

**Table 5.1-1
PCB Transect Study Loading Analysis**

Location ⁽¹⁾	Date	Total PCB (ng/L) ⁽²⁾	Diss. PCB (ng/L) ⁽²⁾	% Diss. PCB ⁽³⁾	Part. PCB (mg/kg)	TSS (mg/L)	Mean USGS Flow at Fort Edward During Sampling (cfs)	% Flow per Transect Node	Flow Factor	Node or Transect Flow (cfs)	PCB Loading (g/day)
WRI-1	5/22/2009	853.0	487.0	57.1	26.0	14.1	8993	3.9	0.96	334	696
WRI-2	5/22/2009	1284.0	310.9	24.2	31.4	31.0	8993	8.1	0.96	704	2212
WRI-3	5/22/2009	541.9	121.7	22.5	30.7	13.7	8993	9.8	0.96	850	1126
WRI-4	5/22/2009	47.0	25.5	54.3	3.4	6.4	8993	17.5	0.96	1516	174
WRI-5	5/22/2009	32.4	11.1	34.3	5.1	4.2	8993	21.6	0.96	1871	148
WRI-6	5/22/2009	6.9	19.1	100.0	-- ⁽⁴⁾	4.2	8993	15.6	0.96	1348	23
WRI-7	5/22/2009	11.8	15.8	100.0	-- ⁽⁴⁾	4.9	8993	15.5	0.96	1338	39
WRI-8	5/22/2009	3.2	20.9	100.0	-- ⁽⁴⁾	3.8	8993	8.0	0.96	696	5
ERI-1	5/22/2009	189.6	154.0	81.2	9.5	3.7	9340	28.0	0.04	98	45
ERI-2	5/22/2009	202.4	151.0	74.6	18.9	2.7	9340	22.1	0.04	77	38
ERI-3	5/22/2009	199.8	146.0	73.1	17.2	3.1	9340	26.5	0.04	93	45
ERI-4	5/22/2009	192.0	167.2	87.1	8.1	3.1	9340	9.8	0.04	34	16
ERI-5	5/22/2009	242.5	161.0	66.4	19.6	4.2	9340	13.6	0.04	48	28
NTIP-1	5/22/2009	177.2	161.0	90.9	3.9	4.1	8890	1.1	1.0	97	42
NTIP-2	5/22/2009	160.9	87.8	54.6	21.2	3.5	8890	6.4	1.0	572	225
NTIP-3	5/22/2009	79.9	74.1	92.7	1.4	4.1	8890	22.6	1.0	2010	393
NTIP-4	5/22/2009	35.0	45.7	100.0	-- ⁽⁴⁾	3.6	8890	40.3	1.0	3579	306
NTIP-5	5/22/2009	54.2	24.2	44.6	8.0	3.8	8890	29.6	1.0	2631	348
WRI-1	5/25/2009	92.2	NA	--	--	1.3	6900	3.9	0.96	256	58
WRI-2	5/25/2009	54.9	NA	--	--	1.4	6900	8.1	0.96	540	73
WRI-3	5/25/2009	3.0	NA	--	--	1.2	6900	9.8	0.96	652	5
WRI-4	5/25/2009	19.0	NA	--	--	1.2	6900	17.5	0.96	1163	54
WRI-5	5/25/2009	14.7	NA	--	--	1.2	6900	21.6	0.96	1435	52
WRI-6	5/25/2009	3.0	NA	--	--	1.4	6900	15.6	0.96	1035	8
WRI-7	5/25/2009	3.2	NA	--	--	1.2	6900	15.5	0.96	1026	8
WRI-8	5/25/2009	15.8	NA	--	--	1.7	6900	8.0	0.96	534	21
ERI-1	5/25/2009	53.3	NA	--	--	1.1	7647	28.0	0.04	80	10
ERI-2	5/25/2009	71.3	NA	--	--	1.2	7647	22.1	0.04	63	11
ERI-3	5/25/2009	79.0	NA	--	--	1.4	7647	26.5	0.04	76	15
ERI-4	5/25/2009	74.9	NA	--	--	2.7	7647	9.8	0.04	28	5
ERI-5	5/25/2009	66.8	NA	--	--	1.5	7647	13.6	0.04	39	6
NTIP-1	5/25/2009	57.4	NA	--	--	2.0	6750	1.1	1.0	74	10
NTIP-2	5/25/2009	44.6	NA	--	--	1.3	6750	6.4	1.0	434	47
NTIP-3	5/25/2009	35.1	NA	--	--	1.4	6750	22.6	1.0	1526	131
NTIP-4	5/25/2009	16.8	NA	--	--	1.6	6750	40.3	1.0	2718	112
NTIP-5	5/25/2009	8.2	NA	--	--	1.5	6750	29.6	1.0	1998	40
WRI-1	5/26/2009	429.7	NA	--	--	7.2	8276	3.9	0.96	307	322
WRI-2	5/26/2009	410.4	NA	--	--	8.9	8276	8.1	0.96	648	651
WRI-3	5/26/2009	221.4	NA	--	--	5.8	8276	9.8	0.96	782	423
WRI-4	5/26/2009	155.6	NA	--	--	4.1	8276	17.5	0.96	1395	531
WRI-5	5/26/2009	36.5	NA	--	--	3.0	8276	21.6	0.96	1721	154
WRI-6	5/26/2009	69.1	NA	--	--	4.1	8276	15.6	0.96	1241	210
WRI-7	5/26/2009	18.8	NA	--	--	3.2	8276	15.5	0.96	1231	57
WRI-8	5/26/2009	9.1	NA	--	--	3.6	8276	8.0	0.96	641	14
ERI-1	5/26/2009	94.7	NA	--	--	1.2	6849	28.0	0.04	72	17
ERI-2	5/26/2009	94.1	NA	--	--	1.2	6849	22.1	0.04	57	13
ERI-3	5/26/2009	88.8	NA	--	--	1.3	6849	26.5	0.04	68	15
ERI-4	5/26/2009	100.3	NA	--	--	1.5	6849	9.8	0.04	25	6
ERI-5	5/26/2009	96.0	NA	--	--	1.2	6849	13.6	0.04	35	8
NTIP-1	5/26/2009	133.8	NA	--	--	2.2	6753	1.1	1.0	74	24
NTIP-2	5/26/2009	75.2	NA	--	--	2.0	6753	6.4	1.0	435	80
NTIP-3	5/26/2009	39.8	NA	--	--	1.6	6753	22.6	1.0	1527	149
NTIP-4	5/26/2009	16.0	NA	--	--	1.7	6753	40.3	1.0	2719	106
NTIP-5	5/26/2009	29.4	NA	--	--	1.9	6753	29.6	1.0	1999	144
WRI-1	5/28/2009	1620.0	NA	--	--	7.3	5975	3.9	0.96	222	878
WRI-2	5/28/2009	1542.8	NA	--	--	7.9	5975	8.1	0.96	468	1766
WRI-3	5/28/2009	494.5	NA	--	--	4.0	5975	9.8	0.96	565	683
WRI-4	5/28/2009	192.4	NA	--	--	2.3	5975	17.5	0.96	1007	474
WRI-5	5/28/2009	83.9	NA	--	--	1.8	5975	21.6	0.96	1243	255

