Table 2. Definition of Existing Water Quality in the Delaware River Between the Delaware Water Gap and the Head of Tide at Trenton, New Jersey, Including the Lower Delaware National Wild and Scenic River*

* Note on the Derivation of Values Used to Define Existing Water Quality. The definitions of Existing Water Quality set forth in Table 2 were developed through field measurements and laboratory analysis of data collected over a time period determined by the Commission to adequately reflect the natural range of the hydraulic and climatologic factors which affect water quality. Existing water quality in Table 2 is defined in terms of (a) a median of water quality data; and (b) the two-tailed upper and lower 95 percent confidence limits around the median.

TABLE 2A. INDEX to Lower Delaware River CONTROL POINTS, by River Mile Location

EWQ Table	Tributary or Delaware River Site	Latitude	Longitude	River Mile
Table 2C	**Portland ICP**	40.784722	-75.184722	**207.50**
	Jacoby Creek (PA)			207.48
Table 2D	**Paulins Kill (NJ)**	40.920833	-75.088333	**207.16-0.07**
	Delawanna Creek (NJ)			205.20
	Allegheny Creek (PA)			199.76
Table 2E	**Belvidere ICP**	40.828889	-75.085000	**197.84**
Table 2F	**Pequest River (NJ)**	40.834167	-75.061111	**197.80-1.48**
	Pophandusing Brook (NJ)			197.66
	Oughoughton Creek (PA)			194.32
	Buckhorn Creek (NJ)			192.90
Table 2G	**Martins Creek (PA)**	40.784722	-75.184722	**190.65-0.96**
	Mud Run (PA)			189.10
Table 2H	**Bushkill Creek (PA)**	40.695278	-75.206111	**184.10-0.05**
Table 2I	**Easton ICP**	40.691111	-75.204167	**183.82**
Table 2J	**Lehigh River (PA)**	40.691111	-75.204722	**183.66-0.27**
	Lopatcong Creek (NJ)			182.00
Table 2K	**Pohatcong Creek (NJ)**	40.624722	-75.186111	**177.36-0.35**
	Fry's Run (PA)			176.60
Table 2L	**Riegelsville ICP**	40.593889	-75.191111	**174.80**
Table 2M	**Musconetcong River (NJ)**	40.592500	-75.186667	**174.60-0.15**
Table 2N	**Cooks Creek (PA)**	40.586667	-75.211944	**173.70-1.06**
	Gallows Run (PA)			171.80
Table 2O	**Milford ICP**	40.566389	-75.098889	**167.70**
	Hakihokake Creek (NJ)			167.20
	Harihokake Creek (NJ)			165.70
Table 2P	**Nishisakawick Creek (NJ)**	40.526389	-75.060278	**164.10-0.35**
	Little Nishisakawick Creek (NJ)			164.00
	Copper Creek (NJ)			162.90
Table 2Q	**Tinicum Creek (PA)**	40.485278	-75.072500	**161.60-0.24**
	Warford Creek (NJ)			160.50
	Smithtown Creek (PA)			159.90
	Warsaw Creek (NJ)			159.50
Table 2R	**Tohickon Creek (PA)**	40.423056	-75.066667	**157.00-0.19**
	Hickory Creek (PA)			156.98
Table 2S	**Paunacussing Creek (PA)**	40.407500	-75.041667	**155.90-0.12**
Table 2T	**Bulls Island ICP**	40.407500	-75.037778	**155.40**
	Cuttalossa Creek (PA)			154.50
Table 2U	**Lockatong Creek (NJ)**	40.415833	-75.018056	**154.00-0.75**
Table 2V	**Wickecheoke Creek (NJ)**	40.411667	-74.986944	**152.51-0.21**
	Primrose Creek (PA)			150.50

EWQ Table	Tributary or Delaware River Site	Latitude	Longitude	River Mile
	Alexauken Creek (NJ)			149.50
	Rabbit Run (PA)			149.45
Table 2W	**Lambertville ICP**	40.365833	-74.949167	**148.70**
	Swan Creek (NJ)			148.60
	Aquetong Creek (PA)			148.50
	Dark Hollow Run (PA)			148.20
Table 2X	**Pidcock Creek (PA)**	40.32907	-74.94566	**146.30-0.90**
	Moore Creek (NJ)			145.20
	Jericho Creek (PA)			144.20
	Fiddlers Creek (NJ)			143.20
Table 2Y	**Washington Crossing ICP**	40.295278	-74.868889	**141.80**
	Houghs Creek (PA)			140.60
	Jacobs Creek (NJ)			140.46
	Dyers Creek (PA)			139.80
	Reeds Run (NJ)			138.50
	Buck Creek (PA)			138.00
	Gold Run (NJ)			137.25
Table 2Z	**Trenton ICP**	40.219722	-74.778333	**134.34**

TABLE 2B. Alphabetical INDEX to Lower Delaware River CONTROL POINTS

EWQ Table	Tributary or Delaware River Site	Latitude	Longitude	River Mile
	Alexauken Creek (NJ)			149.50
	Allegheny Creek (PA)			199.76
	Aquetong Creek (PA)			148.50
Table 2E	**Belvidere ICP**	40.828889	-75.085000	**197.84**
	Buck Creek (PA)			138.00
	Buckhorn Creek (NJ)			192.90
Table 2T	**Bulls Island ICP**	40.407500	-75.037778	**155.40**
Table 2H	**Bushkill Creek (PA)**	40.695278	-75.206111	**184.10-0.05**
Table 2N	**Cooks Creek (PA)**	40.586667	-75.211944	**173.70-1.06**
	Copper Creek (NJ)			162.90
	Cuttalossa Creek (PA)			154.50
	Dark Hollow Run (PA)			148.20
	Delawanna Creek (NJ)			205.20
	Dyers Creek (PA)			139.80
Table 2I	**Easton ICP**	40.691111	-75.204167	**183.82**
	Fiddlers Creek (NJ)			143.20
	Fry's Run (PA)			176.60
	Gallows Run (PA)			171.80
	Gold Run (NJ)			137.25
	Hakihokake Creek (NJ)			167.20
	Harihokake Creek (NJ)			165.70
	Hickory Creek (PA)			156.98
	Houghs Creek (PA)			140.60
	Jacobs Creek (NJ)			140.46
	Jacoby Creek (PA)			207.48
	Jericho Creek (PA)			144.20
Table 2W	**Lambertville ICP**	40.365833	-74.949167	**148.70**
Table 2J	**Lehigh River (PA)**	40.691111	-75.204722	**183.66-0.27**
	Little Nishisakawick Creek (NJ)			164.00
Table 2U	**Lockatong Creek (NJ)**	40.415833	-75.018056	**154.00-0.75**
	Lopatcong Creek (NJ)			182.00
Table 2G	**Martins Creek (PA)**	40.784722	-75.184722	**190.65-0.96**
Table 2O	**Milford ICP**	40.566389	-75.098889	**167.70**
	Moore Creek (NJ)			145.20
	Mud Run (PA)			189.10
Table 2M	**Musconetcong River (NJ)**	40.592500	-75.186667	**174.60-0.15**
Table 2P	**Nishisakawick Creek (NJ)**	40.526389	-75.060278	**164.10-0.35**
	Oughoughton Creek (PA)			194.32
Table 2D	**Paulins Kill (NJ)**	40.920833	-75.088333	**207.16-0.07**
Table 2S	**Paunacussing Creek (PA)**	40.407500	-75.041667	**155.90-0.12**
Table 2F	**Pequest River (NJ)**	40.834167	-75.061111	**197.80-1.48**

EWQ Table	Tributary or Delaware River Site	Latitude	Longitude	River Mile
Table 2X	**Pidcock Creek (PA)**	40.32907	-74.94566	**146.30-0.90**
Table 2K	**Pohatcong Creek (NJ)**	40.624722	-75.186111	**177.36-0.35**
	Pophandusing Brook (NJ)			197.66
Table 2C	**Portland ICP**	40.784722	-75.184722	**207.50**
	Primrose Creek (PA)			150.50
	Rabbit Run (PA)			149.45
	Reeds Run (NJ)			138.50
Table 2L	**Riegelsville ICP**	40.593889	-75.191111	**174.80**
	Smithtown Creek (PA)			159.90
	Swan Creek (NJ)			148.60
Table 2Q	**Tinicum Creek (PA)**	40.485278	-75.072500	**161.60-0.24**
Table 2R	**Tohickon Creek (PA)**	40.423056	-75.066667	**157.00-0.19**
Table 2Z	**Trenton ICP**	40.219722	-74.778333	**134.34**
	Warford Creek (NJ)			160.50
	Warsaw Creek (NJ)			159.50
Table 2Y	**Washington Crossing ICP**	40.295278	-74.868889	**141.80**
Table 2V	**Wickecheoke Creek (NJ)**	40.411667	-74.986944	**152.51-0.21**

