Table 1. Number of Sediment Cores in Model Grid Cells

Model Grid Cell (IJ Column)	Number of 2,3,7,8-TCDD Sediment Cores	Number of TPCB Sediment Cores	Number of 4,4'-DDx Sediment Cores	Number of Mercury Sediment Cores
16032	1	1	1	1
16033	1	1	1	1
16034	1	1	1	1
16035	1	1	1	1
16036	2	2	2	2
16037	0	0	0	0
16038	2	2	2	2
16039	0	0	0	0
16040	2	2	2	2
16041	2	2	2	2
16042	1	1	1	1
16043	2	2	2	2
16044	2	2	2	2
16048	1	1	1	1
16049	1	1	1	1
16050	2	2	2	2
16051	0	0	0	0
16052	0	0	0	0
16053	2	1	1	2
16054	2	2	2	1
16055	4	4	4	4
16056	3	3	3	3
16057	3	3	3	3
16058	7	7	7	8
16059	2	2	2	2
16060	1	1	1	1
17032	0	0	0	0
17033	0	0	0	0
17034	0	0	0	0
17035	0	0	0	0
17036	1	1	1	1
17037	1	1	1	1
17038	1	1	1	1
17039	0	0	0	0
17040	0	0	0	0
17041	0	0	0	0
17042	1	1	1	1
17043	1	1	1	1
17044	2	2	2	2
17045	3	3	3	3
17046	1	1	1	1
17047	0	0	0	0
17048	4	4	4	4
17049	1	1	1	1
17050	1	1	1	1
17051	2	2	2	2

Table 1. Number of Sediment Cores in Model Grid Cells (Cont'd)

Model Grid Cell (IJ Column)	Number of 2,3,7,8-TCDD Sediment Cores	Number of TPCB Sediment Cores	Number of 4,4'-DDx Sediment Cores	Number of Mercury Sediment Cores
17052	1	1	1	1
17053	2	2	2	2
17054	4	4	4	4
17055	4	4	4	4
17056	4	4	4	4
17057	4	4	4	4
17058	2	2	2	2
17059	1	1	1	1
17060	1	1	1	1
18032	0	0	0	0
18033	0	0	0	0
18034	0	0	0	0
18035	0	0	0	0
18036	0	0	0	0
18037	0	0	0	0
18038	1	1	1	1
18039	0	0	0	0
18040	2	2	2	2
18041	3	3	3	3
18042	2	2	2	2
18043	1	1	1	1
18044	1	1	1	1
18045	5	5	5	5
18046	1	1	1	1
18047	1	1	1	1
18048	2	2	2	3
18049	2	2	2	2
18050	2	2	2	2
18051	1	1	1	1
18052	2	2	2	2
18053	2	1	2	2
18054	3	3	3	3
18055	4	4	4	4
18056	3	3	3	3
18057	3	3	3	3
18058	3	3	3	3
18059	1	1	1	1
18060	0	0	0	0
19033	0	0	0	0
19034	0	0	0	0
19035	0	0	0	0
19036	0	0	0	0
19037	3	3	3	3
19038	1	1	1	1
19039	1	1	1	1
19040	2	2	2	2

Table 1. Number of Sediment Cores in Model Grid Cells (Cont'd)

Model Grid Cell (IJ Column)	Number of 2,3,7,8-TCDD Sediment Cores	Number of TPCB Sediment Cores	Number of 4,4'-DDx Sediment Cores	Number of Mercury Sediment Cores
19041	2	2	2	2
19042	1	1	1	1
19043	2	2	2	2
19044	2	2	2	2
19045	4	4	4	4
19046	3	3	3	3
19047	0	0	0	0
19048	2	2	2	2
19049	1	1	1	1
19050	1	1	1	1
19051	1	1	1	1
19052	1	1	1	1
20034	0	0	0	0
20035	1	1	1	1
20036	0	0	0	0
20051	1	1	1	1
20052	2	2	2	2
21034	0	0	0	0
21035	0	0	0	0
21051	2	2	2	2
21052	1	1	1	1
22034	0	0	0	0
22035	1	1	1	1
23035	0	0	0	0

Table 2. Summary of Number of Cores in Model Grid Cells

Number of Sediment Cores	Count of Model Grid Cell (IJ Column)	Percent of Total Model Grid Cells
0	31	27%
1	37	32%
2	27	23%
3	11	9%
4	8	7%
5	1	1%
8	1	1%

Table 3. Ratio of Sediment Exposed Concentrations to Surface Concentrations in Model Grid Cells