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Location ⁽¹⁾	Date	Total PCB (ng/L) ⁽²⁾	Diss. PCB (ng/L) ⁽²⁾	% Diss. PCB ⁽³⁾	Part. PCB (mg/kg)	TSS (mg/L)	Mean USGS Flow at Fort Edward During Sampling (cfs)	% Flow per Transect Node	Flow Factor	Node or Transect Flow (cfs)	PCB Loading (g/day)
WRI-6	5/28/2009	11.8	NA	--	--	1.6	5975	15.6	0.96	896	26
WRI-7	5/28/2009	3.0	NA	--	--	1.8	5975	15.5	0.96	889	7
WRI-8	5/28/2009	9.1	NA	--	--	1.8	5975	8.0	0.96	462	10
ERI-1	5/28/2009	3000.0	NA	--	--	9.6	3860	28.0	0.04	40	296
ERI-2	5/28/2009	3070.0	NA	--	--	8.2	3860	22.1	0.04	32	240
ERI-3	5/28/2009	5098.0	NA	--	--	8.5	3860	26.5	0.04	38	477
ERI-4	5/28/2009	4127.0	NA	--	--	7.8	3860	9.8	0.04	14	143
ERI-5	5/28/2009	4920.0	NA	--	--	7.9	3860	13.6	0.04	20	237
NTIP-1	5/28/2009	360.0	NA	--	--	2.1	7478	1.1	1.0	82	72
NTIP-2	5/28/2009	361.0	NA	--	--	2.5	7478	6.4	1.0	481	425
NTIP-3	5/28/2009	431.9	NA	--	--	2.9	7478	22.6	1.0	1691	1785
NTIP-4	5/28/2009	204.8	NA	--	--	2.1	7478	40.3	1.0	3011	1508
NTIP-5	5/28/2009	230.9	NA	--	--	2.5	7478	29.6	1.0	2213	1250
WRI-1	7/23/2009	1208.1	777.2	64.3	93.1	4.6	6085	20	0.96	1171	3460
WRI-2	7/23/2009	229.0	214.5	93.6	7.4	2.0	6085	20	0.96	1171	656
WRI-3	7/23/2009	127.2	55.4	43.5	21.3	3.4	6085	20	0.96	1171	364
WRI-4	7/23/2009	384.5	238.5	62.0	60.6	2.4	6085	20	0.96	1171	1101
WRI-5	7/23/2009	369.6	317.7	86.0	38.1	1.4	6085	20	0.96	1171	1059
ERI-Comp.	7/23/2009	6678.2	5141.7	77.0	113.0	13.6	6070	100	0.04	227	3707
NTIP-Comp.	7/23/2009	590.9	548.0	92.7	16.3	2.6	5930	100	1.0	5930	8568
EGIA-Up	7/23/2009	623.1	523.9	84.1	31.3	3.2	5930	100	1.0	5930	9034
EGIA - Inside Sheeting	7/23/2009	21687.5	9464.7	43.6	745.3	16.4	--	--	--	--	--
EGIA-DS of Sheeting - 1	7/23/2009	611.1	545.8	89.3	18.3	3.6	5953	20	1.0	1191	1779
EGIA-DS of Sheeting - 2	7/23/2009	623.7	481.8	77.2	44.9	3.2	5953	20	1.0	1191	1816
EGIA-DS of Sheeting - 3	7/23/2009	682.1	551.4	80.8	55.1	2.4	5953	20	1.0	1191	1986
EGIA-DS of Sheeting - 4	7/23/2009	672.7	587.4	87.3	50.2	1.7	5953	20	1.0	1191	1958
EGIA-DS of Sheeting - 5	7/23/2009	928.7	651.9	70.2	63.8	4.3	5953	20	1.0	1191	2703
EGIA-Down-1	7/23/2009	564.2	518.6	91.9	14.2	3.2	5176	3	1.0	155	214
