

APPENDIX I
WATERBODY CROSSINGS

APPENDIX I

Perennial and Intermittent Waterbodies Crossed by the Mid-Atlantic Express Pipeline

MP	Name	Type	Crossing Width (ft)	Linear Impact (ft)	Area of Construction Impact (ac)	Crossing Method <u>b/</u>	Seasonal Restriction <u>d/</u>	303 (d) List Water Quality Classification <u>a/</u>	State Fishery Classification <u>c/</u>
Baltimore Co., Maryland									
0.75	Humphrey Creek/Canal Water Treatment Facility	Perennial	112	50	0.13	2B	none	NE	I
4.79	Unnamed tributary to Bread and Cheese Creek	Intermittent	5	50	0.01	2A or 2B	March 1 – May 31	MD 5	IV-P
4.85	Unnamed tributary to Bread and Cheese Creek	Intermittent	5	50	0.01	2A or 2B	March 1 – May 31	MD 5	IV-P
6.86	Bread and Cheese Creek	Perennial	18	29	0.01	1	March 1 – May 31	MD 5	IV-P
7.03	unnamed tributary to Bread and Cheese Creek	Perennial	6	120	0.02	2A or 2B	March 1 – May 31	MD 5	IV-P
7.2	unnamed tributary to Bread and Cheese Creek	Intermittent	5	65	0.01	2A or 2B	March 1 – May 31	MD 5	IV-P
7.27	unnamed tributary to Bread and Cheese Creek	Intermittent	4	76	0.01	2A or 2B	March 1 – May 31	MD 5	IV-P
7.4	unnamed tributary to Bread and Cheese Creek	Perennial	4	78	0.01	2A or 2B	March 1 – May 31	MD 5	IV-P
7.97	Branch of Back River	Perennial	18	79	0.03	2A or 2B	March 1 – June 15	MD 2, 4a, 5	I
8.6	unnamed tributary to Branch of Back River	Intermittent	10	0	0	NA	March 1 – June 15	MD 2, 4a, 5	I
8.71	Back River	Perennial	260	0	0	4	March 1 – June 15	MD 2, 4a, 5	I
9.77	unnamed tributary to Northeast Creek	Perennial	6	89	0.01	2A or 2B	March 1 – June 15	NE	I
10.27	unnamed tributary to Northeast Creek	Perennial	10	51	0.01	2A or 2B	March 1 – June 15	NE	I
10.42	unnamed tributary to Northeast Creek	Perennial	18	77	0.03	3	March 1 – June 15	NE	I
11.17	Stemmers Run	Perennial	15	78	0.03	3	March 1 – June 15	MD 5	I
11.21	unnamed tributary to Stemmers Run	Intermittent	4	99	0.01	1	March 1 – June 15	MD 5	I
11.3	unnamed tributary to Brien Run	Intermittent	4	0	0	NA	March 1 – June 15	MD 5	I
11.53	Brien Run - 1	Perennial	12	149	0.04	3	March 1 – June 15	MD 5	I

