg/kg	0.011 J	< 0.00033 UJ	< 0.0021 U	0.012 JN	< 0.00030 UJ	< 0.0037 U
PCB-95	38379-99-6	µg/kg	1.2	0.25 J	0.10	2.2	0.39 J	0.22
PCB-96	73575-54-9	µg/kg	0.012 JN	< 0.00025 UJ	< 0.0016 U	0.020	0.0047 J	< 0.0028 U
PCB-98/102	60233-25-2	µg/kg	0.035 JN	0.013 J	0.0093 J	0.074	0.016 J	0.013 JN
PCB-103	60145-21-3	µg/kg	0.016 J	0.0048 J	< 0.0019 U	0.013 JN	0.0045 J	< 0.0033 U
PCB-104	56558-16-8	µg/kg	< 0.00046 U	< 0.00022 UJ	< 0.0014 U	< 0.00047 U	< 0.00020 UJ	< 0.0025 U
PCB-105	32598-14-4	µg/kg	0.66	0.12 J	0.047	1.2	0.19 J	0.054
PCB-106	70424-69-0	µg/kg	< 0.0031 U	< 0.0020 UJ	< 0.0016 U	< 0.0035 U	< 0.0022 UJ	< 0.0033 U
PCB-107	70424-68-9	µg/kg	0.10 JN	0.026 J	0.0096 JN	0.20	0.035 J	0.012 JN
PCB-108/124	70362-41-3	µg/kg	0.065	0.014 J	0.0057 JN	0.12	0.023 J	0.0071 JN
PCB-110/115	38380-03-9	µg/kg	1.9	0.38 J	0.13	3.3	0.58 J	0.23
PCB-111	39635-32-0	µg/kg	< 0.00042 U	< 0.00020 UJ	< 0.0013 U	< 0.00044 U	< 0.00019 UJ	< 0.0023 U
PCB-112	74472-36-9	µg/kg	0.011 J	< 0.00021 UJ	< 0.0014 U	< 0.00046 U	0.0015 JN	< 0.0024 U
PCB-114	74472-37-0	µg/kg	0.038	< 0.0019 UJ	< 0.0015 U	0.071	0.012 J	< 0.0030 U
PCB-118	31508-00-6	µg/kg	1.6	0.30 J	0.11	2.7	0.47 J	0.14
PCB-120	68194-12-7	µg/kg	< 0.00043 U	< 0.00021 UJ	< 0.0013 U	< 0.00045 U	< 0.00019 UJ	< 0.0023 U
PCB-121	56558-18-0	µg/kg	< 0.00044 U	< 0.00021 UJ	< 0.0014 U	< 0.00046 U	< 0.00020 UJ	< 0.0024 U
PCB-122	76842-07-4	µg/kg	0.022 JN	< 0.0023 UJ	< 0.0019 U	0.056	0.0080 JN	< 0.0039 U
PCB-123	65510-44-3	µg/kg	0.033 JN	0.0059 J	< 0.0016 U	0.044 JN	0.0092 JN	< 0.0032 U

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Chemical	Location		T06A			T06B		
	Sample ID	Date	PDI-ST-T06A-1810	PDI-ST-T06A-1901	PDI-ST-T06A-1905	PDI-ST-T06B-1810	PDI-ST-T06B-1901	PDI-ST-T06B-1905
	Sample Type	Code	10/31/2018	1/30/2019	5/1/2019	10/31/2018	1/30/2019	5/1/2019
	CAS RN	Units	N	N	N	N	N	N
PCB-126	57465-28-8	µg/kg	0.020 JN	< 0.0022 UJ	< 0.0019 U	0.043	< 0.0025 UJ	< 0.0039 U
PCB-127	39635-33-1	µg/kg	< 0.0031 U	< 0.0020 UJ	< 0.0016 U	< 0.0035 U	< 0.0022 UJ	< 0.0033 U
PCB-128/166	38380-07-3	µg/kg	0.35	0.071 J	0.029 JN	0.62	0.12 J	0.035 JN
PCB-129/138/160/163	55215-18-4	µg/kg	2.2	0.49 J	0.19	3.5	0.73 J	0.29
PCB-130	52663-66-8	µg/kg	0.14	0.028 JN	0.017 JN	0.25	0.047 J	0.021 JN
PCB-131	61798-70-7	µg/kg	0.030	< 0.0029 UJ	< 0.0036 U	0.064	0.014 J	< 0.0077 U
PCB-132	38380-05-1	µg/kg	0.67	0.14 J	0.049 JN	1.2	0.21 J	0.095
PCB-133	35694-04-3	µg/kg	0.026	0.0063 J	< 0.0033 U	0.038	0.012 J	< 0.0070 U
PCB-134/143	52704-70-8	µg/kg	0.12	0.023 JN	0.058 JN	0.20	0.043 J	0.015 J
PCB-135/151	52744-13-5	µg/kg	0.50	0.12 J	0.046	0.68	0.16 J	0.095
PCB-136	38411-22-2	µg/kg	0.21	0.044 J	0.018	0.30	0.058 J	0.035
PCB-137	35694-06-5	µg/kg	0.12	0.023 J	0.0097 J	0.22	0.039 J	0.017 JN
PCB-139/140	56030-56-9	µg/kg	0.033 J	0.0062 JN	< 0.0029 U	0.073	0.012 J	< 0.0063 U
PCB-141	52712-04-6	µg/kg	0.35	0.081 J	0.030 JN	0.54	0.12 J	0.051
PCB-142	41411-61-4	µg/kg	< 0.0053 U	< 0.0026 UJ	< 0.0033 U	< 0.0055 U	< 0.0031 UJ	< 0.0070 U
PCB-144	68194-14-9	µg/kg	0.066	0.014 J	< 0.0020 U	0.11	0.021 J	0.012 JN
PCB-145	74472-40-5	µg/kg	< 0.00053 U	< 0.00014 UJ	< 0.0015 U	0.0037 JN	< 0.00025 UJ	< 0.0024 U
PCB-146	51908-16-8	µg/kg	0.27	0.065 J	0.036	0.39	0.099 J	0.040 JN
PCB-147/149	68194-13-8	µg/kg	1.4	0.35 J	0.15	2.1	0.47 J	0.26
PCB-148	74472-41-6	µg/kg	0.0030 JN	< 0.0020 UJ	< 0.0022 U	0.0030 JN	0.0019 J	< 0.0034 U
PCB-150	68194-08-1	µg/kg	0.0046 J	0.0014 J	< 0.0015 U	0.0030 J	0.0012 JN	< 0.0023 U
PCB-152	68194-09-2	µg/kg	0.0021 J	< 0.00015 UJ	< 0.0016 U	0.0038 J	< 0.00026 UJ	< 0.0025 U
PCB-153/168	35065-27-1	µg/kg	1.4	0.36 J	0.15	2.1	0.48 J	0.24
PCB-154	60145-22-4	µg/kg	0.024	0.0039 JN	< 0.0017 U	0.032	0.010 JN	0.0045 J
PCB-155	33979-03-2	µg/kg	< 0.00051 U	< 0.00014 UJ	< 0.0015 U	< 0.00071 U	< 0.00024 UJ	< 0.0023 U
PCB-156/157	38380-08-4	µg/kg	0.31	0.056 J	0.020 JN	0.51	0.084 J	0.025 JN
PCB-158	74472-42-7	µg/kg	0.25	0.051 J	0.020	0.40	0.077 J	0.029
PCB-159	39635-35-3	µg/kg	< 0.0036 U	< 0.0018 UJ	< 0.0022 U	0.0090 J	0.0041 J	< 0.0047 U
PCB-161	74472-43-8	µg/kg	< 0.0035 U	< 0.0017 UJ	< 0.0022 U	< 0.0037 U	< 0.0020 UJ	< 0.0046 U
PCB-162	39635-34-2	µg/kg	0.0070 JN	< 0.0017 UJ	< 0.0022 U	0.015 J	< 0.0020 UJ	< 0.0046 U
PCB-164	74472-45-0	µg/kg	0.14	0.033 J	0.014	0.23	0.048 J	0.027
PCB-165	74472-46-1	µg/kg	< 0.0040 U	< 0.0020 UJ	< 0.0025 U	< 0.0042 U	< 0.0023 UJ	< 0.0053 U
PCB-167	52663-72-6	µg/kg	0.092	0.016 J	0.0087 J	0.16	0.030 J	< 0.0034 U
PCB-169	32774-16-6	µg/kg	< 0.0026 U	< 0.0013 UJ	< 0.0017 U	< 0.0027 U	< 0.0016 UJ	< 0.0037 U
PCB-170	35065-30-6	µg/kg	0.38	0.095 J	0.048	0.46	0.12 J	0.057 JN
PCB-171/173	52663-71-5	µg/kg	0.11	0.029 J	< 0.0039 U	0.13	0.036 J	0.025
PCB-172	52663-74-8	µg/kg	0.061	0.016 J	< 0.0039 U	0.060	0.022 J	0.016
PCB-174	38411-25-5	µg/kg	0.30	0.093 J	0.046	0.31	0.10 J	0.052
PCB-175	40186-70-7	µg/kg	0.013 J	0.0036 JN	< 0.0036 U	0.014 J	0.0020 JN	< 0.0047 U
PCB-176	52663-65-7	µg/kg	0.039	0.0087 J	< 0.0027 U	0.037	0.013 J	0.018
PCB-177	52663-70-4	µg/kg	0.19	0.053 JN	0.023	0.19	0.070 J	0.039
PCB-178	52663-67-9	µg/kg	0.064	0.020 J	0.013	0.056	0.023 J	0.019
PCB-179	52663-64-6	µg/kg	0.12	0.045 J	0.018	0.10	0.045 J	0.035
PCB-180/193	35065-29-3	µg/kg	0.69	0.20 J	0.085	0.68	0.20 J	0.11
PCB-181	74472-47-2	µg/kg	< 0.0021 U	< 0.00089 UJ	< 0.0035 U	0.010 J	0.0020 JN	< 0.0047 U
PCB-182	60145-23-5	µg/kg	0.0058 J	< 0.00086 UJ	< 0.0034 U	0.0079 J	< 0.00029 UJ	< 0.0045 U
PCB-183/185	52663-69-1	µg/kg	0.21	0.059 J	0.026 JN	0.20	0.069 J	0.033 JN
PCB-184	74472-48-3	µg/kg	< 0.0017 U	< 0.00073 UJ	< 0.0029 U	< 0.0021 U	< 0.00024 UJ	< 0.0038 U
PCB-186	74472-49-4	µg/kg	< 0.0017 U	< 0.00071 UJ	< 0.0028 U	< 0.0021 U	< 0.00024 UJ	< 0.0037 U
PCB-187	52663-68-0	µg/kg	0.36	0.13 J	0.063	0.32	0.14 J	0.077
PCB-188	74487-85-7	µg/kg	< 0.0015 U	< 0.00060 UJ	< 0.0023 U	< 0.0018 U	< 0.00020 UJ	< 0.0030 U
PCB-189	39635-31-9	µg/kg	0.015 J	0.0046 JN	< 0.0033 U	0.020 JN	< 0.0022 UJ	< 0.0066 U
PCB-190	41411-64-7	µg/kg	0.064	0.019 J	< 0.0026 U	0.071	0.021 J	0.010 J
PCB-191	74472-50-7	µg/kg	0.014 J	0.0031 JN	< 0.0027 U	0.021	0.0073 JN	< 0.0035 U
PCB-192	74472-51-8	µg/kg	< 0.0018 U	< 0.00075 UJ	< 0.0030 U	< 0.0022 U	< 0.00025 UJ	< 0.0039 U
PCB-194	35694-08-7	µg/kg	0.13	0.047 J	0.020 JN	0.10	0.049 J	0.041
PCB-195	52663-78-2	µg/kg	0.056	0.021 J	< 0.0052 U	0.044	0.023 J	< 0.011 U