EGIA-Down-2	7/23/2009	592.3	459.0	77.5	41.8	3.2	5176	26	1.0	1346	1949
EGIA-Down-3	7/23/2009	528.1	461.8	87.4	19.1	3.5	5176	36	1.0	1863	2406
EGIA-Down-4	7/23/2009	648.7	535.1	82.5	31.5	3.6	5176	27	1.0	1398	2217
EGIA-Down-5	7/23/2009	752.7	705.2	93.7	25.6	1.9	5176	8	1.0	414	762
TI Stilling Well Grab	7/23/2009	366.2	320.4	87.5	17.6	2.6	--	--	--	--	--
WRI-North	8/10/2009	5.6	4.6	81.3	0.8	1.4	7269.0	100	0.96	6997	96
WRI-Comp.	8/10/2009	33.0	28.4	86.1	2.6	1.8	7269.0	100	0.96	6997	564
ERI-North	8/11/2009	48.7	24.6	50.4	9.4	2.6	7269.0	100	0.04	272	32
ERI-Comp.	8/10/2009	186.9	127.0	68.0	3.1	19.2	7269.0	100	0.04	272	124
NTIP-Comp.	8/10/2009	82.0	25.6	31.3	9.8	5.7	7269.0	100	1.0	7269	1457
EGIA-Up	8/10/2009	48.4	31.6	65.3	6.0	2.8	7269.0	100	1.0	7269	860
EGIA - Inside Sheeting	8/10/2009	21692.1	14773.2	68.1	1438.4	4.8	7269.0	--	--	--	--
EGIA-DS of Sheeting	8/10/2009	71.5	56.2	78.6	6.0	2.6	7269.0	--	--	--	--
EGIA - Inside Silt Curtain	8/10/2009	86.8	58.2	67.0	14.5	2.0	7269.0	--	--	--	--
EGIA-Down-1	8/10/2009	44.0	38.4	87.4	2.9	1.9	7269.0	3	1.0	218	23
EGIA-Down-2	8/10/2009	43.1	31.0	72.0	5.2	2.3	7269.0	26	1.0	1890	199
EGIA-Down-3	8/10/2009	57.2	33.9	59.3	8.8	2.6	7269.0	36	1.0	2617	366
EGIA-Down-4	8/10/2009	62.7	41.5	66.2	8.7	2.4	7269.0	27	1.0	1963	301
EGIA-Down-5	8/10/2009	112.5	78.9	70.2	18.6	1.8	7269.0	8	1.0	582	160
WRI-North	8/12/2009	18.9	8.8	46.4	3.9	2.6	6767.0	100	0.96	6514	300
WRI-Comp.	8/12/2009	64.7	73.5	100.0	-- ⁽⁴⁾	3.1	6767.0	100	0.96	6514	1031
ERI-North	8/12/2009	234.3	85.1	36.3	14.9	10.0	6767.0	100	0.04	253	145
ERI-Comp.	8/12/2009	817.8	533.3	65.2	54.9	5.2	6767.0	100	0.04	253	506
NTIP-Comp.	8/12/2009	59.8	49.1	82.0	2.5	4.3	6767.0	100	1.0	6767	990
EGIA-Up	8/12/2009	74.9	73.9	98.6	0.5	2.3	6767.0	100	1.0	6767	1240
EGIA - Inside Sheeting	8/12/2009	26254.2	17210.0	65.6	611.1	14.8	6767.0	--	--	--	--
EGIA-Down-1	8/12/2009	77.1	64.0	83.1	5.0	2.6	6767.0	3	1.0	203	38
EGIA-Down-2	8/12/2009	71.3	45.4	63.7	9.6	2.7	6767.0	26	1.0	1759	307
EGIA-Down-3	8/12/2009	66.8	53.8	80.6	4.8	2.7	6767.0	36	1.0	2436	398
EGIA-Down-4	8/12/2009	85.3	79.6	93.4	2.7	2.1	6767.0	27	1.0	1827	381
EGIA-Down-5	8/12/2009	150.0	132.7	88.5	8.2	2.1	6767.0	8	1.0	541	199