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11.6	Brien Run - 2	Perennial	12	153	0.04	3	March 1 – June 15	MD 5	I
12.87	unnamed tributary to Brien Run - 2	Perennial	8	90	0.02	2A or 2B	March 1 – June 15	MD 5	I
13.35	unnamed tributary to White Marsh Run - 1	Intermittent	1	82	0	2A or 2B	March 1 – May 31	NE	IV
14.2	unnamed tributary to White Marsh Run - 1	Perennial	5	0	0	NA	March 1 – May 31	MD 5	IV
14.38	White Marsh Run - 1	Perennial	80	68	0.13	3, 4 *	March 1 – June 15	MD 5	IV
14.8	unnamed tributary to White Marsh Run - 1	Perennial	24	0	0	NA	March 1 – May 31	MD 5	IV
14.9	unnamed tributary to White Marsh Run - 1	Perennial	30	93	0.06	2A or 2B	March 1 – May 31	MD 5	IV
15.09	White Marsh Run - 2	Perennial	25	105	0.06	3	March 1 – May 31	MD 5	IV
15.5	White Marsh Run - 3	Perennial	50	75	0.09	2A or 2B	March 1 – May 31	MD 5	IV
15.57	unnamed tributary to White Marsh Run – 3	Intermittent	8	77	0.01	1	March 1 – May 31	MD 5	IV
15.81	unnamed tributary to White Marsh Run – 3	Perennial	4	96	0.01	2A or 2B	March 1 – May 31	MD 5	IV
16.48	unnamed tributary to White Marsh Run – 3	Intermittent	6	82	0.01	1	March 1 – May 31	MD 5	IV
16.69	unnamed tributary to White Marsh Run – 3	Perennial	7	91	0.01	2A or 2B	March 1 – May 31	MD 5	IV
16.87	unnamed tributary to White Marsh Run – 3	Intermittent	4	118	0.01	1	March 1 – May 31	MD 5	IV
16.88	unnamed tributary to White Marsh Run – 3	Perennial	4	125	0.01	2A or 2B	March 1 – May 31	MD 5	IV
17.11	unnamed tributary to White Marsh Run – 3	Intermittent	7	73	0.01	1	March 1 – May 31	MD 5	IV
17.14	unnamed tributary to White Marsh Run – 3	Intermittent	7	87	0.01	1	March 1 – May 31	MD 5	IV
18.28	Gunpowder Falls	Perennial	90	75	0.15	5	March 1 – June 15	MD 3, 5	I
19.18	unnamed tributary to Gunpowder Falls	Perennial	8	44	0.01	2A or 2B	March 1 – June 15	MD 3, 5	I

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19.2	unnamed tributary to Gunpowder Falls	Perennial	12	155	0.04	2A or 2B	March 1 – June 15	MD 3, 5	I
20.64	unnamed tributary to Gunpowder Falls	Perennial	16	121	0.04	2A or 2B	March 1 – June 15	MD 3, 5	I
20.68	unnamed tributary to Little Gunpowder Falls	Perennial	6	146	0.02	2A or 2B	October 1 – April 30	MD 3, 5	III
21.23	unnamed tributary to Little Gunpowder Falls	Perennial	16	112	0.04	2A or 2B	October 1 – April 30	MD 3, 5	III
22.22	Little Gunpowder Falls	Perennial	51	0	0	4	October 1 – April 30	MD 3, 5	III
Harford Co., Maryland									
23.39	Wildcat Branch	Perennial	8	89	0.02	2A or 2B	October 1 – April 30	NE	III
23.89	unnamed tributary to Wildcat Branch	Perennial	4	171	0.02	2A or 2B	October 1 – April 30	NE	III
24.96	unnamed tributary to Elbow Brook	Intermittent	9	54	0.01	1	March 1 – May 31	NE	IV-P
25.34	unnamed tributary to Elbow Brook	Perennial	4	172	0.02	2A or 2B	March 1 – May 31	NE	IV-P
25.36	Elbow Brook - 1	Perennial	11	94	0.02	2A or 2B	March 1 – May 31	NE	IV-P
25.49	Elbow Brook - 2	Perennial	11	204	0.05	2A or 2B	March 1 – May 31	NE	IV-P
25.92	unnamed tributary to Elbow Brook - 2	Perennial	9	0	0	NA	March 1 – May 31	NE	IV-P
27.01	unnamed tributary to Winters Run	Intermittent	5	80	0.01	2A or 2B	March 1 – May 31	MD 3, 4a, 5	IV-P
27.47	Winters Run	Perennial	44	90	0.09	3, 4 [*]	March 1 – May 31	MD 3, 4a, 5	IV-P
28.16	Long Branch - 1	Perennial	24	73	0.04	3	March 1 – May 31	NE	IV-P
28.22	Long Branch - 2	Intermittent	5	88	0.01	3	March 1 – May 31	NE	IV-P
28.35	unnamed tributary to Long Branch - 2	Perennial	9	70	0.01	2A or 2B	March 1 – May 31	NE	IV-P
28.63	unnamed tributary to Long Branch - 2	Perennial	6	79	0.01	2A or 2B	March 1 – May 31	NE	IV-P
29.28	unnamed tributary to Long Branch - 2	Perennial	5	84	0.01	2A or 2B	March 1 – May 31	NE	IV-P

