

APPENDIX B
SEDIMENT CHEMICAL ANALYSES
TABLES

Maurice River Bulk Sediment Samples 2017

Sample ID:	NJ	NJ	MR-1	MR-2	MR-3	MR-4	
Sample Date:	Residential Soil	Non-Residential Soil	7/26/17	7/26/17	7/26/17	7/26/17	
MISCELLANEOUS PARAMETERS							
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
Cyanide, Total	47.00	680.00	1.8	ND	ND	ND	
Total Organic Carbon	---	---	48000	94000	58000	28000	
INORGANICS							
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
Aluminum	78000.00	---	14000	13000	17000	12000	
Antimony	31.00	450.00	0.32	0.18	J 0.11	J 0.083	
Arsenic	19.00	19.00	23	13	13	6.6	
Barium	16000.00	59000.00	55	46	54	38	
Beryllium	16.00	140.00	1	0.76	0.98	0.66	
Cadmium	78.00	78.00	0.69	0.26	0.21	0.11	
Calcium	---	---	3400	3500	4300	99000	
Chromium	---	---	58	46	50	36	
Cobalt	1600.00	590.00	13	10	12	7.2	
Copper	3100.00	45000.00	29	17	14	7.4	
Iron	---	---	31000	30000	32000	22000	
Lead	400.00	800.00	45	24	17	7.7	
Magnesium	---	---	7900	7600	9000	7300	
Manganese	11000.00	5900.00	920	550	460	430	
Mercury (ug/kg)	23000.00	5900000.00	260	240	57	8.6	F1
Nickel	1600.00	23000.00	28	22	29	18	
Potassium	---	---	3500	3300	4200	3200	
Selenium	390.00	5700.00	1.6	1.1	1.4	0.77	
Silver	390.00	5700.00	0.31	0.13	J 0.1	J 0.047	
Sodium	---	---	8500	12000	9400	7800	

Thallium	---	---	0.24		0.18		0.21		0.14	
Vanadium	78.00	1100.00	52		40		52		35	
Zinc	23000.00	110000.00	240		120		79		49	
SEMIVOLATILES	mg/kg	mg/kg	ug/kg		ug/kg		ug/kg		ug/kg	
1,1'-Biphenyl	61.00	240.00	3.8	J	ND		ND		ND	
2,2'-oxybis[1-chloropropane]	23.00	67.00	ND		ND		ND		ND	
2,4,5-Trichlorophenol	6100.00	68000.00	ND		ND		ND		ND	
2,4,6-Trichlorophenol	19.00	74.00	ND		ND		ND		ND	
2,4-Dichlorophenol	180.00	2100.00	ND		ND		ND		ND	
2,4-Dimethylphenol	1200.00	14000.00	ND		ND		ND		ND	
2,4-Dinitrophenol	120.00	1400.00	ND		ND		ND		ND	
2,4-Dinitrotoluene	0.70	3.00	ND		ND		ND		ND	
2,6-Dinitrotoluene	0.70	3.00	ND		ND		ND		ND	
2-Chloronaphthalene	---	---	ND		ND		ND		ND	
2-Chlorophenol	310.00	2200.00	ND		ND		ND		ND	
2-Methylnaphthalene	230.00	2400.00	17		6.6	J	ND		ND	
2-Methylphenol	310.00	3400.00	ND		ND		ND		ND	
2-Nitroaniline	39.00	23000.00	ND		ND		ND		ND	
2-Nitrophenol	---	---	ND		ND		ND		ND	
3,3'-Dichlorobenzidine	1.00	4.00	ND		ND		ND		ND	
3-Nitroaniline	---	---	ND		ND		ND		ND	
4,6-Dinitro-2-methylphenol	6.00	68.00	ND		ND		ND		ND	
4-Bromophenyl phenyl ether	---	---	ND		ND		ND		ND	
4-Chloro-3-methylphenol	---	---	ND		ND		ND		ND	
4-Chloroaniline	---	---	ND		ND		ND		ND	
4-Chlorophenyl phenyl ether	---	---	ND		ND		ND		ND	
4-Nitroaniline	---	---	ND		ND		ND		ND	
4-Nitrophenol	---	---	ND		ND		ND		ND	
Acenaphthene	3400.00	37000.00	3.4	J	ND		ND		ND	
Acenaphthylene	---	300000.00	5.7	J	ND		ND		ND	
Acetophenone	2.00	5.00	ND		ND		ND		ND	
Anthracene	17000.00	30000.00	10		5.1	J	ND		ND	
Atrazine	210.00	2400.00	ND		ND		ND		ND	
Benzaldehyde	6100.00	68000.00	12	J *	16	J *	8.5	J *	5	J *
Benzo[a]anthracene	5.00	17.00	21		10		ND		ND	
Benzo[a]pyrene	0.50	2.00	20		7.5	J	ND		ND	