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Location ⁽¹⁾	Date	Total PCB (ng/L) ⁽²⁾	Diss. PCB (ng/L) ⁽²⁾	% Diss. PCB ⁽³⁾	Part. PCB (mg/kg)	TSS (mg/L)	Mean USGS Flow at Fort Edward During Sampling (cfs)	% Flow per Transect Node	Flow Factor	Node or Transect Flow (cfs)	PCB Loading (g/day)
WRI-North	8/14/2009	14.8	10.3	70.0	2.7	1.6	4044.0	100	0.96	3893	141
WRI-Comp.	8/14/2009	223.5	161.1	72.1	15.8	4.0	4044.0	100	0.96	3893	2127
ERI-North	8/14/2009	93.3	35.7	38.3	8.0	7.2	4044.0	100	0.04	151	35
ERI-Comp.	8/14/2009	3993.5	2277.1	57.0	195.9	8.8	4044.0	100	0.04	151	1477
NTIP-Comp.	8/14/2009	415.8	248.6	59.8	4.3	38.8	4044.0	100	1.0	4044	4112
EGIA-Up	8/14/2009	206.8	126.9	61.3	28.6	2.8	4044.0	100	1.0	4044	2045
EGIA - Inside Sheeting	8/14/2009	32038.6	16592.8	51.8	141.7	109.0	4044.0	--	--	--	--
EGIA-Down-1	8/14/2009	137.1	105.9	77.3	14.4	2.2	4044.0	3	1.0	121	41
EGIA-Down-2	8/14/2009	163.0	123.1	75.5	20.1	2.0	4044.0	26	1.0	1051	419
EGIA-Down-3	8/14/2009	173.0	117.6	68.0	22.9	2.4	4044.0	36	1.0	1456	616
EGIA-Down-4	8/14/2009	168.0	122.6	73.0	20.9	2.2	4044.0	27	1.0	1092	448
EGIA-Down-5	8/14/2009	197.6	137.1	69.4	21.2	2.9	4044.0	8	1.0	324	156
WRI-North	8/17/2009	140.6	67.8	48.2	25.8	2.8	3711.0	100	0.96	3572	1228
WRI-Comp.	8/17/2009	155.8	97.6	62.6	21.3	2.7	3711.0	100	0.96	3572	1361
ERI-North	8/17/2009	272.8	68.5	25.1	10.2	20.1	3711.0	100	0.04	139	93
ERI-Comp.	8/17/2009	1568.6	869.5	55.4	116.3	6.0	3711.0	100	0.04	139	532
NTIP-Comp.	8/17/2009	288.6	133.6	46.3	1.3	117.0	3711.0	100	1.0	3711	2618
EGIA-Up	8/17/2009	192.1	88.7	46.2	9.2	11.3	3711.0	100	1.0	3711	1743
EGIA - Inside Sheeting	8/17/2009	25444.1	25420.1	99.9	0.7	32.6	3711.0	--	--	--	--
EGIA-Down-1	8/17/2009	188.2	100.5	53.4	26.5	3.3	3711.0	3	1.0	111	51
EGIA-Down-2	8/17/2009	193.7	96.1	49.6	49.8	2.0	3711.0	26	1.0	965	457
EGIA-Down-3	8/17/2009	227.2	102.5	45.1	77.0	1.6	3711.0	36	1.0	1336	742
EGIA-Down-4	8/17/2009	237.2	119.7	50.5	65.3	1.8	3711.0	27	1.0	1002	581
EGIA-Down-5	8/17/2009	434.7	290.0	66.7	51.2	2.8	3711.0	8	1.0	297	316
WRI-North	8/22/2009	43.9	27.0	61.6	5.3	3.2	2381.0	100	0.96	2292	246
WRI-Comp.	8/22/2009	105.8	55.4	52.4	25.1	2.0	2381.0	100	0.96	2292	593
ERI-North	8/22/2009	288.5	37.1	12.9	4.4	57.7	2381.0	100	0.04	89	63
ERI-Comp.	8/22/2009	2480.5	1457.8	58.8	103.4	9.9	2381.0	100	0.04	89	540
NTIP-Comp.	8/22/2009	235.0	188.8	80.4	1.5	30.8	2381.0	100	1.0	2381	1368
EGIA-Up	8/22/2009	187.0	138.9	74.3	28.8	1.7	2381.0	100	1.0	2381	1088
EGIA - Inside Sheeting	8/22/2009	3473.0	2609.0	75.1	326.0	2.7	2381.0	--	--	--	--
EGIA - Inside Silt Curtain	8/22/2009	3102.6	2375.3	76.6	60.6	12.0	2381.0	--	--	--	--
EGIA-Down-1	8/22/2009	191.1	115.2	60.3	11.6	6.6	2381.0	3	1.0	71	33
EGIA-Down-2	8/22/2009	157.3	109.8	69.8	29.2	1.6	2381.0	26	1.0	619	238
EGIA-Down-3	8/22/2009	598.7	415.6	69.4	130.8	1.4	2381.0	36	1.0	857	1255
EGIA-Down-4	8/22/2009	623.7	477.9	76.6	92.9	1.6	2381.0	27	1.0	643	980
EGIA-Down-5	8/22/2009	1220.1	894.6	73.3	125.2	2.6	2381.0	8	1.0	190	568
WRI-Comp.	10/21/2009	41.0	NA	--	--	NA	4039.0	100	0.96	3888	390
ERI-Comp.	10/21/2009	688.3	NA	--	--	NA	4039.0	100	0.04	151	254
NTIP-Comp.	10/21/2009	70.9	NA	--	--	NA	4039.0	100	1.0	4039	700
EGIA-Up	10/21/2009	142.5	NA	--	--	NA	4039.0	100	1.0	4039	1407
EGIA-Down	10/21/2009	272.2	NA	--	--	NA	4039.0	100	1.0	4039	2688