Model Grid Cell (IJ Column)	New Alt3 Dredged Depth (ft)	Avg Sediment 2,3,7,8-TCDD Exposed Conc to Surface Conc Ratio	Avg Sediment TPCB Exposed Conc to Surface Conc Ratio	Avg Sediment 4,4'-DDx Exposed Conc to Surface Conc Ratio	Avg Sediment Mercury Exposed Conc to Surface Conc Ratio	Maximum Sediment Exposed Conc to Surface Conc Ratio	Parameter with maximum sediment exposed Conc to surface Conc Ratio
16032	12	0.97	2.6	47	2.2	47	4,4'-DDx
16033	12	6.0	6.5	4.9	5.9	6.5	TPCB
16034	13	2.8	5.3	2.8	4.4	5.3	TPCB
16035	8.6	1.2	2.8	2.1	3.5	3.5	Mercury
16036	7.9	3.1	1.8	3.5	3.0	3.5	4,4'-DDx
16038	4.9	21	13	1.9	5.9	21	2,3,7,8-TCDD
16040	2.5	6.9	14	24	3.0	24	4,4'-DDx
16041	2.5	0.01	0.04	0.02	0.07	0.07	Mercury
16042	2.5	1.0	1.7	1.2	1.4	1.7	TPCB
16043	2.5	1.4	0.36	0.50	1.7	1.7	Mercury
16044	2.5	5.4	7.3	29	1.8	29	4,4'-DDx
16048	2.5	1.7	2.2	2.1	1.7	2.2	TPCB
16049	2.5	0.001	0.01	0.19	0.07	0.19	4,4'-DDx
16050	2.5	0.01	0.03	0.004	3.9	3.9	Mercury
16053	2.5	1.9	5.1	1.1	0.99	5.1	TPCB
16054	2.5	4.1	2.1	0.94	1.7	4.1	2,3,7,8-TCDD
16055	2.5	4.2	1.3	1.4	2.1	4.2	2,3,7,8-TCDD
16056	2.5	13	0.97	1.4	6.7	13	2,3,7,8-TCDD
16057	3.0	0.95	0.15	1.3	2.0	2.0	Mercury
16058	3.3	0.26	1.2	1.3	1.4	1.4	Mercury
16059	2.5	4.6	5.1	2.2	3.3	5.1	TPCB
16060	2.5	0.003	0.002	0.001	0.14	0.14	Mercury
17036	8.2	0.08	0.93	0.67	2.6	2.6	Mercury
17037	11	3.8	3.1	1.5	2.7	3.8	2,3,7,8-TCDD
17038	11	0.46	1.7	1.2	1.8	1.8	Mercury
17042	2.5	0.91	0.81	0.87	1.1	1.1	Mercury
17043	2.5	0.89	1.4	0.43	2.1	2.1	Mercury
17044	2.5	3.6	2.6	0.80	1.8	3.6	2,3,7,8-TCDD
17045	2.5	8.9	4.7	4.0	3.3	8.9	2,3,7,8-TCDD
17046	3.5	23	8.7	6.3	4.0	23	2,3,7,8-TCDD
17048	2.5	1.2	2.3	1.7	1.8	2.3	TPCB
17049	2.5	8.4	10	11	2.9	11	4,4'-DDx
17050	2.5	4.7	2.6	5.7	1.3	5.7	4,4'-DDx
17051	2.5	49	3.2	3.6	2.9	49	2,3,7,8-TCDD
17052	2.5	23	10	8.0	5.8	23	2,3,7,8-TCDD
17053	2.5	0.03	0.96	0.09	0.39	0.96	TPCB
17054	2.5	1.9	2.1	1.3	1.6	2.1	TPCB
17055	2.5	0.004	0.07	0.03	0.05	0.07	TPCB
17056	2.5	3.0	3.5	2.6	2.4	3.5	TPCB
17057	2.5	34	0.94	5.6	4.4	34	2,3,7,8-TCDD
17058	2.5	0.005	0.002	0.001	5.3	5.3	Mercury
17059	2.5	2.0	6.7	2.5	5.9	6.7	TPCB
17060	4.0	3.4	9.0	1.1	2.0	9.0	TPCB
18038	9.9	2.3	3.5	1.8	1.5	3.5	TPCB
18040	2.5	4.6	3.1	0.90	4.5	4.6	2,3,7,8-TCDD
18041	2.5	21	4.0	1.9	3.9	21	2,3,7,8-TCDD
18042	2.5	6.0	2.4	0.59	4.1	6.0	2,3,7,8-TCDD
18043	2.5	14	4.7	0.02	2.9	14	2,3,7,8-TCDD
18044	2.5	10	6.3	1.9	3.0	10	2,3,7,8-TCDD
18045	2.5	11	10	2.5	3.2	11	2,3,7,8-TCDD
18046	2.5	1.7	1.6	1.7	2.9	2.9	Mercury