Benzo[b]fluoranthene	17.00	5.00	28		11		ND		ND	
Benzo[g,h,i]perylene	380000.00	30000.00	20		12		ND		ND	
Benzo[k]fluoranthene	45.00	170.00	8	J	4.5	J	ND		ND	
Bis(2-chloroethoxy)methane	---	---	ND		ND		ND		ND	
Bis(2-chloroethyl)ether	0.40	2.00	ND		ND		ND		ND	
Bis(2-ethylhexyl) phthalate	35.00	140.00	ND		ND		ND		ND	
Butyl benzyl phthalate	1200.00	14000.00	ND		ND		ND		ND	
Caprolactam	31000.00	340000.00	ND		ND		ND		ND	
Carbazole	24.00	96.00	ND		ND		ND		ND	
Chrysene	450.00	1700.00	21		12		ND		ND	
Dibenz(a,h)anthracene	0.50	2.00	3.6	J	ND		ND		ND	
Dibenzofuran	---	---	5.8	J	ND		ND		ND	
Diethyl phthalate	49000.00	550000.00	ND		ND		5.5	J	ND	
Dimethyl phthalate	---	---	ND		ND		ND		ND	
Di-n-butyl phthalate	---	---	3.3	J	ND		ND		3.5	J
Di-n-octyl phthalate	2400.00	27000.00	ND		ND		ND		ND	
Fluoranthene	2300.00	24000.00	24		12		ND		ND	
Fluorene	2300.00	24000.00	11		ND		ND		ND	
Hexachlorobenzene	0.30	1.00	ND		ND		ND		ND	
Hexachlorobutadiene	6.00	25.00	ND		ND		ND		ND	
Hexachlorocyclopentadiene	45.00	110.00	ND		ND		ND		ND	
Hexachloroethane	12.00	48.00	ND		ND		ND		ND	
Indeno[1,2,3-cd]pyrene	12.00	17.00	18		9.5	J	ND		ND	
Isophorone	510.00	2000.00	ND		ND		ND		ND	
Methylphenol, 3 & 4	31.00	340.00	17	J	13	J	5.7	J	4.3	J
Naphthalene	6.00	17.00	33		15		ND		ND	
Nitrobenzene	5.00	14.00	ND		ND		ND		ND	
N-Nitrosodi-n-propylamine	0.20	0.30	ND		ND		ND		ND	
N-Nitrosodiphenylamine	99.00	390.00	ND		ND		ND		ND	
Pentachlorophenol	0.90	3.00	ND		ND		ND		ND	
Phenanthrene	---	300000.00	27		12		ND		ND	
Phenol	18000.00	210000.00	ND		ND		ND		ND	
Pyrene	1700.00	18000.00	35		16		ND		ND	
VOLATILES	mg/kg	mg/kg	ug/kg		ug/kg		ug/kg		ug/kg	
1,1,1-Trichloroethane	160000.00	---	ND		ND		ND		ND	
1,1,2,2-Tetrachloroethane	1.00	3.00	ND		ND		ND		ND	

1,1,2-Trichloro-1,2,2-trifluoroethane	---	---	ND		ND		ND		ND	
1,1,2-Trichloroethane	2.00	6.00	ND		ND		ND		ND	
1,1-Dichloroethane	8.00	24.00	ND		ND		ND		ND	
1,1-Dichloroethene	11.00	150.00	ND		ND		ND		ND	
1,2,4-Trichlorobenzene	73.00	820.00	ND		ND		ND		ND	
1,2-Dibromo-3-Chloropropane	0.08	0.20	ND		ND		ND		ND	
1,2-Dibromoethane (EDB)	0.01	0.04	ND		ND		ND		ND	
1,2-Dichlorobenzene	5300.00	59000.00	ND		ND		ND		ND	
1,2-Dichloroethane	0.90	3.00	ND		ND		ND		ND	
1,2-Dichloropropane	2.00	5.00	ND		ND		ND		ND	
1,3-Dichlorobenzene	5300.00	59000.00	ND		ND		ND		ND	
1,4-Dichlorobenzene	5.00	13.00	ND		ND		ND		ND	
2-Butanone (MEK)	3100.00	44000.00	ND		ND		ND		ND	
2-Hexanone	---	---	ND		ND		ND		ND	
4-Methyl-2-pentanone (MIBK)	---	---	ND		ND		ND		ND	
Acetone	70000.00	---	13	J B	17	J B	15	J B	17	J B
Benzene	2.00	5.00	ND		ND		ND		ND	
Bromodichloromethane	1.00	3.00	ND		ND		ND		ND	
Bromoform	81.00	280.00	ND		ND		ND		ND	
Bromomethane	25.00	59.00	ND		ND		ND		ND	
Carbon disulfide	7800.00	110000.00	ND		ND		ND		18	
Carbon tetrachloride	2.00	4.00	ND		ND		ND		ND	
Chlorobenzene	510.00	7400.00	ND		ND		ND		ND	
Chloroethane	220.00	1100.00	ND		ND		ND		ND	
Chloroform	0.60	2.00	ND		ND		ND		ND	
Chloromethane	4.00	12.00	ND		ND		ND		ND	
cis-1,2-Dichloroethene	230.00	560.00	ND		ND		ND		ND	
cis-1,3-Dichloropropene	---	---	ND		ND		ND		ND	
Cyclohexane	---	---	ND		ND		ND		ND	
Dibromochloromethane	3.00	8.00	ND		ND		ND		ND	
Dichlorodifluoromethane	490.00	230000.00	ND		ND		ND		ND	
Ethylbenzene	7800.00	110000.00	ND		ND		ND		ND	
Isopropylbenzene	---	---	ND		ND		ND		ND	
Methyl acetate	78000.00	---	ND		ND		ND		ND	
Methyl tert-butyl ether	110.00	320.00	ND		ND		ND		ND	
Methylcyclohexane	---	---	ND		ND		ND		ND	

