

Brandywine Creek River Mile 7.85					
Sample Date	Parameter	Code	Result	Units	Method
7/25/2017 11:15	*CaCO3		167	mg/LCaCO3	EPA200.8
8/2/2017 10:16	*CaCO3		312	mg/LCaCO3	EPA200.8
8/9/2017 10:00	*CaCO3		292	mg/LCaCO3	EPA200.8
8/16/2017 12:30	*CaCO3		294	mg/LCaCO3	EPA200.8
8/23/2017 10:46	*CaCO3		172	mg/LCaCO3	EPA200.8
7/25/2017 11:15	Ag	<	0.254	ug/L	EPA200.8
8/2/2017 10:16	Ag	<	0.254	ug/L	EPA200.8
8/9/2017 10:00	Ag	<	0.254	ug/L	EPA200.8
8/16/2017 12:30	Ag	<	0.254	ug/L	EPA200.8
8/23/2017 10:46	Ag	<	0.254	ug/L	EPA200.8
7/25/2017 11:15	Al		43.97	ug/L	EPA200.8
8/2/2017 10:16	Al		22.9	ug/L	EPA200.8
8/9/2017 10:00	Al		10.48	ug/L	EPA200.8
8/16/2017 12:30	Al		17.28	ug/L	EPA200.8
8/23/2017 10:46	Al		39.59	ug/L	EPA200.8
7/25/2017 11:15	Alkalinity		144.6	mg/LCaCO3	EPA310.2
8/2/2017 10:16	Alkalinity		222.2	mg/LCaCO3	EPA310.2
8/9/2017 10:00	Alkalinity		206.6	mg/LCaCO3	EPA310.2
8/16/2017 12:30	Alkalinity		202.6	mg/LCaCO3	EPA310.2
8/23/2017 10:46	Alkalinity		140.2	mg/LCaCO3	EPA310.2
7/25/2017 11:15	As	j	2.636	ug/L	EPA200.8
8/2/2017 10:16	As	<	1.164	ug/L	EPA200.8
8/9/2017 10:00	As	<	1.164	ug/L	EPA200.8
8/16/2017 12:30	As	<	1.164	ug/L	EPA200.8
8/23/2017 10:46	As	j	2.765	ug/L	EPA200.8
7/25/2017 11:15	Ba		40.65	ug/L	EPA200.8
8/2/2017 10:16	Ba		75.79	ug/L	EPA200.8
8/9/2017 10:00	Ba		64.94	ug/L	EPA200.8
8/16/2017 12:30	Ba		66.77	ug/L	EPA200.8
8/23/2017 10:46	Ba		39.58	ug/L	EPA200.8
7/25/2017 11:15	Be	<	0.188	ug/L	EPA200.8
8/2/2017 10:16	Be	<	0.188	ug/L	EPA200.8
8/9/2017 10:00	Be	<	0.188	ug/L	EPA200.8
8/16/2017 12:30	Be	<	0.188	ug/L	EPA200.8
8/23/2017 10:46	Be	<	0.188	ug/L	EPA200.8
7/25/2017 11:15	BOD		2.5	mg/L	SM5210 B
8/2/2017 10:16	BOD		2.5	mg/L	SM5210 B
8/9/2017 10:00	BOD	<	2	mg/L	SM5210 B
8/16/2017 12:30	BOD	<	2	mg/L	SM5210 B

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Sample Date	Parameter	Code	Result	Units	Method
8/23/2017 10:46	BOD	~	2.3	mg/L	SM5210 B
7/25/2017 11:15	Ca		50750	ug/L	EPA200.8
8/2/2017 10:16	Ca		92900	ug/L	EPA200.8
8/9/2017 10:00	Ca		89200	ug/L	EPA200.8
8/16/2017 12:30	Ca		82580	ug/L	EPA200.8
8/23/2017 10:46	Ca		49450	ug/L	EPA200.8
7/25/2017 11:15	Cd	<	0.106	ug/L	EPA200.8
8/2/2017 10:16	Cd	<	0.106	ug/L	EPA200.8
8/9/2017 10:00	Cd	<	0.106	ug/L	EPA200.8
8/16/2017 12:30	Cd	<	0.106	ug/L	EPA200.8
8/23/2017 10:46	Cd	<	0.106	ug/L	EPA200.8
7/25/2017 11:15	Chloride		195.3	mg/L	EPA300.0
8/2/2017 10:16	Chloride		624.5	mg/L	EPA300.0
8/9/2017 10:00	Chloride		503.2	mg/L	EPA300.0
8/16/2017 12:30	Chloride		575.4	mg/L	EPA300.0
8/23/2017 10:46	Chloride		214.1	mg/L	EPA300.0
7/25/2017 11:15	Co	j	0.151	ug/L	EPA200.8
8/2/2017 10:16	Co	j	0.19	ug/L	EPA200.8
8/9/2017 10:00	Co	j	0.198	ug/L	EPA200.8
8/16/2017 12:30	Co	j	0.186	ug/L	EPA200.8
8/23/2017 10:46	Co	j	0.165	ug/L	EPA200.8
7/25/2017 11:15	COD		18.5	mg/L	EPA410.4
8/2/2017 10:16	COD		12	mg/L	EPA410.4
8/9/2017 10:00	COD		12.5	mg/L	EPA410.4
8/16/2017 12:30	COD		11.7	mg/L	EPA410.4
8/23/2017 10:46	COD		23.4	mg/L	EPA410.4
7/25/2017 11:15	Cr	j	1.761	ug/L	EPA200.8
8/2/2017 10:16	Cr	<	0.954	ug/L	EPA200.8
8/9/2017 10:00	Cr	j	1.329	ug/L	EPA200.8
8/16/2017 12:30	Cr	j	1.598	ug/L	EPA200.8
8/23/2017 10:46	Cr	j	1.816	ug/L	EPA200.8
7/25/2017 11:15	Cu	j	1.885	ug/L	EPA200.8
8/2/2017 10:16	Cu	j	1.022	ug/L	EPA200.8
8/9/2017 10:00	Cu	j	1.317	ug/L	EPA200.8
8/16/2017 12:30	Cu	j	1.545	ug/L	EPA200.8
8/23/2017 10:46	Cu	j	1.573	ug/L	EPA200.8
7/25/2017 11:15	DRPhos		0.01	mg/L	EPA365.1
8/2/2017 10:16	DRPhos		0.012	mg/L	EPA365.1