Notes:

- (1) Sample locations illustrated in Figure 5.1-2.
- (2) Revised correction factor developed during RAMP has been applied to PCB data.
- (3) For paired samples where dissolved fraction exceeds total fraction, % dissolved is assumed to be 100%.
- (4) For paired samples where dissolved fraction exceeds total fraction particulate fraction not calculated

WRI = West Rogers Island

ERI = East Rogers Island

NTIP = Northern Thompson Island Pool

EGIA = East Griffin Island Area

**Table 5.1-2
PCB Transect Data Summary**

Location	Date	Transect Average				Total Transect PCB Loading (g/day)
		Total PCB (ng/L) ⁽¹⁾	Diss. PCB (ng/L) ⁽¹⁾	% Diss. PCB ⁽²⁾	TSS (mg/L)	
WRI	5/22/2009	347.5	126.5	61.5	10.3	4,422
ERI		205.3	155.8	76.5	3.4	173
NTIP		101.4	78.6	76.6	3.8	1,315
WRI	5/25/2009	25.7	--	--	1.3	277
ERI		69.1	--	--	1.6	48
NTIP		32.4	--	--	1.6	341
WRI	5/26/2009	168.8	--	--	5.0	2,361
ERI		94.8	--	--	1.3	59
NTIP		58.8	--	--	1.8	503
WRI	5/28/2009	494.7	--	--	3.6	4,098
ERI		4043.0	--	--	8.4	1,392
NTIP		317.7	--	--	2.4	5,040
WRI	7/23/2009	463.7	320.7	69.9	2.8	6,641
ERI		6678.2	5141.7	77.0	13.6	3,707
NTIP		590.9	548.0	92.7	2.6	8,568
EGIA-UP		623.1	523.9	84.1	3.2	9,034
EGIA-Curtain		703.6	563.7	81.0	3.0	10,242
EGIA-Down		617.2	535.9	86.6	3.1	7,549
North WRI	8/10/2009	5.6	4.6	81.3	1.4	96
WRI		33.0	28.4	86.1	1.8	564
North ERI		48.7	24.6	50.4	2.6	32
ERI		186.9	127.0	68.0	19.2	124
NTIP		82.0	25.6	31.3	5.7	1,457
EGIA-UP		48.4	31.6	65.3	2.8	860
EGIA-Down		63.9	44.8	71.0	2.2	1,049
North WRI	8/12/2009	18.9	8.8	46.4	2.6	300
WRI		64.7	73.5	100.0	3.1	1,031
North ERI		234.3	85.1	36.3	10.0	145
ERI		817.8	533.3	65.2	5.2	506
NTIP		59.8	49.1	82.0	4.3	990
EGIA-UP		74.9	73.9	98.6	2.3	1,240
EGIA-Down		90.1	75.1	81.8	2.4	1,322
North WRI	8/14/2009	14.8	10.3	70.0	1.6	141
WRI		223.5	161.1	72.1	4.0	2,127
North ERI		93.3	35.7	38.3	7.2	35
ERI		3993.5	2277.1	57.0	8.8	1,477
NTIP		415.8	248.6	59.8	38.8	4,112
EGIA-Up		206.8	126.9	61.3	2.8	2045
EGIA-Down		167.7	121.3	72.6	2.3	1,680
North WRI	8/17/2009	140.6	67.8	48.2	2.8	1,228
WRI		155.8	97.6	62.6	2.7	1,361
North ERI		272.8	68.5	25.1	20.1	93
ERI		1568.6	869.5	55.4	6.0	532
NTIP		288.6	133.6	46.3	117.0	2,618
EGIA-Up		192.1	88.7	46.2	11.3	1,743
EGIA-Down		256.2	141.7	53.1	2.3	2,147
North WRI	8/22/2009	43.9	27.0	61.6	3.2	246
WRI		105.8	55.4	52.4	2.0	593
North ERI		288.5	37.1	12.9	57.7	63
ERI		2480.5	1457.8	58.8	9.9	540
NTIP		235.0	188.8	80.4	30.8	1,368
EGIA-Up		187.0	138.9	74.3	1.7	1,088
EGIA-Down		558.2	402.6	69.9	2.8	3,075
WRI	10/21/2009	41.0	--	--	--	390
ERI		688.3	--	--	--	254
NTIP		70.9	--	--	--	700
EGIA-UP		142.5	--	--	--	1,407
EGIA-Down		272.2	--	--	--	2,688

Notes:

(1) - Revised correction factor developed during RAMP has been applied to PCB data.

(2) - For paired samples where dissolved fraction exceeds total fraction, % dissolved is assumed to be 100%.