Methylene Chloride	46.00	230.00	ND		ND		ND		ND	
Styrene	90.00	260.00	ND		ND		ND		ND	
Tetrachloroethene	43.00	1500.00	ND		ND		ND		ND	
Toluene	6300.00	91000.00	ND		ND		ND		ND	
trans-1,2-Dichloroethene	300.00	720.00	ND		ND		ND		ND	
trans-1,3-Dichloropropene	---	---	ND		ND		ND		ND	
Trichloroethene	3.00	10.00	ND		ND		ND		ND	
Trichlorofluoromethane	23000.00	340000.00	ND		ND		ND		ND	
Vinyl chloride	0.70	2.00	ND		ND		ND		ND	
Xylenes, Total	12000.00	170000.00	ND		ND		ND		ND	
PESTICIDES	mg/kg	mg/kg	ug/kg		ug/kg		ug/kg		ug/kg	
4,4'-DDD	3.00	13.00	0.34	p	0.021	J p	0.015	J p	ND	
4,4'-DDE	2.00	9.00	0.9		0.043	J p	0.038	J p	0.061	J p
4,4'-DDT	2.00	8.00	0.16	p	ND		ND		ND	
Aldrin	0.04	0.20	ND		ND		ND		ND	
alpha-BHC	0.10	0.50	ND		ND		ND		ND	
alpha-Chlordane	---	---	ND		ND		ND		ND	
beta-BHC	0.40	2.00	ND		ND		ND		ND	
delta-BHC	---	---	ND		ND		ND		ND	
Dieldrin	0.04	0.20	ND		ND		ND		ND	
Endosulfan I	---	---	ND		ND		ND		ND	
Endosulfan II	---	---	ND		ND		ND		ND	
Endosulfan sulfate	470.00	6800.00	ND		ND		ND		ND	
Endrin	23.00	340.00	ND		ND		ND		ND	
Endrin aldehyde	---	---	ND		ND		ND		ND	
Endrin ketone	---	---	ND		ND		ND		ND	
gamma-BHC (Lindane)	0.40	2.00	ND		ND		ND		ND	
gamma-Chlordane	---	---	ND		ND		ND		ND	
Heptachlor	0.10	0.70	ND		ND		ND		ND	
Heptachlor epoxide	0.07	0.30	ND		ND		ND		ND	
Methoxychlor	0.07	390.00	ND		ND		ND		ND	
Toxaphene	0.60	3.00	ND		ND		ND		ND	
PCBs	mg/kg	mg/kg	ug/kg		ug/kg		ug/kg		ug/kg	
PCB-1016	0.20	1.00	ND		ND		ND		ND	
PCB-1221	0.20	1.00	ND		ND		ND		ND	

PCB-1232	0.20	1.00	ND		ND		ND		ND	
PCB-1242	0.20	1.00	ND		ND		ND		ND	
PCB-1248	0.20	1.00	1.7		ND		ND		ND	
PCB-1254	0.20	1.00	2		ND		ND		ND	
PCB-1260	0.20	1.00	ND		ND		ND		ND	

Notes:

NJV=Cape May Canal; MR=Maurice River; OC=Oyster Creek

Results compared to NJ DEP Soil Remediation Residential and Non-Residential Standards

ND -- Not Detected

yellow shaded--Exceeds NJ DEP Soil Remediation Standard

--- No standard available

EB--Equipment Blank

Data Qualifiers:

B -- Analyte was found in the blank and sample.

E -- Results exceeded calibration range

F1--MS and/or MSD Recovery is outside acceptance limits.

F2--MS/MSD RPD exceeds control limits

J -- Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

I -- Value is Estimated maximum possible concentration (EMPC)

q -- Estimated maximum possible concentration (EMPC).

p -- The % Relative Percent Difference between the primary and confirmation column/detector is > 40%. The lower value has been reported.

* -- Isotope Dilution analyte is outside acceptance limits.