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29.73	unnamed tributary to Long Branch - 2	Perennial	5	100	0.01	2A or 2B	March 1 – May 31	NE	IV-P
30.61	unnamed tributary to Stirrup Run	Perennial	5	120	0.01	2A or 2B	March 1 – May 31	MD 3	IV-P
30.71	unnamed tributary to Stirrup Run	Perennial	5	76	0.01	2A or 2B	March 1 – May 31	MD 3	IV-P
30.8	unnamed tributary to Stirrup Run	Perennial	6	17	0	2A or 2B	March 1 – May 31	MD 3	IV-P
30.8	unnamed tributary to Stirrup Run	Intermittent	5	81	0.01	1	March 1 – May 31	MD 3	IV-P
30.84	unnamed tributary to Stirrup Run	Perennial	5	148	0.02	2A or 2B	March 1 – May 31	MD 3	IV-P
31.06	unnamed tributary to Stirrup Run	Intermittent	6	80	0.01	1	March 1 – May 31	MD 3	IV-P
31.67	Stirrup Run	Perennial	7	125	0.02	2A or 2B	March 1 – May 31	MD 3	IV-P
31.71	unnamed tributary to Stirrup Run	Perennial	3	61	0	2A or 2B	March 1 – May 31	MD 3	IV-P
31.88	unnamed tributary to Stirrup Run	Perennial	6	10	0	2A or 2B	March 1 – May 31	MD 3	IV-P
32.13	unnamed tributary to Stirrup Run	Intermittent	6	77	0.01	1	March 1 – May 31	MD 3	IV-P
32.39	unnamed tributary to Stirrup Run	Perennial	5	90	0.01	2A or 2B	March 1 – May 31	MD 3	IV-P
33.32	unnamed tributary to Deer Creek	Perennial	8	150	0.03	2A or 2B	March 1 – May 31	MD 2, 3a, 5	IV-P
33.36	unnamed tributary to Deer Creek	Intermittent	5	77	0.01	1	March 1 – May 31	MD 2, 3a, 5	IV-P
33.8	unnamed tributary to Deer Creek	Perennial	6	169	0.02	2A or 2B	March 1 – May 31	MD 2, 3a, 5	IV-P
34.41	unnamed tributary to Deer Creek	Intermittent	3	0	0	NA	March 1 – May 31	MD 2, 3a, 5	IV-P
34.48	unnamed tributary to Deer Creek	Intermittent	6	81	0.01	1	March 1 – May 31	MD 2, 3a, 5	IV-P
34.88	unnamed tributary to Deer	Intermittent	3	50	0	1	March 1 – May 31	MD 2, 3a, 5	IV-P