Table A.3a-1. Chemical Results for PDI Sediment Trap Samples

Chemical	Location		T06A			T06B		
	Sample ID	Date	PDI-ST-T06A-1810	PDI-ST-T06A-1901	PDI-ST-T06A-1905	PDI-ST-T06B-1810	PDI-ST-T06B-1901	PDI-ST-T06B-1905
	Sample Type	Code	10/31/2018	1/30/2019	5/1/2019	10/31/2018	1/30/2019	5/1/2019
	CAS_RN	Units	N	N	N	N	N	N
PCB-196	42740-50-1	µg/kg	0.062	0.020 J	0.012	0.051	0.019 JN	0.012 JN
PCB-197	33091-17-7	µg/kg	0.0056 J	0.0014 JN	< 0.0022 U	0.0042 JN	0.0024 J	< 0.0036 U
PCB-198/199	68194-17-2	µg/kg	0.15	0.044 JN	0.029	0.13	0.057 J	0.044
PCB-200	52663-73-7	µg/kg	0.015 JN	0.0042 J	< 0.0019 U	0.0094 J	0.0037 JN	< 0.0032 U
PCB-201	40186-71-8	µg/kg	0.012 JN	0.0047 J	< 0.0020 U	0.012 JN	0.0054 JN	< 0.0033 U
PCB-202	2136-99-4	µg/kg	0.028	0.0094 JN	< 0.0022 U	0.028	0.0096 JN	0.012
PCB-203	52663-76-0	µg/kg	0.089	0.031 J	0.013	0.071	0.035 J	0.021 JN
PCB-204	74472-52-9	µg/kg	< 0.0018 U	< 0.00036 UJ	< 0.0022 U	< 0.0019 U	< 0.00030 UJ	< 0.0036 U
PCB-205	74472-53-0	µg/kg	< 0.0045 U	< 0.0013 UJ	< 0.0040 U	< 0.0045 U	< 0.0011 UJ	< 0.0087 U
PCB-206	40186-72-9	µg/kg	0.070	0.027 JN	0.012 JN	0.065 JN	0.041 J	< 0.013 U
PCB-207	52663-79-3	µg/kg	< 0.0041 U	0.0027 JN	< 0.0025 U	< 0.0036 U	0.0049 J	< 0.0086 U
PCB-208	52663-77-1	µg/kg	0.019 JN	0.0082 JN	< 0.0024 U	0.021	0.011 JN	< 0.0086 U
PCB-209	2051-24-3	µg/kg	0.076	0.048 J	0.038	0.067	0.046 J	0.041
Total PCBs	(b) T_PCBcg (PDI)	µg/kg	26	6.24	2.6	41	8.87	4.8
Pesticides								
2,4-DDD	53-19-0	µg/kg	< 0.73 U	< 0.38 U	0.14	< 0.77 U	< 0.39 U	0.15
2,4-DDE	3424-82-6	µg/kg	< 0.73 U	< 0.38 U	< 0.11 U	< 0.77 U	< 0.39 U	< 0.13 U
2,4-DDT	789-02-6	µg/kg	< 0.73 U	< 0.38 U	< 0.11 UJ	< 0.77 U	< 0.39 U	< 0.13 UJ
4,4'-DDD	72-54-8	µg/kg	< 0.73 U	0.79	0.60	< 0.77 U	0.74	0.62
4,4'-DDE	72-55-9	µg/kg	1.4	1.5	1.1 J	1.4	1.4	1.0 J
4,4'-DDT	50-29-3	µg/kg	0.42 J	1.1	0.49	0.37 J	2.3	0.38
DDx	(b) T_DDx (PDI)	µg/kg	2.2	3.6	2.4	2.2	4.6	2.2
Aldrin	309-00-2	µg/kg	1.6	< 0.38 U	< 0.11 U	< 0.77 U	< 0.39 U	< 0.13 U
alpha-Chlordane	5103-71-9	µg/kg	< 1.5 U	< 0.76 U	0.081 J	< 1.5 U	< 0.79 U	0.084 J
cis-Nonachlor	5103-73-1	µg/kg	< 0.73 U	< 0.38 U	< 0.11 U	< 0.77 U	< 0.39 U	< 0.13 U
Dieldrin	60-57-1	µg/kg	< 1.5 U	< 0.76 U	0.17 J	< 1.5 U	< 0.79 U	0.18 J
gamma-BHC (Lindane)	58-89-9	µg/kg	< 0.73 U	< 0.38 U	< 0.11 U	< 0.77 U	< 0.39 U	< 0.13 U
gamma-Chlordane	5566-34-7	µg/kg	< 1.5 U	< 0.76 U	0.087 J	< 1.5 U	< 0.79 U	0.096 J
Heptachlor	76-44-8	µg/kg	< 0.73 U	< 0.38 U	< 0.11 U	< 0.77 U	< 0.39 U	< 0.13 U
Oxychlordane	27304-13-8	µg/kg	< 1.5 U	< 0.76 U	0.29	< 1.5 U	< 0.79 U	2.1
trans-Nonachlor	39765-80-5	µg/kg	< 1.5 U	< 0.76 U	0.12 J	< 1.5 U	< 0.79 U	0.12 J
Total Chlordanes	(b) T_Clrnd (PDI)	µg/kg	< 1.5 U	< 0.76 U	0.63	< 1.5 U	< 0.79 U	2.5
Metals								
Arsenic	7440-38-2	mg/kg	8.4	7.2	4.2	7.3	6.9	5.0
Cadmium	7440-43-9	mg/kg	0.30 J	0.21 J	0.15 J	0.28 J	0.21 J	0.13 J
Copper	7440-50-8	mg/kg	58	46	29	51	43	32
Lead	7439-92-1	mg/kg	22	12	7.6	18	13	9.4 J
Mercury	7439-97-6	mg/kg	0.27	0.066 J	0.076	0.16	0.070 J	0.10 J
Tri-n-butyltin	36643-28-4	µg/kg	< 3.9 U	< 3.9 U	< 2.1 U	< 3.9 U	< 4.0 U	< 2.6 U
Zinc	7440-66-6	mg/kg	170	120	75	140	110	96
Polycyclic Aromatic Hydrocarbons (PAHs)								
2-Methylnaphthalene	91-57-6	µg/kg	1.9 J	0.97 J	0.53 J	1.8 J	0.93 J	0.99 J
Acenaphthene	83-32-9	µg/kg	2.2 J	0.81 J	0.52 J	5.0	3.3	2.8 J
Acenaphthylene	208-96-8	µg/kg	2.0 J	0.91 J	0.51 J	2.0 J	2.9	0.99 J
Anthracene	120-12-7	µg/kg	5.0	2.8	1.2	5.4	7.3	2.0
Benzo(a)anthracene	56-55-3	µg/kg	16	9.5	2.2	11	27	5.3
Benzo(a)pyrene	50-32-8	µg/kg	16	15 J	3.4	15	37	7.4
Benzo(b)fluoranthene	205-99-2	µg/kg	30	13	4.7	20	36	9.4
Benzo(g,h,i)perylene	191-24-2	µg/kg	18 J	8.4	4.2	17	18	7.2
Benzo(k)fluoranthene	207-08-9	µg/kg	9.9	5.6	1.7	7.1	13	3.3
Chrysene	218-01-9	µg/kg	23	13	3.6	14	30	8.1
Dibenz(a,h)anthracene	53-70-3	µg/kg	2.9	1.1	0.61	2.4	4.6	1.5
Dibenzofuran	132-64-9	µg/kg	2.0 J	0.69 J	0.58	1.9	0.81 J	0.82 J
Fluoranthene	206-44-0	µg/kg	54	31	7.2	33	40	11
Fluorene	86-73-7	µg/kg	2.8	0.76 J	0.68	2.7	2.5	1.2 J
Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	15	6.8	3.9 J	13	19	6.6 J
Naphthalene	91-20-3	µg/kg	2.9 J	1.3 J	1.0 J	3.3	1.4 J	2.2 J