2017 Sediment Core Samples – Maurice Cove (Tetra Tech, Inc. 2017)



Maurice River Bulk Sediment Samples 2022

Sample ID:	NJ	NJ	MR 5	MDL	MR 6	MDL	MR 7	MDL	MR 8	MDL	MR 9	MDL	MR 10	MDL	MR 11	MDL	MR 12	MDL								
	Residential Soil	Non-Residential Soil	7/15/22		7/14/22		7/14/22		7/14/22		7/15/22		7/14/22		7/14/22		7/14/22									
Sample Date:																										
MISCELLANEOUS PARAMETERS																										
	mg/kg	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg									
Cyanide, Total	47.00	680.00	ND	0.25	0.54	0.34	ND	0.3	0.43	J	0.33	ND	0.32	0.35	J	0.31	0.52	0.35	ND	0.36						
Total Organic Carbon	---	---	15,000	1700	35,000	2100	26000	2100	52,000		2400	29000	2100	47,000		2500	60,000	2500	61000	2500						
INORGANICS	mg/kg	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg									
Aluminum	78000.00	---	14000	3.7	12000	5.6	13000	5.9	17000		6.6	10000	4.5	15000	6.1	9000	5.6	4200	7							
Antimony	31.00	450.00	ND	0.094	0.19	J F1	0.14	ND	0.15	0.27	J	0.16	0.14	J	0.11	0.38	0.15	0.24	J	0.14	ND	0.18				
Arsenic	19.00	19.00	8.1	0.051	10	B F1	0.077	6.4	B	0.081	18	B	0.09	11		0.061	7.9	B	0.083	5.1	B	0.077	1.2	B	0.096	
Barium	16000.00	59000.00	41	0.54	35	F1	0.81	34		0.85	51		0.95	25		0.64	40		0.88	30		0.81	9.1		1	
Beryllium	16.00	140.00	0.64	0.064	0.65	F1	0.095	0.67		0.1	0.9		0.11	0.41		0.076	0.78		0.1	0.42		0.095	0.2		0.12	
Cadmium	78.00	78.00	ND	0.049	0.24	F1	0.074	0.086	J	0.078	0.41		0.087	0.22		0.059	0.37		0.081	0.26		0.074	ND		0.093	
Calcium	---	---	1800	18	2000	F1	27	2800		28	3600		32	2300		21	1700		29	54000		27	470		34	
Chromium	---	---	36	0.16	35	F1	0.24	31		0.25	49		0.28	25		0.19	40		0.26	26		0.24	9		0.3	
Cobalt	1600.00	590.00	9.8	0.032	6.9	F1	0.048	6.2		0.05	10		0.056	5.5		0.038	6.7		0.052	4.1		0.048	1.6		0.06	
Copper	3100.00	45000.00	8.5	0.18	14	F1	0.27	6.3		0.29	24		0.32	12		0.22	15		0.3	12		0.27	1.6		0.34	
Iron	---	---	21000	4.2	18000		6.3	20000		6.7	25000		7.4	16000		5	20000		6.9	13000		6.3	6100		7.9	
Lead	400.00	800.00	9.3	0.058	22	F1	0.087	7.3		0.092	37		0.1	18		0.069	28		0.095	20		0.087	1.7		0.11	
Magnesium	---	---	6000	4	4700	F1	6	5100		6.3	6800		7	3600		4.8	4900		6.5	3100		6	1500		7.5	
Manganese	11000.00	5900.00	170	0.38	500		0.57	270		0.6	920		0.67	410		0.45	260		0.62	160		0.57	46		0.71	
Mercury (ug/kg)	23000.00	5900000.00	24	0.71				28		0.87	290		9.7	180		8.8	350		9.5	370		9.8	24		0.97	
Nickel	1600.00	23000.00	24	0.083	20	F1	0.12	16		0.13	22		0.15	12		0.099	16		0.14	10		0.12	4.1		0.16	
Potassium	---	---	2900	13	2400	F1	19	2700		20	3500		22	1800		15	3000		21	1800		19	850		24	
Selenium	390.00	5700.00	0.17	J	0.11	0.37	J F1	0.16	0.31	J	0.17	0.56	J	0.19	0.37	J	0.13	0.54	J	0.18	0.3	J	0.16	ND		0.2