WRI = West Rogers Island

ERI = East Rogers Island

NTIP = Northern Thompson Island Pool

EGIA = East Griffin Island Area

**Table 5.1-3
Near-Field PCB Release Mechanism Study**

Sample ID	Location	Date/Time	PCBs (ng/L)		Particulate (mg/kg)	% Dissolved PCB	TSS (mg/L)
			Dissovled	Particulate			
WNF-TRAN-090714-GI100UP	100 m Upstream (Single Point)	7/14/09 10:41	284	11.8	10.8	95.8	1.1
WNF-TRAN-090714-30MDOWN	30 m Downstream Transect	7/14/09 14:27	1,779	197.5	39.9	88.9	5.0
WNF-TRAN-090714-GI100MDOWN	100 m Downstream Transect	7/14/09 16:30	290	63.7	38.2	78.0	1.7
WNF-TRAN-090714-300MDOWN	300 m Downstream Transect	7/14/09 15:25	926	104.0	44.3	88.8	2.4
WNF-TRAN-090715-GI100UP	100 m Upstream (Single Point)	7/15/09 9:41	511	18.4	9.7	96.4	1.9
WNF-TRAN-090715-GI30MDOWN	30 m Downstream Transect	7/15/09 10:43	1,214	88.0	48.6	92.7	1.8
WNF-TRAN-090715-GI100MDOWN	100 m Downstream Transect	7/15/09 11:45	1,095	57.5	23.5	94.8	2.4
WNF-TRAN-090715-GI300MDOWN	300 m Downstream Transect	7/15/09 12:47	1,545	107.1	38.5	93.1	2.8
WNF-TRAN-090717-GI100UP	100 m Upstream (Single Point)	7/17/09 12:00	958	15.5	12.4	98.4	1.3
WNF-TRAN-090717-GI30MDOWN	30 m Downstream Transect	7/17/09 13:20	1,112	35.3	16.8	96.8	2.1
WNF-TRAN-090717-GI100MDOWN	100 m Downstream Transect	7/17/09 14:30	4,489	294.8	107.6	93.4	2.7
WNF-TRAN-090717-GI300MDOWN	300 m Downstream Transect	7/17/09 15:42	9,230	237.1	34.6	97.4	6.9
Average			1,952.68	102.6	35.4	92.9	2.7

Note: Updated bias correction factors were applied to Peaks 5, 8, and 14 for modified Green Bay Method, and Total PCBs were recalculated.

**Table 5.1-4
Sediment Trap Data Summary**

Study Area	Sediment Trap Deployment Time	Minimum PCB Conc. (mg/kg)	Maximum PCB Conc. (mg/kg)	Average PCB Conc. (mg/kg)
EGIA	Jul. 8 - Aug. 18	30	121	72.4
Rogers Island West Channel	Aug. 20 - Sept. 16	24	126	66.8
Lock 7	Sept. 18 - Oct. 20	28	51	38.4
EGIA	Oct. 15 - Oct. 22	37	90	64.3

**Table 5.1-5
Comparison of 0-5 cm Total PCB Concentrations in Co-Located Historical (SSAP)
and 2009 Sediment Cores Downstream of Dredge Areas**

Location ID	Historic ID	PCB Concentrations in mg/kg	
		Historic PCBs	2009 PCBs
NTA-DEGIA-SS000001	RS1-9089-ET228	2.78	5.50
NTA-DEGIA-SS000008	RS1-9089-ET070	4.10	18.60
NTA-DEGIA-SS000014	RS1-9089-ET034	6.60	1.39
NTA-DEGIA-SS000015	RS1-9089-ET025	1.07	16.90
NTA-WROIS-SS000002	RS1-9493-AR045	2.78	15.30
NTA-WROIS-SS000013	RS1-9493-WS021	2.80	8.60

Table 5.3-1
Time of Travel from Downstream End of Rogers Island to Thompson Island Sampling Station at Various River Flows

Flow at Fort Edward (cfs)	Time of Travel (hours)
1,500	30.25
3,500	14.00
5,500	9.50
7,500	7.25
9,500	6.00
11,500	5.25
13,500	4.50
15,500	4.00

Note:

Time of travel estimated by Upper Hudson River hydrodynamic model running in steady-state mode.

**Table 5.3-2
Weekly Summary on PCB Removed Outside of East Rogers Island (ERI) and Net PCB Mass
at the Thompson Island Station (TI)**

Week	River Flow (cfs) ¹	Volume Removed Outside ERI (cy) ^{2,3}	PCB Removed Outside ERI (kg) ^{2,3}	Net PCB Mass at TI (kg) ⁴	PCB Released (%) ⁵	
					Gross	Discount 1 kg/day ⁶
6/15/2009	7,478	2,095	148	15	10	5.3
6/22/2009	7,948	4,462	113	15	13	6.7
6/29/2009	6,718	3,631	148	15	10	5.6
7/6/2009	4,697	7,408	805	14	1.8	0.9
7/13/2009	4,587	8,800	896	26	2.9	2.1
7/20/2009	3,537	10,573	601	17	2.8	1.6
7/27/2009	4,537	11,285	680	41	6.0	5.0
8/3/2009	7,840	7,494	627	53	8.5	7.4
8/10/2009	5,466	6,089	155	11	7.0	2.6
8/17/2009	2,983	7,967	271	9	3.4	0.9
8/24/2009	4,338	8,836	359	16	4.4	2.4
8/31/2009	6,046	6,022	249	18	7.4	4.6
9/7/2009	3,592	12,144	790	18	2.2	1.4
9/14/2009	2,493	6,617	366	13	3.5	1.6
9/21/2009	2,696	4,077	73	10	14	4.3
9/28/2009	4,047	3,922	104	10	10	3.5
10/5/2009	6,910	6,355	459	39	8.4	6.9
10/12/2009	5,714	1,826	91	34	38	30
10/19/2009	5,441	3,727	133	28	21	16
10/26/2009	7,495	0	0	12	---	---

