

**APPENDIX C**

**STP Sampling Results**

**STP Sampling Results**

**NOTES:**

	= High-Flow Event
	= Low-Flow Event
	= Sampler Blank Event

Flow:  
Provided by STP

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n/a = Data Not Available  
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Study Area	Station ID	Date	Time	Flow (mgd)	pH (s.u.)	Temp. (°C)	DO (mg/L)	Alk. (mg/l)	CBOD <sub>5</sub> (mg/l)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH <sub>3</sub> -N (mg/l)	NO <sub>3</sub> -N (mg/l)	NO <sub>2</sub> -N (mg/l)	Avail. Nitro. Avail. Phos. (ratio)	D-OPO <sub>4</sub> (mg/l)	TP (mg/l)	Phyto-plankton Chl-a (mg/m <sup>3</sup> )	Avg. Peri-phyton Chl-a (mg/m <sup>2</sup> )
North Branch Raritan	Environmental Disposal Corp.	07/16/04	6:20 AM	1.5	7.50	21.8	n/a	81	< 2.0	0.5	360	nr	nr	1.03	0.08	1.96	< 0.04	22.9	0.09	0.13	nr	nr
		07/29/04	6:10 AM	2.1	7.40	22.0	n/a	84	< 2.0	1.0	580	nr	nr	1.05	0.12	1.93	< 0.04	69	0.03	0.16	nr	nr
		08/10/04	6:00 AM	1.3	7.60	22.1	n/a	71.8	< 2.0	2.0	390	nr	nr	0.16	0.14	4.44	< 0.04	63	0.07	0.13	nr	nr
		11/03/04	6:30 AM	1.3	7.40	19.1	9.20	84	< 2.0	< 0.5	400	nr	nr	0.92	0.10	2.63	< 0.04	212	0.01	0.06	nr	nr
		11/30/04	6:00 AM	1.5	7.60	15.5	10.8	100	2.1	8.5	340	nr	nr	7.21	4.68	0.94	< 0.04	3.09	1.83	2.17	nr	nr
		08/05/05	6:30 AM	1.3	7.30	24.7	8.20	70.9	< 2.0	1.0	330	nr	nr	1.80	0.15	2.70	< 0.04	20.3	0.14	0.23	nr	nr

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Study Area	Station ID	Date	Time	Flow (mgd)	pH (s.u.)	Temp. (°C)	DO (mg/L)	Alk. (mg/l)	CBOD <sub>5</sub> (mg/l)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH <sub>3</sub> -N (mg/l)	NO <sub>3</sub> -N (mg/l)	NO <sub>2</sub> -N (mg/l)	<u>Avail. Nitro.</u> <u>Avail. Phos.</u> (ratio)	D-OPO <sub>4</sub> (mg/l)	TP (mg/l)	Phyto-plankton Chl-a (mg/m <sup>3</sup> )	Avg. Peri-phyton Chl-a (mg/m <sup>2</sup> )
North Branch Raritan	Mendham Borough STP	07/16/04	10:20 AM	0.3	6.87	21.0	7.80	68	< 2.0	3.5	450	nr	nr	1.26	0.17	20.20	< 0.04	170	0.12	0.22	nr	nr
		07/28/04	11:30 AM	0.5	6.70	21.0	6.40	30	2.5	12.5	160	nr	nr	0.80	0.14	3.75	< 0.04	48.9	0.08	0.43	nr	nr
		08/09/04	Blank	n/a	nr	nr	nr	< 2	< 2.0	< 0.5	17	nr	nr	0.12	0.09	< 0.02	< 0.04	24	< 0.01	0.04	nr	nr
		08/10/04	11:25 AM	0.3	6.90	20.0	7.00	51.8	2.5	34.0	410	nr	nr	0.29	0.29	15.70	< 0.04	110	0.15	0.81	nr	nr
		11/03/04	7:00 AM	0.3	7.00	16.0	7.10	31	2.0	8.5	420	nr	nr	1.26	0.14	18.70	< 0.04	377	0.05	0.07	nr	nr
		11/30/04	2:00 PM	0.4	6.75	14.0	8.86	64	< 2.0	12.0	390	nr	nr	2.03	0.29	14.50	< 0.04	197	0.08	0.36	nr	nr
		08/05/05	11:49 AM	0.3	7.67	27.4	7.45	46.1	< 2.0	27.0	510	nr	nr	2.49	0.16	19.90	< 0.04	93.1	0.22	1.08	nr	nr