Silver	390.00	5700.00	0.025	J	0.025	0.11	J F1	0.037	ND		0.039	0.17		0.043	0.072	J	0.029	0.18		0.04	0.14		0.037	ND		0.046	
Sodium	---	---	4500		23	4000	B F1	34	3900	B	36	6400	B	40	4200		27	4300	B	37	3300	B	34	1400	B	42	
Thallium	---	---	0.16		0.062	0.2	F1	0.093	0.15		0.098	0.24		0.11	0.13		0.074	0.33		0.1	0.1	J	0.093	ND		0.12	
Vanadium	78.00	1100.00	35		0.083	31	F1	0.12	33		0.13	45		0.15	24		0.099	39		0.14	24		0.12	9.6		0.16	
Zinc	23000.00	110000.00	60		0.43	120	F1	0.64	43		0.67	210		0.75	110		0.51	120		0.69	88		0.64	12		0.8	
SEMIVOLATILES	ug/kg	ug/kg	ug/kg			ug/kg			ug/kg			ug/kg			ug/kg			ug/kg			ug/kg			ug/kg			ug/kg
1,1'-Biphenyl	61000.00	240000.00	ND	F1	11	ND		13	ND		13	ND		15	ND		13	ND		15	ND		15	ND		15	
2,2'-oxybis[1-chloropropane]	23000.00	67000.00	ND		2.2	ND		2.6	ND		2.7	ND		3	ND		2.6	ND		3.1	ND		3.2	ND		3.1	
2,4,5-Trichlorophenol	6100000.00	6800000.00	ND	F1	10	ND		12	ND		12	ND		14	ND		12	ND		15	ND		15	ND		15	
2,4,6-Trichlorophenol	19000.00	74000.00	ND	F1	9.7	ND		12	ND		12	ND		13	ND		12	ND		14	ND		14	ND		14	
2,4-Dichlorophenol	180000.00	2100000.00	ND	F1	2.3	ND		2.8	ND		2.8	ND		3.1	ND		2.7	ND		3.3	ND		3.3	ND		3.3	
2,4-Dimethylphenol	1200000.00	14000000.00	ND	F1	9.8	ND		12	ND		12	ND		14	ND		12	ND		14	ND		14	ND		14	
2,4-Dinitrophenol	120000.00	1400000.00	ND	F1	180	ND	F1	220	ND		220	ND		250	ND		220	ND		260	ND		260	ND		260	
2,4-Dinitrotoluene	700.00	3000.00	ND	F1	17	ND		21	ND		21	ND		24	ND		21	ND		25	ND		25	ND		25	
2,6-Dinitrotoluene	700.00	3000.00	ND	F1	11	ND		14	ND		14	ND		16	ND		14	ND		16	ND		16	ND		16	
2-Chloronaphthalene	---	---	ND	F1	1.3	ND	F1	1.6	ND		1.6	ND		1.9	ND		1.6	ND		1.9	ND		1.9	ND		1.9	
2-Chlorophenol	310000.00	2200000.00	ND	F1	11	ND	F1	13	ND		13	ND		15	ND		13	ND		15	ND		16	ND		15	
2-Methylnaphthalene	230000.00	2400000.00	ND	F1	1.4	2	J	1.7	ND		1.7	3.1	J	1.9	12		1.7	ND		2	ND		2	ND		2	
2-Methylphenol	310000.00	3400000.00	ND	F1	8.4	ND		10	ND		10	ND		12	ND		10	ND		12	ND		12	ND		12	
2-Nitroaniline	390000.00	23000000.00	ND		13	ND		16	ND		16	ND		18	ND		16	ND		19	ND		19	ND		19	
2-Nitrophenol	---	---	ND	F1	11	ND		13	ND		13	ND		15	ND		13	ND		16	ND		16	ND		16	
3,3'-Dichlorobenzidine	1000.00	4000.00	ND	F1	27	ND		33	ND		34	ND		38	ND		33	ND		39	ND		40	ND		40	
3-Nitroaniline	---	---	ND		7.4	ND		9	ND		9.1	ND		10	ND		9	ND		11	ND		11	ND		11	
4,6-Dinitro-2-methylphenol	6000.00	68000.00	ND	F1	50	ND	F1	61	ND		62	ND		70	ND		61	ND		73	ND		73	ND		73	
4-Bromophenyl phenyl ether	---	---	ND		12	ND		15	ND		15	ND		17	ND		15	ND		18	ND		18	ND		18	
4-Chloro-3-methylphenol	---	---	ND	F1	10	ND		12	ND		13	ND		14	ND		12	ND		15	ND		15	ND		15	
4-Chloroaniline	---	---	ND	F1	7.7	ND		9.3	ND		9.4	ND		11	ND		9.3	ND		11	ND		11	ND		11	
4-Chlorophenyl phenyl ether	---	---	ND	F1	9.7	ND		12	ND		12	ND		13	ND		12	ND		14	ND		14	ND		14	
4-Nitroaniline	---	---	ND	F1	11	ND		13	ND		13	ND		15	ND		13	ND		16	ND		16	ND		16	
4-Nitrophenol	---	---	ND	F1	20	ND		25	ND		25	ND		28	ND		25	ND		30	ND		30	ND		30	
Acenaphthene	3400000.00	37000000.00	ND	F1	1.7	ND		2	ND		2.1	ND		2.3	2.1	J	2	ND		2.4	ND		2.4	ND		2.4	
Acenaphthylene	---	#####	ND	F1	1.3	ND		1.6	ND		1.6	2.5	J	1.8	4.3	J	1.6	ND		1.8	ND		1.9	ND		1.8	
Acetophenone	2000.00	5000.00	ND	F1	10	ND		13	ND		13	ND		14	ND		13	ND		15	ND		15	ND		15	
Anthracene	#####	30000000.00	ND	F1	1.5	ND		1.8	ND		1.9	2.6	J	2.1	7.2		1.8	ND		2.2	ND		2.2	ND		2.2	