Table 2C. Definition of Existing Water Quality: Portland ICP

Delaware River at Portland-Columbia Pedestrian Bridge, Pennsylvania/New Jersey, River Mile 207.50

Parameter (Y)	**Definition of Existing Water Quality**			
	Median	**Lower 95%CI**	**Upper 95%CI**	**Flow-Relationships** Site specific regression equation.
Ammonia NH3-N (mg/l) *	<0.05	<0.05	0.05	
Chloride (mg/l)	12	11	13	Y = -0.00019515 Q + 13.325
Chlorophyll a (mg/m^3)	2.13	1.30	2.70	
Dissolved Oxygen (mg/l) mid-day*	8.70	8.38	9.06	
Dissolved Oxygen Saturation (%)	97%	95%	99%	
E. coli (colonies/100 ml)	15	8	25	Y = antilog (0.00007074 Q + 0.6659)
Enterococcus (colonies/100 ml)	20	12	60	
Fecal coliform (colonies/100 ml) *	20	12	36	Y = antilog (0.00006854 Q + 0.955)
Nitrate NO3-N (mg/l) *	0.60	0.46	0.73	
Orthophosphate (mg/l)	0.01	0.005	0.01	
pH *	7.40	7.29	7.58	
Specific Conductance (umhos/cm)	97	88	104	Y = -0.00151181 Q + 106.6
Total Dissolved Solids (mg/l)	82	70	86	
Total Kjeldahl Nitrogen (mg/l)	0.25	0.11	0.33	
Total Nitrogen (mg/l) *	0.86	0.74	1.05	
Total Phosphorus (mg/l) *	0.04	0.03	0.05	
Total Suspended Solids (mg/l) *	3.0	2.0	4.0	Y = 0.00122363 Q - 2.8618
Turbidity (NTU)	1.6	1.1	2.8	Y = antilog (0.00005157 Q – 0.1356)
Alkalinity (mg/l)	20	16	22	Y = -0.00046984 Q + 23.547
Hardness (mg/l)	30	28	30	

EWQ values represent data collected twice per month from May through September 2000-2004.
Upper and Lower 95% Confidence Limits are the corresponding confidence limits of the median for each parameter.
* = Dischargers may be required to evaluate this parameter for permit limits necessary to meet EWQ.
Implementation guidance should be consulted for discharge evaluations.
** = EWQ exceeds DRBC or state water quality criteria. Discharge evaluations should be conducted at criterion concentration.

Table 2D. Definition of Existing Water Quality: Paulins Kill BCP

Paulins Kill, New Jersey, River Mile 207.16 – 0.07
Boundary Control Point is located at Route 46 bridge.

Parameter (Y)	**Definition of Existing Water Quality**			
	Median	**Lower 95%CI**	**Upper 95%CI**	**Flow-Relationships** Site specific regression equation.
Ammonia NH3-N (mg/l) *	0.06	<0.05	0.08	
Chloride (mg/l)	41.9	36	48	Y = -17.4858 (log Q) + 79.5946
Chlorophyll a (mg/m^3)	3.3	2.7	5.3	
Dissolved Oxygen (mg/l) mid-day *	7.95	7.31	8.39	
Dissolved Oxygen Saturation (%)	88%	83%	91%	
E. coli (colonies/100 ml)	75	40	140	Y = antilog (0.7993 (log Q) + 0.157)
Enterococcus (colonies/100 ml)	120	84	180	
Fecal coliform (colonies/100 ml) *	110	84	190	Y = antilog (0.967 (log Q) – 0.0255)
Nitrate NO3-N (mg/l) *	0.75	0.70	0.82	0.75
Orthophosphate (mg/l)	0.02	0.01	0.02	0.02
pH *	7.79	7.70	7.87	7.79
Specific Conductance (umhos/cm)	416	380	453	Y = -141.2449 (log Q) + 715.5098
Total Dissolved Solids (mg/l)	274	250	290	Y = -75.186 (log Q) + 426.1389
Total Kjeldahl Nitrogen (mg/l)	0.39	0.28	0.53	0.39
Total Nitrogen (mg/l) *	1.13	0.98	1.28	1.13
Total Phosphorus (mg/l) *	0.05	0.05	0.06	0.05
Total Suspended Solids (mg/l) *	7.0	4.5	8.0	7.0
Turbidity (NTU)	4.0	3.0	4.8	Y = antilog (0.4057 (log Q) – 0.269)
Alkalinity (mg/l)	125	110	140	Y = -49.5 (log Q) + 229.2
Hardness (mg/l)	156	140	175	Y = -56.8657 (log Q) + 280.7477

EWQ values represent data collected twice per month from May through September 2000-2004.
Upper and Lower 95% Confidence Limits are the corresponding confidence limits of the median for each parameter.
* = Dischargers may be required to evaluate this parameter for permit limits necessary to meet EWQ.
Implementation guidance should be consulted for discharge evaluations.
** = EWQ exceeds DRBC or state water quality criteria. Discharge evaluations should be conducted at criterion concentration

Table 2E. Definition of Existing Water Quality: Belvidere ICP

Delaware River at Belvidere-Riverton Bridge, NJ/PA, River Mile 197.84

Parameter (Y)	**Definition of Existing Water Quality**			
	Median	**Lower 95%CI**	**Upper 95%CI**	**Flow-Relationships** Site specific regression equation.
Ammonia NH3-N (mg/l) *	<0.05	<0.05	0.05	
Chloride (mg/l)	14	12	15	Y = -0.00020113 Q + 14.872
Chlorophyll a (mg/m^3)	1.9	1.3	2.7	
Dissolved Oxygen (mg/l) mid-day*	8.52	8.00	8.95	
Dissolved Oxygen Saturation (%)	94%	92%	96%	
E. coli (colonies/100 ml)	20	5	30	Y = antilog (0.00005716 Q + 0.8244)
Enterococcus (colonies/100 ml)	50	35	68	
Fecal coliform (colonies/100 ml) *	30	20	50	Y = antilog (0.00006282 Q + 1.0055)
Nitrate NO3-N (mg/l) *	0.54	0.47	0.73	
Orthophosphate (mg/l)	0.01	0.01	0.01	
pH *	7.49	7.25	7.60	
Specific Conductance (umhos/cm)	111.5	105.0	125.0	Y = -0.00185194 Q + 125.8
Total Dissolved Solids (mg/l)	96	83	100	
Total Kjeldahl Nitrogen (mg/l)	0.3	0.19	0.35	
Total Nitrogen (mg/l) *	0.89	0.82	1.11	
Total Phosphorus (mg/l) *	0.04	0.03	0.05	
Total Suspended Solids (mg/l) *	3.0	2.0	4.0	Y = 0.00120841 Q – 3.003
Turbidity (NTU)	1.7	1.2	2.5	Y = antilog (0.00003844 Q + 0.0483)
Alkalinity (mg/l)	26	24	28	Y = -0.00046346 Q + 29.199
Hardness (mg/l)	35	33	36	

EWQ values represent data collected twice per month from May through September 2000-2004.
Upper and Lower 95% Confidence Limits are the corresponding confidence limits of the median for each parameter.
* = Dischargers may be required to evaluate this parameter for permit limits necessary to meet EWQ.
Implementation guidance should be consulted for discharge evaluations.
** = EWQ exceeds DRBC or state water quality criteria. Discharge evaluations should be conducted at criterion concentration.

