

APPENDIX G

AQUATIC LIFE USE DATA

Table 1: Onsite Sampling Location Information

Site Name	Map Label ¹	Agency	Stream	Latitude	Longitude	MD 8-digit Name (#)	MD 12-digit (#)	HUC 12 Name (#)
CABJ-102-R	4A	MBSS	Cabin John Creek	39° 04' 16.50868"	-77° 09' 05.09369"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
CABJ-208-B	4B	MBSS	Cabin John Creek	39° 00' 59.83271"	-77° 09' 54.12268"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
CBP_WQX-CJB0005	4Y	NWQMC	Cabin John Creek	38° 58' 24.44806"	-77° 08' 55.79641"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
CJCJ202	4C	MCDEP	Cabin John Creek	39° 02' 56.49601"	-77° 09' 12.34605"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
CJCJ202	4H	MNCPPC	Cabin John Creek	39° 02' 56.45555"	-77° 09' 12.30805"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
CJCJ302	4E	MCDEP	Cabin John Creek	39° 01' 38.77611"	-77° 09' 24.88442"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
CJCJ303	4L	MNCPPC	Cabin John Creek	39° 00' 46.45967"	-77° 10' 04.03998"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
CJCJ305	4F	MCDEP	Cabin John Creek	38° 59' 20.27129"	-77° 09' 33.98914"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
CJCJ305	4M	MNCPPC	Cabin John Creek	38° 59' 20.27129"	-77° 09' 33.98914"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
CJCJ306	4G	MCDEP	Cabin John Creek	38° 58' 52.57202"	-77° 09' 35.33496"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
CJCJ306	4N	MNCPPC	Cabin John Creek	38° 58' 52.57202"	-77° 09' 35.33496"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
CJOF202	4I	MNCPPC	Old Farm Creek	39° 02' 28.93718"	-77° 08' 26.78606"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
CJOF202A	4J	MNCPPC	Old Farm Creek	39° 02' 18.27759"	-77° 08' 42.45325"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
CJOF204	4D	MCDEP	Old Farm Creek	39° 02' 14.54196"	-77° 09' 09.02271"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
CJOF204	4K	MNCPPC	Old Farm Creek	39° 02' 14.54196"	-77° 09' 09.02271"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
IWLA-CWH56	2D	NWQMC	Muddy Branch	39° 07' 10.52216"	-77° 13' 10.59862"	Washington Metropolitan (021402)	Potomac River MO Cnty (02140202)	021402020848