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Study Area	Station ID	Date	Time	Flow (mgd)	pH (s.u.)	Temp. (°C)	DO (mg/L)	Alk. (mg/l)	CBOD <sub>5</sub> (mg/l)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH <sub>3</sub> -N (mg/l)	NO <sub>3</sub> -N (mg/l)	NO <sub>2</sub> -N (mg/l)	Avail. Nitro. Avail. Phos. (ratio)	D-OPO <sub>4</sub> (mg/l)	TP (mg/l)	Phyto-plankton Chl-a (mg/m <sup>3</sup> )	Avg. Peri-phyton Chl-a (mg/m <sup>2</sup> )
North Branch Raritan	RLSA	07/15/04	Blank	nr	7.61	22.0	nr	< 2	< 2.0	< 0.5	55	nr	nr	0.10	< 0.05	0.03	< 0.04	2.5	0.03	0.03	nr	nr
		07/16/04	8:54 AM	0.6	n/a	n/a	n/a	110	< 2.0	3.0	420	nr	nr	1.37	0.08	11.60	< 0.04	3.19	3.67	3.96	nr	nr
		07/29/04	8:45 AM	1.0	7.34	21.9	8.47	98	2.5	2.5	380	nr	nr	1.27	0.20	10.40	< 0.04	5.5	1.93	2.25	nr	nr
		08/10/04	8:33 AM	0.7	7.47	22.6	n/a	100	< 2.0	2.5	710	nr	nr	0.20	0.15	30.20	< 0.04	6.39	4.75	4.30	nr	nr
		11/03/04	10:20 AM	0.7	7.20	18.8	8.35	82.3	< 2.0	5.0	710	nr	nr	1.58	0.17	31.60	< 0.04	5.93	5.36	5.78	nr	nr
		11/30/04	2:00 PM	1.5	7.41	15.9	n/a	110	< 2.0	2.0	420	nr	nr	1.12	0.10	8.93	< 0.04	4.53	2.00	2.02	nr	nr
		08/05/05	10:03 AM	0.6	7.25	25.9	n/a	86.6	< 2.0	3.0	610	nr	nr	1.94	0.12	32.10	< 0.04	8.58	3.75	3.61	nr	nr

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Study Area	Station ID	Date	Time	Flow (mgd)	pH (s.u.)	Temp. (°C)	DO (mg/L)	Alk. (mg/l)	CBOD <sub>5</sub> (mg/l)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH <sub>3</sub> -N (mg/l)	NO <sub>3</sub> -N (mg/l)	NO <sub>2</sub> -N (mg/l)	<u>Avail. Nitro.</u> <u>Avail. Phos.</u> (ratio)	D-OPO <sub>4</sub> (mg/l)	TP (mg/l)	Phyto-plankton Chl-a (mg/m <sup>3</sup> )	Avg. Peri-phyton Chl-a (mg/m <sup>2</sup> )
North Branch Raritan	Roxbury Township STP	07/15/04	Blank	nr	nr	nr	nr	< 2	< 2.0	< 0.5	65	nr	nr	0.29	< 0.05	< 0.02	< 0.04	11	< 0.01	< 0.02	nr	nr
		07/16/04	7:21 AM	1.6	6.89	19.0	n/a	31	< 2.0	3.5	390	nr	nr	0.93	0.15	15.10	< 0.04	117	0.13	0.28	nr	nr
		07/29/04	10:32 AM	1.6	7.13	20.0	8.71	57	< 2.0	6.5	440	nr	nr	0.98	0.19	10.20	< 0.04	49.7	0.21	0.51	nr	nr
		08/10/04	10:58 AM	1.5	7.11	20.0	n/a	62.3	< 2.0	3.5	450	nr	nr	0.89	0.27	11.00	< 0.04	58.1	0.20	0.41	nr	nr
		11/02/04	10:50 AM	1.4	6.87	15.0	9.25	53.2	< 2.0	3.0	420	nr	nr	1.34	0.19	13.40	< 0.04	89	0.15	0.43	nr	nr
		11/30/04	10:45 AM	2.2	6.99	13.0	n/a	66.7	< 2.0	8.0	410	nr	nr	1.80	0.32	11.80	< 0.04	32	0.38	0.70	nr	nr
		08/05/05	7:05 AM	1.4	n/a	n/a	n/a	98	< 2.0	1.0	510	nr	nr	2.40	0.30	14.00	< 0.04	7.09	2.02	2.33	nr	nr