Notes:

- ¹ Daily average flow on dredge days.
- ² Volumes and PCB mass removed based on an analysis of the bucket files. Due to uncertainties, these volumes should not be used in absolute to assess productivity.
- ³ Volumes and PCB mass removed within sheet piling area at CU18 before 8/13/09 were not included.
- ⁴ Updated bias correction factors were applied for Peaks 5, 8 and 14 for modified Green Bay Method.
- ⁵ PCB release calculated as mass passing TI divided by PCB removed outside ERI.
- ⁶ Assume average contribution of 1 kg/day PCB load at TI from ERI; days when PCB load at TI is less than 1 kg/day assume all contribution from ERI.

**Table 5.3-3
Summary of River Velocities and Percent PCB Released in
Weeks with Dredging Primarily in Areas of Similar Velocity**

Week¹	Location of Primary Dredging	Average River Velocity (ft/sec)	PCB Released (%)²
6/15/2009	CUs 05&06	2.3	5.3
6/22/2009	CU05	2.3	6.7
6/29/2009	CUs 05&06	2.3	5.7
7/6/2009	CU17	0.5	0.9
7/13/2009	CU17	0.4	2.0
8/11/2009	CU05	1.9	2.6
8/17/2009	CU17	0.2	0.9
8/31/2009	CU7	1.9	4.6
9/7/2009	CU18	0.4	1.4
9/14/2009	CUs 08&18	0.4	1.6
9/21/2009	CUs 08&18	0.4	4.3

Notes:

- ¹. Weeks with % mass removal per CUs with similar velocities < 60% are excluded. The week of 10/19 is excluded as an outlier.
- ². PCB release calculated as PCB mass passing Thompson Island, discounting 1 kg/day from East Rogers Island, divided by PCB removed outside East Rogers Island.

Table 5.4-1
Summary of Decant Water Study Results and the Calculated C_p and K_d

CU	Description	Total PCB (ng/L) ¹	Dissolved PCB (ng/L) ¹	TSS (mg/L)	Calculated Particulate PCB (C _p ; mg/kg)	Calculated K _d (L/kg)
05	Bottom of bucket	54,261	1,586	3,860	14	8,670
	Side of bucket	42,240	1,416	2,260	18	12,754
	50 feet downstream from dredge before dredging	<91	<91	2	---	---
	50 feet downstream from dredge after dredging	108	<91	6	---	---
02	Bottom of bucket	210,415	NA	633	NA	NA
	Side of bucket	28,478	NA	237	NA	NA
	50 feet downstream from dredge before dredging	4,891	NA	18	---	---
	50 feet downstream from dredge after dredging	5,321	NA	18	---	---
17	Bottom of bucket	289,202	95,989	425	455	4,736
	Side of bucket	19,870	11,930	19	416	34,846
	50 feet downstream from dredge before dredging	1,755	1,626	6	---	---
	50 feet downstream from dredge after dredging	5,426	4,137	6	---	---

Note:
Updated bias correction factors were applied for Peaks 5, 8, and 14 for modified Green Bay Method.

**Table 5.5-1
Sheen Investigation Results**

Location	Sample Date	PCB Sheen Result (ng/L)⁽¹⁾	Mid Depth Water Sample Result (ng/L)	Activity Occurring at the Time of Sampling
CU02	6/3/2009	11,700 (501)	1,290	Dredging
CU02	6/4/2009	393,000 (33,700)	121	Dredging
CU18	6/20/2009	2,360 (2,210)	Not collected	Sheet Pile Installation
CU18 Inside Containment	7/24/2009	14,700	Not collected	Dredging
CU18 Outside Containment	7/27/2009	375,000	Not collected	Dredging in southern portion of CU
CU18 Inside Containment	7/30/2009	12,800	Not collected	Dredging
CU18 Inside Containment	8/5/2009	119,000	Not collected	Dredging

Note:

⁽¹⁾ Numbers in parenthesis present results of duplicate analyses.

**Table 5.6-1
Comparison of PCB loads at Lock 5 and Waterford**

Period	Avg Flow at Fort Edward (cfs)	Homolog	Average Load at Lock 5 (g/d)	Average Load at Waterford (g/d)	Percent Change
June 15 – July 6	7194	Mono-	287	228	-21
		Di-	787	712	-10
		Tri-	524	469	-10
		Tetra-	348	359	+3
		Penta-	143	157	+10
July 7 – July 30	3970	Mono-	591	253	-57
		Di-	1409	809	-43
		Tri-	436	274	-37
		Tetra-	174	153	-12
		Penta-	66	53	-20
July 31 – August 13	7149	Mono-	718	525	27
		Di-	1979	1531	-23
		Tri-	841	639	-24
		Tetra-	428	369	-14
		Penta-	181	148	-16
August 14 – August 26	3442	Mono-	185	95	-49
		Di-	684	413	-40
		Tri-	616	159	-48
		Tetra-	133	80	-40
		Penta-	48	33	-31
August 27 – September 8	5661	Mono-	383	263	-31
		Di-	975	711	-27
		Tri-	417	235	-44
		Tetra-	188	108	-43
		Penta-	77	36	-53
September 9 – October 3	3019	Mono-	256	162	-37
		Di-	766	624	-19
		Tri-	250	191	-24
		Tetra-	92	65	-29
		Penta-	35	23	-34
October 4 – October 17	6400	Mono-	467	339	-27
		Di-	1133	1028	-9
		Tri-	564	461	-29
		Tetra-	308	184	-40
		Penta-	129	68	-47