Site Name	Map Label ¹	Agency	Stream	Latitude	Longitude	MD 8-digit Name (#)	MD 12-digit (#)	HUC 12 Name (#)
LRGT101A	3E	MNCPPC	Unnamed Tributary to Rock Creek	39° 01' 22.23285"	-77° 06' 07.32569"	Washington Metropolitan (021402)	Rock Creek (02140206)	021402060836
LRLB101Z	3A	MCDEP	Unnamed Tributary to Rock Creek	39° 01' 42.59903"	-77° 06' 34.82992"	Washington Metropolitan (021402)	Rock Creek (02140206)	021402060836
LRLB202	3C	MCDEP	Unnamed Tributary to Rock Creek	39° 01' 44.78274"	-77° 06' 21.97553"	Washington Metropolitan (021402)	Rock Creek (02140206)	021402060836
LRLB202A	3B	MCDEP	Unnamed Tributary to Rock Creek	39° 01' 44.53611"	-77° 06' 24.16437"	Washington Metropolitan (021402)	Rock Creek (02140206)	021402060836
LRLR418	3D	MCDEP	Rock Creek	39° 00' 42.29607"	-77° 05' 26.08439"	Washington Metropolitan (021402)	Rock Creek (02140206)	021402060836
MBMB204	2A	MCDEP	Muddy Branch	39° 07' 30.57301"	-77° 11' 43.93054"	Washington Metropolitan (021402)	Potomac River MO Cnty (02140202)	021402020848
MBMB207	2B	MCDEP	Unnamed Tributary to Muddy Branch	39° 06' 43.19892"	-77° 13' 22.09287"	Washington Metropolitan (021402)	Potomac River MO Cnty (02140202)	021402020848
MBMB302	2C	MCDEP	Muddy Branch	39° 06' 53.49863"	-77° 13' 33.32638"	Washington Metropolitan (021402)	Potomac River MO Cnty (02140202)	021402020848
MDDNR-CJB0005	4X	NWQMC	Cabin John Creek	38° 58' 24.62806"	-77° 08' 55.68841"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
MDE_EASP-CBJ0005	4AA	NWQMC	Cabin John Creek	38° 58' 13.64806"	-77° 08' 47.76841"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
MDE_EASP-CBJ0059	4U	NWQMC	Cabin John Creek	39° 01' 21.67611"	-77° 09' 45.36842"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
MDE_EASP-CBJ0096	4P	NWQMC	Cabin John Creek	39° 03' 42.65213"	-77° 09' 08.21642"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
MDE_EASP-ZEJ0001	4R	NWQMC	Old Farm Creek	39° 02' 14.93091"	-77° 09' 13.40042"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
MDE_FIELDSERVIC ES_WQX-CBJ0005	4Z	NWQMC	Cabin John Creek	38° 58' 13.64806"	-77° 08' 47.7684"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
MDE_FIELDSERVIC ES_WQX-CBJ0059	4V	NWQMC	Cabin John Creek	39° 01' 21.67611"	-77° 09' 45.36842"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
MDE_FIELDSERVIC ES_WQX-CBJ0096	4Q	NWQMC	Cabin John Creek	39° 03' 42.65213"	-77° 09' 08.21642"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
MDE_FIELDSERVIC ES_WQX-CBJ0102	4O	NWQMC	Unnamed Tributary to Cabin John Creek	39° 04' 07.38413"	-77° 09' 17.72043"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841

Site Name	Map Label ¹	Agency	Stream	Latitude	Longitude	MD 8-digit Name (#)	MD 12-digit (#)	HUC 12 Name (#)
MDE_FIELDSERVIC ES_WQX-CJB0005	4BB	NWQMC	Cabin John Creek	38° 58' 13.64806"	-77° 08' 47.76841"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
MDE_FIELDSERVIC ES_WQX-ZEJ0001	4S	NWQMC	Old Farm Creek	39° 02' 14.92011"	-77° 09' 13.40042"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
MDEDAT06_WQX- CJCJ302	4T	NWQMC	Cabin John Creek	39° 01' 41.4869"	-77° 09' 24.54602"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
MDEDAT06_WQX- CJT101B	4W	NWQMC	Thomas Branch	38° 59' 44.43288"	-77° 09' 27.46921"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
MDEDAT06_WQX- LRLB202	3F	NWQMC	Unnamed Tributary to Rock Creek	39° 01' 44.78811"	-77° 06' 21.96116"	Washington Metropolitan (021402)	Rock Creek (02140206)	021402060836
MDEDAT06_WQX- LRLR418	3G	NWQMC	Rock Creek	39° 00' 42.29151"	-77° 05' 26.09098"	Washington Metropolitan (021402)	Rock Creek (02140206)	021402060836
MDEDAT06_WQX- MBMB207	2E	NWQMC	Unnamed Tributary to Muddy Branch	39° 06' 43.19935"	-77° 13' 22.08131"	Washington Metropolitan (021402)	Potomac River MO Cnty (02140202)	021402020848
MDEDAT06_WQX- MBMB302	2F	NWQMC	Muddy Branch	39° 06' 53.50255"	-77° 13' 33.33132"	Washington Metropolitan (021402)	Potomac River MO Cnty (02140202)	021402020848
MDEDAT06_WQX- WBWB204	1D	NWQMC	Watts Branch	39° 04' 36.41813"	-77° 10' 49.93446"	Washington Metropolitan (021402)	Potomac River MO Cnty (02140202)	021402020846
MDEDAT06_WQX- WBWB303	1E	NWQMC	Watts Branch	39° 04' 07.77293"	-77° 11' 14.91846"	Washington Metropolitan (021402)	Potomac River MO Cnty (02140202)	021402020846
WBWB204	1A	MCDEP	Watts Branch	39° 04' 36.41669"	-77° 10' 49.93215"	Washington Metropolitan (021402)	Potomac River MO Cnty (02140202)	021402020846
WBWB303	1B	MCDEP	Watts Branch	39° 04' 07.76983"	-77° 11' 14.92606"	Washington Metropolitan (021402)	Potomac River MO Cnty (02140202)	021402020846
WBWB303R	1C	MCDEP	Watts Branch	39° 04' 07.76983"	-77° 11' 14.92606"	Washington Metropolitan (021402)	Potomac River MO Cnty (02140202)	021402020846