Table 3. Ratio of Sediment Exposed Concentrations to Surface Concentrations in Model Grid Cells (Cont'd

Model Grid Cell (IJ Column)	New Alt3 Dredged Depth (ft)	Avg Sediment 2,3,7,8-TCDD Exposed Conc to Surface Conc Ratio	Avg Sediment TPCB Exposed Conc to Surface Conc Ratio	Avg Sediment 4,4'-DDx Exposed Conc to Surface Conc Ratio	Avg Sediment Mercury Exposed Conc to Surface Conc Ratio	Maximum Sediment Exposed Conc to Surface Conc Ratio	Parameter with maximum sediment exposed Conc to surface Conc Ratio
18047	2.5	131	6.2	20	6.1	131	2,3,7,8-TCDD
18048	3.5	4.1	0.18	29	2.0	29	4,4'-DDx
18049	3.5	1.8	2.3	1.3	0.54	2.3	TPCB
18050	3.0	2.8	3.7	0.34	3.6	3.7	TPCB
18051	2.5	12	0.84	1.0	3.3	12	2,3,7,8-TCDD
18052	2.5	21	8.2	5.8	4.8	21	2,3,7,8-TCDD
18053	2.5	1.6	3.3	0.44	1.2	3.3	TPCB
18054	2.5	2.6	2.5	1.3	1.1	2.6	2,3,7,8-TCDD
18055	2.5	11	2.0	0.57	0.59	11	2,3,7,8-TCDD
18056	2.5	4.6	3.7	1.7	1.6	4.6	2,3,7,8-TCDD
18057	2.5	1.1	1.6	2.1	1.7	2.1	4,4'-DDx
18058	2.7	0.10	0.05	1.2	0.54	1.2	4,4'-DDx
18059	2.5	0.002	0.06	0.28	0.80	0.80	Mercury
19037	2.5	2.6	2.6	2.4	2.7	2.7	Mercury
19038	2.5	13	12	2.4	2.3	13	2,3,7,8-TCDD
19039	4.7	4.7	6.7	1.6	3.7	6.7	TPCB
19040	2.5	6.7	6.6	4.2	2.9	6.7	2,3,7,8-TCDD
19041	2.5	3.0	2.5	1.8	1.4	3.0	2,3,7,8-TCDD
19042	2.5	2.0	1.2	0.97	1.5	2.0	2,3,7,8-TCDD
19043	2.5	2.4	0.68	0.70	2.0	2.4	2,3,7,8-TCDD
19044	2.5	1.3	4.6	4.1	3.7	4.6	TPCB
19045	2.5	3.3	3.0	1.0	1.9	3.3	2,3,7,8-TCDD
19046	2.5	0.06	4.0	0.41	2.2	4.0	TPCB
19048	2.5	0.05	0.73	0.06	0.06	0.73	TPCB
19049	2.5	0.50	0.41	0.47	0.27	0.50	2,3,7,8-TCDD
19050	2.5	0.11	0.03	0.06	0.07	0.11	2,3,7,8-TCDD
19051	2.5	6.6	3.7	2.0	3.2	6.6	2,3,7,8-TCDD
19052	2.5	1.6	1.2	2.0	2.5	2.5	Mercury
20035	2.5	0.03	0.08	0.07	0.09	0.09	Mercury
20051	2.5	19	7.0	7.2	3.8	19	2,3,7,8-TCDD
20052	2.5	21	11	1.6	1.8	21	2,3,7,8-TCDD
21051	2.5	0.01	0.02	0.04	0.02	0.04	4,4'-DDx
21052	2.5	14	5.1	5.8	3.9	14	2,3,7,8-TCDD
22035	2.5	0.01	0.08	0.08	0.15	0.15	Mercury

Legend

Maximum Exposed Conc /Surface Conc Ratio

0 - 2
2.01 - 4
4.01 - 6
6.01 - 8
8.01 - 10
> 10.01

Data Type

Core Results
Model Results
Phase I & II Removal

0 250500 1,000
Feet

Maximum Exposed to Surface Concentration Ratio Among Four Parameters in Each Model IJ Cell

Lower Passaic River Resotration Project

Figure 1

2016

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