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Study Area	Station ID	Date	Time	Flow (mgd)	pH (s.u.)	Temp. (°C)	DO (mg/L)	Alk. (mg/l)	CBOD <sub>5</sub> (mg/l)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH <sub>3</sub> -N (mg/l)	NO <sub>3</sub> -N (mg/l)	NO <sub>2</sub> -N (mg/l)	<u>Avail. Nitro.</u> <u>Avail. Phos.</u> (ratio)	D-OPO <sub>4</sub> (mg/l)	TP (mg/l)	Phyto-plankton Chl-a (mg/m <sup>3</sup> )	Avg. Peri-phyton Chl-a (mg/m <sup>2</sup> )
South Branch Raritan	Bernardsville STP	07/14/04	10:40 AM	0.7	7.10	17.0	7.20	37	< 2.0	< 0.5	260	nr	nr	0.33	0.11	0.83	< 0.04	96	0.01	0.04	nr	nr
		07/29/04	9:00 AM	0.9	7.10	19.0	7.30	29	< 2.0	2.0	240	nr	nr	0.42	0.15	1.17	< 0.04	134	0.01	0.05	nr	nr
		08/09/04	3:00 PM	0.6	7.10	20.0	7.30	18	< 2.0	1.0	240	nr	nr	1.20	0.21	1.12	< 0.04	56.3	0.02	0.07	nr	nr
		11/02/04	1:00 PM	0.6	7.10	14.0	7.30	23.2	< 2.0	0.5	240	nr	nr	1.22	0.64	1.75	< 0.04	483	< 0.01	0.07	nr	nr
		11/30/04	12:27 PM	0.8	7.10	14.0	7.30	36.9	< 2.0	3.0	350	nr	nr	2.96	1.39	3.27	< 0.04	83.5	0.06	0.12	nr	nr
		08/05/05	9:56 AM	0.6	7.11	24.7	7.93	51.7	< 2.0	< 0.5	250	nr	nr	8.48	3.28	3.30	< 0.04	141	0.05	0.09	nr	nr

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Study Area	Station ID	Date	Time	Flow (mgd)	pH (s.u.)	Temp. (°C)	DO (mg/L)	Alk. (mg/l)	CBOD <sub>5</sub> (mg/l)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH <sub>3</sub> -N (mg/l)	NO <sub>3</sub> -N (mg/l)	NO <sub>2</sub> -N (mg/l)	<u>Avail. Nitro.</u> <u>Avail. Phos.</u> (ratio)	D-OPO <sub>4</sub> (mg/l)	TP (mg/l)	Phyto-plankton Chl-a (mg/m <sup>3</sup> )	Avg. Peri-phyton Chl-a (mg/m <sup>2</sup> )
South Branch Raritan Flemington Borough STP		07/28/04	8:30 AM	1.2	6.60	21.0	n/a	130	30.0	12.0	410	nr	nr	6.81	2.74	2.28	< 0.04	19.4	0.26	0.91	nr	nr
		12/02/04	10:00 AM	1.2	6.60	17.0	6.50	95.8	8.0	11.0	340	nr	nr	4.28	1.13	1.95	< 0.04	51.7	0.06	0.38	nr	nr