¹Map label corresponds to Stream Monitoring Location label in Appendix D1 Potential Discharge Location Map for Phase 1 South LOD.

Table 2: Benthic Macroinvertebrate and Fish Index of Biotic Integrity (IBI) and Rapid Bioassessment Protocol (RBP) Habitat Score Ranges for Onsite Sampling Locations

Site Name	Agency	Year ¹	Benthic IBI Range	Narrative Benthic IBI Score Range	Fish IBI Range	Narrative Fish IBI Score Range	RBP Habitat Score Range	Narrative Habitat Score Rating
CABJ-102-R	MBSS	2017	1.30	Very Poor	3.30	Fair	52	Degraded
CABJ-208-B	MBSS	2008	1.00	Very Poor	3.70	Fair	61	Degraded
CJCJ202	MCDEP	2008 - 2019	12 - 14	Poor	3.9 - 4.3	Good	110 - 135	Good/Fair - Good
CJCJ202	MNCPPC	2008 - 2017	14 - 18	Poor - Fair	3.6 - 4.0	Good	140	Good
CJCJ302	MCDEP	2008 - 2019	12 - 16	Poor	3.7 - 3.9	Good	94 - 105	Fair - Good/Fair
CJCJ303	MNCPPC	2012 - 2017	18 - 22	Fair	3.4 - 3.8	Good	143	Good
CJCJ305	MCDEP	2008	18	Fair	3.9	Good	141	Good
CJCJ305	MNCPPC	2008 - 2017	14 - 18	Poor - Fair	3.0 - 3.6	Fair - Good	106	Good/Fair
CJCJ306	MCDEP	2008 - 2019	12 - 16	Poor	3.0 - 3.4	Fair - Good	108 - 120	Good/Fair - Good
CJCJ306	MNCPPC	2008 - 2017	12 - 24	Poor - Fair	3.2 - 3.8	Fair - Good	128	Good
CJOF202	MNCPPC	2012 - 2020	14 - 20	Poor - Fair	3.2 - 3.4	Fair - Good	122	Good
CJOF202A	MNCPPC	2016 - 2020	16	Poor	3.4	Good	112	Good/Fair
CJOF204	MCDEP	2008 - 2019	10 - 20	Poor - Fair	3.0 - 4.1	Fair - Good	93 - 137	Fair - Good
CJOF204	MNCPPC	2008 - 2017	10 - 12	Poor	3.0 - 3.4	Fair - Good	113	Good
LRGT101A	MNCPPC	2020	-	-	-	-	114	Good
LRLB101Z	MCDEP	2014	8	Poor	-	-	-	-
LRLB202	MCDEP	2008 - 2017	10 - 12	Poor	1.4 - 1.7	Poor	109 - 110	Good/Fair
LRLB202A	MCDEP	2017	8	Poor	1.7	Poor	109	Good/Fair
LRLR418	MCDEP	2008 - 2017	18	Fair	3.9 - 4.1	Good	111 - 121	Good/Fair - Good
MBMB204	MCDEP	2007	16	Poor	-	-	120	Good
MBMB207 ²	MCDEP	2007	18	Fair	4.1	Good	132	Good
MBMB302 ²	MCDEP	2007 - 2019	14 - 18	Poor - Fair	3.0 - 4.1	Fair - Good	96 - 107	Fair - Good/Fair
WBWB204	MCDEP	2007 - 2019	14 - 20	Poor - Fair	3.7 - 4.3	Good	101 - 131	Good/Fair - Good
WBWB303 ²	MCDEP	2007 - 2019	16 - 22	Poor - Fair	2.6 - 3.9	Fair - Good	89 - 107	Fair - Good/Fair