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	Creek								
35.54	Deer Creek	Perennial	100	75	0.17	2A or 2B	March 1 – May 31	MD 2, 3a, 5	IV-P
35.99	unnamed tributary to Deer Creek	Perennial	5	96	0.01	2A or 2B	March 1 – May 31	MD 2, 3a, 5	IV-P
36.07	unnamed tributary to Deer Creek	Intermittent	5	163	0.02	1	March 1 – May 31	MD 2, 3a, 5	IV-P
37.5	unnamed tributary to Deer Creek	Perennial	5	113	0.01	2A or 2B	March 1 – May 31	MD 2, 3a, 5	IV-P
38.12	unnamed tributary to Deer Creek	Intermittent	1	0	0	NA	March 1 – May 31	MD 2, 3a, 5	IV-P
38.13	unnamed tributary to Deer Creek	Intermittent	4	79	0.01	1	March 1 – May 31	MD 2, 3a, 5	IV-P
38.22	unnamed tributary to Deer Creek	Intermittent	6	72	0.01	1	March 1 – May 31	MD 2, 3a, 5	IV-P
38.26	unnamed tributary to Deer Creek	Intermittent	8	90	0.02	1	March 1 – May 31	MD 2, 3a, 5	IV-P
38.31	unnamed tributary to Deer Creek	Intermittent	6	0	0	NA	March 1 – May 31	MD 2, 3a, 5	IV-P
38.7	unnamed tributary to Deer Creek	Intermittent	6	125	0.02	1	March 1 – May 31	MD 2, 3a, 5	IV-P
38.73	unnamed tributary to Deer Creek	Intermittent	3	77	0.01	1	March 1 – May 31	MD 2, 3a, 5	IV-P
38.75	unnamed tributary to Deer Creek	Perennial	6	170	0.02	2A or 2B	March 1 – May 31	MD 2, 3a, 5	IV-P
39.06	unnamed tributary to Deer Creek	Perennial	6	84	0.01	2A or 2B	March 1 – May 31	MD 2, 3a, 5	IV-P
39.16	unnamed tributary to Deer Creek	Perennial	6	74	0.01	2A or 2B	March 1 – May 31	MD 2, 3a, 5	IV-P
39.78	unnamed tributary to Deer Creek	Intermittent	4	84	0.01	1	March 1 – May 31	MD 2, 3a, 5	IV-P
41.79	Peddler Run	Perennial	12	78	0.02	2A or 2B	March 1 – June 15	NE	I-P
42.61	Peddler Run	Perennial	13	100	0.03	2A or 2B	March 1 – June 15	NE	I-P
43.25	Peddler Run	Perennial	4	78	0.01	2A or 2B	March 1 – June 15	NE	I-P

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43.63	Peddler Run	Perennial	14	78	0.03	2A or 2B	March 1 – June 15	NE	I-P
Cecil Co., Maryland									
44.23	Susquehanna River	Perennial	3115.2	0	0	4	March 1 – June 15	MD 2, 3, 5	I-P
45.23	unnamed tributary to Conowingo Creek	Intermittent	12	0	0	NA	March 1 – June 15	NE	I-P
45.24	unnamed tributary to Conowingo Creek	Intermittent	10	0	0	NA	March 1 – June 15	NE	I-P
45.27	Conowingo Creek	Perennial	30	118	0.08	2B	March 1 – June 15	NE	I-P
45.54	unnamed tributary to Conowingo Creek	Perennial	20	78	0.04	3	March 1 – June 15	NE	I-P
46.17	unnamed outflow for wetland 670WA1	Intermittent	1	63	0	1	March 1 – June 15	NE	I-P
47.15	unnamed tributary to Conowingo Creek	Perennial	8	90	0.02	2A or 2B	March 1 – June 15	NE	I-P
Lancaster Co., Pennsylvania									
49.5	unnamed tributary to Octoraro Creek	Perennial	6	117	0.02	2A or 2B	none	PA 2, 3	TSF
49.72	unnamed tributary to Octoraro Creek	Perennial	10	84	0.02	2A or 2B	none	PA 2, 3	TSF
50.36	unnamed tributary to Reynolds Run	Perennial	8	80	0.01	2A or 2B	none	NE	HQ
50.88	unnamed tributary to Reynolds Run	Perennial	25	70	0.04	3	none	NE	HQ
50.89	unnamed tributary to Reynolds Run	Intermittent	5	81	0.01	2A or 2B	none	NE	HQ
50.89	unnamed tributary to Reynolds Run	Intermittent	5	0	0	NA	none	NE	HQ
51.59	Reynolds Run	Perennial	20	0	0	NA	none	NE	HQ
51.6	unnamed tributary to Reynolds Run	Perennial	25	72	0.04	2A or 2B	none	NE	HQ
51.96	Reynolds Run	Intermittent	6	111	0.02	1	none	NE	HQ