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Sample Date	Parameter	Code	Result	Units	Method
8/9/2017 10:00	DRPhos	j	0.006	mg/L	EPA365.1
8/16/2017 12:30	DRPhos	j	0.007	mg/L	EPA365.1
8/23/2017 10:46	DRPhos	j	0.006	mg/L	EPA365.1
7/25/2017 11:15	E. coli		146	MPN/100 mL	SM9223 Colilert
8/2/2017 10:16	E. coli		207	MPN/100 mL	SM9223 Colilert
8/9/2017 10:00	E. coli		78	MPN/100 mL	SM9223 Colilert
8/16/2017 12:30	E. coli		70	MPN/100 mL	SM9223 Colilert
8/23/2017 10:46	E. coli		90	MPN/100 mL	SM9223 Colilert
7/25/2017 11:15	Fe		435.9	ug/L	EPA200.8
8/2/2017 10:16	Fe		446.8	ug/L	EPA200.8
8/9/2017 10:00	Fe		463.9	ug/L	EPA200.8
8/16/2017 12:30	Fe		419.2	ug/L	EPA200.8
8/23/2017 10:46	Fe		391.1	ug/L	EPA200.8
7/25/2017 11:15	Field Cond		931	umhos/cm	SM 2510A
8/2/2017 10:16	Field Cond		245	umhos/cm	SM 2510A
8/9/2017 10:00	Field Cond		1791	umhos/cm	SM 2510A
8/16/2017 12:30	Field Cond		2228	umhos/cm	SM 2510A
8/23/2017 10:46	Field Cond		995	umhos/cm	SM 2510A
7/25/2017 11:15	Field Spec Cond		987	umhos/cm	SM 2510B
8/2/2017 10:16	Field Spec Cond		272	umhos/cm	SM 2510B
8/9/2017 10:00	Field Spec Cond		2092	umhos/cm	SM 2510B
8/16/2017 12:30	Field Spec Cond		2381	umhos/cm	SM 2510B
8/23/2017 10:46	Field Spec Cond		1069	umhos/cm	SM 2510B
7/25/2017 11:15	Field DO		9.1	mg/L	SM 4500-0 G
8/2/2017 10:16	Field DO		10.9	mg/L	SM 4500-0 G
8/9/2017 10:00	Field DO		11.3	mg/L	SM 4500-0 G
8/16/2017 12:30	Field DO		12.7	mg/L	SM 4500-0 G
8/23/2017 10:46	Field DO		7.3	mg/L	SM 4500-0 G
7/25/2017 11:15	Field DO		104	%	
8/2/2017 10:16	Field DO		120	%	
8/9/2017 10:00	Field DO		119	%	
8/16/2017 12:30	Field DO		145	%	
8/23/2017 10:46	Field DO		83	%	
7/25/2017 11:15	Field Temp		22	C	EPA 170.1
8/2/2017 10:16	Field Temp		20	C	EPA 170.1
8/9/2017 10:00	Field Temp		17.5	C	EPA 170.1
8/16/2017 12:30	Field Temp		21.6	C	EPA 170.1
8/23/2017 10:46	Field Temp		21.4	C	EPA 170.1

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Sample Date	Parameter	Code	Result	Units	Method	
7/25/2017 11:15	Hg	<	0.025	ug/L	EPA245.1	
8/2/2017 10:16	Hg	<	0.025	ug/L	EPA245.1	
8/9/2017 10:00	Hg	<	0.025	ug/L	EPA245.1	
8/16/2017 12:30	Hg	<	0.025	ug/L	EPA245.1	
8/23/2017 10:46	Hg	<	0.025	ug/L	EPA245.1	
7/25/2017 11:15	K		3098	ug/L	EPA200.8	
8/2/2017 10:16	K		2882	ug/L	EPA200.8	
8/9/2017 10:00	K		3186	ug/L	EPA200.8	
8/16/2017 12:30	K		2775	ug/L	EPA200.8	
8/23/2017 10:46	K		3062	ug/L	EPA200.8	
7/25/2017 11:15	Mg		9689	ug/L	EPA200.8	
8/2/2017 10:16	Mg		19480	ug/L	EPA200.8	
8/9/2017 10:00	Mg		16860	ug/L	EPA200.8	
8/16/2017 12:30	Mg		21270	ug/L	EPA200.8	
8/23/2017 10:46	Mg		11670	ug/L	EPA200.8	
7/25/2017 11:15	Mn		68.13	ug/L	EPA200.8	
8/2/2017 10:16	Mn		85.16	ug/L	EPA200.8	
8/9/2017 10:00	Mn		84.83	ug/L	EPA200.8	
8/16/2017 12:30	Mn		84.29	ug/L	EPA200.8	
8/23/2017 10:46	Mn		64.44	ug/L	EPA200.8	
7/25/2017 11:15	Mo		1.996	ug/L	EPA200.8	
8/2/2017 10:16	Mo		1.804	ug/L	EPA200.8	
8/9/2017 10:00	Mo		2.002	ug/L	EPA200.8	
8/16/2017 12:30	Mo		1.779	ug/L	EPA200.8	
8/23/2017 10:46	Mo		2.358	ug/L	EPA200.8	
7/25/2017 11:15	Na		128800	ug/L	EPA200.8	
8/2/2017 10:16	Na		352200	ug/L	EPA200.8	
8/9/2017 10:00	Na		333900	ug/L	EPA200.8	
8/16/2017 12:30	Na		328100	ug/L	EPA200.8	
8/23/2017 10:46	Na		131100	ug/L	EPA200.8	
7/25/2017 11:15	NH3		0.027	mg/L	EPA350.1	
8/2/2017 10:16	NH3	<	0.01	mg/L	EPA350.1	
8/9/2017 10:00	NH3	<	0.01	mg/L	EPA350.1	
8/16/2017 12:30	NH3	<	0.01	mg/L	EPA350.1	
8/23/2017 10:46	NH3		0.027	mg/L	EPA350.1	
7/25/2017 11:15	Ni	j	2.138	ug/L	EPA200.8	
8/2/2017 10:16	Ni	j	1.993	ug/L	EPA200.8	
8/9/2017 10:00	Ni	j	2.176	ug/L	EPA200.8	
8/16/2017 12:30	Ni	j	1.795	ug/L	EPA200.8	

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Sample Date	Parameter	Code	Result	Units	Method
8/23/2017 10:46	Ni	j	1.62	ug/L	EPA200.8
7/25/2017 11:15	NO3-NO2		0.3	mg/L	EPA353.2
8/2/2017 10:16	NO3-NO2		0.99	mg/L	EPA353.2
8/9/2017 10:00	NO3-NO2		0.737	mg/L	EPA353.2
8/16/2017 12:30	NO3-NO2		0.841	mg/L	EPA353.2
8/23/2017 10:46	NO3-NO2		0.254	mg/L	EPA353.2
7/25/2017 11:15	Pb	j	0.277	ug/L	EPA200.8
8/2/2017 10:16	Pb	<	0.168	ug/L	EPA200.8
8/9/2017 10:00	Pb	<	0.168	ug/L	EPA200.8
8/16/2017 12:30	Pb	<	0.168	ug/L	EPA200.8
8/23/2017 10:46	Pb	j	0.188	ug/L	EPA200.8
7/25/2017 11:15	pH		8.1	S.U.	
8/2/2017 10:16	pH		7.8	S.U.	
8/9/2017 10:00	pH		7.8	S.U.	
8/16/2017 12:30	pH		8	S.U.	
8/23/2017 10:46	pH		7.8	S.U.	
7/25/2017 11:15	Sb	<	0.794	ug/L	EPA200.8
8/2/2017 10:16	Sb	<	0.794	ug/L	EPA200.8
8/9/2017 10:00	Sb	<	0.794	ug/L	EPA200.8
8/16/2017 12:30	Sb	<	0.794	ug/L	EPA200.8
8/23/2017 10:46	Sb	<	0.794	ug/L	EPA200.8
7/25/2017 11:15	Se	<	1.244	ug/L	EPA200.8
8/2/2017 10:16	Se	<	1.244	ug/L	EPA200.8
8/9/2017 10:00	Se	<	1.244	ug/L	EPA200.8
8/16/2017 12:30	Se	<	1.244	ug/L	EPA200.8
8/23/2017 10:46	Se	<	1.244	ug/L	EPA200.8
7/25/2017 11:15	Sn	<	1.336	ug/L	EPA200.8
8/2/2017 10:16	Sn	<	1.336	ug/L	EPA200.8
8/9/2017 10:00	Sn	<	1.336	ug/L	EPA200.8
8/16/2017 12:30	Sn	<	1.336	ug/L	EPA200.8
8/23/2017 10:46	Sn	<	1.336	ug/L	EPA200.8
7/25/2017 11:15	SO4		31.94	mg/L	EPA300.0
8/2/2017 10:16	SO4		88.04	mg/L	EPA300.0
8/9/2017 10:00	SO4		74.08	mg/L	EPA300.0
8/16/2017 12:30	SO4		83.03	mg/L	EPA300.0
8/23/2017 10:46	SO4		35.15	mg/L	EPA300.0
7/25/2017 11:15	Sr		462.466	ug/L	EPA200.8
8/2/2017 10:16	Sr		919.368	ug/L	EPA200.8