¹Sampling may not have been conducted during all years within year ranges and not all parameters may have been tested, reported, or useable for each sampling event.

²2007 benthic macroinvertebrate sample collected outside of MCDEP spring sampling window.

Table 3: Range of *In-Situ* Water Quality Data for Onsite Sampling Locations

Site Name	Agency	Year ¹	Water Temperature (°C)	Dissolved Oxygen (mg/L)	pH (SU)	Conductivity (µS/cm)
CABJ-102-R-2017	MBSS	2017	-	-	-	-
CABJ-208-B	MBSS	2008	21.9	9.9	7.40	403
CJCJ202	MCDEP	2008 - 2019	9.1 – 23.5	6.1 - 13.9	6.92 - 8.76	320 – 760
CJCJ202	MNCPPC	2017	3.1	13.5	7.47	410
CJCJ302	MCDEP	2008 - 2019	12.2 – 20.7	7.3 - 12.2	6.62 - 8.34	369 – 863
CJCJ303	MNCPPC	2017	6.7	11.6	7.46	859
CJCJ305	MCDEP	2008	13.7 - 19.1	9.6	6.82 - 7.20	202-347
CJCJ306	MCDEP	2008 - 2019	11.5 - 19.3	8.3 - 16.8	6.50 - 8.58	226 - 647
CJOF202	MNCPPC	2020	8.8	11.2	7.45	370
CJOF202A	MNCPPC	2020	10.5	12.9	7.69	438
CJOF204	MCDEP	2008 - 2019	10.7 – 20.1	7.6 - 13.8	6.42 - 7.70	224 - 805
CJOF204	MNCPPC	2017	8.7 - 19.4	8.6 - 12.0	7.37 - 7.52	507 - 859
LRGT101A	MNCPPC	2020	10.7	10.5	7.27	566
LRLB101Z	MCDEP	-	-	-	-	-
LRLB202	MCDEP	2008 - 2017	15.0 - 26.0	3.6 - 8.3	6.80 - 7.63	287 - 654
LRLB202A	MCDEP	2017	18.3 - 24.4	6.3 - 7.0	7.37 - 7.61	279 - 652
LRLR418	MCDEP	2008 - 2017	17.2 - 24.7	6.6 - 11.1	7.33 - 7.87	159 - 502
MBMB204	MCDEP	2007	14.2	8.9	7.34	779
MBMB207	MCDEP	2007	17.0 - 22.2	6.9 - 7.1	6.58 - 7.35	477 - 497
MBMB302	MCDEP	2007 - 2019	9.1 - 24.0	6.5 - 11.9	6.71 - 7.68	362 - 996
WBWB204	MCDEP	2007 - 2019	12.0 - 23.8	7.1 - 11.7	6.76 - 7.68	395 - 790
WBWB303	MCDEP	2007 - 2019	9.1 - 24.2	6.8 - 14.6	7.10 - 8.79	433 - 916
WBWB303R	MCDEP	2014	11.6	14.1	6.92	647

¹Sampling may not have been conducted during all years within year ranges and not all parameters may have been tested, reported, or useable for each sampling event.