Table A.3a-1. Chemical Results for PDI Sediment Trap Samples

Chemical	Location		T06A			T06B		
	Sample ID	Date	PDI-ST-T06A-1810	PDI-ST-T06A-1901	PDI-ST-T06A-1905	PDI-ST-T06B-1810	PDI-ST-T06B-1901	PDI-ST-T06B-1905
	Sample Type Code		10/31/2018	1/30/2019	5/1/2019	10/31/2018	1/30/2019	5/1/2019
	CAS_RN	Units	N	N	N	N	N	N
Phenanthrene	85-01-8	µg/kg	21	7.2	4.0	20	22	6.7
Pyrene	129-00-0	µg/kg	52	26	6.4	36	39	11 J
Total PAHs	(b) T_PAH (PDI)	µg/kg	270	140	46	210	300	88
BaP-TEQ	(b) T_BaP-TEQ (PDI)	µg/kg	25	19	5.1	22	50	11
Semivolatile Organic Carbons (SVOCs)								
Bis(2-ethylhexyl)phthalate	117-81-7	µg/kg	150 J	< 200 U	53 J	140 J	< 200 U	51 J
Total petroleum hydrocarbons (TPH)								
TPH-Diesel Range Organics	68334-30-5	mg/kg	150 J	130 J	71 J	190	170 J	87 J
TPH-Motor Oil Range Organics	TPH-MOIL	mg/kg	760	730	440	640	940	620
Other								
Total Solids@104C	(e) TSOLID	%	23.5	25.2	45.8	28.1	24.7	40.1
Total Solids@104C	(d) TSOLID	%	25.6	25.6	46.2	25.3	25.0	38.5
Total Solids@70C	(e) TSOLID70	%	25	25	48	25	24	50
Clay	GS-Clay	%	16.5	10.0	7.4	18.9	10.2	7.7
Gravel	GS-Gravel	%	0	0	0.1	0	0	0.1
Sand, Coarse	GS-Csand	%	0	0	0.1	0.1	0.1	0.3
Sand, Fine (#200)	GS-Fsand-200	%	7.7	13.4	51.2	5.9	13.5	65.3
Sand, Fine (#230)	GS-Fsand	%	9.5	16.7	55.1	7.8	17.0	68.3
Sand, Medium	GS-Msand	%	0.2	0.2	1.1	0.4	0.7	2.6
Silt (#200)	GS-Silt-200	%	75.5	76.4	40.1	74.8	75.6	24.1
Silt (#230)	GS-Silt	%	73.7	73.1	36.2	72.9	72.1	21.1
Percent Fines	(f) GS-FINES	%	92	86.4	47.5	93.7	85.8	31.8
Total Organic Carbon	TOC	mg/kg	38000	36000	43000	39000	40000	23000

Notes:

- a. Qualifiers:
 - J = The chemical was positively identified; however, the associated numerical value is an estimated concentration.
 - NJ = The analyte was tentatively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
 - U = Not detected at detection limit shown.
 - UP = Not detected; sample detection limit is estimated.
- b. Totals and TEQs were calculated using EPA Region 10's 12/12/2017 data summation rules for the PDI, with clarifications in AECOM's 8/31/2018 memorandum (see Appendix C3).
- c. Alternate TCDD-TEQ calculated based on data summing rules provided in Appendix E.
- d. Solids results provided by ALS-Kelso Laboratory with the pesticide, PAH, SVOC, and tri-n-butyltin data.
- e. Solids results provided by TestAmerica-WA Laboratory with the metals, TPH, and physical parameters.
- f. Sum of silt (#200) and clay fractions.

Acronyms:

- µg/kg = microgram per kilogram
- BaP = benzo(a)pyrene
- BHC = benzene hexachloride
- CAS_RN = Chemical Abstracts Service Registry Number
- DDD = dichlorodiphenyldichloroethane
- DDE = dichlorodiphenyldichloroethylene
- DDT = dichlorodiphenyltrichloroethane
- DDx = dichlorodiphenyltrichloroethane and its derivatives
- EMPC = estimated maximum possible concentration
- EPA = U.S. Environmental Protection Agency
- HpCDD = heptachlorodibenzo-p-dioxin
- HpCDF = heptachlorodibenzofuran
- HxCDD = hexachlorodibenzo-p-dioxin
- HxCDF = hexachlorodibenzofuran
- ID = identifier
- mg/kg = milligram per kilogram
- N = normal sample
- OCDD = octachlorodibenzodioxin
- OCDF = octachlorodibenzofuran
- PAH = polycyclic aromatic hydrocarbon
- PCB = polychlorinated biphenyl
- PDI = Pre-Remedial Design Investigation
- SVOC = semivolatile organic compound
- TCDD = tetrachlorodibenzo-p-dioxin
- TCDF = tetrachlorodibenzofuran
- TEQ = toxicity equivalence
- TPH = total petroleum hydrocarbon