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53.32	unnamed tributary to Octoraro Creek	Intermittent	2	79	0	1	none	PA 2, 3	TSF
53.93	unnamed tributary to Octoraro Creek	Perennial	12	77	0.02	3	none	PA 2, 3	TSF
54.57	unnamed tributary to Octoraro Creek	Perennial	2	95	0	2A or 2B	none	PA 2, 3	TSF
54.77	Reynolds Run	Perennial	6	55	0.01	2A or 2B	none	NE	HQ
54.82	Reynolds Run	Perennial	20	77	0.04	2A or 2B	none	NE	HQ
55.47	McCreary Run	Perennial	10	78	0.02	2A or 2B	none	PA 2	HQ
56.01	unnamed tributary to Octoraro Creek	Perennial	6	79	0.01	2A or 2B	none	PA 2, 3	WWF
Lancaster/Chester Co., Pennsylvania									
56.31	Octoraro Creek	Perennial	70	77	0.12	2B, 4 [*]	March 1 – June 15	PA 2, 3	WWF
Chester Co., Pennsylvania									
56.93	Tweed Creek	Perennial	40	78	0.07	2A or 2B	none	PA 2, 3	TSF
58.09	Leech Run	Perennial	60	103	0.14	2A or 2B	none	PA 2, 3	TSF
61.17	unnamed tributary to Muddy Run	Perennial	1	41	0	2A or 2B	none	NE	TSF
61.18	unnamed tributary to Muddy Run	Intermittent	1	86	0	1	none	NE	TSF
61.18	unnamed tributary to Muddy Run	Perennial	10	86	0.02	2A or 2B	none	NE	TSF
61.19	unnamed tributary to Muddy Run	Perennial	4	32	0	2A or 2B	none	NE	TSF
62.34	unnamed tributary to Muddy Run	Intermittent	4	0	0	NA	none	NE	TSF
62.44	unnamed tributary to Muddy Run	Perennial	10	86	0.02	2A or 2B	none	NE	TSF
62.92	unnamed tributary to Rattlesnake Run	Perennial	8	100	0.02	2A or 2B	none	NE	TSF

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63.93	unnamed tributary to East Elk Creek	Perennial	2	116	0.01	2A or 2B	none	NE	TSF
64.04	unnamed tributary to East Elk Creek	Intermittent	3	29	0	1	none	NE	TSF
64.16	unnamed tributary to East Elk Creek	Intermittent	4	0	0	NA	none	NE	TSF
64.17	unnamed tributary to East Elk Creek	Intermittent	3	0	0	NA	none	NE	TSF
64.24	unnamed tributary to East Elk Creek	Intermittent	2	53	0	1	none	NE	TSF
64.25	unnamed tributary to East Elk Creek	Intermittent	3	86	0.01	1	none	NE	TSF
64.27	unnamed tributary to East Elk Creek	Intermittent	10	80	0.02	1	none	NE	TSF
64.77	unnamed tributary to East Elk Creek	Intermittent	5	50	0.01	2A or 2B	none	NE	TBD
65.13	unnamed tributary to East Elk Creek	Intermittent	4	64	0.01	1	none	NE	TSF
66.02	unnamed tributary to Doe Run	Intermittent	4	78	0.01	1	none	PA 2, 3, 5	TSF
66.24	unnamed tributary to Doe Run	Perennial	4	88	0.01	2A or 2B	none	PA 2, 3, 5	TSF
66.25	unnamed tributary to Doe Run	Perennial	4	102	0.01	2A or 2B	none	PA 2, 3, 5	TSF
66.46	unnamed tributary to Doe Run	Intermittent	2	54	0	1	none	PA 2, 3, 5	TSF
67.15	unnamed tributary to Doe Run	Perennial	6	87	0.01	2A or 2B	none	PA 2, 3, 5	TSF
67.48	unnamed tributary to Doe Run	Perennial	8	77	0.01	2A or 2B	none	PA 2, 3, 5	TSF
69.28	Doe Run	Perennial	35	50	0.04	2A or 2B	none	PA 2, 3, 5	TSF
69.88	unnamed tributary to Doe Run	Perennial	6	62	0.01	2A or 2B	none	PA 2, 3, 5	TSF
69.92	unnamed tributary to Doe Run	Perennial	8	75	0.01	2A or 2B	none	PA 2, 3, 5	TSF
70.35	unnamed tributary to Doe Run	Intermittent	5	157	0.02	1	none	PA 2, 3, 5	TSF
70.52	unnamed tributary to Buck Run	Perennial	5	105	0.01	2A or 2B	none	PA 2,3, 4c, 5	TSF
71.38	unnamed tributary to Buck Run	Intermittent	6	122	0.02	TBD	none	PA 2,3, 4c, 5	TSF
71.4	unnamed tributary to Buck Run	Intermittent	6	76	0.01	TBD	none	PA 2,3, 4c, 5	TSF