Atrazine	210000.00	2400000.00	ND	F1	13	ND		16	ND		16	ND		18	ND		16	ND		18	ND		19	ND		18
Benzaldehyde	6100000.00	68000000.00	ND	F1	3.6	ND		4.4	ND		4.5	ND		5	ND		4.4	ND		5.2	ND		5.3	ND		5.2
Benzo[a]anthracene	5000.00	17000.00	ND	F1	2.6	ND		3.2	ND		3.2	5.7	J	3.7	11		3.2	ND		3.8	ND		3.8	ND		3.8
Benzo[a]pyrene	500.00	2000.00	ND	F1	2.5	ND		3.1	ND		3.1	5.6	J	3.5	12		3.1	ND		3.6	ND		3.7	ND		3.7
Benzo[b]fluoranthene	17000.00	5000.00	ND	F1	1.4	2.9	J	1.7	ND		1.8	7.2	J	2	18		1.7	ND		2.1	3.3	J	2.1	ND		2.1
Benzo[g,h,i]perylene	##### ##	30000000.00	ND		1.3	2.3	J	1.5	ND		1.6	5.5	J	1.8	13		1.5	ND		1.8	2.4	J	1.8	ND		1.8
Benzo[k]fluoranthene	45000.00	170000.00	ND	F1	1.7	ND	F1	2.1	ND		2.2	ND		2.4	4.1	J	2.1	ND		2.5	ND		2.5	ND		2.5
Bis(2-chloroethoxy)methane	---	---	ND	F1	11	ND	F1	13	ND		13	ND		15	ND		13	ND		15	ND		16	ND		15
Bis(2-chloroethyl)ether	400.00	2000.00	ND	F1	1.1	ND	F1	1.3	ND		1.3	ND		1.5	ND		1.3	ND		1.5	ND		1.5	ND		1.5
Bis(2-ethylhexyl) phthalate	35000.00	140000.00	ND		31	ND		38	ND		38	ND		43	ND		38	ND		45	ND		45	ND		45
Butyl benzyl phthalate	1200000.00	14000000.00	ND		20	ND		25	ND		25	ND		28	ND		24	ND		29	ND		29	ND		29
Caprolactam	##### ##	##### ##	ND	F1	19	ND		23	ND		23	ND		27	ND		23	ND		28	ND		28	ND		28
Carbazole	24000.00	96000.00	ND	F1	1.4	ND		1.7	ND		1.7	ND		1.9	ND		1.7	ND		2	ND		2	ND		2
Chrysene	450000.00	1700000.00	ND	F1	3.2	ND		3.9	ND		4	6.3	J	4.5	12		3.9	ND		4.7	ND		4.7	ND		4.7
Dibenz(a,h)anthracene	500.00	2000.00	ND		3.7	ND		4.6	ND		4.6	ND		5.2	18		4.5	ND		5.4	ND		5.4	ND		5.4
Dibenzofuran	---	---	ND	F1	11	ND	F1	13	ND		13	ND		15	ND		13	ND		15	ND		16	ND		15
Diethyl phthalate	##### ##	##### ##	ND	F1	10	ND		12	ND		13	ND		14	ND		12	ND		15	ND		15	ND		15
Dimethyl phthalate	---	---	ND	F1	11	ND		14	ND		14	ND		16	ND		14	ND		17	ND		17	ND		17
Di-n-butyl phthalate	---	---	ND	F1	13	29	J	16	24	J	16	ND		18	ND		16	26	J	18	28	J	19	37	J	18
Di-n-octyl phthalate	2400000.00	27000000.00	ND		17	ND		21	ND		21	ND		24	ND		21	ND		25	ND		25	ND		25
Fluoranthene	2300000.00	24000000.00	ND	F1	1.5	3.9	J F1	1.9	ND		1.9	8.1	J	2.1	19		1.9	2.3	J	2.2	4.3	J	2.2	ND		2.2
Fluorene	2300000.00	24000000.00	ND	F1	1.1	ND		1.4	ND		1.4	1.9	J	1.6	6	J	1.4	ND		1.7	ND		1.7	ND		1.7
Hexachlorobenzene	300.00	1000.00	ND	F1	2.1	ND		2.6	ND		2.6	ND		2.9	ND		2.6	ND		3	ND		3.1	ND		3
Hexachlorobutadiene	6000.00	25000.00	ND	F1	1.7	ND	F1	2.1	ND		2.1	ND		2.4	ND		2.1	ND		2.5	ND		2.5	ND		2.5
Hexachlorocyclopentadiene	45000.00	110000.00	ND	F1	3	ND	F1	3.6	ND		3.7	ND		4.1	ND		3.6	ND		4.3	ND		4.3	ND		4.3
Hexachloroethane	12000.00	48000.00	ND	F1	10	ND	F1 F2	13	ND		13	ND		14	ND		13	ND		15	ND		15	ND		15
Indeno[1,2,3-cd]pyrene	12000.00	17000.00	ND	F1	2.9	ND		3.5	ND		3.6	5	J	4	10		3.5	ND		4.2	ND		4.2	ND		4.2
Isophorone	510000.00	2000000.00	ND	F1	11	ND	F1	13	ND		13	ND		15	ND		13	ND		16	ND		16	ND		16
Methylphenol, 3 & 4	31000.00	340000.00	ND	F1	8.6	ND		10	ND		11	ND		12	ND		10	ND		12	ND		12	ND		12
Naphthalene	6000.00	17000.00	ND	F1	1.1	3.6	J F1	1.4	ND		1.4	5.6	J	1.6	19		1.4	ND		1.6	2.2	J	1.7	ND		1.6
Nitrobenzene	5000.00	14000.00	ND	F1	11	ND	F1	13	ND		13	ND		15	ND		13	ND		15	ND		16	ND		15
N-Nitrosodi-n-propylamine	200.00	300.00	ND	F1	2	ND		2.4	ND		2.4	ND		2.7	ND		2.4	ND		2.9	ND		2.9	ND		2.9
N-Nitrosodiphenylamine	99000.00	390000.00	ND	F1	9.7	ND		12	ND		12	ND		14	ND		12	ND		14	ND		14	ND		14
Pentachlorophenol	900.00	3000.00	ND	F1	47	ND	F1	57	ND		58	ND		65	ND		57	ND		68	ND		68	ND		68