## Brandywine Creek

## River Mile 7.85

Sample Date	Parameter	Code	Result	Units	Method
8/9/2017 10:00	Sr		758.128	ug/L	EPA200.8
8/16/2017 12:30	Sr		788.17	ug/L	EPA200.8
8/23/2017 10:46	Sr		466.743	ug/L	EPA200.8
7/25/2017 11:15	TDS		526	mg/L	SM2540 C
8/2/2017 10:16	TDS		1416	mg/L	SM2540 C
8/9/2017 10:00	TDS		1156	mg/L	SM2540 C
8/16/2017 12:30	TDS		1310	mg/L	SM2540 C
8/23/2017 10:46	TDS		576	mg/L	SM2540 C
7/25/2017 11:15	Ti	j	1.653	ug/L	EPA200.8
8/2/2017 10:16	Ti	j	1.771	ug/L	EPA200.8
8/9/2017 10:00	Ti	j	1.312	ug/L	EPA200.8
8/16/2017 12:30	Ti	j	1.374	ug/L	EPA200.8
8/23/2017 10:46	Ti		14.91	ug/L	EPA200.8
7/25/2017 11:15	TKN		0.688	mg/L	EPA351.2
8/2/2017 10:16	TKN	<	0.237	mg/L	EPA351.2
8/9/2017 10:00	TKN	j	0.332	mg/L	EPA351.2
8/16/2017 12:30	TKN	j	0.295	mg/L	EPA351.2
8/23/2017 10:46	TKN		0.776	mg/L	EPA351.2
7/25/2017 11:15	TI	<	0.196	ug/L	EPA200.8
8/2/2017 10:16	TI	<	0.196	ug/L	EPA200.8
8/9/2017 10:00	TI	<	0.196	ug/L	EPA200.8
8/16/2017 12:30	TI	<	0.196	ug/L	EPA200.8
8/23/2017 10:46	TI	<	0.196	ug/L	EPA200.8
7/25/2017 11:15	TMET	<	10	ug/L	EPA200.8
8/2/2017 10:16	TMET	<	10	ug/L	EPA200.8
8/9/2017 10:00	TMET	<	10	ug/L	EPA200.8
8/16/2017 12:30	TMET	<	10	ug/L	EPA200.8
8/23/2017 10:46	TMET	<	10	ug/L	EPA200.8
7/25/2017 11:15	Total-P		0.042	mg/L	EPA365.1
8/2/2017 10:16	Total-P		0.012	mg/L	EPA365.1
8/9/2017 10:00	Total-P		0.017	mg/L	EPA365.1
8/16/2017 12:30	Total-P		0.014	mg/L	EPA365.1
8/23/2017 10:46	Total-P		0.048	mg/L	EPA365.1
7/25/2017 11:15	TS		632	mg/L	SM2540 B
8/2/2017 10:16	TS		1504	mg/L	SM2540 B
8/9/2017 10:00	TS		1208	mg/L	SM2540 B
8/16/2017 12:30	TS		1336	mg/L	SM2540 B
8/23/2017 10:46	TS		596	mg/L	SM2540 B

## Brandywine Creek

## River Mile 7.85

Sample Date	Parameter	Code	Result	Units	Method
7/25/2017 11:15	TSS		8.6	mg/L	SM2540 D
8/2/2017 10:16	TSS		15.8	mg/L	SM2540 D
8/9/2017 10:00	TSS		3	mg/L	SM2540 D
8/16/2017 12:30	TSS		3.2	mg/L	SM2540 D
8/23/2017 10:46	TSS		4.4	mg/L	SM2540 D
7/25/2017 11:15	Turbidity		3.9	NTU	EPA180.1
8/2/2017 10:16	Turbidity		1.5	NTU	EPA180.1
8/9/2017 10:00	Turbidity		2	NTU	EPA180.1
8/16/2017 12:30	Turbidity		2.2	NTU	EPA180.1
8/23/2017 10:46	Turbidity		5.8	NTU	EPA180.1
7/25/2017 11:15	V	<	4.138	ug/L	EPA200.8
8/2/2017 10:16	V	<	4.138	ug/L	EPA200.8
8/9/2017 10:00	V	<	4.138	ug/L	EPA200.8
8/16/2017 12:30	V	<	4.138	ug/L	EPA200.8
8/23/2017 10:46	V	<	4.138	ug/L	EPA200.8
7/25/2017 11:15	Zn	j	0.939	ug/L	EPA200.8
8/2/2017 10:16	Zn	j	0.91	ug/L	EPA200.8
8/9/2017 10:00	Zn	j	1.584	ug/L	EPA200.8
8/16/2017 12:30	Zn	j	1.67	ug/L	EPA200.8
8/23/2017 10:46	Zn	j	1.524	ug/L	EPA200.8

**Brandywine Creek  
River Mile 3.55**

Sample Date	Parameter	Code	Result	Units	Method
7/25/2017 10:33	*CaCO3		203	mg/LCaCO3	EPA200.8
8/2/2017 9:53	*CaCO3		308	mg/LCaCO3	EPA200.8
8/9/2017 9:35	*CaCO3		280	mg/LCaCO3	EPA200.8
8/16/2017 12:05	*CaCO3		306.5	mg/LCaCO3	EPA200.8
8/23/2017 10:22	*CaCO3		197	mg/LCaCO3	EPA200.8
7/25/2017 10:33	Ag	<	0.254	ug/L	EPA200.8
8/2/2017 9:53	Ag	<	0.254	ug/L	EPA200.8
8/9/2017 9:35	Ag	<	0.254	ug/L	EPA200.8
8/16/2017 12:05	Ag	<	0.254	ug/L	EPA200.8
8/23/2017 10:22	Ag	<	0.254	ug/L	EPA200.8
7/25/2017 10:33	Al		172.2	ug/L	EPA200.8
8/2/2017 9:53	Al		29.76	ug/L	EPA200.8
8/9/2017 9:35	Al		61.34	ug/L	EPA200.8
8/16/2017 12:05	Al		45.6	ug/L	EPA200.8
8/23/2017 10:22	Al		85.72	ug/L	EPA200.8
7/25/2017 10:33	Alkalinity		158.6	mg/LCaCO3	EPA310.2
8/2/2017 9:53	Alkalinity		197.3	mg/LCaCO3	EPA310.2
8/9/2017 9:35	Alkalinity		190.8	mg/LCaCO3	EPA310.2
8/16/2017 12:05	Alkalinity		188.2	mg/LCaCO3	EPA310.2
8/23/2017 10:22	Alkalinity		138.6	mg/LCaCO3	EPA310.2
7/25/2017 10:33	As	j	1.587	ug/L	EPA200.8
8/2/2017 9:53	As	j	2.173	ug/L	EPA200.8
8/9/2017 9:35	As	<	1.164	ug/L	EPA200.8
8/16/2017 12:05	As	<	1.164	ug/L	EPA200.8
8/23/2017 10:22	As	<	1.164	ug/L	EPA200.8
7/25/2017 10:33	Ba		49.33	ug/L	EPA200.8
8/2/2017 9:53	Ba		67.94	ug/L	EPA200.8
8/9/2017 9:35	Ba		60.48	ug/L	EPA200.8
8/16/2017 12:05	Ba		64.575	ug/L	EPA200.8
8/23/2017 10:22	Ba		44.72	ug/L	EPA200.8
7/25/2017 10:33	Be	<	0.188	ug/L	EPA200.8
8/2/2017 9:53	Be	<	0.188	ug/L	EPA200.8
8/9/2017 9:35	Be	<	0.188	ug/L	EPA200.8
8/16/2017 12:05	Be	<	0.188	ug/L	EPA200.8
8/23/2017 10:22	Be	<	0.188	ug/L	EPA200.8
7/25/2017 10:33	BOD		4.4	mg/L	SM5210 B
8/2/2017 9:53	BOD		2.6	mg/L	SM5210 B
8/9/2017 9:35	BOD	<	2	mg/L	SM5210 B
8/16/2017 12:05	BOD	<	2	mg/L	SM5210 B