Table 4: Available National Water Quality Monitoring Council (NWQMC) Data¹ for Onsite Sampling Locations

Site Name	Year ²	Water Temperature (°C)	Dissolved Oxygen (mg/L)	pH (SU)	Conductivity (µS/cm)	Turbidity (NTU)	Alkalinity (mg/L)	Chloride (mg/L)
CBP_WQX-CJB0005	2007 - 2020	-0.5 - 25.3	7.8 - 15.2	7.0 - 8.7	124 - 3752	0.4 - 182	26 - 96	16 - 999
IWLA-CWH56	2017 - 2019	6.0 - 23.9	–	6.0 - 9.0	–	–	–	–
MDDNR-CJB0005	2008 - 2017	-0.1 - 26.0	7.8 - 15.2	7.0 - 8.7	79 - 3752	0.3 - 1185	22 - 96	16 - 999
MDE_EASP-CBJ0005	2015 - 2016	–	–	–	–	–	–	34 - 2148
MDE_EASP-CBJ0059	2015 - 2016	–	–	–	–	–	–	48 - 2113
MDE_EASP-CBJ0096	2015 - 2016	–	–	–	–	–	–	62 - 4558
MDE_EASP-ZEJ0001	2016	–	–	–	–	–	–	405 - 535
MDE_FIELDSERVICES_WQX-CBJ0005	2015 - 2016	-1 - 23.6	8.4 - 15.4	6.6 - 8.7	222 - 6909	0 - 150	–	–
MDE_FIELDSERVICES_WQX-CBJ0059	2015 - 2016	-0.5 - 23.8	8.0 - 14.9	6.5 - 8.3	275 - 6559	0 - 154	–	–
MDE_FIELDSERVICES_WQX-CBJ0096	2015 - 2016	-0.2 - 24.3	6.7 - 14.6	6.8 - 8.6	336 - 13473	0 - 65	–	–
MDE_FIELDSERVICES_WQX-CBJ0102	2015	1.0 - 3.5	12.3	7.7 - 8	873 - 1984	0 - 0	–	–
MDE_FIELDSERVICES_WQX-CJB0005	2009	0.2	15.4	7.4	552	4	–	114
MDE_FIELDSERVICES_WQX-ZEJ0001	2016	0 - 7.4	12.3 - 14.9	7.2 - 8.6	453 - 4769	0 - 80	–	–
MDEDAT06_WQX-CJCJ302	2008	12.2 - 20.7	7.28 - 10.2	7.5 - 7.8	369 - 405	–	–	–
MDEDAT06_WQX-CJTB101B	2008	16.2	8.6	8.0	283	–	–	–
MDEDAT06_WQX-LRLB202	2008	17.9	7.9	7.4	291	–	–	–
MDEDAT06_WQX-LRLR418	2008	17.2	8.1	7.5	159	–	–	–
MDEDAT06_WQX-MBMB207	2007	17.0 - 22.2	6.9 - 7.1	6.5 - 7.3	477 - 497	–	–	–
MDEDAT06_WQX-MBMB302	2007	18.0 - 23.7	6.4 - 8.3	7.0 - 7.6	440 - 536	–	–	–
MDEDAT06_WQX-WBWB204	2007	14.7	10.8	7.6	525	–	–	–
MDEDAT06_WQX-WBWB303	2007	18.6	9.6	7.4	464	–	–	–

¹ The NWQMC dataset includes data from both *in-situ* multi-probe sampling and chemical grab sampling.

² Sampling may not have been conducted during all years within year ranges and not all parameters may have been tested, reported, or useable for each sampling event.