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72.14	Buck Run	Perennial	50	78	0.09	3	March 1 – June 15	PA 2,3, 4c, 5	TSF
73.61	unnamed tributary to Doe Run	Perennial	6	151	0.02	2A or 2B	none	PA 2, 4a, 5	WWF
73.62	unnamed tributary to Doe Run	Perennial	6	45	0.01	2A or 2B	none	PA 2, 4a, 5	WWF
74.19	West Branch Brandywine Creek	Perennial	70	75	0.12	3	March 1 – June 15	PA 2, 4a, 5	WWF
74.38	unnamed tributary to Brandywine Creek	Intermittent	3	115	0.01	1	none	PA 2, 4a, 5	CWF
75.14	unnamed tributary to Brandywine Creek	Perennial	6	103	0.01	2A or 2B	none	PA 2, 4a, 5	CWF
75.17	unnamed tributary to Brandywine Creek	Perennial	7	99	0.02	2A or 2B	none	PA 2, 4a, 5	CWF
75.57	unnamed tributary to Broad Run	Intermittent	2	64	0	TBD	none	PA 2, 3, 4a, 4c, 5	EV
76.45	unnamed tributary to Broad Run	Intermittent	10	370	0.08	TBD	none	PA 2, 3, 4a, 4c, 5	EV
76.54	Broad Run	Intermittent	6	88	0.01	1	none	PA 2, 3, 4a, 4c, 5	EV
77.19	unnamed tributary to Broad Run	Perennial	12	0	0	NA	none	PA 2, 3, 4a, 4c, 5	EV
77.27	unnamed tributary to Broad Run	Perennial	16	97	0.04	3	none	PA 2, 3, 4a, 4c, 5	EV
77.49	unnamed tributary to Broad Run	Perennial	12	109	0.03	2A or 2B	none	PA 2, 3, 4a, 4c, 5	EV
78.14	unnamed tributary to Beaver Creek	Intermittent	5	40	0	2A or 2B	none	PA 2, 3, 4c, 5	TSF
79.35	unnamed tributary to Beaver Creek	Perennial	5	83	0.01	2A or 2B	none	PA 2, 3, 4c, 5	TSF
79.37	Beaver Creek	Intermittent	5	90	0.01	2A or 2B	none	PA 2, 3, 4c, 5	TSF
79.61	Beaver Creek	Intermittent	5	75	0.01	2A or 2B	none	PA 2, 3, 4c, 5	TSF
82.19	Unnamed tributary to East Branch Brandywine Creek	Perennial	6	55	0.01	2A or 2B	none	PA 2, 3, 4c, 5	WWF
82.31	East Branch Brandywine Creek	Perennial	75	18	0.03	3	March 1 – June 15	PA 2, 3, 4c, 5	WWF
82.58	Shamona	Perennial	35	75	0	NA	none	PA 2	HQ