Table A.3a-1. Chemical Results for PDI Sediment Trap Samples

Chemical	CAS RN	Units	T07A			T07B		
			PDI-ST-T07A-1810	PDI-ST-T07A-1901	PDI-ST-T07A-1905	PDI-ST-T07B-1810	PDI-ST-T07B-1901	PDI-ST-T07B-1905
			Date 10/31/2018	Date 1/30/2019	Date 5/1/2019	Date 10/31/2018	Date 1/30/2019	Date 5/1/2019
Sample Type Code	N	N	N	N	N	N		
Dioxins and Furans								
1,2,3,4,6,7,8-HpCDD	35822-46-9	µg/kg	0.36 J	0.071 J	0.023	0.13 J	0.064 J	0.067
1,2,3,4,6,7,8-HpCDF	67562-39-4	µg/kg	0.060 J	0.017 JN	0.0047 JN	0.029 JN	0.015 JN	0.0085 JN
1,2,3,4,7,8,9-HpCDF	55673-89-7	µg/kg	< 0.0043 UJ	0.0010 J	< 0.00025 U	0.0022 J	< 0.00027 UJ	< 0.00036 U
1,2,3,4,7,8-HxCDD	39227-28-6	µg/kg	< 0.0031 UJ	0.0013 J	0.00069 J	< 0.00097 UJ	0.0012 J	0.00074 J
1,2,3,4,7,8-HxCDF	70648-26-9	µg/kg	< 0.0047 UJ	0.0012 J	0.00045 J	< 0.0013 UJ	0.0011 J	0.00062 J
1,2,3,6,7,8-HxCDD	57653-85-7	µg/kg	0.0098 J	0.0033 J	0.0014 J	0.0079 J	0.0032 J	0.0020 J
1,2,3,6,7,8-HxCDF	57117-44-9	µg/kg	< 0.0044 UJ	< 0.00019 UJ	0.00035 J	< 0.0010 UJ	0.00065 J	0.00038 J
1,2,3,7,8,9-HxCDD	19408-74-3	µg/kg	0.0088 JN	0.0029 J	0.0014 J	0.0044 J	0.0025 J	0.0015 J
1,2,3,7,8,9-HxCDF	72918-21-9	µg/kg	< 0.0025 UJ	0.00013 J+	0.00038 J	< 0.00062 UJ	0.00014 JN	< 0.00017 U
1,2,3,7,8-PeCDD	40321-76-4	µg/kg	< 0.0032 UJ	0.00056 JN	0.00042 J	< 0.00079 UJ	0.00055 J	0.00035 JN
1,2,3,7,8-PeCDF	57117-41-6	µg/kg	< 0.0026 UJ	0.00029 J	< 0.00014 U	< 0.00070 UJ	0.00025 JN	< 0.00013 U
2,3,4,6,7,8-HxCDF	60851-34-5	µg/kg	< 0.0028 UJ	0.00050 J	0.00022 JN	0.0013 J	0.00051 J	0.00028 J
2,3,4,7,8-PeCDF	57117-31-4	µg/kg	< 0.0030 UJ	0.00032 J	< 0.00016 U	< 0.00085 UJ	0.00025 JN	< 0.00015 U
2,3,7,8-TCDD	1746-01-6	µg/kg	< 0.0023 UJ	0.00095 JN	0.00028 JN	0.0011 JN	0.00026 JN	0.00058 J
2,3,7,8-TCDF	51207-31-9	µg/kg	< 0.0017 UJ	0.00055 J	0.00037 J	0.0019 J	0.00056 J	0.00044 J
OCDD	3268-87-9	µg/kg	5.4 J	0.62 J	0.19	1.0 J	0.55 J	0.59
OCDF	39001-02-0	µg/kg	0.65 J	0.091 J	0.014	0.080 J	0.050 J	0.034
TCDD-TEQ	(b) T_DF_TEQ (PDI)	µg/kg	0.0095	0.0037	0.0016	0.005	0.0028	0.0025
TCDD-TEQ (EMPC=half)	(c) T_DF_TEQ(E 0.5)	µg/kg	0.0086	0.0027	0.0014	0.004	0.0026	0.0023
TCDD-TEQ (EMPC=0)	(c) T_DF_TEQ(E 0)	µg/kg	0.007	0.0022	0.0012	0.0035	0.0025	0.0021
Polychlorinated Biphenyls (PCBs)								
PCB-1	2051-60-7	µg/kg	< 0.00044 U	< 0.00048 UJ	< 0.00049 U	0.0015 JN	< 0.00044 UJ	< 0.00051 U
PCB-2	2051-61-8	µg/kg	< 0.00050 U	0.0042 JN	< 0.00051 U	0.0039 J	< 0.00054 UJ	0.0020 JN
PCB-3	2051-62-9	µg/kg	< 0.00053 U	< 0.00061 UJ	< 0.00049 U	< 0.00048 U	< 0.00063 UJ	0.0060 JN
PCB-4	13029-08-8	µg/kg	< 0.0049 U	0.010 JN	0.0082 JN	0.0070 JN	0.0067 JN	0.028
PCB-5	16605-91-7	µg/kg	< 0.0038 U	< 0.0045 UJ	< 0.0030 U	< 0.0036 U	< 0.0038 UJ	< 0.0032 U
PCB-6	25569-80-6	µg/kg	< 0.0033 U	0.0055 JN	0.0056 JN	0.0040 JN	< 0.0033 UJ	0.031
PCB-7	33284-50-3	µg/kg	< 0.0034 U	< 0.0040 UJ	< 0.0027 U	< 0.0033 U	< 0.0034 UJ	0.0086 J
PCB-8	34883-43-7	µg/kg	0.015 JN	0.014 J	0.0094 J	0.012 JN	0.0078 JN	0.14
PCB-9	34883-39-1	µg/kg	< 0.0035 U	< 0.0041 UJ	< 0.0028 U	< 0.0034 U	< 0.0035 UJ	0.011 J
PCB-10	33146-45-1	µg/kg	< 0.0037 U	< 0.0044 UJ	< 0.0030 U	< 0.0036 U	< 0.0037 UJ	< 0.0031 U
PCB-11	2050-67-1	µg/kg	0.13	0.069 JN	0.035	0.11	0.062 JN	0.033
PCB-12/13	2974-92-7	µg/kg	0.0049 JN	0.0067 JN	0.0035 J	0.0040 JN	0.0041 JN	0.012 JN
PCB-14	34883-41-5	µg/kg	< 0.0029 U	< 0.0034 UJ	< 0.0023 U	< 0.0027 U	< 0.0029 UJ	< 0.0024 U
PCB-15	2050-68-2	µg/kg	0.018 JN	0.010 JN	0.0059 JN	0.016 JN	0.0091 J	0.086
PCB-16	38444-78-9	µg/kg	0.011 JN	0.012 J	0.0074 JN	0.0084 JN	0.0058 J	0.032
PCB-17	37680-66-3	µg/kg	0.020 JN	0.014 J	0.015	0.015 J	0.0058 JN	0.031 JN
PCB-18/30	37680-65-2	µg/kg	0.040 J	0.034 J	0.023	0.028 J	0.014 J	0.067
PCB-19	38444-73-4	µg/kg	0.0055 J	< 0.00075 UJ	< 0.0014 U	0.0030 JN	0.0017 JN	0.0084 J
PCB-20/28	38444-84-7	µg/kg	0.088	0.058 J	0.032	0.059	0.033 JN	0.082
PCB-21/33	55702-46-0	µg/kg	0.033 J	0.021 J	0.012 J	0.023 J	0.011 J	0.042
PCB-22	38444-85-8	µg/kg	0.026	0.015 JN	0.0090 J	0.018 J	0.010 J	0.026 JN
PCB-23	55720-44-0	µg/kg	< 0.0015 U	< 0.0013 UJ	< 0.00091 U	< 0.0012 U	< 0.00097 UJ	< 0.00097 U
PCB-24	55702-45-9	µg/kg	< 0.00049 U	< 0.00052 UJ	< 0.00097 U	0.0015 JN	< 0.00034 UJ	< 0.0015 U
PCB-25	55712-37-3	µg/kg	0.012 J	< 0.0011 UJ	0.0043 JN	0.0051 J	0.0034 JN	0.0086 JN
PCB-26/29	38444-81-4	µg/kg	0.018 J	0.011 J	0.0077 JN	0.011 J	0.0053 JN	0.017 JN
PCB-27	38444-76-7	µg/kg	0.0036 JN	< 0.00045 UJ	0.0034 JN	0.0019 JN	< 0.00029 UJ	0.0045 JN
PCB-31	16606-02-3	µg/kg	0.071	0.045 J	0.025	0.048	0.028 J	0.074
PCB-32	38444-77-8	µg/kg	0.013 JN	0.013 J	0.0078 J	0.011 J	0.0055 JN	0.020
PCB-34	37680-68-5	µg/kg	< 0.0015 U	< 0.0013 UJ	< 0.00095 U	< 0.0012 U	< 0.0010 UJ	< 0.0010 U
PCB-35	37680-69-6	µg/kg	< 0.0015 U	< 0.0013 UJ	< 0.00092 U	< 0.0012 U	< 0.00098 UJ	0.0017 JN
PCB-36	38444-87-0	µg/kg	< 0.0014 U	< 0.0012 UJ	< 0.00089 U	< 0.0011 U	< 0.00094 UJ	< 0.00094 U
PCB-37	38444-90-5	µg/kg	0.027	0.015 J	0.0090 J	0.021 J	0.012 J	0.022
PCB-38	53555-66-1	µg/kg	< 0.0015 U	< 0.0013 UJ	< 0.00095 U	< 0.0012 U	< 0.0010 UJ	< 0.0010 U
PCB-39	38444-88-1	µg/kg	< 0.0014 U	< 0.0012 UJ	< 0.00085 U	< 0.0011 U	< 0.00091 UJ	< 0.00091 U
PCB-40/41/71	38444-93-8	µg/kg	0.052 J	0.034 J	0.026 J	0.029 J	0.017 J	0.030 J