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Study Area	Station ID	Date	Time	Flow (mgd)	pH (s.u.)	Temp. (°C)	DO (mg/L)	Alk. (mg/l)	CBOD <sub>5</sub> (mg/l)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH <sub>3</sub> -N (mg/l)	NO <sub>3</sub> -N (mg/l)	NO <sub>2</sub> -N (mg/l)	Avail. Nitro. Avail. Phos. (ratio)	D-OPO <sub>4</sub> (mg/l)	TP (mg/l)	Phyto-plankton Chl-a (mg/m <sup>3</sup> )	Avg. Peri-phyton Chl-a (mg/m <sup>2</sup> )
South Branch Raritan	Mt. Olive Township - Clover Hill STP	07/15/04	Blank	nr	nr	nr	nr	4.88	2.2	< 0.5	90	nr	nr	0.71	0.61	< 0.02	< 0.04	128	< 0.01	< 0.02	nr	nr
		07/16/04	9:00 AM	0.3	6.75	20.2	n/a	26	< 2.0	13.0	350	nr	nr	8.87	6.30	15.20	< 0.04	2,150	0.01	0.44	nr	nr
		07/29/04	9:00 AM	0.3	6.88	20.2	n/a	33	< 2.0	2.5	340	nr	nr	5.05	4.36	12.20	< 0.04	831	0.02	0.15	nr	nr
		08/10/04	11:00 AM	0.4	6.55	20.4	6.40	< 2	< 2.0	11.5	360	nr	nr	2.29	0.74	15.20	< 0.04	1450	0.01	0.26	nr	nr
		11/03/04	12:00 PM	0.3	6.96	16.9	6.41	58	4.1	7.0	330	nr	nr	8.85	8.62	10.60	< 0.04	1,370	0.01	0.29	nr	nr
		11/30/04	12:00 PM	0.6	6.78	13.9	6.29	38.7	< 2.0	12.5	310	nr	nr	8.53	5.98	9.78	< 0.04	343	0.05	0.36	nr	nr
		08/05/05	9:00 AM	0.3	n/a	n/a	n/a	25.8	< 2.0	8.5	370	nr	nr	8.38	4.04	16.10	< 0.04	4,040	< 0.01	0.31	nr	nr

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South Branch Raritan	NJDC Youth Correctional - Mountain View STP	07/14/04	Blank	nr	nr	nr	nr	17.4	< 2.0	< 0.7	37	nr	nr	0.09	< 0.05	0.07	< 0.04	5.61	0.02	0.04	nr	nr
		07/16/04	11:30 AM	0.2	7.35	21.4	n/a	110	< 2.0	1.0	350	nr	nr	0.47	0.05	3.09	< 0.04	105	0.03	0.06	nr	nr
		07/29/04	11:45 AM	0.2	7.30	22.3	10.0	120	2.6	0.5	380	nr	nr	0.40	0.08	3.30	< 0.04	170	0.02	0.06	nr	nr
		08/10/04	12:00 PM	0.2	7.28	22.5	n/a	130	2.7	0.5	410	nr	nr	0.15	0.14	2.85	< 0.04	177	0.02	0.08	nr	nr
		11/03/04	2:00 PM	0.2	7.51	18.8	n/a	64.9	4.3	< 0.5	410	nr	nr	0.52	0.08	13.80	< 0.04	634	0.02	0.04	nr	nr
		11/30/04	12:00 PM	0.2	7.16	15.8	n/a	40.5	< 2.0	0.5	430	nr	nr	0.62	0.11	16.40	< 0.04	690	0.02	0.03	nr	nr
		08/05/05	11:45 AM	0.2	7.40	25.6	10.0	120	3.0	< 0.5	370	nr	nr	2.13	0.08	0.89	< 0.04	26.4	0.04	0.11	nr	nr