Brandywine Creek  
River Mile 3.55

Sample Date	Parameter	Code	Result	Units	Method
8/23/2017 10:22	BOD	<	2	mg/L	SM5210 B
7/25/2017 10:33	Ca		61400	ug/L	EPA200.8
8/2/2017 9:53	Ca		89780	ug/L	EPA200.8
8/9/2017 9:35	Ca		83600	ug/L	EPA200.8
8/16/2017 12:05	Ca		85320	ug/L	EPA200.8
8/23/2017 10:22	Ca		56410	ug/L	EPA200.8
7/25/2017 10:33	Cd	<	0.106	ug/L	EPA200.8
8/2/2017 9:53	Cd	<	0.106	ug/L	EPA200.8
8/9/2017 9:35	Cd	<	0.106	ug/L	EPA200.8
8/16/2017 12:05	Cd	<	0.106	ug/L	EPA200.8
8/23/2017 10:22	Cd	<	0.106	ug/L	EPA200.8
7/25/2017 10:33	Chloride		159.3	mg/L	EPA300.0
8/2/2017 9:53	Chloride		276.7	mg/L	EPA300.0
8/9/2017 9:35	Chloride		267.6	mg/L	EPA300.0
8/16/2017 12:05	Chloride		330.55	mg/L	EPA300.0
8/23/2017 10:22	Chloride		170.5	mg/L	EPA300.0
7/25/2017 10:33	Co	j	0.4	ug/L	EPA200.8
8/2/2017 9:53	Co	j	0.312	ug/L	EPA200.8
8/9/2017 9:35	Co	j	0.305	ug/L	EPA200.8
8/16/2017 12:05	Co	j	0.299	ug/L	EPA200.8
8/23/2017 10:22	Co	j	0.272	ug/L	EPA200.8
7/25/2017 10:33	COD		20.4	mg/L	EPA410.4
8/2/2017 9:53	COD		16	mg/L	EPA410.4
8/9/2017 9:35	COD		19.6	mg/L	EPA410.4
8/16/2017 12:05	COD		19.2	mg/L	EPA410.4
8/23/2017 10:22	COD		20.9	mg/L	EPA410.4
7/25/2017 10:33	Cr	j	1.862	ug/L	EPA200.8
8/2/2017 9:53	Cr	j	0.999	ug/L	EPA200.8
8/9/2017 9:35	Cr	j	1.158	ug/L	EPA200.8
8/16/2017 12:05	Cr	j	1.513	ug/L	EPA200.8
8/23/2017 10:22	Cr	j	1.986	ug/L	EPA200.8
7/25/2017 10:33	Cu		3.208	ug/L	EPA200.8
8/2/2017 9:53	Cu		2.406	ug/L	EPA200.8
8/9/2017 9:35	Cu		2.467	ug/L	EPA200.8
8/16/2017 12:05	Cu		2.1325	ug/L	EPA200.8
8/23/2017 10:22	Cu		2.69	ug/L	EPA200.8
7/25/2017 10:33	DRPhos		0.016	mg/L	EPA365.1
8/2/2017 9:53	DRPhos		0.011	mg/L	EPA365.1

## Brandywine Creek

## River Mile 3.55

Sample Date	Parameter	Code	Result	Units	Method
8/9/2017 9:35	DRPhos		0.01	mg/L	EPA365.1
8/16/2017 12:05	DRPhos	j	0.008	mg/L	EPA365.1
8/23/2017 10:22	DRPhos	j	0.009	mg/L	EPA365.1
7/25/2017 10:33	E. coli		516	MPN/100 mL	SM9223 Colilert
8/2/2017 9:53	E. coli		344	MPN/100 mL	SM9223 Colilert
8/9/2017 9:35	E. coli		286	MPN/100 mL	SM9223 Colilert
8/16/2017 12:05	E. coli		188	MPN/100 mL	SM9223 Colilert
8/23/2017 10:22	E. coli		1182	MPN/100 mL	SM9223 Colilert
7/25/2017 10:33	Fe		1385	ug/L	EPA200.8
8/2/2017 9:53	Fe		1098	ug/L	EPA200.8
8/9/2017 9:35	Fe		966	ug/L	EPA200.8
8/16/2017 12:05	Fe		774.7	ug/L	EPA200.8
8/23/2017 10:22	Fe		628.1	ug/L	EPA200.8
7/25/2017 10:33	Field Cond		823	umhos/cm	SM 2510A
8/2/2017 9:53	Field Cond		1364	umhos/cm	SM 2510A
8/9/2017 9:35	Field Cond		1156	umhos/cm	SM 2510A
8/16/2017 12:05	Field Cond		1470	umhos/cm	SM 2510A
8/23/2017 10:22	Field Cond		872	umhos/cm	SM 2510A
7/25/2017 10:33	Field Spec Cond		912	umhos/cm	SM 2510B
8/2/2017 9:53	Field Spec Cond		1475	umhos/cm	SM 2510B
8/9/2017 9:35	Field Spec Cond		1320	umhos/cm	SM 2510B
8/16/2017 12:05	Field Spec Cond		1567	umhos/cm	SM 2510B
8/23/2017 10:22	Field Spec Cond		945	umhos/cm	SM 2510B
7/25/2017 10:33	Field DO		7	mg/L	SM 4500-0 G
8/2/2017 9:53	Field DO		7.3	mg/L	SM 4500-0 G
8/9/2017 9:35	Field DO		7.6	mg/L	SM 4500-0 G
8/16/2017 12:05	Field DO		9	mg/L	SM 4500-0 G
8/23/2017 10:22	Field DO		6.2	mg/L	SM 4500-0 G
7/25/2017 10:33	Field DO		77	%	
8/2/2017 9:53	Field DO		83	%	
8/9/2017 9:35	Field DO		81	%	
8/16/2017 12:05	Field DO		103	%	
8/23/2017 10:22	Field DO		70	%	
7/25/2017 10:33	Field Temp		19.9	C	EPA 170.1
8/2/2017 9:53	Field Temp		21	C	EPA 170.1
8/9/2017 9:35	Field Temp		18.5	C	EPA 170.1
8/16/2017 12:05	Field Temp		21.8	C	EPA 170.1
8/23/2017 10:22	Field Temp		21	C	EPA 170.1