Table A.3a-1. Chemical Results for PDI Sediment Trap Samples

Chemical	Location		T07A			T07B		
	Sample ID	Date	PDI-ST-T07A-1810	PDI-ST-T07A-1901	PDI-ST-T07A-1905	PDI-ST-T07B-1810	PDI-ST-T07B-1901	PDI-ST-T07B-1905
	Sample Type	Code	10/31/2018	1/30/2019	5/1/2019	10/31/2018	1/30/2019	5/1/2019
	CAS_RN	Units	N	N	N	N	N	N
PCB-42	36559-22-5	µg/kg	0.029	0.019 J	0.014 JN	0.016 J	0.012 JN	0.014 JN
PCB-43/73	70362-46-8	µg/kg	0.0043 JN	< 0.0028 UJ	< 0.0011 U	0.0037 J	< 0.0018 UJ	0.0044 J
PCB-44/47/65	41464-39-5	µg/kg	0.22	0.12 J	0.061	0.073	0.051 J	0.060
PCB-45/51	70362-45-7	µg/kg	0.026 J	0.014 J	0.0093 J	0.0076 JN	0.0054 JN	0.014 J
PCB-46	41464-47-5	µg/kg	0.0052 JN	< 0.0037 UJ	< 0.0015 U	0.0043 J	< 0.0024 UJ	< 0.0024 U
PCB-48	70362-47-9	µg/kg	0.019 J	0.012 J	0.0062 JN	0.011 J	0.0048 J	0.0064 JN
PCB-49/69	41464-40-8	µg/kg	0.097	0.055 J	0.042	0.051	0.032 J	0.035
PCB-50/53	62796-65-0	µg/kg	0.0092 JN	0.0063 JN	0.0078 J	0.0087 J	0.0064 J	0.014 JN
PCB-52	35693-99-3	µg/kg	0.21	0.12 J	0.081	0.12	0.067 J	0.094
PCB-54	15968-05-5	µg/kg	< 0.000074 U	< 0.000041 UJ	< 0.0011 U	< 0.000098 U	< 0.000015 UJ	< 0.0014 U
PCB-55	74338-24-2	µg/kg	0.0057 JN	< 0.0021 UJ	< 0.00083 U	0.0041 JN	< 0.0014 UJ	< 0.0014 U
PCB-56	41464-43-1	µg/kg	0.046	0.027 J	0.021	0.030	0.018 J	0.020
PCB-57	70424-67-8	µg/kg	< 0.0020 U	< 0.0022 UJ	< 0.00085 U	< 0.0019 U	< 0.0014 UJ	< 0.0014 U
PCB-58	41464-49-7	µg/kg	< 0.0020 U	< 0.0022 UJ	< 0.00086 U	< 0.0019 U	< 0.0014 UJ	< 0.0014 U
PCB-59/62/75	74472-33-6	µg/kg	0.0081 J	0.0053 JN	0.0043 JN	0.0054 J	< 0.0013 UJ	0.0079 J
PCB-60	33025-41-1	µg/kg	0.019 J	0.012 JN	0.0095 J	0.015 J	0.0096 J	0.0084 JN
PCB-61/70/74/76	33284-53-6	µg/kg	0.24	0.13 J	0.085	0.15	0.083 J	0.083
PCB-63	74472-34-7	µg/kg	0.0052 J	< 0.0020 UJ	< 0.00077 U	0.0027 J	< 0.0013 UJ	< 0.0013 U
PCB-64	52663-58-8	µg/kg	0.044	0.031 J	0.021	0.031	0.018 J	0.025
PCB-66	32598-10-0	µg/kg	0.13	0.078 J	0.047	0.080	0.052 J	0.047
PCB-67	73575-53-8	µg/kg	0.0023 JN	< 0.0019 UJ	< 0.00073 U	< 0.0016 U	< 0.0012 UJ	< 0.0012 U
PCB-68	73575-52-7	µg/kg	0.015 J	< 0.0019 UJ	< 0.00075 U	0.0020 J	< 0.0012 UJ	< 0.0012 U
PCB-72	41464-42-0	µg/kg	0.0049 JN	< 0.0021 UJ	< 0.00083 U	0.0027 J	< 0.0014 UJ	< 0.0014 U
PCB-77	32598-13-3	µg/kg	0.013 J	0.0087 J	0.0058 J	0.011 J	0.0080 JN	0.0086 J
PCB-78	70362-49-1	µg/kg	< 0.0020 U	< 0.0022 UJ	< 0.00086 U	< 0.0019 U	< 0.0014 UJ	< 0.0014 U
PCB-79	41464-48-6	µg/kg	< 0.0017 U	< 0.0019 UJ	< 0.00074 U	< 0.0016 U	< 0.0012 UJ	< 0.0012 U
PCB-80	33284-52-5	µg/kg	< 0.0017 U	< 0.0019 UJ	< 0.00073 U	< 0.0016 U	< 0.0012 UJ	< 0.0012 U
PCB-81	70362-50-4	µg/kg	< 0.0018 U	< 0.0020 UJ	< 0.00080 U	< 0.0017 U	< 0.0013 UJ	< 0.0013 U
PCB-82	52663-62-4	µg/kg	0.032 JN	0.021 J	0.0098 J	0.025 JN	0.016 JN	0.013 JN
PCB-83/99	60145-20-2	µg/kg	0.24	0.11 J	0.062 JN	0.15	0.081 J	0.075
PCB-84	52663-60-2	µg/kg	0.079	0.040 J	0.021 JN	0.051	0.022 JN	0.028 JN
PCB-85/116/117	65510-45-4	µg/kg	0.070 J	0.034 JN	0.020 J	0.050 J	0.026 J	0.021 J
PCB-86/87/97/109/119/125	55312-69-1	µg/kg	0.22	0.12 J	0.061	0.14 JN	0.082 J	0.076
PCB-88/91	55215-17-3	µg/kg	0.049 JN	0.027 J	0.014 JN	0.028 J	0.016 J	0.020 J
PCB-89	73575-57-2	µg/kg	0.0034 JN	0.0024 J	< 0.0011 U	< 0.00055 U	< 0.00022 UJ	< 0.0024 U
PCB-90/101/113	68194-07-0	µg/kg	0.37	0.19 J	0.099	0.23	0.13 J	0.13
PCB-92	52663-61-3	µg/kg	0.069	0.030 J	0.021	0.042	0.019 JN	0.025
PCB-93/100	73575-56-1	µg/kg	0.0047 JN	0.0065 J	< 0.0010 U	0.0026 JN	0.0018 JN	< 0.0021 U
PCB-94	73575-55-0	µg/kg	< 0.00079 U	< 0.00029 UJ	< 0.0011 U	< 0.00055 U	< 0.00022 UJ	< 0.0024 U
PCB-95	38379-99-6	µg/kg	0.28	0.13 J	0.077	0.18	0.087 J	0.10
PCB-96	73575-54-9	µg/kg	< 0.00060 U	< 0.00022 UJ	< 0.00086 U	< 0.00042 U	< 0.00017 UJ	< 0.0018 U
PCB-98/102	60233-25-2	µg/kg	0.011 J	0.0048 JN	< 0.00098 U	0.0063 J	0.0042 J	< 0.0020 U
PCB-103	60145-21-3	µg/kg	0.0077 J	0.0028 J	< 0.0010 U	< 0.00049 U	< 0.00020 UJ	< 0.0021 U
PCB-104	56558-16-8	µg/kg	< 0.00053 U	< 0.00019 UJ	< 0.00077 U	< 0.00037 U	< 0.00015 UJ	< 0.0016 U
PCB-105	32598-14-4	µg/kg	0.12	0.071 J	0.030	0.097	0.050 J	0.043
PCB-106	70424-69-0	µg/kg	< 0.0029 U	< 0.0020 UJ	< 0.0013 U	< 0.0026 U	< 0.0018 UJ	< 0.0021 U
PCB-107	70424-68-9	µg/kg	0.028	0.014 JN	0.0083 J	0.020 J	0.012 J	0.012
PCB-108/124	70362-41-3	µg/kg	0.013 J	0.0061 JN	< 0.0013 U	0.010 J	0.0050 J	< 0.0021 U
PCB-110/115	38380-03-9	µg/kg	0.42	0.22 J	0.11	0.29	0.16 J	0.14
PCB-111	39635-32-0	µg/kg	0.0030 J	< 0.00018 UJ	< 0.00071 U	< 0.00034 U	< 0.00014 UJ	< 0.0015 U
PCB-112	74472-36-9	µg/kg	0.0039 JN	0.0038 JN	< 0.00075 U	< 0.00036 U	0.00084 JN	< 0.0016 U
PCB-114	74472-37-0	µg/kg	0.0056 JN	< 0.0019 UJ	< 0.0012 U	0.0035 JN	< 0.0017 UJ	< 0.0019 U
PCB-118	31508-00-6	µg/kg	0.32	0.16 J	0.079	0.25	0.12 J	0.098
PCB-120	68194-12-7	µg/kg	0.0044 J	< 0.00018 UJ	< 0.00072 U	0.0015 JN	< 0.00014 UJ	< 0.0015 U
PCB-121	56558-18-0	µg/kg	< 0.00051 U	< 0.00019 UJ	< 0.00074 U	< 0.00036 U	< 0.00014 UJ	< 0.0015 U
PCB-122	76842-07-4	µg/kg	< 0.0034 U	< 0.0024 UJ	< 0.0015 U	< 0.0030 U	< 0.0021 UJ	< 0.0024 U
PCB-123	65510-44-3	µg/kg	0.0077 J	0.0028 JN	0.0020 J	0.0036 JN	< 0.0018 UJ	0.0024 JN