Table 5: Available Maryland Biological Stream Survey (MBSS) Water Quality Data for Onsite Sampling Locations

Site Name	Year ¹	Acid Neutralizing Capacity	Chloride	Conductivity (µS/cm)	Dissolved organic carbon	Ammonia	Nitrite	Nitrate-nitrogen	Ortho-Phosphate	pH	Sulfate	Total Nitrogen	Total Phosphorus
CABJ-102-R	MBSS	2017	1185.3	161.216	720.5	2.1497	0.0094	0.0115	-	0.0054	7.26	13.726	1.6717
CABJ-208-B	MBSS	2008	1139.1	116.358	553.9	1.4370	0.0060	0.0032	0.8150	0.0011	8.08	14.964	0.9541

¹Sampling may not have been conducted during all years within year ranges and not all parameters may have been tested, reported, or useable for each sampling event.

Table 6: Offsite Sampling Location Information

Site Name	Agency	Associated SWM Sites	Stream	Latitude	Longitude	MD 8-digit Name (#)	MD 12-digit (#)	HUC 12 Name (#)
11NPSWRD_WQX-NCRN_GWMP_MICR	NWQMC	WAS-3622	Minnehaha Branch	38° 58' 05.52359"	-77° 08' 19.37399"	Potomac River Mo Cnty - (02140202)	021402020844	Nichols Run-Potomac River - (020700081005)
CABJ-104-B	MBSS	WAS-4655; WAS-4656; WAS-4652	Unnamed Tributary to Cabin John Creek	39° 00' 09.12714"	-77° 10' 12.66227"	Cabin John Creek - (02140207)	021402070841	Cabin John Creek - (020700081003)
CBP_WQX-RCM0111	NWQMC	WAS-3603; WAS-3604	Rock Creek	38° 59' 34.87199"	-77° 03' 46.90799"	Rock Creek - (02140206)	021402060831	Lower Rock Creek - (020700100102)
CJCJ102	MCDEP	WAS-3618	Unnamed Tributary to Potomac River	38° 58' 40.69992"	-77° 08' 23.70361"	Cabin John Creek - (02140207)	021402070841	Cabin John Creek - (020700081003)
CJCJ305	MNCPPC	WAS-1805	Cabin John Creek	38° 59' 20.21712"	-77° 09' 33.97557"	Cabin John Creek - (02140207)	021402070841	Cabin John Creek - (020700081003)
CJCJ305	MCDEP	WAS-1805	Cabin John Creek	38° 59' 20.21712"	-77° 09' 33.97557"	Cabin John Creek - (02140207)	021402070841	Cabin John Creek - (020700081003)
CJKB201	MNCPPC	WAS-4655; WAS-4656; WAS-4652	Unnamed Tributary to Cabin John Creek	39° 00' 15.63191"	-77° 10' 20.63156"	Cabin John Creek - (02140207)	021402070841	Cabin John Creek - (020700081003)
CJKB201	MCDEP	WAS-4655; WAS-4656; WAS-4652	Unnamed Tributary to Cabin John Creek	39° 00' 15.63191"	-77° 10' 20.63156"	Cabin John Creek - (02140207)	021402070841	Cabin John Creek - (020700081003)
CJT101B	MCDEP	WAS-3602; WAS-1805; WAS-3613; WAS-3614	Thomas Branch	38° 59' 44.97191"	-077° 09' 27.99159"	Cabin John Creek - (02140207)	21402070841	Cabin John Creek - (020700081003)
GSCB303	MNCPPC	RFP-2	Cabin Branch	39° 10' 41.70419"	-77° 13' 3.59987"	Seneca Creek - (02140208)	021402080863	Great Seneca Creek - (020700080802)
GSLS111	MCDEP	CA-5	Unnamed Tributary to Great Seneca Creek	39° 07' 50.20111"	-77° 15' 6.86645"	Seneca Creek - (02140208)	021402080857	Great Seneca Creek - (020700080802)
GSLS205	MCDEP	CA-5	Unnamed Tributary to Great Seneca Creek	39° 07' 59.34723"	-77° 15' 52.98156"	Seneca Creek - (02140208)	021402080857	Great Seneca Creek - (020700080802)