Table 2F. Definition of Existing Water Quality: Pequest River BCP

Pequest River, New Jersey, River Mile 197.80 – 1.48
Boundary Control Point is located at Orchard Street Bridge, Belvidere

Parameter (Y)	**Definition of Existing Water Quality**			
	Median	**Lower 95%CI**	**Upper 95%CI**	**Flow-Relationships** Site specific regression equation.
Ammonia NH3-N (mg/l) *	<0.05	<0.05	0.05	
Chloride (mg/l)	35.9	34.0	38.0	Y = -12.7769 (log Q) + 62.875
Chlorophyll a (mg/m^3)	2.14	1.30	2.70	
Dissolved Oxygen (mg/l) mid-day *	9.89	9.37	10.37	
Dissolved Oxygen Saturation (%)	103%	99%	107%	
E. coli (colonies/100 ml)	130	110	160	Y = antilog (0.6728 (log Q) + 0.7112)
Enterococcus (colonies/100 ml)	250	140	460	
Fecal coliform (colonies/100 ml) *	180	150	230	
Nitrate NO3-N (mg/l) *	1.29	1.13	1.45	
Orthophosphate (mg/l)	0.05	0.05	0.07	
pH *	8.20	8.10	8.30	
Specific Conductance (umhos/cm)	491	472	511	Y = -0.18929204 Q + 517.8326
Total Dissolved Solids (mg/l)	325	310	330	Y = -75.8279 (log Q) + 479.4783
Total Kjeldahl Nitrogen (mg/l)	0.47	0.32	0.55	
Total Nitrogen (mg/l) *	1.69	1.54	2.00	
Total Phosphorus (mg/l) *	0.10	0.08	0.11 **	
Total Suspended Solids (mg/l) *	6.0	3.5	10.0	
Turbidity (NTU)	3.4	2.1	5.8	Y = antilog (1.0964 (log Q) - 1.87)
Alkalinity (mg/l)	190	180	200	Y = -64.33 (log Q) + 319.85
Hardness (mg/l)	228	220	230	Y = -50.0952 (log Q) + 329.8323

EWQ values represent data collected twice per month from May through September 2000-2004.
Upper and Lower 95% Confidence Limits are the corresponding confidence limits of the median for each parameter.
* = Dischargers may be required to evaluate this parameter for permit limits necessary to meet EWQ.
Implementation guidance should be consulted for discharge evaluations.
** = EWQ exceeds DRBC or state water quality criteria. Discharge evaluations should be conducted at criterion concentration.

Table 2G. Definition of Existing Water Quality: Martins Creek BCP

Martins Creek, Pennsylvania, River Mile 190.65 – 0.96
Boundary Control Point is located at Little Creek Road bridge in Martins Creek Village.

Parameter (Y)	**Definition of Existing Water Quality**			
	Median	**Lower 95%CI**	**Upper 95%CI**	**Flow-Relationships** Site specific regression equation.
Ammonia NH3-N (mg/l) *	<0.05	<0.05	0.05	
Chloride (mg/l)	21	19	24.3	Y = -11.0817 (log Q) + 39.9172
Chlorophyll a (mg/m^3)	1.80	0.50	2.70	
Dissolved Oxygen (mg/l) mid-day *	9.55	9.23	9.62	
Dissolved Oxygen Saturation (%)	98%	96%	99%	
E. coli (colonies/100 ml)	150	48	350	Y = antilog (0.7526 (log Q) + 0.9599)
Enterococcus (colonies/100 ml)	380	260	620	
Fecal coliform (colonies/100 ml) *	355 **	190	640 **	
Nitrate NO3-N (mg/l) *	2.38	2.04	2.80	
Orthophosphate (mg/l)	0.10	0.06	0.13	
pH *	7.73	7.6	7.78	
Specific Conductance (umhos/cm)	322	283	338	Y = -114.3186 (log Q) + 506.634
Total Dissolved Solids (mg/l)	226	210	250	Y = -89.8812 (log Q) + 373.2748
Total Kjeldahl Nitrogen (mg/l)	0.34	0.28	0.50	
Total Nitrogen (mg/l) *	2.95	2.65	3.32	
Total Phosphorus (mg/l) *	0.13	0.10	0.20	
Total Suspended Solids (mg/l) *	2.8	2.0	5.0	
Turbidity (NTU)	2.4	1.6	4.0	Y = antilog (0.642 (log Q) - 0.684)
Alkalinity (mg/l)	49	42	52	Y = -19.48 (log Q) + 81.48
Hardness (mg/l)	120	112	130	Y = -46.9931 (log Q) + 201.407

EWQ values represent data collected twice per month from May through September 2000-2004.
Upper and Lower 95% Confidence Limits are the corresponding confidence limits of the median for each parameter.
* = Dischargers may be required to evaluate this parameter for permit limits necessary to meet EWQ.
Implementation guidance should be consulted for discharge evaluations.
** = EWQ exceeds DRBC or state water quality criteria. Discharge evaluations should be conducted at criterion concentration.

Table 2H. Definition of Existing Water Quality: Bushkill Creek BCP

Bushkill Creek, Northampton County, Pennsylvania, River Mile 184.10 – 0.05
Boundary Control Point is located at Route 611 bridge, Easton.

Parameter (Y)	**Definition of Existing Water Quality**			
	Median	**Lower 95%CI**	**Upper 95%CI**	**Flow-Relationships** Site specific regression equation.
Ammonia NH3-N (mg/l) *	0.10	0.07	0.13	
Chloride (mg/l)	27	25	28.4	Y = -13.4942 (log Q) + 54.7837
Chlorophyll a (mg/m^3)	n/a	n/a	n/a	n/a
Dissolved Oxygen (mg/l) mid-day *	10.10	9.69	10.30	
Dissolved Oxygen Saturation (%)	102%	100%	104%	
E. coli (colonies/100 ml)	330	220	620	
Enterococcus (colonies/100 ml)	350	280	540	
Fecal coliform (colonies/100 ml) *	540 **	370 **	880 **	
Nitrate NO3-N (mg/l) *	3.90	3.63	4.26	
Orthophosphate (mg/l)	0.02	0.02	0.03	
pH *	8.00	7.99	8.08	
Specific Conductance (umhos/cm)	578	542	615	Y = -1.32108663 Q + 751.3559
Total Dissolved Solids (mg/l)	410	360	440	Y = -394.9208 (log Q) + 1231.0249
Total Kjeldahl Nitrogen (mg/l)	0.39	0.28	0.50	
Total Nitrogen (mg/l) *	4.39	4.11	4.68	
Total Phosphorus (mg/l) *	0.05	0.04	0.06	
Total Suspended Solids (mg/l) *	4.0	2.8	7.0	
Turbidity (NTU)	3.0	2.5	5.1	
Alkalinity (mg/l)	140	130	155	Y = -152.34 (log Q) + 459
Hardness (mg/l)	218	210	225	Y = -159.4372 (log Q) + 549.8009

EWQ values represent data collected twice per month from May through September 2000-2004.
Upper and Lower 95% Confidence Limits are the corresponding confidence limits of the median for each parameter.
* = Dischargers may be required to evaluate this parameter for permit limits necessary to meet EWQ.
Implementation guidance should be consulted for discharge evaluations.
** = EWQ exceeds DRBC or state water quality criteria. Discharge evaluations should be conducted at criterion concentration.

Table 2I. Definition of Existing Water Quality: Easton ICP

Delaware River at Northampton Street Bridge, Easton-Phillipsburg, PA/NJ, River Mile 183.82

Parameter (Y)	**Definition of Existing Water Quality**			
	Median	**Lower 95%CI**	**Upper 95%CI**	**Flow-Relationships** Site specific regression equation.
Ammonia NH3-N (mg/l) *	<0.05	<0.05	0.05	
Chloride (mg/l)	16	14	17	Y = -0.00022184 Q + 16.751
Chlorophyll a (mg/m^3)	1.45	1.07	2.14	
Dissolved Oxygen (mg/l) mid-day*	8.10	7.90	8.58	
Dissolved Oxygen Saturation (%)	95%	92%	96%	
E. coli (colonies/100 ml)	31	24	64	Y = antilog (0.00004425 Q + 1.273)
Enterococcus (colonies/100 ml)	145	80	250	
Fecal coliform (colonies/100 ml) *	100	64	130	Y = antilog (0.00004016 Q + 1.6615)
Nitrate NO3-N (mg/l) *	0.83	0.68	0.87	
Orthophosphate (mg/l)	0.02	0.01	0.02	
pH *	7.55	7.41	7.70	
Specific Conductance (umhos/cm)	142	127	155	Y = -0.0024666 Q + 158.76
Total Dissolved Solids (mg/l)	110	102	120	
Total Kjeldahl Nitrogen (mg/l)	0.29	0.24	0.38	
Total Nitrogen (mg/l) *	1.19	1.01	1.35	
Total Phosphorus (mg/l) *	0.05	0.04	0.06	
Total Suspended Solids (mg/l) *	4.0	3.0	5.0	Y = 0.00177536 Q – 4.8027
Turbidity (NTU)	2.6	1.8	4.0	Y = antilog (0.00003836 Q + 0.1845)
Alkalinity (mg/l)	34	30	39	Y = -0.00073929 Q + 39.867
Hardness (mg/l)	48	45	52	

EWQ values represent data collected twice per month from May through September 2000-2004.
Upper and Lower 95% Confidence Limits are the corresponding confidence limits of the median for each parameter.
* = Dischargers may be required to evaluate this parameter for permit limits necessary to meet EWQ.
Implementation guidance should be consulted for discharge evaluations.
** = EWQ exceeds DRBC or state water quality criteria. Discharge evaluations should be conducted at criterion concentration.