Table A.3a-1. Chemical Results for PDI Sediment Trap Samples

Chemical	CAS RN	Units	T07A			T07B		
			Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID
			Date	Date	Date	Date	Date	Date
Sample Type Code	N	N	N	N	N	N		
PCB-126	57465-28-8	µg/kg	< 0.0031 U	< 0.0023 UJ	< 0.0015 U	0.0032 J	< 0.0020 UJ	< 0.0025 U
PCB-127	39635-33-1	µg/kg	< 0.0029 U	< 0.0020 UJ	< 0.0013 U	< 0.0026 U	< 0.0018 UJ	< 0.0021 U
PCB-128/166	38380-07-3	µg/kg	0.075	0.045 J	0.017 JN	0.060	0.033 JN	0.030
PCB-129/138/160/163	55215-18-4	µg/kg	0.57	0.31 J	0.13	0.44	0.26 J	0.23
PCB-130	52663-66-8	µg/kg	0.039	0.020 J	0.0077 JN	0.020 JN	0.015 JN	0.011 J
PCB-131	61798-70-7	µg/kg	< 0.0056 U	< 0.0032 UJ	< 0.0024 U	< 0.0049 U	< 0.0025 UJ	< 0.0042 U
PCB-132	38380-05-1	µg/kg	0.15	0.081 J	0.033	0.10	0.060 J	0.065
PCB-133	35694-04-3	µg/kg	0.0072 J	< 0.0029 UJ	< 0.0022 U	0.0054 JN	0.0029 JN	< 0.0038 U
PCB-134/143	52704-70-8	µg/kg	0.027 J	0.013 JN	0.0035 J	0.019 J	0.0090 J	0.0089 JN
PCB-135/151	52744-13-5	µg/kg	0.15	0.069 J	0.033	0.084 JN	0.056 J	0.062
PCB-136	38411-22-2	µg/kg	0.056	0.024 J	0.013	0.029 JN	0.012 JN	0.017 JN
PCB-137	35694-06-5	µg/kg	0.021 J	0.014 J	0.0059 JN	0.018 J	0.010 J	0.0074 JN
PCB-139/140	56030-56-9	µg/kg	0.0090 JN	< 0.0025 UJ	< 0.0020 U	0.0061 J	< 0.0020 UJ	< 0.0034 U
PCB-141	52712-04-6	µg/kg	0.075	0.044 J	0.017 JN	0.065	0.036 J	0.037 JN
PCB-142	41411-61-4	µg/kg	< 0.0051 U	< 0.0028 UJ	< 0.0022 U	< 0.0044 U	< 0.0023 UJ	< 0.0038 U
PCB-144	68194-14-9	µg/kg	0.016 J	0.0042 JN	0.0031 JN	0.0098 J	0.0063 J	< 0.0013 U
PCB-145	74472-40-5	µg/kg	< 0.00028 U	< 0.00011 UJ	< 0.00076 U	< 0.00027 U	< 0.000071 UJ	< 0.0010 U
PCB-146	51908-16-8	µg/kg	0.095	0.045 J	0.016	0.061	0.034 J	0.037
PCB-147/149	68194-13-8	µg/kg	0.41	0.22 J	0.10	0.29	0.17 J	0.19
PCB-148	74472-41-6	µg/kg	0.0026 JN	< 0.00015 UJ	< 0.0011 U	< 0.00038 U	< 0.00010 UJ	< 0.0014 U
PCB-150	68194-08-1	µg/kg	0.0019 JN	0.00069 JN	< 0.00072 U	< 0.00026 U	< 0.000068 UJ	< 0.00096 U
PCB-152	68194-09-2	µg/kg	< 0.00029 U	< 0.00011 UJ	< 0.00078 U	< 0.00028 U	< 0.000073 UJ	< 0.0010 U
PCB-153/168	35065-27-1	µg/kg	0.42	0.24 J	0.11	0.31	0.20 J	0.20
PCB-154	60145-22-4	µg/kg	0.011 J	0.0041 JN	< 0.00086 U	0.0073 JN	0.0019 JN	< 0.0011 U
PCB-155	33979-03-2	µg/kg	0.0011 J	< 0.00010 UJ	< 0.00073 U	< 0.00026 U	< 0.000068 UJ	< 0.00096 U
PCB-156/157	38380-08-4	µg/kg	0.053	0.025 JN	0.014 J	0.046	0.024 J	0.018 JN
PCB-158	74472-42-7	µg/kg	0.047	0.028 J	0.013	0.038	0.022 J	0.020
PCB-159	39635-35-3	µg/kg	0.0040 JN	< 0.0019 UJ	< 0.0015 U	< 0.0030 U	< 0.0015 UJ	< 0.0025 U
PCB-161	74472-43-8	µg/kg	< 0.0034 U	< 0.0019 UJ	< 0.0015 U	< 0.0029 U	< 0.0015 UJ	< 0.0025 U
PCB-162	39635-34-2	µg/kg	< 0.0033 U	< 0.0019 UJ	< 0.0014 U	< 0.0029 U	< 0.0015 UJ	< 0.0025 U
PCB-164	74472-45-0	µg/kg	0.032	0.020 J	0.0094 J	0.027	0.016 J	0.013 JN
PCB-165	74472-46-1	µg/kg	< 0.0038 U	< 0.0022 UJ	< 0.0017 U	< 0.0033 U	< 0.0017 UJ	< 0.0029 U
PCB-167	52663-72-6	µg/kg	0.017 J	0.0096 J	< 0.0011 U	0.014 J	0.0091 J	0.0087 J
PCB-169	32774-16-6	µg/kg	< 0.0024 U	< 0.0015 UJ	< 0.0011 U	< 0.0021 U	< 0.0012 UJ	< 0.0020 U
PCB-170	35065-30-6	µg/kg	0.13	0.066 J	0.028 JN	0.11	0.058 J	0.068
PCB-171/173	52663-71-5	µg/kg	0.036 J	0.017 JN	0.0091 JN	0.028 JN	0.018 J	0.016 JN
PCB-172	52663-74-8	µg/kg	0.021 JN	0.0096 JN	< 0.0012 U	0.021 J	0.0095 JN	0.0096 J
PCB-174	38411-25-5	µg/kg	0.11	0.065 J	0.026	0.10	0.054 J	0.075
PCB-175	40186-70-7	µg/kg	< 0.0021 U	0.0029 J	< 0.0011 U	0.0059 J	< 0.00071 UJ	< 0.00093 U
PCB-176	52663-65-7	µg/kg	0.011 JN	0.0061 JN	< 0.00085 U	0.010 J	0.0068 J	0.0084 J
PCB-177	52663-70-4	µg/kg	0.082	0.037 JN	0.016	0.061	0.036 J	0.047
PCB-178	52663-67-9	µg/kg	0.023 JN	0.016 J	0.0086 J	0.024 JN	0.011 JN	0.020
PCB-179	52663-64-6	µg/kg	0.051	0.030 J	0.013 JN	0.042	0.025 J	0.033
PCB-180/193	35065-29-3	µg/kg	0.26	0.13 J	0.028	0.23	0.13 J	0.14
PCB-181	74472-47-2	µg/kg	< 0.0020 U	0.0017 J	< 0.0011 U	< 0.0017 U	< 0.00070 UJ	< 0.00093 U
PCB-182	60145-23-5	µg/kg	< 0.0020 U	< 0.00047 UJ	< 0.0011 U	< 0.0016 U	< 0.00068 UJ	< 0.00089 U
PCB-183/185	52663-69-1	µg/kg	0.080	0.047 J	0.021	0.070	0.038 J	0.042
PCB-184	74472-48-3	µg/kg	< 0.0017 U	< 0.00040 UJ	< 0.00092 U	< 0.0014 U	< 0.00058 UJ	< 0.00076 U
PCB-186	74472-49-4	µg/kg	< 0.0016 U	< 0.00039 UJ	< 0.00090 U	< 0.0013 U	< 0.00056 UJ	< 0.00074 U
PCB-187	52663-68-0	µg/kg	0.18	0.10 J	0.039 JN	0.15	0.089 J	0.095
PCB-188	74487-85-7	µg/kg	< 0.0014 U	< 0.00034 UJ	< 0.00076 U	< 0.0012 U	< 0.00049 UJ	< 0.00062 U
PCB-189	39635-31-9	µg/kg	< 0.0036 U	< 0.0023 UJ	< 0.0029 U	< 0.0030 U	< 0.0019 UJ	< 0.0030 U
PCB-190	41411-64-7	µg/kg	0.025	0.012 JN	0.0044 JN	0.021 J	0.013 JN	0.0064 JN
PCB-191	74472-50-7	µg/kg	0.0073 J	< 0.00037 UJ	< 0.00085 U	0.0054 J	0.0027 J	< 0.00070 U
PCB-192	74472-51-8	µg/kg	< 0.0017 U	< 0.00041 UJ	< 0.00095 U	< 0.0014 U	< 0.00059 UJ	< 0.00078 U
PCB-194	35694-08-7	µg/kg	0.062	0.030 J	0.013 JN	0.065	0.035 J	0.026
PCB-195	52663-78-2	µg/kg	0.025	0.016 J	0.0086 JN	0.023	0.016 J	0.010 JN