Phenanthrene	---	##### ##	ND	F1	1.6	4.5	J	1.9	ND	1.9	6.9	J	2.2	17	1.9	ND	2.3	4.1	J	2.3	ND	2.3				
Phenol	##### ##	##### ##	ND	F1	8.8	ND		11	ND	11	ND		12	ND	11	ND	13	ND		13	ND	13				
Pyrene	1700000.00	18000000.0 0	ND	F1	1.4	4.2	J	1.7	ND	1.7	7.9	J	1.9	18	1.7	2.5	J	2	4.6	J	2	ND	2			
VOLATILES	ug/kg	ug/kg	ug/kg		ug/kg			ug/kg		ug/kg			ug/kg		ug/kg		ug/kg			ug/kg		ug/kg				
1,1,1-Trichloroethane	##### ##	---	ND		2.9	ND		3.6	ND	3.6	ND		4.1	ND	3.5	ND	4.2	ND		4.2	ND	4.2				
1,1,2,2-Tetrachloroethane	1000.00	3000.00	ND		2.7	ND		3.3	ND	3.3	ND		3.7	ND	3.2	ND	3.9	ND		3.9	ND	3.9				
1,1,2-Trichloro-1,2,2-trifluoroethane	---	---	ND		3.5	ND		4.3	ND	4.3	ND		4.9	ND	4.2	ND	5.1	ND		5.1	ND	5.1				
1,1,2-Trichloroethane	2000.00	6000.00	ND		1.7	ND		2.1	ND	2.1	ND		2.4	ND	2.1	ND	2.5	ND		2.5	ND	2.5				
1,1-Dichloroethane	8000.00	24000.00	ND		2.8	ND		3.4	ND	3.4	ND		3.9	ND	3.4	ND	4.1	ND		4.1	ND	4.1				
1,1-Dichloroethene	11000.00	150000.00	ND		4	ND		4.9	ND	4.9	ND		5.5	ND	4.8	ND	5.7	ND		5.7	ND	5.7				
1,2,4-Trichlorobenzene	73000.00	820000.00	ND		4.5	ND		5.5	ND	5.5	ND		6.2	ND	5.4	ND	6.5	ND		6.4	ND	6.5				
1,2-Dibromo-3-Chloropropane	80.00	200.00	ND		5.7	ND		7	ND	7	ND		7.9	ND	6.8	ND	8.2	ND		8.2	ND	8.2				
1,2-Dibromoethane	8.00	40.00	ND		2.4	ND		2.9	ND	2.9	ND		3.3	ND	2.9	ND	3.5	ND		3.5	ND	3.5				
1,2-Dichlorobenzene	5300000.00	59000000.0 0	ND		3	ND		3.6	ND	3.6	ND		4.1	ND	3.6	ND	4.3	ND		4.3	ND	4.3				
1,2-Dichloroethane	900.00	3000.00	ND		2.5	ND		3.1	ND	3.1	ND		3.5	ND	3.1	ND	3.7	ND		3.7	ND	3.7				
1,2-Dichloroethene, Total	2000.00	5000.00	ND		7.2	ND		8.8	ND	8.8	ND		10	ND	8.7	ND	10	ND		10	ND	10				
1,2-Dichloropropane	5300000.00	59000000.0 0	ND		2.3	ND		2.9	ND	2.9	ND		3.2	ND	2.8	ND	3.4	ND		3.4	ND	3.4				
1,3-Dichlorobenzene	5000.00	13000.00	ND		5.4	ND		6.6	ND	6.6	ND		7.5	ND	6.5	ND	7.8	ND		7.8	ND	7.8				
1,4-Dichlorobenzene	3100000.00	44000000.0 0	ND		2.6	ND		3.2	ND	3.2	ND		3.7	ND	3.2	ND	3.8	ND		3.8	ND	3.8				
2-Butanone (MEK)	---	---	ND		4.5	ND		5.5	ND	5.5	ND		6.2	ND	5.4	ND	6.5	ND		6.4	ND	6.5				
2-Hexanone	---	---	ND		2.8	ND		3.4	ND	3.4	ND		3.8	ND	3.3	ND	4	ND		4	ND	4				
4-Methyl-2-pentanone (MIBK)	##### ##	---	ND		3.2	ND		3.9	ND	3.9	ND		4.5	ND	3.9	ND	4.7	ND		4.6	ND	4.7				
Acetone	2000.00	5000.00	ND		6.9	15	J	8.4	ND	8.4	ND		9.5	ND	8.3	ND	9.9	ND		9.9	ND	9.9				
Benzene	1000.00	3000.00	ND		2.5	ND		3	ND	3	ND		3.4	ND	3	ND	3.6	ND		3.6	ND	3.6				
Bromoform	81000.00	280000.00	ND		4.4	ND		5.4	ND	5.4	ND		6.2	ND	5.3	ND	6.4	ND		6.4	ND	6.4				
Bromomethane	25000.00	59000.00	ND		4	ND		4.9	ND	4.9	ND		5.6	ND	4.8	ND	5.8	ND		5.8	ND	5.8				
Carbon disulfide	7800000.00	##### ##	ND		7	ND		8.6	ND	8.6	ND		9.8	ND	8.5	ND	10	ND		10	ND	10				
Carbon tetrachloride	2000.00	4000.00	ND		3.6	ND		4.4	ND	4.4	ND		5	ND	4.3	ND	5.2	ND		5.2	ND	5.2				
Chlorobenzene	510000.00	7400000.00	ND		2.3	ND		2.8	ND	2.8	ND		3.2	ND	2.8	ND	3.3	ND		3.3	ND	3.3				
Chlorodibromomethane	3000.00	8000.00	ND		4.4	ND		5.3	ND	5.3	ND		6.1	ND	5.3	ND	6.3	ND		6.3	ND	6.3				
Chloroethane	220000.00	1100000.00	ND		5.1	ND		6.3	ND	6.3	ND		7.1	ND	6.2	ND	7.4	ND		7.4	ND	7.4				
Chloroform	600.00	2000.00	3.2	J B	2.8	4	J B	3.5	4	J B	3.5	4.5	J B	3.9	4.1	J B	3.4	4.8	J B	4.1	5	J B	4.1	4.2	J B	4.1
Chloromethane	4000.00	12000.00	ND		3.5	ND		4.3	ND	4.3	ND		4.8	ND	4.2	ND	5	ND		5	ND	5				