Table 2J. Definition of Existing Water Quality: Lehigh River BCP

Lehigh River, Pennsylvania, River Mile 183.66 – 0.27
Boundary Control Point is located at Route 611 bridge, Easton.

Parameter (Y)	**Definition of Existing Water Quality**			
	Median	**Lower 95%CI**	**Upper 95%CI**	**Flow-Relationships** Site specific regression equation.
Ammonia NH3-N (mg/l) *	0.08	0.06	0.09	
Chloride (mg/l)	21	19	24	Y = -16.5077 (log Q) + 76.7534
Chlorophyll a (mg/m^3)	2.70	1.80	3.60	
Dissolved Oxygen (mg/l) mid-day *	8.85	8.46	9.20	
Dissolved Oxygen Saturation (%)	97%	94%	98%	
E. coli (colonies/100 ml)	49	36	120	Y = antilog (1.5045 (log Q) – 3.0132)
Enterococcus (colonies/100 ml)	110	56	210	
Fecal coliform (colonies/100 ml) *	120	70	200	Y = antilog (1.4387 (log Q) – 2.5712)
Nitrate NO3-N (mg/l) *	1.80	1.70	2.00	
Orthophosphate (mg/l)	0.11	0.09	0.15	
pH *	7.60	7.50	7.70	
Specific Conductance (umhos/cm)	264	218	292	Y = -186.4602 (log Q) + 870.6296
Total Dissolved Solids (mg/l)	178	150	190	Y = -93.4568 (log Q) + 482.4929
Total Kjeldahl Nitrogen (mg/l)	0.50	0.41	0.58	
Total Nitrogen (mg/l) *	2.42	2.10	2.74	
Total Phosphorus (mg/l) *	0.17	0.15	0.24	
Total Suspended Solids (mg/l) *	3.8	2.5	4.5	
Turbidity (NTU)	3.1	2.2	6.0	Y = antilog (0.901 (log Q) – 2.335)
Alkalinity (mg/l)	55	49	69	Y = -51.44 (log Q) + 227.86
Hardness (mg/l)	96	81	105	Y = -58.1224 (log Q) + 285.2788

EWQ values represent data collected twice per month from May through September 2000-2004.
Upper and Lower 95% Confidence Limits are the corresponding confidence limits of the median for each parameter.
* = Dischargers may be required to evaluate this parameter for permit limits necessary to meet EWQ.
Implementation guidance should be consulted for discharge evaluations.
** = EWQ exceeds DRBC or state water quality criteria. Discharge evaluations should be conducted at criterion concentration.

Table 2K. Definition of Existing Water Quality: Pohatcong Creek BCP

Pohatcong Creek, New Jersey, River Mile 177.36 – 0.35
Boundary Control Point is located at River Road bridge.

Parameter (Y)	**Definition of Existing Water Quality**			
	Median	**Lower 95%CI**	**Upper 95%CI**	**Flow-Relationships** Site specific regression equation.
Ammonia NH3-N (mg/l) *	<0.05	<0.05	0.05	
Chloride (mg/l)	20	19	21	
Chlorophyll a (mg/m^3)	n/a	n/a	n/a	n/a
Dissolved Oxygen (mg/l) mid-day *	9.50	9.20	9.80	
Dissolved Oxygen Saturation (%)	97%	96%	99%	
E. coli (colonies/100 ml)	305	190	550	Y = antilog (1.0503 (log Q) + 0.976)
Enterococcus (colonies/100 ml)	610	380	820	
Fecal coliform (colonies/100 ml) *	580	420	810	
Nitrate NO3-N (mg/l) *	2.61	2.30	2.88	
Orthophosphate (mg/l)	0.05	0.05	0.07	
pH *	7.90	7.90	7.95	
Specific Conductance (umhos/cm)	340	316	352	Y = -0.84542072 Q + 365.5539
Total Dissolved Solids (mg/l)	220	210	240	Y = -99.9173 (log Q) + 381.5349
Total Kjeldahl Nitrogen (mg/l)	0.32	0.19	0.36	
Total Nitrogen (mg/l) *	3.14	2.87	3.26	
Total Phosphorus (mg/l) *	0.10	0.08	0.11 **	
Total Suspended Solids (mg/l) *	4.5	3.0	6.0	
Turbidity (NTU)	4.6	2.1	5.1	Y = antilog (0.867 (log Q) – 0.69)
Alkalinity (mg/l)	116	105	120	Y = -81.8 (log Q) + 238.83
Hardness (mg/l)	140	135	160	Y = -76.5277 (log Q) + 261.5315

EWQ values represent data collected twice per month from May through September 2000-2004.
Upper and Lower 95% Confidence Limits are the corresponding confidence limits of the median for each parameter.
* = Dischargers may be required to evaluate this parameter for permit limits necessary to meet EWQ.
Implementation guidance should be consulted for discharge evaluations.
** = EWQ exceeds DRBC or state water quality criteria. Discharge evaluations should be conducted at criterion concentration.

Table 2L. Definition of Existing Water Quality: Riegelsville ICP

Delaware River at Riegelsville Bridge, PA/NJ, River Mile 174.80

Parameter (Y)	**Definition of Existing Water Quality**			
	Median	**Lower 95%CI**	**Upper 95%CI**	**Flow-Relationships** Site specific regression equation.
Ammonia NH3-N (mg/l) *	<0.05	<0.05	0.05	
Chloride (mg/l)	17	15	19	Y = -0.00026948 Q + 19.644
Chlorophyll a (mg/m^3)	2.42	1.80	3.60	
Dissolved Oxygen (mg/l) mid-day *	8.61	8.10	8.90	
Dissolved Oxygen Saturation (%)	97%	95%	98%	
E. coli (colonies/100 ml)	40	20	80	Y = antilog (0.0000513 Q + 0.9973)
Enterococcus (colonies/100 ml)	80	52	110	
Fecal coliform (colonies/100 ml) *	84	54	160	Y = antilog (0.00003636 Q + 1.5438)
Nitrate NO3-N (mg/l) *	1.15	1.00	1.23	
Orthophosphate (mg/l)	0.04	0.04	0.06	
pH *	7.60	7.48	7.80	
Specific Conductance (umhos/cm)	183	155	197	Y = -0.00298102 Q + 207.26
Total Dissolved Solids (mg/l)	140	130	150	Y = -0.00168753 Q + 152.78
Total Kjeldahl Nitrogen (mg/l)	0.30	0.21	0.46	
Total Nitrogen (mg/l) *	1.44	1.31	1.62	
Total Phosphorus (mg/l) *	0.08	0.06	0.12	
Total Suspended Solids (mg/l) *	4.0	3.5	5.5	Y = 0.00061523 Q + 0.2725
Turbidity (NTU)	2.7	2.1	3.5	Y = antilog (0.00002645 Q + 0.2252)
Alkalinity (mg/l)	42	36	47	Y = -0.0008322 Q + 50.44
Hardness (mg/l)	65	54	70	Y = -0.00121951 Q + 73.708

EWQ values represent data collected twice per month from May through September 2000-2004.
Upper and Lower 95% Confidence Limits are the corresponding confidence limits of the median for each parameter.
* = Dischargers may be required to evaluate this parameter for permit limits necessary to meet EWQ.
Implementation guidance should be consulted for discharge evaluations.
** = EWQ exceeds DRBC or state water quality criteria. Discharge evaluations should be conducted at criterion concentration.