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South Branch Raritan	Raritan Township MUA	07/15/04	Blank	nr	7.00	22.0	nr	3.35	< 2.0	< 0.5	33	nr	nr	< 0.05	< 0.05	< 0.02	< 0.04	1.06	0.05	0.11	nr	nr
		07/16/04	7:35 AM	3.5	n/a	n/a	n/a	99	< 2.0	1.5	430	nr	nr	0.95	0.09	8.31	< 0.04	11.4	0.74	0.86	nr	nr
		07/29/04	7:30 AM	4.0	6.90	22.0	n/a	90	2.2	1.0	370	nr	nr	0.66	0.13	6.71	< 0.04	12	0.57	0.61	nr	nr
		08/10/04	1:30 PM	2.7	7.00	23.0	8.94	87.7	2.3	7.5	540	nr	nr	1.37	0.26	15.10	< 0.04	15.6	0.98	1.25	nr	nr
		11/03/04	7:30 AM	3.0	7.00	19.0	n/a	91.9	< 2.0	< 0.5	550	nr	nr	1.07	0.11	14.30	< 0.04	7.58	1.91	1.93	nr	nr
		11/30/04	7:30 AM	4.7	6.95	17.0	n/a	90.9	2.5	11.0	370	nr	nr	1.94	0.18	7.27	< 0.04	12.6	0.59	0.78	nr	nr
		08/05/05	7:30 AM	2.1	n/a	n/a	n/a	63.1	< 2.0	2.5	470	nr	nr	2.55	0.21	14.30	< 0.04	386	0.04	0.15	nr	nr

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Study Area	Station ID	Date	Time	Flow (mgd)	pH (s.u.)	Temp. (°C)	DO (mg/L)	Alk. (mg/l)	CBOD <sub>5</sub> (mg/l)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH <sub>3</sub> -N (mg/l)	NO <sub>3</sub> -N (mg/l)	NO <sub>2</sub> -N (mg/l)	Avail. Nitro. Avail. Phos. (ratio)	D-OPO <sub>4</sub> (mg/l)	TP (mg/l)	Phyto-plankton Chl-a (mg/m <sup>3</sup> )	Avg. Peri-phyton Chl-a (mg/m <sup>2</sup> )
South Branch Raritan	Town of Clinton WTP	07/15/04	Blank	nr	7.22	22.4	nr	< 2	< 2.0	0.5	79	nr	nr	< 0.05	< 0.05	< 0.02	< 0.04	11	< 0.01	< 0.02	nr	nr
		07/16/04	8:15 AM	1.2	n/a	n/a	n/a	120	< 2.0	< 0.5	480	nr	nr	0.87	0.08	7.33	< 0.04	124	0.06	0.11	nr	nr
		07/29/04	7:30 AM	1.4	7.02	22.2	n/a	110	< 2.0	4.0	420	nr	nr	0.70	0.11	5.52	< 0.04	188	0.03	0.15	nr	nr
		08/10/04	8:25 AM	1.1	7.24	23.9	n/a	130	< 2.0	0.5	530	nr	nr	0.21	0.15	7.45	< 0.04	104	0.07	0.14	nr	nr
		11/03/04	7:30 AM	1.1	7.38	19.7	n/a	140	< 2.0	< 0.5	540	nr	nr	1.19	0.09	8.15	< 0.04	275	0.03	0.09	nr	nr
		11/30/04	10:00 AM	1.3	7.17	16.5	n/a	120	< 2.0	2.0	400	nr	nr	0.81	0.13	5.79	< 0.04	106	0.06	0.10	nr	nr
		08/05/05	8:10 AM	1.1	7.10	26.0	n/a	110	< 2.0	2.5	450	nr	nr	1.62	0.14	10.40	< 0.04	13	0.81	0.98	nr	nr

**STP Sampling Results**

**NOTES:**

	= High-Flow Event
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Flow:  
Provided by STP