Notes: Bias correction factors were applied for Peaks 5, 8, and 14 for modified Green Bay Method, and Total PCBs were recalculated

**Table 5.8-1
Resuspension Control Measures**

Structural Control Measures	Date Implemented
Rock-dike	June 1st-Oct 27th
East Channel silt curtain and gate installed and in use	June 1st-Sept 23rd
East Channel silt curtain gate SOP developed and put into practice in response to EPA concerns that gate was not being closed adequately	Aug 19th
EGI sheet piling installed and in use in CU18	July 20th-Aug 13th
EGI Silt curtain Installed and in use in CU18	Aug 26th-Sept 17th
Nearshore silt screens installed and in use downstream of CU8 and CU18	Sept 19th-Oct 27th
Dredge Operational Control Measures	
Reduced operational flow limits in West Channel (6,000 cfs, CAT385/345, 7000 cfs CAT320)	May 28th
Modified reduced operational flow limits in West Channel (8,000 cfs CAT320)	June 5th
Modified reduced operational flow limits in West Channel (8,500 cfs CAT320)	July 7th
Monitoring related dredging shutdown	Aug 7th-13th
Slower bucket cycles in areas with higher PCB concentrations	Aug 11th
Limited decanting of bucket water in East Channel and East Rogers Island (bucket decant continued in West Channel)	Aug 11th
Deploy and maintain containment booms in areas creating sheens CU 2,3,4,17,18	July 22nd-Aug 14th
Use containment and absorbent booms at all dredges per direction of EPA	Aug 14th-Aug 30th
Use containment and absorbent booms at all dredges in CU 1,2,3,4,17,18 (revoked in West Channel for safety concerns)	Aug 30th-Oct 27th
Eliminate use of bucket water to wash scows	Aug 11th
Increase sheen response personnel, equipment and supplies.	Aug 11th
Sheen response SOP developed and put into practice to address EPA concern that response was not consistent	Aug 29th
Monitoring related dredging shutdown	Sept 12th
Dedicated sheen response in CU 04, 18	Sept 14th-Oct. 27th
Reduced production CU 04,18	Sept 14th-Sept 19th
Tug Operational Control Measures	
Use minimum 2 tugs for heavy moves (e.g. all hopper barge movements)	May 19th-Oct 27th
Do not push grounded scows until river elevation rises	May 19th-Oct 27th
Limit tug engines to < 1,000 RPM	May 19th-Oct 27th
Idle tugs out of gear	May 19th-Oct 27th
Use carpenter barge with OB engines for mini-scow and dredge movements in shallow west channel	June 5th-Oct 24th
Operate tugs with stern in deepest water available	May 19th-Oct 27th
Scow Operational Control Measures	
Fill Scows to draft no less than 1' above river bottom	May 19th-Oct 27th
Move scows to deeper water during periods of high flow and scour potential	June 21st-27th
Use mini-scows in shallow west channel areas	June 8th

**Table 5.8-2
Resuspension Controls Sampling Results**

Date	Location	Total PCB (ng/L)	Dissolved PCB (ng/L)	TSS (mg/L)	Comments
6/19/2009	ERI 30 m Upstream of Silt Curtain	2,626	Not Collected	10.70	
	ERI 30 m Downstream of Silt Curtain	2,177	Not Collected	5.45	
7/6/2009	ERI 30 m Upstream of Silt Curtain	931	Not Collected	3.21	After 3 off days
	ERI 30 m Downstream of Silt Curtain	729	Not Collected	4.58	
7/10/2009	ERI 30 m Upstream of Silt Curtain	3,929	2,465	11.20	End of work week
	ERI 30 m Downstream of Silt Curtain	5,318	2,943	17.10	
7/23/2009	EGIA Upstream	623	524	3.17	
	EGIA within Sheetpiling	21,687	9,465	16.40	
8/10/2009	EGIA Upstream	48	32	2.81	No active dredging in River or Sheetpiled area
	EGIA within Sheetpiling	21,692	14,773	4.81	
	EGIA upstream of Silt Curtain	87	56	1.86	
8/12/2009	EGIA Upstream	75	74	2.25	
	EGIA within Sheetpiling	26,254	17,210	14.80	
8/14/2009	EGIA Upstream	207	127	2.79	
	EGIA within Sheetpiling	32,039	16,593	109.00	
8/17/2009	EGIA Upstream	192	89	11.30	
	EGIA within Sheetpiling	25,420	25,444	32.60	
8/22/2009	EGIA Upstream	187	139	1.67	Sheetpiling opened to River
	EGIA within Sheetpiling	3,473	2,609	2.65	
	EGIA upstream of Silt Curtain	3,103	2,375	12.00	

Notes:

ERI refers to the East Channel of Rogers Island.

EGIA refers to the East Griffin Island Area.

Updated bias correction factors were applied for Peaks 5, 8, and 14 for modified Green Bay Method.