Table 2M. Definition of Existing Water Quality: Musconetcong River BCP

Musconetcong River, New Jersey, River Mile 174.60 – 0.15
Boundary Control Point is located at River Road (Rt. 627) bridge

Parameter (Y)	**Definition of Existing Water Quality**			
	Median	**Lower 95%CI**	**Upper 95%CI**	**Flow-Relationships** Site specific regression equation.
Ammonia NH3-N (mg/l) *	0.06	<0.05	0.08	
Chloride (mg/l)	43	42	45	
Chlorophyll a (mg/m^3)	3.20	2.56	3.71	
Dissolved Oxygen (mg/l) mid-day *	9.10	8.90	9.60	
Dissolved Oxygen Saturation (%)	99%	97%	100%	
E. coli (colonies/100 ml)	125	70	240	Y = antilog (1.0008 (log Q) – 0.0526)
Enterococcus (colonies/100 ml)	210	150	360	
Fecal coliform (colonies/100 ml) *	270	190	400	
Nitrate NO3-N (mg/l) *	2.09	1.85	2.30	
Orthophosphate (mg/l)	0.02	0.02	0.03	
pH *	7.91	7.90	8.01	
Specific Conductance (umhos/cm)	396	375	426	Y = -0.23045946 Q + 440.1906
Total Dissolved Solids (mg/l)	250	240	270	Y = -0.0954 Q + 272.5773
Total Kjeldahl Nitrogen (mg/l)	0.48	0.37	0.85	
Total Nitrogen (mg/l) *	2.53	2.36	2.91	
Total Phosphorus (mg/l) *	0.06	0.05	0.07	
Total Suspended Solids (mg/l) *	6.3	4.0	10.0	
Turbidity (NTU)	3.5	2.3	5.4	Y = antilog (0.86 (log Q) – 1.294)
Alkalinity (mg/l)	105	98	126	Y = -79.84 (log Q) + 298.41
Hardness (mg/l)	150	132	160	Y = -67.6003 (log Q) + 297.8314

EWQ values represent data collected twice per month from May through September 2000-2004.
Upper and Lower 95% Confidence Limits are the corresponding confidence limits of the median for each parameter.
* = Dischargers may be required to evaluate this parameter for permit limits necessary to meet EWQ.
Implementation guidance should be consulted for discharge evaluations.
** = EWQ exceeds DRBC or state water quality criteria. Discharge evaluations should be conducted at criterion concentration.

Table 2N. Definition of Existing Water Quality: Cooks Creek BCP

Cooks Creek, Pennsylvania, River Mile 173.70 – 1.06
Boundary Control Point is located at Red Bridge Road bridge.

Parameter (Y)	**Definition of Existing Water Quality**			
	Median	**Lower 95%CI**	**Upper 95%CI**	**Flow-Relationships** Site specific regression equation.
Ammonia NH3-N (mg/l) *	<0.05	<0.05	0.05	
Chloride (mg/l)	9.7	8.9	10.9	
Chlorophyll a (mg/m^3)	n/a	n/a	n/a	n/a
Dissolved Oxygen (mg/l) mid-day *	9.93	9.70	10.30	
Dissolved Oxygen Saturation (%)	102%	98%	108%	
E. coli (colonies/100 ml)	110	80	200	Y = antilog (1.1307 (log Q) + 0.6483)
Enterococcus (colonies/100 ml)	380	250	520	
Fecal coliform (colonies/100 ml) *	210 **	140	360 **	
Nitrate NO3-N (mg/l) *	1.80	1.70	1.90	
Orthophosphate (mg/l)	0.01	0.01	0.02	
pH *	8.04	7.94	8.16	
Specific Conductance (umhos/cm)	258	244	278	Y = -0.94618228 Q + 290.6508
Total Dissolved Solids (mg/l)	177	160	180	Y = -0.7015 Q + 197.6165
Total Kjeldahl Nitrogen (mg/l)	0.21	0.13	0.33	
Total Nitrogen (mg/l) *	2.01	1.95	2.14	
Total Phosphorus (mg/l) *	0.04	0.03	0.05	
Total Suspended Solids (mg/l) *	2.0	1.5	2.5	
Turbidity (NTU)	1.5	1.1	2.3	Y = antilog (0.888 (log Q) – 0.981)
Alkalinity (mg/l)	98	89	104	Y = -50.25 (log Q) + 168.52
Hardness (mg/l)	120	110	125	Y = -40.8625 (log Q) + 175.8628

EWQ values represent data collected twice per month from May through September 2000-2004.
Upper and Lower 95% Confidence Limits are the corresponding confidence limits of the median for each parameter.
* = Dischargers may be required to evaluate this parameter for permit limits necessary to meet EWQ.
Implementation guidance should be consulted for discharge evaluations.
** = EWQ exceeds DRBC or state water quality criteria. Discharge evaluations should be conducted at criterion concentration.

Table 2O. Definition of Existing Water Quality: Milford ICP

Delaware River at Milford-U. Black Eddy Bridge, NJ/PA, River Mile 167.70

Parameter (Y)	**Definition of Existing Water Quality**			
	Median	**Lower 95%CI**	**Upper 95%CI**	**Flow-Relationships** Site specific regression equation.
Ammonia NH3-N (mg/l) *	<0.05	<0.05	0.05	
Chloride (mg/l)	17	15	20	Y = -0.00027835 Q + 20.221
Chlorophyll a (mg/m^3)	1.80	0.90	2.70	
Dissolved Oxygen (mg/l) mid-day *	8.70	8.04	8.90	
Dissolved Oxygen Saturation (%)	96%	95%	97%	
E. coli (colonies/100 ml)	28	15	60	Y = antilog (0.00004814 Q + 0.905)
Enterococcus (colonies/100 ml)	45	28	98	
Fecal coliform (colonies/100 ml) *	60	40	120	Y = antilog (0.00004177 Q + 1.2688)
Nitrate NO3-N (mg/l) *	1.05	0.95	1.25	
Orthophosphate (mg/l)	0.04	0.04	0.07	
pH *	7.58	7.44	7.80	
Specific Conductance (umhos/cm)	189	159	203	Y = -0.00313416 Q + 212.42
Total Dissolved Solids (mg/l)	149	130	160	Y = -0.00270722 Q + 173.806
Total Kjeldahl Nitrogen (mg/l)	0.29	0.20	0.37	
Total Nitrogen (mg/l) *	1.47	1.23	1.68	
Total Phosphorus (mg/l) *	0.09	0.07	0.11	
Total Suspended Solids (mg/l) *	5.0	4.5	6.0	Y = 0.0006379 Q + 0.3729
Turbidity (NTU)	2.9	2.2	3.8	Y = antilog (0.00002693 Q + 0.1674)
Alkalinity (mg/l)	43	37	48	Y = -0.00087657 Q + 51.613
Hardness (mg/l)	67	55	72	Y = -0.0011369 Q + 74.63

EWQ values represent data collected twice per month from May through September 2000-2004.
Upper and Lower 95% Confidence Limits are the corresponding confidence limits of the median for each parameter.
* = Dischargers may be required to evaluate this parameter for permit limits necessary to meet EWQ.
Implementation guidance should be consulted for discharge evaluations.
** = EWQ exceeds DRBC or state water quality criteria. Discharge evaluations should be conducted at criterion concentration.

Table 2P. Definition of Existing Water Quality: Nishisakawick Creek BCP

Nishisakawick Creek, New Jersey, River Mile 164.10 – 0.35
Boundary Control Point is located at Route 12 bridge, Frenchtown.

Parameter (Y)	**Definition of Existing Water Quality**			
	Median	**Lower 95%CI**	**Upper 95%CI**	**Flow-Relationships** Site specific regression equation.
Ammonia NH3-N (mg/l) *	<0.05	<0.05	0.06	
Chloride (mg/l)	15	14	16	
Chlorophyll a (mg/m^3)	n/a	n/a	n/a	n/a
Dissolved Oxygen (mg/l) mid-day *	9.65	9.11	10.10	
Dissolved Oxygen Saturation (%)	101%	99%	105%	
E. coli (colonies/100 ml)	48	20	96	Y = antilog (0.5217 (log Q) + 1.5665)
Enterococcus (colonies/100 ml)	240	170	790	
Fecal coliform (colonies/100 ml) *	85	50	120	
Nitrate NO3-N (mg/l) *	1.62	1.52	1.83	
Orthophosphate (mg/l)	0.04	0.03	0.05	
pH *	7.89	7.56	8.00	
Specific Conductance (umhos/cm)	181	177	191	Y = -24.8604 (log Q) + 189.4554
Total Dissolved Solids (mg/l)	130	120	144	Y = -0.9989 Q + 139.9081
Total Kjeldahl Nitrogen (mg/l)	0.35	0.21	0.59	
Total Nitrogen (mg/l) *	2.06	1.66	2.39	
Total Phosphorus (mg/l) *	0.06	0.05	0.07	
Total Suspended Solids (mg/l) *	1.5	1.0	2.0	
Turbidity (NTU)	1.3	0.9	2.0	Y = antilog (0.0315 Q – 0.1328)
Alkalinity (mg/l)	45	40	51	Y = -16.39 (log Q) + 55.14
Hardness (mg/l)	60	59	65	Y = -12.5184 (log Q) + 66.8341

EWQ values represent data collected twice per month from May through September 2000-2004.
Upper and Lower 95% Confidence Limits are the corresponding confidence limits of the median for each parameter.
* = Dischargers may be required to evaluate this parameter for permit limits necessary to meet EWQ.
Implementation guidance should be consulted for discharge evaluations.
** = EWQ exceeds DRBC or state water quality criteria. Discharge evaluations should be conducted at criterion concentration.