cis-1,2-Dichloroethene	230000.00	560000.00	ND		2.7	ND		3.3	ND		3.3	ND		3.7	ND		3.2	ND		3.8	ND		3.8	ND		3.8
cis-1,3-Dichloropropene	---	---	ND		3.9	ND		4.8	ND		4.8	ND		5.4	ND		4.7	ND		5.6	ND		5.6	ND		5.6
Cyclohexane	---	---	ND		4.2	ND		5.1	ND		5.1	ND		5.8	ND		5.1	ND		6.1	ND		6.1	ND		6.1
Dichlorobromomethane	1000.00	3000.00	ND		4.1	ND		5	ND		5	ND		5.7	ND		4.9	ND		5.9	ND		5.9	ND		5.9
Dichlorodifluoromethane	490000.00	##### ##	ND		4.4	ND		5.4	ND		5.4	ND		6.1	ND		5.3	ND		6.3	ND		6.3	ND		6.3
Ethylbenzene	7800000.00	##### ##	ND		3.3	ND		4	ND		4	ND		4.5	ND		3.9	ND		4.7	ND		4.7	ND		4.7
Isopropylbenzene	---	---	ND		4.6	ND		5.6	ND		5.6	ND		6.3	ND		5.5	ND		6.6	ND		6.6	ND		6.6
Methyl acetate	##### ##	---	ND		13	ND		16	ND		16	ND		18	ND		16	ND		19	ND		19	ND		19
Methyl tert-butyl ether	110000.00	320000.00	ND		2.6	ND		3.2	ND		3.2	ND		3.6	ND		3.1	ND		3.7	ND		3.7	ND		3.7
Methylcyclohexane	---	---	ND		4.2	ND		5.2	ND		5.2	ND		5.9	ND		5.1	ND		6.1	ND		6.1	ND		6.1
Methylene Chloride	46000.00	230000.00	ND		7.9	ND		9.7	ND		9.7	ND		11	11		9.6	ND		11	ND		11	ND		11
m-Xylene & p-Xylene	---	---	ND		3.1	ND		3.8	ND		3.8	ND		4.3	ND		3.8	ND		4.5	ND		4.5	ND		4.5
o-Xylene	---	---	ND		3.5	ND		4.3	ND		4.3	ND		4.9	ND		4.3	ND		5.1	ND		5.1	ND		5.1
Styrene	90000.00	260000.00	ND		2.6	ND		3.2	ND		3.2	ND		3.7	ND		3.2	ND		3.8	ND		3.8	ND		3.8
Tetrachloroethene	43000.00	1500000.00	ND		3.5	ND		4.3	ND		4.3	ND		4.9	ND		4.3	ND		5.1	ND		5.1	ND		5.1
Toluene	6300000.00	9100000.00	ND		2.5	ND		3.1	ND		3.1	ND		3.5	ND		3.1	ND		3.7	ND		3.7	ND		3.7
trans-1,2-Dichloroethene	300000.00	720000.00	ND		3.1	ND		3.8	ND		3.8	ND		4.3	ND		3.7	ND		4.4	ND		4.4	ND		4.4
trans-1,3-Dichloropropene	---	---	ND		4	ND		4.8	ND		4.8	ND		5.5	ND		4.8	ND		5.7	ND		5.7	ND		5.7
Trichloroethene	3000.00	10000.00	ND		2.8	ND		3.4	ND		3.4	ND		3.8	ND		3.3	ND		4	ND		4	ND		4
Trichlorofluoromethane	##### ##	##### ##	ND		7.3	ND		8.9	ND		8.9	ND		10	ND		8.8	ND		11	ND		11	ND		11
Vinyl chloride	700.00	2000.00	ND		6.3	ND		7.8	ND		7.8	ND		8.8	ND		7.6	ND		9.2	ND		9.1	ND		9.2
Xylenes, Total	##### ##	##### ##	ND		13	ND		16	ND		16	ND		18	ND		15	ND		18	ND		18	ND		18
PESTICIDES	ug/kg	ug/kg	ug/kg					ug/kg			ug/kg			ug/kg			ug/kg			ug/kg			ug/kg			ug/kg
4,4'-DDD	3000.00	13000.00	ND		0.015	ND	F1	0.019	ND		0.019	ND		0.021	ND		0.019	ND		0.022	ND		0.022	ND		0.022
4,4'-DDE	2000.00	9000.00	0.017	J	0.015	0.055	J F1	0.018	ND		0.018	ND		0.021	ND		0.018	ND		0.022	ND		0.021	ND		0.022
4,4'-DDT	2000.00	8000.00	ND		0.053	ND		0.065	ND		0.065	ND		0.073	ND		0.064	ND		0.076	ND		0.075	ND		0.076
Aldrin	40.00	200.00	ND		0.023	ND	F2	0.028	ND		0.028	ND		0.031	ND		0.028	ND		0.033	ND		0.033	ND		0.033
alpha-BHC	100.00	500.00	ND		0.018	ND	F1	0.022	ND		0.022	ND		0.025	ND		0.022	ND		0.026	ND		0.026	ND		0.026
beta-BHC	400.00	2000.00	ND		0.02	ND	F1	0.025	ND		0.025	ND		0.028	ND		0.024	ND		0.029	ND		0.029	ND		0.029
cis-Chlordane	---	---	ND		0.018	ND	F1	0.023	ND		0.023	ND		0.025	ND		0.022	ND		0.027	ND		0.026	ND		0.026
delta-BHC	---	---	0.12		0.023	ND	F2	0.028	ND		0.029	ND		0.032	ND		0.028	ND		0.034	ND		0.033	ND		0.033
Dieldrin	40.00	200.00	ND		0.018	ND	F1	0.023	ND		0.023	ND		0.025	ND		0.022	ND		0.027	ND		0.026	ND		0.026

q -- Estimated maximum possible concentration (EMPC).
p -- The % Relative Percent Difference between the primary and confirmation column/detector is > 40%. The lower value has been reported.

* -- LCS or LCSD is outside acceptance limits.

2022 Sediment Core Samples – Maurice Cove (Tetra Tech, Inc. 2022)