Table A.3a-1. Chemical Results for PDI Sediment Trap Samples

Chemical	CAS RN	Units	T07A			T07B			
			Location	PDI-ST-T07A-1810	PDI-ST-T07A-1901	PDI-ST-T07A-1905	PDI-ST-T07B-1810	PDI-ST-T07B-1901	PDI-ST-T07B-1905
			Sample ID Date	10/31/2018	1/30/2019	5/1/2019	10/31/2018	1/30/2019	5/1/2019
Sample Type Code	N	N	N	N	N	N			
PCB-196	42740-50-1	µg/kg	0.031	0.012 JN	0.0058 JN	0.023 JN	0.012 J	0.011 J	
PCB-197	33091-17-7	µg/kg	< 0.0014 U	< 0.00038 UJ	< 0.00087 U	< 0.0011 U	< 0.00020 UJ	< 0.00081 U	
PCB-198/199	68194-17-2	µg/kg	0.067 JN	0.045 J	0.015 JN	0.080	0.037 J	0.024 JN	
PCB-200	52663-73-7	µg/kg	0.0070 J	0.0041 J	< 0.00077 U	0.0069 JN	0.0031 JN	< 0.00072 U	
PCB-201	40186-71-8	µg/kg	0.0084 J	0.0048 J	< 0.00079 U	0.0084 J	0.0031 JN	0.0061 J	
PCB-202	2136-99-4	µg/kg	0.020 J	0.0097 J	0.0055 J	0.020 J	0.0093 JN	0.0099 JN	
PCB-203	52663-76-0	µg/kg	0.048	0.021 JN	0.0093 JN	0.044	0.022 J	0.014 JN	
PCB-204	74472-52-9	µg/kg	< 0.0014 U	< 0.00038 UJ	< 0.00087 U	< 0.0011 U	< 0.00020 UJ	< 0.00081 U	
PCB-205	74472-53-0	µg/kg	< 0.0044 U	< 0.0014 UJ	< 0.0018 U	< 0.0033 U	< 0.0011 UJ	< 0.0016 U	
PCB-206	40186-72-9	µg/kg	0.042 JN	0.027 J	0.014	0.046	0.030 J	0.029	
PCB-207	52663-79-3	µg/kg	< 0.0037 U	< 0.0012 UJ	< 0.0021 U	< 0.0044 U	0.0029 JN	0.0030 JN	
PCB-208	52663-77-1	µg/kg	0.017 J	0.011 J	< 0.0020 U	0.013 JN	0.0082 J	0.0047 JN	
PCB-209	2051-24-3	µg/kg	0.067	0.047 J	0.021 JN	0.065	0.042 JN	0.048	
Total PCBs	(b) T_PCBCg (PDI)	µg/kg	7.8	4.21	2.1	5.6	3.13	3.8	
Pesticides									
2,4-DDD	53-19-0	µg/kg	< 0.89 U	< 0.40 U	0.18	< 0.88 U	< 0.38 U	0.15	
2,4-DDE	3424-82-6	µg/kg	< 0.89 U	< 0.40 U	< 0.11 U	< 0.88 U	< 0.38 U	< 0.13 U	
2,4-DDT	789-02-6	µg/kg	< 0.89 U	< 0.40 U	< 0.11 UJ	< 0.88 U	< 0.38 U	0.28 J	
4,4'-DDD	72-54-8	µg/kg	< 0.89 U	2.5	0.66	< 0.88 U	0.59	0.67	
4,4'-DDE	72-55-9	µg/kg	1.3	1.6	1.2 J	1.3	1.4	1.3 J	
4,4'-DDT	50-29-3	µg/kg	< 0.89 U	0.80	0.57	< 0.88 U	0.83	0.87	
DDx	(b) T_DDx (PDI)	µg/kg	1.7	5.1	2.7	1.7	3.0	3.3	
Aldrin	309-00-2	µg/kg	< 0.89 U	< 0.40 U	< 0.11 U	0.71 J	< 0.38 U	< 0.13 U	
alpha-Chlordane	5103-71-9	µg/kg	< 1.8 U	< 0.81 U	0.099 J	< 1.8 U	< 0.75 U	0.18 J	
cis-Nonachlor	5103-73-1	µg/kg	< 0.89 U	< 0.40 U	< 0.11 U	< 0.88 U	< 0.38 U	< 0.13 U	
Dieldrin	60-57-1	µg/kg	< 1.8 U	0.37 J	0.18 J	< 1.8 U	< 0.75 U	0.24 J	
gamma-BHC (Lindane)	58-89-9	µg/kg	< 0.89 U	< 0.40 U	< 0.11 U	< 0.88 U	< 0.38 U	< 0.13 U	
gamma-Chlordane	5566-34-7	µg/kg	< 1.8 U	< 0.81 U	0.11 J	< 1.8 U	< 0.75 U	0.19 J	
Heptachlor	76-44-8	µg/kg	< 0.89 U	< 0.40 U	< 0.11 U	< 0.88 U	< 0.38 U	< 0.13 U	
Oxychlordane	27304-13-8	µg/kg	< 1.8 U	< 0.81 U	0.43	< 1.8 U	< 0.75 U	< 0.25 U	
trans-Nonachlor	39765-80-5	µg/kg	< 1.8 U	< 0.81 U	0.14 J	< 1.8 U	0.22 J	0.27	
Total Chlordanes	(b) T_Clrnd (PDI)	µg/kg	< 1.8 U	< 0.81 U	0.83	< 1.8 U	0.60	0.77	
Metals									
Arsenic	7440-38-2	mg/kg	10	6.7	4.5	9.3	7.1	4.5	
Cadmium	7440-43-9	mg/kg	0.36 J	0.21 J	0.20 J	0.33 J	0.24 J	0.14 J	
Copper	7440-50-8	mg/kg	68	43	29	65	46	29	
Lead	7439-92-1	mg/kg	24	11	11	25	11	7.8	
Mercury	7439-97-6	mg/kg	0.21	0.054 J	0.070	0.18	0.087 J	0.13	
Tri-n-butyltin	36643-28-4	µg/kg	< 4.4 U	< 4.0 U	< 2.2 U	< 4.7 U	< 3.8 U	< 2.5 U	
Zinc	7440-66-6	mg/kg	200	110	80	190	110	82	
Polycyclic Aromatic Hydrocarbons (PAHs)									
2-Methylnaphthalene	91-57-6	µg/kg	1.3 J	0.67 J	0.51 J	1.6 J	0.40 J	0.69 J	
Acenaphthene	83-32-9	µg/kg	0.60 J	2.8	0.55 J	0.93 J	0.30 J	0.56 J	
Acenaphthylene	208-96-8	µg/kg	1.2 J	0.50 J	0.43 J	1.9 J	0.39 J	0.52 J	
Anthracene	120-12-7	µg/kg	2.7	4.3	1.4	3.5	0.97 J	1.5	
Benzo(a)anthracene	56-55-3	µg/kg	9.0	14	2.1	11	4.2 J	3.1	
Benzo(a)pyrene	50-32-8	µg/kg	12	30	3.1	16	11 J	4.7	
Benzo(b)fluoranthene	205-99-2	µg/kg	16	20	4.5	21	7.4 J	6.4	
Benzo(g,h,i)perylene	191-24-2	µg/kg	12	13	3.7	19	5.2 J	5.1	
Benzo(k)fluoranthene	207-08-9	µg/kg	6.1	8.6	1.5	7.6	3.1 J	2.3	
Chrysene	218-01-9	µg/kg	12	20	3.5	17	6.6	5.0	
Dibenz(a,h)anthracene	53-70-3	µg/kg	2.2	2.7	0.60	3.1	0.79 J	0.86	
Dibenzofuran	132-64-9	µg/kg	0.99 J	1.5	0.56 J	1.2 J	0.38 J	0.63	
Fluoranthene	206-44-0	µg/kg	19	32	6.0	27	9.2	8.1	
Fluorene	86-73-7	µg/kg	1.1 J	2.2	0.62	1.6	0.35 J	0.79	
Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	9.9	12	3.4 J	14	4.4 J	4.7 J	
Naphthalene	91-20-3	µg/kg	1.8 J	1.5 J	0.97 J	2.1 J	0.80 J	3.1	