Table 2Q. Definition of Existing Water Quality: Tinicum Creek BCP

Tinicum Creek, Pennsylvania, River Mile 161.60 – 0.24
Boundary Control Point is located on private property by Tinicum Creek Road, just below confluence of first unnamed tributary.

Parameter (Y)	**Definition of Existing Water Quality**			
	Median	**Lower 95%CI**	**Upper 95%CI**	**Flow-Relationships** Site specific regression equation.
Ammonia NH3-N (mg/l) *	<0.05	<0.05	0.05	
Chloride (mg/l)	14	12	16	
Chlorophyll a (mg/m^3)	n/a	n/a	n/a	n/a
Dissolved Oxygen (mg/l) mid-day *	9.80	8.90	10.10	
Dissolved Oxygen Saturation (%)	104%	101%	107%	
E. coli (colonies/100 ml)	80	55	180	Y = antilog (0.4334 (log Q) + 1.5807)
Enterococcus (colonies/100 ml)	200	96	340	
Fecal coliform (colonies/100 ml) *	155	124	280 **	
Nitrate NO3-N (mg/l) *	0.74	0.64	0.92	
Orthophosphate (mg/l)	0.01	0.01	0.02	
pH *	8.00	7.70	8.30	
Specific Conductance (umhos/cm)	247	219	262	Y = -69.3482 (log Q) + 285.899
Total Dissolved Solids (mg/l)	180	170	190	Y = -39.2799 (log Q) + 204.5375
Total Kjeldahl Nitrogen (mg/l)	0.30	0.13	0.41	
Total Nitrogen (mg/l) *	1.14	0.79	1.23	
Total Phosphorus (mg/l) *	0.04	0.03	0.04	
Total Suspended Solids (mg/l) *	1.8	1.0	2.0	
Turbidity (NTU)	1.1	0.9	1.8	Y = antilog (0.4453 (log Q) – 0.2226)
Alkalinity (mg/l)	61	52	72	Y = -19.56 (log Q) + 75.97
Hardness (mg/l)	91	75	101	Y = -29.6089 (log Q) + 113.3701

EWQ values represent data collected twice per month from May through September 2000-2004.
Upper and Lower 95% Confidence Limits are the corresponding confidence limits of the median for each parameter.
* = Dischargers may be required to evaluate this parameter for permit limits necessary to meet EWQ.
Implementation guidance should be consulted for discharge evaluations.
** = EWQ exceeds DRBC or state water quality criteria. Discharge evaluations should be conducted at criterion concentration.

Table 2R. Definition of Existing Water Quality: Tohickon Creek BCP

Tohickon Creek, Pennsylvania, River Mile 157.00 – 0.19
Boundary Control Point is located at the Delaware Canal Aqueduct crossing in Point Pleasant.

Parameter (Y)	**Definition of Existing Water Quality**			
	Median	**Lower 95%CI**	**Upper 95%CI**	**Flow-Relationships** Site specific regression equation.
Ammonia NH3-N (mg/l) *	<0.05	<0.05	0.05	
Chloride (mg/l)	27	25	29	Y = -4.6046 (log Q) + 34.3562
Chlorophyll a (mg/m^3)	2.14	1.07	2.70	
Dissolved Oxygen (mg/l) mid-day *	9.06	8.60	9.20	
Dissolved Oxygen Saturation (%)	100%	98%	103%	
E. coli (colonies/100 ml)	38	20	60	Y = antilog (0.8609 (log Q) + 0.2319)
Enterococcus (colonies/100 ml)	540	250	980	
Fecal coliform (colonies/100 ml) *	90	60	170	Y = antilog (0.6939 (log Q) + 0.9399)
Nitrate NO3-N (mg/l) *	0.63	0.52	0.72	
Orthophosphate (mg/l)	0.015	0.01	0.02	
pH *	8.01	7.86	8.20	
Specific Conductance (umhos/cm)	218	212	229	Y = -27.1873 (log Q) + 261.345
Total Dissolved Solids (mg/l)	162	150	170	Y = -27.494 (log Q) + 204.9618
Total Kjeldahl Nitrogen (mg/l)	0.37	0.34	0.49	
Total Nitrogen (mg/l) *	1.03	0.83	1.16	
Total Phosphorus (mg/l) *	0.04	0.04	0.05	
Total Suspended Solids (mg/l) *	1.8	1.0	2.0	
Turbidity (NTU)	1.3	0.9	2.0	Y = antilog (0.5292 (log Q) – 0.6216)
Alkalinity (mg/l)	46	43	49	Y = -8.96 (log Q) + 60
Hardness (mg/l)	64	61	68	Y = -10.6687 (log Q) + 81.5734

EWQ values represent data collected twice per month from May through September 2000-2004.
Upper and Lower 95% Confidence Limits are the corresponding confidence limits of the median for each parameter.
* = Dischargers may be required to evaluate this parameter for permit limits necessary to meet EWQ.
Implementation guidance should be consulted for discharge evaluations.
** = EWQ exceeds DRBC or state water quality criteria. Discharge evaluations should be conducted at criterion concentration.

Table 2S. Definition of Existing Water Quality: Paunacussing Creek BCP

Paunacussing Creek, Pennsylvania, River Mile 155.90 – 0.12
Boundary Control Point is located at Route 32 bridge, Lumberville.

Parameter (Y)	**Definition of Existing Water Quality**			
	Median	**Lower 95%CI**	**Upper 95%CI**	**Flow-Relationships** Site specific regression equation.
Ammonia NH3-N (mg/l) *	<0.05	<0.05	0.05	
Chloride (mg/l)	24	23	25	
Chlorophyll a (mg/m^3)	n/a	n/a	n/a	n/a
Dissolved Oxygen (mg/l) mid-day *	9.42	8.90	9.81	
Dissolved Oxygen Saturation (%)	98%	96%	101%	
E. coli (colonies/100 ml)	28	15	84	Y = antilog (0.742 (log Q) + 1.3102)
Enterococcus (colonies/100 ml)	320	160	520	
Fecal coliform (colonies/100 ml) *	80	60	130	Y = antilog (0.5676 (log Q) + 1.7382)
Nitrate NO3-N (mg/l) *	2.58	2.15	2.75	
Orthophosphate (mg/l)	0.05	0.04	0.05	
pH *	7.60	7.47	7.87	
Specific Conductance (umhos/cm)	235	220	245	Y = -18.8373 (log Q) + 238.7433
Total Dissolved Solids (mg/l)	142	140	160	Y = -24.3907 (log Q) + 154.9198
Total Kjeldahl Nitrogen (mg/l)	0.28	0.16	0.36	
Total Nitrogen (mg/l) *	2.96	2.83	3.15	
Total Phosphorus (mg/l) *	0.07	0.06	0.08	
Total Suspended Solids (mg/l) *	1.0	0.5	1.5	
Turbidity (NTU)	0.8	0.5	1.6	
Alkalinity (mg/l)	47	42	55	Y = -13.64 (log Q) + 52.88
Hardness (mg/l)	80	75	85	Y = -12.1905 (log Q) + 84.3707

EWQ values represent data collected twice per month from May through September 2000-2004.
Upper and Lower 95% Confidence Limits are the corresponding confidence limits of the median for each parameter.
* = Dischargers may be required to evaluate this parameter for permit limits necessary to meet EWQ.
Implementation guidance should be consulted for discharge evaluations.
** = EWQ exceeds DRBC or state water quality criteria. Discharge evaluations should be conducted at criterion concentration.