Brandywine Creek River Mile 3.55						
Sample Date	Parameter	Code	Result	Units	Method	
7/25/2017 10:33	Hg	<	0.025	ug/L	EPA245.1	
8/2/2017 9:53	Hg	<	0.025	ug/L	EPA245.1	
8/9/2017 9:35	Hg	<	0.025	ug/L	EPA245.1	
8/16/2017 12:05	Hg	<	0.025	ug/L	EPA245.1	
8/23/2017 10:22	Hg	<	0.025	ug/L	EPA245.1	
7/25/2017 10:33	K		3827	ug/L	EPA200.8	
8/2/2017 9:53	K		3916	ug/L	EPA200.8	
8/9/2017 9:35	K		3878	ug/L	EPA200.8	
8/16/2017 12:05	K		3731	ug/L	EPA200.8	
8/23/2017 10:22	K		3668	ug/L	EPA200.8	
7/25/2017 10:33	Mg		12040	ug/L	EPA200.8	
8/2/2017 9:53	Mg		20270	ug/L	EPA200.8	
8/9/2017 9:35	Mg		17380	ug/L	EPA200.8	
8/16/2017 12:05	Mg		22715	ug/L	EPA200.8	
8/23/2017 10:22	Mg		13550	ug/L	EPA200.8	
7/25/2017 10:33	Mn		115.7	ug/L	EPA200.8	
8/2/2017 9:53	Mn		107.5	ug/L	EPA200.8	
8/9/2017 9:35	Mn		97.41	ug/L	EPA200.8	
8/16/2017 12:05	Mn		116.3	ug/L	EPA200.8	
8/23/2017 10:22	Mn		69.56	ug/L	EPA200.8	
7/25/2017 10:33	Mo		2.865	ug/L	EPA200.8	
8/2/2017 9:53	Mo		4.049	ug/L	EPA200.8	
8/9/2017 9:35	Mo		3.469	ug/L	EPA200.8	
8/16/2017 12:05	Mo		3.341	ug/L	EPA200.8	
8/23/2017 10:22	Mo		3.086	ug/L	EPA200.8	
7/25/2017 10:33	Na		97000	ug/L	EPA200.8	
8/2/2017 9:53	Na		169600	ug/L	EPA200.8	
8/9/2017 9:35	Na		161800	ug/L	EPA200.8	
8/16/2017 12:05	Na		176350	ug/L	EPA200.8	
8/23/2017 10:22	Na		98180	ug/L	EPA200.8	
7/25/2017 10:33	NH3		0.038	mg/L	EPA350.1	
8/2/2017 9:53	NH3		0.021	mg/L	EPA350.1	
8/9/2017 9:35	NH3	j	0.01	mg/L	EPA350.1	
8/16/2017 12:05	NH3	<	0.01	mg/L	EPA350.1	
8/23/2017 10:22	NH3		0.022	mg/L	EPA350.1	
7/25/2017 10:33	Ni	j	3.105	ug/L	EPA200.8	
8/2/2017 9:53	Ni	j	3.368	ug/L	EPA200.8	
8/9/2017 9:35	Ni	j	3.14	ug/L	EPA200.8	
8/16/2017 12:05	Ni	j	2.817	ug/L	EPA200.8	

Brandywine Creek River Mile 3.55					
Sample Date	Parameter	Code	Result	Units	Method
8/23/2017 10:22	Ni	j	2.281	ug/L	EPA200.8
7/25/2017 10:33	NO3-NO2		0.209	mg/L	EPA353.2
8/2/2017 9:53	NO3-NO2		0.113	mg/L	EPA353.2
8/9/2017 9:35	NO3-NO2		0.162	mg/L	EPA353.2
8/16/2017 12:05	NO3-NO2		0.104	mg/L	EPA353.2
8/23/2017 10:22	NO3-NO2		0.147	mg/L	EPA353.2
7/25/2017 10:33	Pb	j	0.594	ug/L	EPA200.8
8/2/2017 9:53	Pb	j	0.211	ug/L	EPA200.8
8/9/2017 9:35	Pb	j	0.29	ug/L	EPA200.8
8/16/2017 12:05	Pb	j	0.2255	ug/L	EPA200.8
8/23/2017 10:22	Pb	j	0.334	ug/L	EPA200.8
7/25/2017 10:33	pH		7.6	S.U.	
8/2/2017 9:53	pH		7.6	S.U.	
8/9/2017 9:35	pH		7.6	S.U.	
8/16/2017 12:05	pH		8	S.U.	
8/23/2017 10:22	pH		7.5	S.U.	
7/25/2017 10:33	Sb	<	0.794	ug/L	EPA200.8
8/2/2017 9:53	Sb	<	0.794	ug/L	EPA200.8
8/9/2017 9:35	Sb	<	0.794	ug/L	EPA200.8
8/16/2017 12:05	Sb	<	0.794	ug/L	EPA200.8
8/23/2017 10:22	Sb	<	0.794	ug/L	EPA200.8
7/25/2017 10:33	Se	<	1.244	ug/L	EPA200.8
8/2/2017 9:53	Se	<	1.244	ug/L	EPA200.8
8/9/2017 9:35	Se	<	1.244	ug/L	EPA200.8
8/16/2017 12:05	Se	<	1.244	ug/L	EPA200.8
8/23/2017 10:22	Se	<	1.244	ug/L	EPA200.8
7/25/2017 10:33	Sn	<	1.336	ug/L	EPA200.8
8/2/2017 9:53	Sn	<	1.336	ug/L	EPA200.8
8/9/2017 9:35	Sn	<	1.336	ug/L	EPA200.8
8/16/2017 12:05	Sn	<	1.336	ug/L	EPA200.8
8/23/2017 10:22	Sn	<	1.336	ug/L	EPA200.8
7/25/2017 10:33	SO4		41.61	mg/L	EPA300.0
8/2/2017 9:53	SO4		67.82	mg/L	EPA300.0
8/9/2017 9:35	SO4		66.31	mg/L	EPA300.0
8/16/2017 12:05	SO4		76.41	mg/L	EPA300.0
8/23/2017 10:22	SO4		45.64	mg/L	EPA300.0
7/25/2017 10:33	Sr		579.79	ug/L	EPA200.8
8/2/2017 9:53	Sr		821.562	ug/L	EPA200.8

Brandywine Creek River Mile 3.55					
Sample Date	Parameter	Code	Result	Units	Method
8/9/2017 9:35	Sr		733.108	ug/L	EPA200.8
8/16/2017 12:05	Sr		748.35	ug/L	EPA200.8
8/23/2017 10:22	Sr		587.003	ug/L	EPA200.8
7/25/2017 10:33	TDS		460	mg/L	SM2540 C
8/2/2017 9:53	TDS		840	mg/L	SM2540 C
8/9/2017 9:35	TDS		782	mg/L	SM2540 C
8/16/2017 12:05	TDS		905	mg/L	SM2540 C
8/23/2017 10:22	TDS		550	mg/L	SM2540 C
7/25/2017 10:33	Ti		3.602	ug/L	EPA200.8
8/2/2017 9:53	Ti		2.08	ug/L	EPA200.8
8/9/2017 9:35	Ti		2.226	ug/L	EPA200.8
8/16/2017 12:05	Ti	j	1.696	ug/L	EPA200.8
8/23/2017 10:22	Ti		2.389	ug/L	EPA200.8
7/25/2017 10:33	TKN		0.698	mg/L	EPA351.2
8/2/2017 9:53	TKN		0.505	mg/L	EPA351.2
8/9/2017 9:35	TKN	j	0.434	mg/L	EPA351.2
8/16/2017 12:05	TKN	j	0.401	mg/L	EPA351.2
8/23/2017 10:22	TKN	j	0.44	mg/L	EPA351.2
7/25/2017 10:33	TI	<	0.196	ug/L	EPA200.8
8/2/2017 9:53	TI	<	0.196	ug/L	EPA200.8
8/9/2017 9:35	TI	<	0.196	ug/L	EPA200.8
8/16/2017 12:05	TI	<	0.196	ug/L	EPA200.8
8/23/2017 10:22	TI	<	0.196	ug/L	EPA200.8
7/25/2017 10:33	TMET		11.6	ug/L	EPA200.8
8/2/2017 9:53	TMET	<	10	ug/L	EPA200.8
8/9/2017 9:35	TMET	<	10	ug/L	EPA200.8
8/16/2017 12:05	TMET	<	10	ug/L	EPA200.8
8/23/2017 10:22	TMET		10.5	ug/L	EPA200.8
7/25/2017 10:33	Total-P		0.063	mg/L	EPA365.1
8/2/2017 9:53	Total-P		0.036	mg/L	EPA365.1
8/9/2017 9:35	Total-P		0.037	mg/L	EPA365.1
8/16/2017 12:05	Total-P		0.0305	mg/L	EPA365.1
8/23/2017 10:22	Total-P		0.042	mg/L	EPA365.1
7/25/2017 10:33	TS		684	mg/L	SM2540 B
8/2/2017 9:53	TS		952	mg/L	SM2540 B
8/9/2017 9:35	TS		920	mg/L	SM2540 B
8/16/2017 12:05	TS		958	mg/L	SM2540 B
8/23/2017 10:22	TS		648	mg/L	SM2540 B