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Study Area	Station ID	Date	Time	Flow (mgd)	pH (s.u.)	Temp. (°C)	DO (mg/L)	Alk. (mg/l)	CBOD <sub>5</sub> (mg/l)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH <sub>3</sub> -N (mg/l)	NO <sub>3</sub> -N (mg/l)	NO <sub>2</sub> -N (mg/l)	Avail. Nitro. Avail. Phos. (ratio)	D-OPO <sub>4</sub> (mg/l)	TP (mg/l)	Phyto-plankton Chl-a (mg/m <sup>3</sup> )	Avg. Peri-phyton Chl-a (mg/m <sup>2</sup> )
South Branch Raritan	WMUJA	11/10/04	8:00 AM	5.1	7.60	15.3	n/a	61.9	2.7	7.0	390	nr	nr	0.88	0.20	21.60	< 0.04	28.7	0.76	1.06	nr	nr
		11/12/04	12:00 PM	5.6	7.16	12.0	n/a	45.5	4.8	3.0	450	nr	nr	1.05	0.15	23.40	< 0.04	29.1	0.81	0.90	nr	nr

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Study Area	Station ID	Date	Time	Flow (mgd)	pH (s.u.)	Temp. (°C)	DO (mg/L)	Alk. (mg/l)	CBOD <sub>5</sub> (mg/l)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH <sub>3</sub> -N (mg/l)	NO <sub>3</sub> -N (mg/l)	NO <sub>2</sub> -N (mg/l)	<u>Avail. Nitro.</u> <u>Avail. Phos.</u> (ratio)	D-OPO <sub>4</sub> (mg/l)	TP (mg/l)	Phyto-plankton Chl-a (mg/m <sup>3</sup> )	Avg. Peri-phyton Chl-a (mg/m <sup>2</sup> )
Upper Millstone	East Winsor Township MUA	07/09/04	8:00 AM	2.7	7.54	23.0	n/a	120	< 2.0	0.5	320	nr	nr	0.75	0.10	7.54	< 0.04	40.7	0.19	0.33	nr	nr
		07/13/04	8:00 AM	3.0	7.18	21.8	n/a	84.6	< 2.0	< 0.5	320	nr	nr	0.59	0.11	8.21	< 0.04	24.2	0.34	0.45	nr	nr
		07/13/04	Blank	nr	nr	nr	nr	< 2	< 2.0	< 0.5	52	nr	nr	< 0.05	< 0.05	< 0.02	< 0.04	11	< 0.01	< 0.02	nr	nr
		08/17/04	7:55 AM	2.8	7.28	22.4	n/a	96.5	< 2.0	2.0	300	nr	nr	0.65	0.15	6.62	< 0.04	78.9	0.09	0.14	nr	nr
		09/08/04	8:00 AM	2.7	7.39	23.0	7.80	92.4	< 2.0	1.0	330	nr	nr	0.75	0.17	9.14	< 0.04	35.1	0.27	0.28	nr	nr
		11/11/04	8:00 AM	2.7	7.20	16.4	n/a	61.8	< 2.0	< 0.5	320	nr	nr	0.69	0.15	15.90	< 0.04	3,200	< 0.01	0.05	nr	nr
		11/12/04	2:05 PM	2.9	7.17	16.4	8.70	65.6	< 2.0	1.0	330	nr	nr	0.58	0.11	15.70	< 0.04	1440	0.01	0.06	nr	nr