Site Name	Agency	Associated SWM Sites	Stream	Latitude	Longitude	MD 8-digit Name (#)	MD 12-digit (#)	HUC 12 Name (#)
GSL205R	MCDEP	CA-5	Unnamed Tributary to Great Seneca Creek	39° 07' 59.31906"	-77° 15' 52.97299"	Seneca Creek - (02140208)	021402080857	Great Seneca Creek - (020700080802)
LFLF301A	MCDEP	WAS-3617	Little Falls Branch	38° 57' 28.45734"	-77° 06' 28.53149"	Potomac River Mo Cnty - (02140202)	021402020844	Nichols Run-Potomac River - (020700081005)
LFLF301A	MNCPPC	WAS-3617	Little Falls Branch	38° 57' 28.45734"	-77° 06' 28.53149"	Potomac River Mo Cnty - (02140202)	021402020844	Nichols Run-Potomac River - (020700081005)
LFLF301B	MCDEP	WAS-3617	Little Falls Branch	38° 57' 12.33491"	-77° 06' 39.49035"	Potomac River Mo Cnty - (02140202)	021402020844	Nichols Run-Potomac River - (020700081005)
LFLF301C	MCDEP	WAS-3617	Little Falls Branch	38° 56' 55.78801"	-77° 06' 45.82801"	Potomac River Mo Cnty - (02140202)	021402020844	Nichols Run-Potomac River - (020700081005)
LFLF301C	MNCPPC	WAS-3617	Little Falls Branch	38° 56' 55.78801"	-77° 06' 45.82801"	Potomac River Mo Cnty - (02140202)	021402020844	Nichols Run-Potomac River - (020700081005)
LRDB101	MCDEP	WAS-3625	Unnamed Tributary Rock Creek	38° 59' 37.42521"	-77° 03' 29.75021"	Rock Creek - (02140206)	021402060831	Lower Rock Creek - (020700100102)
LRLR205	MCDEP	WAS-3603; WAS-3604	Unnamed Tributary to Rock Creek	39° 01' 12.81189"	-77° 04' 25.92408"	Rock Creek - (02140206)	021402060836	Lower Rock Creek - (020700100102)
LRLR404	MCDEP	WAS-3656; WAS-3658	Rock Creek	39° 05' 42.04559"	-77° 07' 07.86255"	Rock Creek - (02140206)	021402060837	Upper Rock Creek - (020700100101)
LRLR404A	MCDEP	WAS-3656; WAS-3658	Rock Creek	39° 05' 46.75201"	-77° 07' 07.46399"	Rock Creek - (02140206)	021402060837	Upper Rock Creek - (020700100101)
LRLR404B	MCDEP	WAS-3656; WAS-3658	Rock Creek	39° 05' 34.58401"	-77° 07' 01.92001"	Rock Creek - (02140206)	021402060837	Upper Rock Creek - (020700100101)
LRLR413	MCDEP	WAS-3612	Rock Creek	39° 01' 34.55108"	-77° 05' 32.28149"	Rock Creek - (02140206)	021402060836	Lower Rock Creek - (020700100102)
LRSB101A	MCDEP	WAS-3634; WAS-3635	Unnamed Tributary to Rock Creek	39° 05' 28.66974"	-77° 05' 38.65356"	Rock Creek - (02140206)	021402060837	Upper Rock Creek - (020700100101)
LRSB101C	MCDEP	WAS-3634; WAS-3635	Unnamed Tributary to Rock Creek	39° 05' 10.00671"	-77° 06' 24.10951"	Rock Creek - (02140206)	021402060837	Upper Rock Creek - (020700100101)
LRST101A	MNCPPC	WAS-3601	Unnamed Tributary to Rock Creek	39° 01' 38.03588"	-77° 05' 52.71963"	Rock Creek - (02140206)	021402060836	Lower Rock Creek - (020700100102)
LRST101A	MCDEP	WAS-3601	Unnamed Tributary to Rock Creek	39° 01' 38.03588"	-77° 05' 52.71963"	Rock Creek - (02140206)	021402060836	Lower Rock Creek - (020700100102)
MBMB203	MCDEP	WAS-4622	Unnamed Tributary to Muddy Branch	39° 04' 38.39355"	-77° 17' 32.92968"	Potomac River Mo Cnty - (02140202)	021402020848	Muddy Branch - (020700081001)