Table 2T. Definition of Existing Water Quality: Bulls Island ICP

Delaware River at Bulls Island (Lumberville-Raven Rock) Foot Bridge, PA/NJ, River Mile 155.40

Parameter (Y)	**Definition of Existing Water Quality**			
	Median	**Lower 95%CI**	**Upper 95%CI**	**Flow-Relationships** Site specific regression equation.
Ammonia NH3-N (mg/l) *	<0.05	<0.05	0.05	
Chloride (mg/l)	17	15	20	Y = -0.00044266 Q + 21.906
Chlorophyll a (mg/m^3)	1.80	0.96	3.20	
Dissolved Oxygen (mg/l) mid-day *	8.73	8.33	9.30	
Dissolved Oxygen Saturation (%)	98%	95%	100%	
E. coli (colonies/100 ml)	40	23	80	Y = antilog (0.00003626 Q + 1.0914)
Enterococcus (colonies/100 ml)	49	32	100	
Fecal coliform (colonies/100 ml) *	71	36	90	Y = antilog (0.00003537 Q + 1.3646)
Nitrate NO3-N (mg/l) *	1.00	0.88	1.20	
Orthophosphate (mg/l)	0.04	0.03	0.06	
pH *	7.60	7.50	7.74	
Specific Conductance (umhos/cm)	186	170	202	Y = -0.00482529 Q + 229.19
Total Dissolved Solids (mg/l)	140	130	160	Y = -0.00277475 Q + 169.368
Total Kjeldahl Nitrogen (mg/l)	0.31	0.26	0.44	
Total Nitrogen (mg/l) *	1.42	1.20	1.53	
Total Phosphorus (mg/l) *	0.10	0.07	0.11	
Total Suspended Solids (mg/l) *	4.9	4.0	6.5	Y = 0.0007482 Q - 0.48
Turbidity (NTU)	3.8	2.2	6.0	
Alkalinity (mg/l)	45	38	51	Y = -0.00129755 Q + 56.978
Hardness (mg/l)	68	60	72	Y = -0.00134498 Q + 78.78

EWQ values represent data collected twice per month from May through September 2000-2004.
Upper and Lower 95% Confidence Limits are the corresponding confidence limits of the median for each parameter.
* = Dischargers may be required to evaluate this parameter for permit limits necessary to meet EWQ.
Implementation guidance should be consulted for discharge evaluations.
** = EWQ exceeds DRBC or state water quality criteria. Discharge evaluations should be conducted at criterion concentration.

Table 2U. Definition of Existing Water Quality: Lockatong Creek BCP

Lockatong Creek, New Jersey, River Mile 154.00 – 0.75
Boundary Control Point is located at Rosemont-Raven Rock Road bridge.

Parameter (Y)	**Definition of Existing Water Quality**			
	Median	**Lower 95%CI**	**Upper 95%CI**	**Flow-Relationships** Site specific regression equation.
Ammonia NH3-N (mg/l) *	<0.05	<0.05	0.05	
Chloride (mg/l)	13	11	14	Y = -3.0659 (log Q) + 14.6262
Chlorophyll a (mg/m^3)	n/a	n/a	n/a	n/a
Dissolved Oxygen (mg/l) mid-day *	8.70	8.30	9.10	
Dissolved Oxygen Saturation (%)	94%	90%	96%	
E. coli (colonies/100 ml)	33	20	50	Y = antilog (0.6703 (log Q) + 1.1906)
Enterococcus (colonies/100 ml)	260	98	480	
Fecal coliform (colonies/100 ml) *	32	20	76	Y = antilog (1.0321 (log Q) + 1.1157)
Nitrate NO3-N (mg/l) *	1.12	0.92	1.33	
Orthophosphate (mg/l)	0.03	0.02	0.04	
pH *	7.30	7.20	7.50	
Specific Conductance (umhos/cm)	180	165	191	Y = -35.3137 (log Q) + 193.0827
Total Dissolved Solids (mg/l)	140	130	142	Y = -24.7785 (log Q) + 150.0884
Total Kjeldahl Nitrogen (mg/l)	0.34	0.20	0.54	
Total Nitrogen (mg/l) *	1.49	1.21	1.80	
Total Phosphorus (mg/l) *	0.05	0.05	0.06	
Total Suspended Solids (mg/l) *	1.0	0.3	1.5	
Turbidity (NTU)	1.2	0.8	3.0	Y = antilog(0.6517 (log Q) - 0.2066)
Alkalinity (mg/l)	43	35	46	Y = -11.425 (log Q) + 48.85
Hardness (mg/l)	60	56	63	

EWQ values represent data collected twice per month from May through September 2000-2004.
Upper and Lower 95% Confidence Limits are the corresponding confidence limits of the median for each parameter.
* = Dischargers may be required to evaluate this parameter for permit limits necessary to meet EWQ.
Implementation guidance should be consulted for discharge evaluations.
** = EWQ exceeds DRBC or state water quality criteria. Discharge evaluations should be conducted at criterion concentration.

Table 2V. Definition of Existing Water Quality: Wickecheoke Creek BCP

Wickecheoke Creek, New Jersey, River Mile 152.51 – 0.21
Boundary Control Point is located at Route 29 bridge, Stockton.

Parameter (Y)	**Definition of Existing Water Quality**			
	Median	**Lower 95%CI**	**Upper 95%CI**	**Flow-Relationships** Site specific regression equation.
Ammonia NH3-N (mg/l) *	<0.05	<0.05	0.05	
Chloride (mg/l)	17	15	18	
Chlorophyll a (mg/m^3)	n/a	n/a	n/a	n/a
Dissolved Oxygen (mg/l) mid-day *	9.45	8.95	9.90	
Dissolved Oxygen Saturation (%)	101%	96%	104%	
E. coli (colonies/100 ml)	52	40	76	Y = antilog (0.5393 (log Q) + 1.4795)
Enterococcus (colonies/100 ml)	170	84	300	
Fecal coliform (colonies/100 ml) *	92	65	190	
Nitrate NO3-N (mg/l) *	1.83	1.69	2.20	
Orthophosphate (mg/l)	0.03	0.03	0.04	
pH *	7.50	7.40	7.62	
Specific Conductance (umhos/cm)	184	177	201	Y = -28.7787 (log Q) + 199.7338
Total Dissolved Solids (mg/l)	130	120	140	Y = -30.5576 (log Q) + 148.5061
Total Kjeldahl Nitrogen (mg/l)	0.42	0.29	0.70	
Total Nitrogen (mg/l) *	2.12	1.98	2.65	
Total Phosphorus (mg/l) *	0.06	0.05	0.07	
Total Suspended Solids (mg/l) *	0.5	0.5	1.5	
Turbidity (NTU)	1.2	0.7	2.0	Y = antilog(0.5729 (log Q) - 0.2123)
Alkalinity (mg/l)	40	33	43	Y = -9.35 (log Q) + 45.46
Hardness (mg/l)	58	51	62	

EWQ values represent data collected twice per month from May through September 2000-2004.
Upper and Lower 95% Confidence Limits are the corresponding confidence limits of the median for each parameter.
* = Dischargers may be required to evaluate this parameter for permit limits necessary to meet EWQ.
Implementation guidance should be consulted for discharge evaluations.
** = EWQ exceeds DRBC or state water quality criteria. Discharge evaluations should be conducted at criterion concentration.

Table 2W. Definition of Existing Water Quality: Lambertville ICP

Delaware River at Lambertville-New Hope Bridge, NJ/PA, River Mile 148.70

Parameter (Y)	**Definition of Existing Water Quality**			
	Median	**Lower 95%CI**	**Upper 95%CI**	**Flow-Relationships** Site specific regression equation.
Ammonia NH3-N (mg/l) *	<0.05	<0.05	0.05	
Chloride (mg/l)	18	16	20	Y = -0.00046965 Q + 22.449
Chlorophyll a (mg/m^3)	2.95	2.00	4.70	
Dissolved Oxygen (mg/l) mid-day *	8.50	7.90	8.63	
Dissolved Oxygen Saturation (%)	94%	93%	95%	
E. coli (colonies/100 ml)	40	16	62	Y = antilog (0.00004662 Q + 1.0027)
Enterococcus (colonies/100 ml)	60	38	80	
Fecal coliform (colonies/100 ml) *	55	32	120	Y = antilog (0.00003689 Q + 1.3656)
Nitrate NO3-N (mg/l) *	1.11	0.90	1.28	
Orthophosphate (mg/l)	0.04	0.03	0.07	
pH *	7.55	7.40	7.60	
Specific Conductance (umhos/cm)	191	156	207	Y = -0.00448812 Q + 229.4
Total Dissolved Solids (mg/l)	140	127	160	Y = -0.0020763 (log Q) + 159.338
Total Kjeldahl Nitrogen (mg/l)	0.46	0.32	0.65	
Total Nitrogen (mg/l) *	1.42	1.27	1.83	
Total Phosphorus (mg/l) *	0.10	0.08	0.12	
Total Suspended Solids (mg/l) *	4.8	3.5	8.0	Y = 0.00075399 Q – 0.3458
Turbidity (NTU)	2.5	1.8	6.0	Y = antilog (0.00003256 Q + 0.0989)
Alkalinity (mg/l)	46	36	52	Y = -0.00162641 Q + 60.322
Hardness (mg/l)	68	56	77	Y = -0.00146091 Q + 80.092

EWQ values represent data collected twice per month from May through September 2000-2004.
Upper and Lower 95% Confidence Limits are the corresponding confidence limits of the median for each parameter.
* = Dischargers may be required to evaluate this parameter for permit limits necessary to meet EWQ.
Implementation guidance should be consulted for discharge evaluations.
** = EWQ exceeds DRBC or state water quality criteria. Discharge evaluations should be conducted at criterion concentration.