Table A.3a-1. Chemical Results for PDI Sediment Trap Samples

Chemical	Location		T07A			T07B		
	Sample ID	Date	PDI-ST-T07A-1810	PDI-ST-T07A-1901	PDI-ST-T07A-1905	PDI-ST-T07B-1810	PDI-ST-T07B-1901	PDI-ST-T07B-1905
	Sample Type	Code	10/31/2018	1/30/2019	5/1/2019	10/31/2018	1/30/2019	5/1/2019
	CAS_RN	Units	N	N	N	N	N	N
Phenanthrene	85-01-8	µg/kg	7.9	23	4.2	13	4.3 J	5.3
Pyrene	129-00-0	µg/kg	21	29	5.5	32	9.2 J	7.3
Total PAHs	(b) T_PAH (PDI)	µg/kg	140	220	43	190	69	60
BaP-TEQ	(b) T_BaP-TEQ (PDI)	µg/kg	18	37	4.7	24	13	7
Semivolatile Organic Carbons (SVOCs)								
Bis(2-ethylhexyl)phthalate	117-81-7	µg/kg	120 J	< 210 U	85 J	180 J	< 200 U	82 J
Total petroleum hydrocarbons (TPH)								
TPH-Diesel Range Organics	68334-30-5	mg/kg	170 J	190 J	140	160 J	330 J	200 J
TPH-Motor Oil Range Organics	TPH-MOIL	mg/kg	630	990	750	730	1300 J	760
Other								
Total Solids@104C	(e) TSOLID	%	19.9	23.8	49.7	21.7	25.2	41.9
Total Solids@104C	(d) TSOLID	%	22.3	24.6	44.6	21.4	26.3	39.4
Total Solids@70C	(e) TSOLID70	%	22	23	50	22	26	45
Clay	GS-Clay	%	17.1	10.7	6.2	18.4	16.3	8.5
Gravel	GS-Gravel	%	0	0	1.0	0	0	0
Sand, Coarse	GS-Csand	%	0	0.3	0.8	0	0.2	0.7
Sand, Fine (#200)	GS-Fsand-200	%	7.3	16.7	54.8	11.6	8.6	51.1
Sand, Fine (#230)	GS-Fsand	%	9.8	19.4	57.0	14.7	13.4	54.2
Sand, Medium	GS-Msand	%	0.3	1.4	2.3	0.2	1.0	1.9
Silt (#200)	GS-Silt-200	%	75.3	70.9	34.9	69.8	73.8	37.7
Silt (#230)	GS-Silt	%	72.8	68.2	32.7	66.7	69.0	34.6
Percent Fines	(f) GS-FINES	%	92.4	81.6	41.1	88.2	90.1	46.2
Total Organic Carbon	TOC	mg/kg	38000	50000	59000	36000	47000	59000

Notes:

- a. Qualifiers:
 - J = The chemical was positively identified; however, the associated numerical value is an estimated concentration.
 - NJ = The analyte was tentatively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
 - U = Not detected at detection limit shown.
 - UP = Not detected; sample detection limit is estimated.
- b. Totals and TEQs were calculated using EPA Region 10's 12/12/2017 data summation rules for the PDI, with clarifications in AECOM's 8/31/2018 memorandum (see Appendix C3).
- c. Alternate TCDD-TEQ calculated based on data summing rules provided in Appendix E.
- d. Solids results provided by ALS-Kelso Laboratory with the pesticide, PAH, SVOC, and tri-n-butyltin data.
- e. Solids results provided by TestAmerica-WA Laboratory with the metals, TPH, and physical parameters.
- f. Sum of silt (#200) and clay fractions.

Acronyms:

- µg/kg = microgram per kilogram
- BaP = benzo(a)pyrene
- BHC = benzene hexachloride
- CAS_RN = Chemical Abstracts Service Registry Number
- DDD = dichlorodiphenyldichloroethane
- DDE = dichlorodiphenyldichloroethylene
- DDT = dichlorodiphenyltrichloroethane
- DDx = dichlorodiphenyltrichloroethane and its derivatives
- EMPC = estimated maximum possible concentration
- EPA = U.S. Environmental Protection Agency
- HpCDD = heptachlorodibenzo-p-dioxin
- HpCDF = heptachlorodibenzofuran
- HxCDD = hexachlorodibenzo-p-dioxin
- HxCDF = hexachlorodibenzofuran
- ID = identifier
- mg/kg = milligram per kilogram
- N = normal sample
- OCDD = octachlorodibenzodioxin
- OCDF = octachlorodibenzofuran
- PAH = polycyclic aromatic hydrocarbon
- PCB = polychlorinated biphenyl
- PDI = Pre-Remedial Design Investigation
- SVOC = semivolatile organic compound
- TCDD = tetrachlorodibenzo-p-dioxin
- TCDF = tetrachlorodibenzofuran
- TEQ = toxicity equivalence
- TPH = total petroleum hydrocarbon