## Brandywine Creek

## River Mile 3.55

Sample Date	Parameter	Code	Result	Units	Method
7/25/2017 10:33	TSS		11.9	mg/L	SM2540 D
8/2/2017 9:53	TSS		2.4	mg/L	SM2540 D
8/9/2017 9:35	TSS		7	mg/L	SM2540 D
8/16/2017 12:05	TSS		2.05	mg/L	SM2540 D
8/23/2017 10:22	TSS		6.1	mg/L	SM2540 D
7/25/2017 10:33	Turbidity		25.2	NTU	EPA180.1
8/2/2017 9:53	Turbidity		5.6	NTU	EPA180.1
8/9/2017 9:35	Turbidity		8.7	NTU	EPA180.1
8/16/2017 12:05	Turbidity		5.6	NTU	EPA180.1
8/23/2017 10:22	Turbidity		9	NTU	EPA180.1
7/25/2017 10:33	V	<	4.138	ug/L	EPA200.8
8/2/2017 9:53	V	<	4.138	ug/L	EPA200.8
8/9/2017 9:35	V	<	4.138	ug/L	EPA200.8
8/16/2017 12:05	V	<	4.138	ug/L	EPA200.8
8/23/2017 10:22	V	<	4.138	ug/L	EPA200.8
7/25/2017 10:33	Zn	j	3.463	ug/L	EPA200.8
8/2/2017 9:53	Zn	j	2.47	ug/L	EPA200.8
8/9/2017 9:35	Zn	j	2.374	ug/L	EPA200.8
8/16/2017 12:05	Zn	j	2.06	ug/L	EPA200.8
8/23/2017 10:22	Zn	j	3.576	ug/L	EPA200.8

Brandywine Creek River Mile 0.45					
Sample Date	Parameter	Code	Result	Units	Method
7/25/2017 9:52	*CaCO3		190	mg/LCaCO3	EPA200.8
8/2/2017 9:20	*CaCO3		270	mg/LCaCO3	EPA200.8
8/9/2017 9:15	*CaCO3		254	mg/LCaCO3	EPA200.8
8/16/2017 13:18	*CaCO3		270	mg/LCaCO3	EPA200.8
8/23/2017 10:01	*CaCO3		244	mg/LCaCO3	EPA200.8
7/25/2017 9:52	Ag	<	0.254	ug/L	EPA200.8
8/2/2017 9:20	Ag	<	0.254	ug/L	EPA200.8
8/9/2017 9:15	Ag	<	0.254	ug/L	EPA200.8
8/16/2017 13:18	Ag	<	0.254	ug/L	EPA200.8
8/23/2017 10:01	Ag	<	0.254	ug/L	EPA200.8
7/25/2017 9:52	Al		59.51	ug/L	EPA200.8
8/2/2017 9:20	Al		21.09	ug/L	EPA200.8
8/9/2017 9:15	Al		15.2	ug/L	EPA200.8
8/16/2017 13:18	Al		19.26	ug/L	EPA200.8
8/23/2017 10:01	Al		34.85	ug/L	EPA200.8
7/25/2017 9:52	Alkalinity		147.3	mg/LCaCO3	EPA310.2
8/2/2017 9:20	Alkalinity		167.9	mg/LCaCO3	EPA310.2
8/9/2017 9:15	Alkalinity		159.3	mg/LCaCO3	EPA310.2
8/16/2017 13:18	Alkalinity		151.8	mg/LCaCO3	EPA310.2
8/23/2017 10:01	Alkalinity		154.9	mg/LCaCO3	EPA310.2
7/25/2017 9:52	As	j	1.234	ug/L	EPA200.8
8/2/2017 9:20	As	<	1.164	ug/L	EPA200.8
8/9/2017 9:15	As	<	1.164	ug/L	EPA200.8
8/16/2017 13:18	As	<	1.164	ug/L	EPA200.8
8/23/2017 10:01	As	<	1.164	ug/L	EPA200.8
7/25/2017 9:52	Ba		38.25	ug/L	EPA200.8
8/2/2017 9:20	Ba		54.62	ug/L	EPA200.8
8/9/2017 9:15	Ba		47.76	ug/L	EPA200.8
8/16/2017 13:18	Ba		51.44	ug/L	EPA200.8
8/23/2017 10:01	Ba		47.93	ug/L	EPA200.8
7/25/2017 9:52	Be	<	0.188	ug/L	EPA200.8
8/2/2017 9:20	Be	<	0.188	ug/L	EPA200.8
8/9/2017 9:15	Be	<	0.188	ug/L	EPA200.8
8/16/2017 13:18	Be	<	0.188	ug/L	EPA200.8
8/23/2017 10:01	Be	<	0.188	ug/L	EPA200.8
7/25/2017 9:52	BOD		3.5	mg/L	SM5210 B
8/2/2017 9:20	BOD		2.6	mg/L	SM5210 B
8/9/2017 9:15	BOD	<	2	mg/L	SM5210 B
8/16/2017 13:18	BOD	<	2	mg/L	SM5210 B

Brandywine Creek						
River Mile 0.45						
Sample Date	Parameter	Code	Result	Units	Method	
8/23/2017 10:01	BOD	<	2	mg/L	SM5210 B	
7/25/2017 9:52	Ca		56870	ug/L	EPA200.8	
8/2/2017 9:20	Ca		77840	ug/L	EPA200.8	
8/9/2017 9:15	Ca		75380	ug/L	EPA200.8	
8/16/2017 13:18	Ca		75870	ug/L	EPA200.8	
8/23/2017 10:01	Ca		69780	ug/L	EPA200.8	
7/25/2017 9:52	Cd	<	0.106	ug/L	EPA200.8	
8/2/2017 9:20	Cd	<	0.106	ug/L	EPA200.8	
8/9/2017 9:15	Cd	<	0.106	ug/L	EPA200.8	
8/16/2017 13:18	Cd	<	0.106	ug/L	EPA200.8	
8/23/2017 10:01	Cd	<	0.106	ug/L	EPA200.8	
7/25/2017 9:52	Chloride		142.8	mg/L	EPA300.0	
8/2/2017 9:20	Chloride		251	mg/L	EPA300.0	
8/9/2017 9:15	Chloride		228.1	mg/L	EPA300.0	
8/16/2017 13:18	Chloride		255.1	mg/L	EPA300.0	
8/23/2017 10:01	Chloride		229.5	mg/L	EPA300.0	
7/25/2017 9:52	Co	j	0.197	ug/L	EPA200.8	
8/2/2017 9:20	Co	j	0.242	ug/L	EPA200.8	
8/9/2017 9:15	Co	j	0.211	ug/L	EPA200.8	
8/16/2017 13:18	Co	j	0.228	ug/L	EPA200.8	
8/23/2017 10:01	Co	j	0.211	ug/L	EPA200.8	
7/25/2017 9:52	COD		16.9	mg/L	EPA410.4	
8/2/2017 9:20	COD		10.9	mg/L	EPA410.4	
8/9/2017 9:15	COD		14.7	mg/L	EPA410.4	
8/16/2017 13:18	COD		16	mg/L	EPA410.4	
8/23/2017 10:01	COD		13.9	mg/L	EPA410.4	
7/25/2017 9:52	Cr	j	1.586	ug/L	EPA200.8	
8/2/2017 9:20	Cr	j	1.242	ug/L	EPA200.8	
8/9/2017 9:15	Cr	j	1.174	ug/L	EPA200.8	
8/16/2017 13:18	Cr	j	1.458	ug/L	EPA200.8	
8/23/2017 10:01	Cr	j	1.758	ug/L	EPA200.8	
7/25/2017 9:52	Cu		2.82	ug/L	EPA200.8	
8/2/2017 9:20	Cu		2.601	ug/L	EPA200.8	
8/9/2017 9:15	Cu		2.635	ug/L	EPA200.8	
8/16/2017 13:18	Cu		2.328	ug/L	EPA200.8	
8/23/2017 10:01	Cu		2.085	ug/L	EPA200.8	
7/25/2017 9:52	DRPhos		0.013	mg/L	EPA365.1	
8/2/2017 9:20	DRPhos	j	0.004	mg/L	EPA365.1	