Table 2X. Definition of Existing Water Quality: Pidcock Creek BCP

Pidcock Creek, Pennsylvania, River Mile 146.30 – 0.90
Boundary Control Point is located at stone foot bridge within Bowman's Hill Wildflower Preserve.

Parameter (Y)	**Definition of Existing Water Quality**			
	Median	**Lower 95%CI**	**Upper 95%CI**	**Flow-Relationships** Site specific regression equation.
Ammonia NH3-N (mg/l) *	<0.05	<0.05	0.06	
Chloride (mg/l)	19	17	21	
Chlorophyll a (mg/m^3)	n/a	n/a	n/a	n/a
Dissolved Oxygen (mg/l) mid-day *	7.45	7.20	8.50	
Dissolved Oxygen Saturation (%)	81%	78%	86%	
E. coli (colonies/100 ml)	91	64	170	Y = antilog (0.6675 (log Q) + 1.5652)
Enterococcus (colonies/100 ml)	485	170	720	
Fecal coliform (colonies/100 ml) *	195	130	310 **	Y = antilog (0.6669 (log Q) + 1.8192)
Nitrate NO3-N (mg/l) *	0.93	0.81	1.09	
Orthophosphate (mg/l)	0.07	0.05	0.08	
pH *	7.40	7.21	7.47	
Specific Conductance (umhos/cm)	254	237	276	Y = -45.1671 (log Q) + 281.0884
Total Dissolved Solids (mg/l)	185	170	190	
Total Kjeldahl Nitrogen (mg/l)	0.50	0.28	0.72	
Total Nitrogen (mg/l) *	1.70	1.34	2.26	
Total Phosphorus (mg/l) *	0.09	0.08	0.10	
Total Suspended Solids (mg/l) *	2.0	1.5	3.5	
Turbidity (NTU)	3.7	2.5	5.3	Y = antilog (0.6463 (log Q) + 0.163)
Alkalinity (mg/l)	76	64	83	Y = -27.32 (log Q) + 92.67
Hardness (mg/l)	108	97	110	Y = -15.6248 (log Q) + 112.7103

EWQ values represent data collected twice per month from May through September 2000-2004.
Upper and Lower 95% Confidence Limits are the corresponding confidence limits of the median for each parameter.
* = Dischargers may be required to evaluate this parameter for permit limits necessary to meet EWQ.
Implementation guidance should be consulted for discharge evaluations.
** = EWQ exceeds DRBC or state water quality criteria. Discharge evaluations should be conducted at criterion concentration.

Table 2Y. Definition of Existing Water Quality: Washington Crossing ICP

Delaware River at Washington Crossing Bridge, PA/NJ, River Mile 141.80

Parameter (Y)	**Definition of Existing Water Quality**			
	Median	**Lower 95%CI**	**Upper 95%CI**	**Flow-Relationships** Site specific regression equation.
Ammonia NH3-N (mg/l) *	<0.05	<0.05	0.05	
Chloride (mg/l)	18	16	20	Y = -0.00032977 Q + 21.336
Chlorophyll a (mg/m^3)	2.30	1.30	4.27	
Dissolved Oxygen (mg/l) mid-day *	8.69	8.46	9.00	
Dissolved Oxygen Saturation (%)	96%	95%	99%	
E. coli (colonies/100 ml)	33	20	60	Y = antilog (0.00003267 Q + 1.1795)
Enterococcus (colonies/100 ml)	55	23	90	
Fecal coliform (colonies/100 ml) *	70	48	110	Y = antilog (0.00002852 Q + 1.4892)
Nitrate NO3-N (mg/l) *	0.99	0.86	1.20	
Orthophosphate (mg/l)	0.04	0.03	0.05	
pH *	7.69	7.52	7.90	
Specific Conductance (umhos/cm)	187	171	206	Y = -0.00579709 Q + 239.8
Total Dissolved Solids (mg/l)	138	130	160	Y = -0.00317926 Q + 175.218
Total Kjeldahl Nitrogen (mg/l)	0.32	0.28	0.40	
Total Nitrogen (mg/l) *	1.36	1.23	1.67	
Total Phosphorus (mg/l) *	0.10	0.07	0.12	
Total Suspended Solids (mg/l) *	6.0	4.5	8.0	Y = 0.0007895 Q + 0.7126
Turbidity (NTU)	4.0	2.4	5.3	
Alkalinity (mg/l)	44	36	49	Y = -0.00128607 Q + 56.134
Hardness (mg/l)	67	53	75	Y = -0.0019019 Q + 82.144

EWQ values represent data collected twice per month from May through September 2000-2004.
Upper and Lower 95% Confidence Limits are the corresponding confidence limits of the median for each parameter.
* = Dischargers may be required to evaluate this parameter for permit limits necessary to meet EWQ.
Implementation guidance should be consulted for discharge evaluations.
** = EWQ exceeds DRBC or state water quality criteria. Discharge evaluations should be conducted at criterion concentration.

Table 2Z. Definition of Existing Water Quality: Trenton ICP

Delaware River at Calhoun Street Bridge, Trenton-Morrisville, NJ/PA, River Mile 134.34

Parameter (Y)	**Definition of Existing Water Quality**			
	Median	**Lower 95%CI**	**Upper 95%CI**	**Flow-Relationships** Site specific regression equation.
Ammonia NH3-N (mg/l) *	<0.05	<0.05	0.05	
Chloride (mg/l)	17	16	21	Y = -0.00046454 Q + 22.687
Chlorophyll a (mg/m^3)	2.70	1.60	4.81	
Dissolved Oxygen (mg/l) mid-day *	8.74	8.40	9.20	
Dissolved Oxygen Saturation (%)	97%	94%	101%	
E. coli (colonies/100 ml)	40	24	65	Y = antilog (0.00002609 Q + 1.2844)
Enterococcus (colonies/100 ml)	45	20	80	
Fecal coliform (colonies/100 ml) *	88	60	140	
Nitrate NO3-N (mg/l) *	1.04	0.84	1.20	
Orthophosphate (mg/l)	0.04	0.03	0.06	
pH *	7.78	7.56	8.00	
Specific Conductance (umhos/cm)	190	175	205	Y = -0.00563728 Q + 240.35
Total Dissolved Solids (mg/l)	140	130	156	Y = -0.00300322 Q + 169.514
Total Kjeldahl Nitrogen (mg/l)	0.47	0.33	0.52	
Total Nitrogen (mg/l) *	1.41	1.20	1.69	
Total Phosphorus (mg/l) *	0.10	0.07	0.12	
Total Suspended Solids (mg/l) *	6.0	4.0	8.5	Y = 0.00085809 Q – 0.2021
Turbidity (NTU)	2.9	2.2	5.8	
Alkalinity (mg/l)	45	38	50	Y = -0.00160669 Q + 58.973
Hardness (mg/l)	69	60	73	Y = -0.00141561 Q + 79.891

EWQ values represent data collected twice per month from May through September 2000-2004.
Upper and Lower 95% Confidence Limits are the corresponding confidence limits of the median for each parameter.
* = Dischargers may be required to evaluate this parameter for permit limits necessary to meet EWQ.
Implementation guidance should be consulted for discharge evaluations.
** = EWQ exceeds DRBC or state water quality criteria. Discharge evaluations should be conducted at criterion concentration.