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Study Area	Station ID	Date	Time	Flow (mgd)	pH (s.u.)	Temp. (°C)	DO (mg/L)	Alk. (mg/l)	CBOD <sub>5</sub> (mg/l)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH <sub>3</sub> -N (mg/l)	NO <sub>3</sub> -N (mg/l)	NO <sub>2</sub> -N (mg/l)	Avail. Nitro. Avail. Phos. (ratio)	D-OPO <sub>4</sub> (mg/l)	TP (mg/l)	Phyto-plankton Chl-a (mg/m <sup>3</sup> )	Avg. Peri-phyton Chl-a (mg/m <sup>2</sup> )
Upper Millstone	Hightstown Advanced WTP	07/06/04	Blank	nr	nr	nr	nr	< 2	< 2.0	< 0.5	55	nr	nr	< 0.05	< 0.05	< 0.02	< 0.04	4.23	0.01	0.03	nr	nr
		07/09/04	2:54 PM	0.7	7.35	24.2	n/a	56.4	< 2.0	0.5	360	nr	nr	0.78	0.12	15.30	< 0.04	103	0.15	0.21	nr	nr
		07/14/04	9:10 AM	1.0	6.96	22.8	n/a	58	< 2.0	0.5	380	nr	nr	1.68	0.91	17.00	0.70	116	0.16	0.22	nr	nr
		08/17/04	9:15 AM	0.7	6.89	23.4	n/a	62	< 2.0	2.0	350	nr	nr	0.91	0.32	15.50	< 0.04	75.6	0.21	0.29	nr	nr
		09/08/04	11:30 AM	0.8	6.84	24.4	n/a	58.3	< 2.0	4.0	330	nr	nr	0.91	0.18	13.10	< 0.04	60.1	0.22	0.25	nr	nr
		11/10/04	9:15 AM	0.7	7.26	15.8	n/a	55	< 2.0	1.5	310	nr	nr	0.73	0.15	14.90	< 0.04	176	0.09	0.15	nr	nr
		11/12/04	10:00 AM	0.9	7.13	16.3	9.63	34.7	< 2.0	0.5	320	nr	nr	0.77	0.32	17.20	< 0.04	107	0.16	0.21	nr	nr

**STP Sampling Results**

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Study Area	Station ID	Date	Time	Flow (mgd)	pH (s.u.)	Temp. (°C)	DO (mg/L)	Alk. (mg/l)	CBOD <sub>5</sub> (mg/l)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH <sub>3</sub> -N (mg/l)	NO <sub>3</sub> -N (mg/l)	NO <sub>2</sub> -N (mg/l)	<u>Avail. Nitro.</u> <u>Avail. Phos.</u> (ratio)	D-OPO <sub>4</sub> (mg/l)	TP (mg/l)	Phyto-plankton Chl-a (mg/m <sup>3</sup> )	Avg. Peri-phyton Chl-a (mg/m <sup>2</sup> )
Upper Millstone	UWPM	07/06/04	Blank	nr	nr	nr	nr	< 2	< 2.0	< 0.5	180	nr	nr	< 0.05	< 0.05	0.04	< 0.04	6.54	0.01	0.03	nr	nr
		07/09/04	9:50 AM	1.3	7.30	24.0	7.48	96.4	< 2.0	8.0	330	nr	nr	20.50	18.80	0.35	< 0.04	64.8	0.30	0.51	nr	nr
		07/14/04	9:00 AM	1.4	7.40	22.0	n/a	100	5.5	13.0	260	nr	nr	21.00	19.10	0.20	< 0.04	66.6	0.29	0.49	nr	nr
		08/17/04	8:45 AM	1.4	7.30	23.0	n/a	100	< 2.0	3.5	320	nr	nr	21.10	20.00	0.58	< 0.04	156	0.13	0.20	nr	nr
		09/08/04	8:45 AM	1.4	7.40	24.0	8.49	120	2.2	< 0.5	350	nr	nr	29.80	26.30	0.73	< 0.04	251	0.11	0.30	nr	nr
		11/11/04	8:30 AM	1.3	n/a	n/a	n/a	56.2	< 2.0	6.0	330	nr	nr	8.66	7.52	7.83	< 0.04	366	0.04	0.28	nr	nr
		11/12/04	8:45 AM	1.4	7.30	14.0	n/a	53.3	< 2.0	2.5	340	nr	nr	8.58	7.36	8.69	< 0.04	374	0.04	0.37	nr	nr