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MP	Name	Type	Crossing Width (ft)	Linear Impact (ft)	Area of Construction Impact (ac)	Crossing Method <u>b/</u>	Seasonal Restriction <u>d/</u>	303 (d) List Water Quality Classification <u>a/</u>	State Fishery Classification <u>c/</u>
83.49	unnamed tributary to Marsh Creek Lake	Intermittent	4	89	0.01	1	none	PA 2	HQ
84.39	unnamed tributary to Marsh Creek Lake	Perennial	15	75	0.03	2A or 2B	none	PA 2	HQ
84.85	unnamed tributary to Marsh Creek Lake	Perennial	8	75	0.01	2A or 2B	none	PA 2	HQ
Total				14002	4.07				

NOTES:

NE = Not Established

NA = Not Applicable

a/ **State 303(d) List – Water Quality Classes** (definitions provided only for classes that appear in the table)

Maryland

2 = Includes surface waters that are meeting some standards and have insufficient information to determine attainment of other standards.

3 = Includes surface waters that have insufficient quantity (Category 3a) or quality (Category 3b) data information to determine waterbody attainment status.

4a = Includes surface waters that are still impaired but have TMDL that has been complete or submitted to EPA.

5 = Historically known as the 303 (d) List and includes waterbodies that may require a TMDL.

Pennsylvania

2 = Waters where some, but not all, designated users are met. Attainment status of the remaining designated uses is unknown because data are insufficient to

3 = Waters for which there are insufficient or not data and information to determine, consistent with the State's listing methodology, if designated uses are met.

4 = Waters impaired for one or more designated use but not needing a TMDL. States may place these waters in of the follower three subcategories:

4A = TMDL has been completed.

4C = Not impaired by a pollutant.

5 = Waters impaired for one or more designated uses by any pollutant. Category 5 includes waters shown to be impaired as the result of biological assessments used

b/ **Crossing Type** (also see figures of crossing methods in Mid-Atlantic Express's ECP, Appendix T, BMPs)

1=Intermittent minor waterbody – wet open cut (See Appendix T, BMPs, figure 19)

2A=Dry flumed open cut crossing (See Appendix T, BMPs, figure 18)

2B=Dam & pump open cut crossing (See Appendix T, BMPs, figure 17)

3=Intermediate wet open cut (See Appendix T, BMPs, figure 19)

4=Horizontal Directional Drill (HDD); * crossings with star have FERC recommendation to use HDD method. For HDD crossings incorporated by Mid-Atlantic Express, the columns "Linear impact" and "Area of construction" within the waterbody are shown as "0". This indicates that surface disturbance of the waterbody will be avoided due to use of the HDD method of pipeline installation.

5 = cofferdam, possibly in combination with a flume (See Appendix T, BMPs, figure 18a)

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<p><i>c/</i> State Water Quality Classification (Fisheries):</p> <p>Maryland</p> <p>I=Water Contact Recreation and Protection of Aquatic Life I-P=Water Contract Recreation, Protection of Aquatic Life and Public Water Supply III=Natural Trout Waters III-P=Natural Trout Waters and Public Water Supply IV=Recreational Trout Waters IV-P=Recreational Trout Waters and Public Water Supply</p> <p>Pennsylvania</p> <p>TSF=Trout Stocking CWF=Cold Water Fisheries WWF = Warm Water Fisheries HQ=High Quality Waters EV=Exceptional Value Waters</p> <p><i>d/</i> Seasonal restrictions, i.e. time when stream-crossing construction is prohibited, are based upon consultation with Maryland Department of Natural Resources (MDNR), Pennsylvania Fish and Boating Commission (PFBC), or National Marine Fisheries Service (NMFS), as appropriate.</p>									