Brandywine Creek						
River Mile 0.45						
Sample Date	Parameter	Code	Result	Units	Method	
8/9/2017 9:15	DRPhos	j	0.002	mg/L	EPA365.1	
8/16/2017 13:18	DRPhos	j	0.004	mg/L	EPA365.1	
8/23/2017 10:01	DRPhos	j	0.002	mg/L	EPA365.1	
7/25/2017 9:52	E. coli		166	MPN/100 mL	SM9223 Colilert	
8/2/2017 9:20	E. coli		62	MPN/100 mL	SM9223 Colilert	
8/9/2017 9:15	E. coli		328	MPN/100 mL	SM9223 Colilert	
8/16/2017 13:18	E. coli		37	MPN/100 mL	SM9223 Colilert	
8/23/2017 10:01	E. coli		566	MPN/100 mL	SM9223 Colilert	
7/25/2017 9:52	Fe		527.2	ug/L	EPA200.8	
8/2/2017 9:20	Fe		422.5	ug/L	EPA200.8	
8/9/2017 9:15	Fe		371.9	ug/L	EPA200.8	
8/16/2017 13:18	Fe		327	ug/L	EPA200.8	
8/23/2017 10:01	Fe		348.9	ug/L	EPA200.8	
7/25/2017 9:52	Field Cond		756	umhos/cm	SM 2510A	
8/2/2017 9:20	Field Cond		1235	umhos/cm	SM 2510A	
8/9/2017 9:15	Field Cond		1001	umhos/cm	SM 2510A	
8/16/2017 13:18	Field Cond		1194	umhos/cm	SM 2510A	
8/23/2017 10:01	Field Cond		1091	umhos/cm	SM 2510A	
7/25/2017 9:52	Field Spec Cond		840	umhos/cm	SM 2510B	
8/2/2017 9:20	Field Spec Cond		1334	umhos/cm	SM 2510B	
8/9/2017 9:15	Field Spec Cond		1151	umhos/cm	SM 2510B	
8/16/2017 13:18	Field Spec Cond		1271	umhos/cm	SM 2510B	
8/23/2017 10:01	Field Spec Cond		1189	umhos/cm	SM 2510B	
7/25/2017 9:52	Field DO		9.1	mg/L	SM 4500-0 G	
8/2/2017 9:20	Field DO		7.8	mg/L	SM 4500-0 G	
8/9/2017 9:15	Field DO		8.4	mg/L	SM 4500-0 G	
8/16/2017 13:18	Field DO		9.2	mg/L	SM 4500-0 G	
8/23/2017 10:01	Field DO		8.7	mg/L	SM 4500-0 G	
7/25/2017 9:52	Field DO		99	%		
8/2/2017 9:20	Field DO		88	%		
8/9/2017 9:15	Field DO		90	%		
8/16/2017 13:18	Field DO		105	%		
8/23/2017 10:01	Field DO		97	%		
7/25/2017 9:52	Field Temp		19.8	C	EPA 170.1	
8/2/2017 9:20	Field Temp		21.1	C	EPA 170.1	
8/9/2017 9:15	Field Temp		18.2	C	EPA 170.1	
8/16/2017 13:18	Field Temp		21.8	C	EPA 170.1	
8/23/2017 10:01	Field Temp		20.7	C	EPA 170.1	

## Brandywine Creek

## River Mile 0.45

Sample Date	Parameter	Code	Result	Units	Method
7/25/2017 9:52	Hg	<	0.025	ug/L	EPA245.1
8/2/2017 9:20	Hg	<	0.025	ug/L	EPA245.1
8/9/2017 9:15	Hg	<	0.025	ug/L	EPA245.1
8/16/2017 13:18	Hg	<	0.025	ug/L	EPA245.1
8/23/2017 10:01	Hg	<	0.025	ug/L	EPA245.1
7/25/2017 9:52	K		3903	ug/L	EPA200.8
8/2/2017 9:20	K		4215	ug/L	EPA200.8
8/9/2017 9:15	K		4128	ug/L	EPA200.8
8/16/2017 13:18	K		4109	ug/L	EPA200.8
8/23/2017 10:01	K		4011	ug/L	EPA200.8
7/25/2017 9:52	Mg		11610	ug/L	EPA200.8
8/2/2017 9:20	Mg		18260	ug/L	EPA200.8
8/9/2017 9:15	Mg		15920	ug/L	EPA200.8
8/16/2017 13:18	Mg		19600	ug/L	EPA200.8
8/23/2017 10:01	Mg		17030	ug/L	EPA200.8
7/25/2017 9:52	Mn		13.14	ug/L	EPA200.8
8/2/2017 9:20	Mn		22.79	ug/L	EPA200.8
8/9/2017 9:15	Mn		21.54	ug/L	EPA200.8
8/16/2017 13:18	Mn		26.28	ug/L	EPA200.8
8/23/2017 10:01	Mn		12.59	ug/L	EPA200.8
7/25/2017 9:52	Mo		3.005	ug/L	EPA200.8
8/2/2017 9:20	Mo		3.828	ug/L	EPA200.8
8/9/2017 9:15	Mo		3.324	ug/L	EPA200.8
8/16/2017 13:18	Mo		3.46	ug/L	EPA200.8
8/23/2017 10:01	Mo		3.557	ug/L	EPA200.8
7/25/2017 9:52	Na		87420	ug/L	EPA200.8
8/2/2017 9:20	Na		144700	ug/L	EPA200.8
8/9/2017 9:15	Na		145900	ug/L	EPA200.8
8/16/2017 13:18	Na		147400	ug/L	EPA200.8
8/23/2017 10:01	Na		127500	ug/L	EPA200.8
7/25/2017 9:52	NH3	<	0.01	mg/L	EPA350.1
8/2/2017 9:20	NH3	<	0.01	mg/L	EPA350.1
8/9/2017 9:15	NH3	<	0.01	mg/L	EPA350.1
8/16/2017 13:18	NH3	<	0.01	mg/L	EPA350.1
8/23/2017 10:01	NH3	<	0.01	mg/L	EPA350.1
7/25/2017 9:52	Ni	j	2.993	ug/L	EPA200.8
8/2/2017 9:20	Ni	j	3.116	ug/L	EPA200.8
8/9/2017 9:15	Ni	j	2.818	ug/L	EPA200.8
8/16/2017 13:18	Ni	j	2.789	ug/L	EPA200.8

Brandywine Creek River Mile 0.45					
Sample Date	Parameter	Code	Result	Units	Method
8/23/2017 10:01	Ni	j	2.563	ug/L	EPA200.8
7/25/2017 9:52	NO3-NO2		0.205	mg/L	EPA353.2
8/2/2017 9:20	NO3-NO2	<	0.01	mg/L	EPA353.2
8/9/2017 9:15	NO3-NO2	<	0.01	mg/L	EPA353.2
8/16/2017 13:18	NO3-NO2	<	0.01	mg/L	EPA353.2
8/23/2017 10:01	NO3-NO2		0.05	mg/L	EPA353.2
7/25/2017 9:52	Pb	j	0.174	ug/L	EPA200.8
8/2/2017 9:20	Pb	<	0.168	ug/L	EPA200.8
8/9/2017 9:15	Pb	<	0.168	ug/L	EPA200.8
8/16/2017 13:18	Pb	<	0.168	ug/L	EPA200.8
8/23/2017 10:01	Pb	<	0.168	ug/L	EPA200.8
7/25/2017 9:52	pH		8.1	S.U.	
8/2/2017 9:20	pH		7.5	S.U.	
8/9/2017 9:15	pH		7.6	S.U.	
8/16/2017 13:18	pH		7.9	S.U.	
8/23/2017 10:01	pH		7.9	S.U.	
7/25/2017 9:52	Sb	<	0.794	ug/L	EPA200.8
8/2/2017 9:20	Sb	<	0.794	ug/L	EPA200.8
8/9/2017 9:15	Sb	<	0.794	ug/L	EPA200.8
8/16/2017 13:18	Sb	<	0.794	ug/L	EPA200.8
8/23/2017 10:01	Sb	<	0.794	ug/L	EPA200.8
7/25/2017 9:52	Se	<	1.244	ug/L	EPA200.8
8/2/2017 9:20	Se	<	1.244	ug/L	EPA200.8
8/9/2017 9:15	Se	<	1.244	ug/L	EPA200.8
8/16/2017 13:18	Se	<	1.244	ug/L	EPA200.8
8/23/2017 10:01	Se	<	1.244	ug/L	EPA200.8
7/25/2017 9:52	Sn	<	1.336	ug/L	EPA200.8
8/2/2017 9:20	Sn	<	1.336	ug/L	EPA200.8
8/9/2017 9:15	Sn	<	1.336	ug/L	EPA200.8
8/16/2017 13:18	Sn	<	1.336	ug/L	EPA200.8
8/23/2017 10:01	Sn	<	1.336	ug/L	EPA200.8
7/25/2017 9:52	SO4		42.31	mg/L	EPA300.0
8/2/2017 9:20	SO4		71.64	mg/L	EPA300.0
8/9/2017 9:15	SO4		67.86	mg/L	EPA300.0
8/16/2017 13:18	SO4		72.94	mg/L	EPA300.0
8/23/2017 10:01	SO4		63.16	mg/L	EPA300.0
7/25/2017 9:52	Sr		556.087	ug/L	EPA200.8
8/2/2017 9:20	Sr		739.09	ug/L	EPA200.8

Brandywine Creek River Mile 0.45					
Sample Date	Parameter	Code	Result	Units	Method
8/9/2017 9:15	Sr		641.186	ug/L	EPA200.8
8/16/2017 13:18	Sr		678.791	ug/L	EPA200.8
8/23/2017 10:01	Sr		673.13	ug/L	EPA200.8
7/25/2017 9:52	TDS		462	mg/L	SM2540 C
8/2/2017 9:20	TDS		746	mg/L	SM2540 C
8/9/2017 9:15	TDS		686	mg/L	SM2540 C
8/16/2017 13:18	TDS		718	mg/L	SM2540 C
8/23/2017 10:01	TDS		668	mg/L	SM2540 C
7/25/2017 9:52	Ti	j	1.861	ug/L	EPA200.8
8/2/2017 9:20	Ti	j	1.178	ug/L	EPA200.8
8/9/2017 9:15	Ti	j	1.201	ug/L	EPA200.8
8/16/2017 13:18	Ti	j	0.895	ug/L	EPA200.8
8/23/2017 10:01	Ti	j	1.387	ug/L	EPA200.8
7/25/2017 9:52	TKN	j	0.432	mg/L	EPA351.2
8/2/2017 9:20	TKN	j	0.334	mg/L	EPA351.2
8/9/2017 9:15	TKN	j	0.317	mg/L	EPA351.2
8/16/2017 13:18	TKN	<	0.237	mg/L	EPA351.2
8/23/2017 10:01	TKN	j	0.464	mg/L	EPA351.2
7/25/2017 9:52	TI	<	0.196	ug/L	EPA200.8
8/2/2017 9:20	TI	<	0.196	ug/L	EPA200.8
8/9/2017 9:15	TI	<	0.196	ug/L	EPA200.8
8/16/2017 13:18	TI	<	0.196	ug/L	EPA200.8
8/23/2017 10:01	TI	<	0.196	ug/L	EPA200.8
7/25/2017 9:52	TMET	<	10	ug/L	EPA200.8
8/2/2017 9:20	TMET	<	10	ug/L	EPA200.8
8/9/2017 9:15	TMET	<	10	ug/L	EPA200.8
8/16/2017 13:18	TMET	<	10	ug/L	EPA200.8
8/23/2017 10:01	TMET	<	10	ug/L	EPA200.8
7/25/2017 9:52	Total-P		0.029	mg/L	EPA365.1
8/9/2017 9:15	Total-P		0.012	mg/L	EPA365.1
8/16/2017 13:18	Total-P		0.01	mg/L	EPA365.1
8/23/2017 10:01	Total-P		0.016	mg/L	EPA365.1
7/25/2017 9:52	TS		588	mg/L	SM2540 B
8/2/2017 9:20	TS		840	mg/L	SM2540 B
8/9/2017 9:15	TS		772	mg/L	SM2540 B
8/16/2017 13:18	TS		808	mg/L	SM2540 B
8/23/2017 10:01	TS		672	mg/L	SM2540 B
7/25/2017 9:52	TSS		3.2	mg/L	SM2540 D

## Brandywine Creek

## River Mile 0.45

Sample Date	Parameter	Code	Result	Units	Method
8/2/2017 9:20	TSS		1.7	mg/L	SM2540 D
8/9/2017 9:15	TSS		1.7	mg/L	SM2540 D
8/16/2017 13:18	TSS		1.3	mg/L	SM2540 D
8/23/2017 10:01	TSS		2.4	mg/L	SM2540 D
7/25/2017 9:52	Turbidity		6.4	NTU	EPA180.1
8/2/2017 9:20	Turbidity		3	NTU	EPA180.1
8/9/2017 9:15	Turbidity		2.2	NTU	EPA180.1
8/16/2017 13:18	Turbidity		2.1	NTU	EPA180.1
8/23/2017 10:01	Turbidity		3.5	NTU	EPA180.1
7/25/2017 9:52	V	<	4.138	ug/L	EPA200.8
8/2/2017 9:20	V	<	4.138	ug/L	EPA200.8
8/9/2017 9:15	V	<	4.138	ug/L	EPA200.8
8/16/2017 13:18	V	<	4.138	ug/L	EPA200.8
8/23/2017 10:01	V	<	4.138	ug/L	EPA200.8
7/25/2017 9:52	Zn	j	1.291	ug/L	EPA200.8
8/2/2017 9:20	Zn	j	1.562	ug/L	EPA200.8
8/9/2017 9:15	Zn	j	0.942	ug/L	EPA200.8
8/16/2017 13:18	Zn	j	0.762	ug/L	EPA200.8
8/23/2017 10:01	Zn	j	1.177	ug/L	EPA200.8