Site Name	Agency	Associated SWM Sites	Stream	Latitude	Longitude	MD 8-digit Name (#)	MD 12-digit (#)	HUC 12 Name (#)
MBMB204	MCDEP	WAS-4091; WAS-4098; WAS-4099	Muddy Branch	39° 07' 30.57678"	-77° 11' 43.94897"	Potomac River Mo Cnty - (02140202)	021402020848	Muddy Branch - (020700081001)
MBMB204R	MCDEP	WAS-4091; WAS-4098; WAS-4099	Muddy Branch	39° 07' 30.57678"	-77° 11' 43.94897"	Potomac River Mo Cnty - (02140202)	021402020848	Muddy Branch - (020700081001)
MBMB302	MCDEP	WAS-4058; WAS-4059; WAS-4067; WAS-4068	Muddy Branch	39° 06' 53.47046"	-77° 13' 33.31787"	Potomac River Mo Cnty - (02140202)	021402020848	Muddy Branch - (020700081001)
MBMB305	MNCPPC	WAS-4613	Muddy Branch	39° 06' 25.35905"	-77° 14' 14.92667"	Potomac River Mo Cnty - (02140202)	21402020848	Muddy Branch - (020700081001)
MBMB307	MNCPPC	WAS-4072; WAS-4613	Muddy Branch	39° 05' 42.49745"	-77° 14' 55.54185"	Potomac River Mo Cnty - (02140202)	021402020848	Muddy Branch - (020700081001)
MBMB314	MCDEP	WAS-4633; WAS-4635	Muddy Branch	39° 03' 28.76771"	-77° 17' 41.14196"	Potomac River Mo Cnty - (02140202)	021402020848	Muddy Branch - (020700081001)
MBMB314	MNCPPC	WAS-4633; WAS-4635	Muddy Branch	39° 03' 28.76771"	-77° 17' 41.14196"	Potomac River Mo Cnty - (02140202)	021402020848	Muddy Branch - (020700081001)
MC-DS (MC-1)	MDOT SHA	WAS-4517; WAS-4521; WAS-4518; WAS-4519	Mill Creek	39° 08' 09.72247"	-77° 09' 26.17212"	Rock Creek - (02140206)	021402060839	Upper Rock Creek - (020700100101)
MC-US	MDOT SHA	WAS-4517; WAS-4521; WAS-4518; WAS-4519	Mill Creek	39° 08' 19.08308"	-77° 09' 24.47984"	Rock Creek - (02140206)	021402060839	Upper Rock Creek - (020700100101)
MDE_EASP-ZEI0058	NWQMC	WAS-4655; WAS-4656; WAS-4652	Unnamed Tributary to Cabin John Creek	39° 00' 23.22001"	-77° 10' 29.09999"	Cabin John Creek - (02140207)	021402070841	Cabin John Creek - (020700081003)
MDE_FIELDSERVICES_WQX-MUB0007	NWQMC	WAS-4633; WAS-4635	Muddy Branch	39° 03' 48.17881"	-77° 17' 40.74001"	Potomac River Mo Cnty - (02140202)	021402020848	Muddy Branch - (020700081001)
MDE_FIELDSERVICES_WQX-RCM0111	NWQMC	WAS-3603; WAS-3604	Rock Creek	38° 59' 34.19881"	-77° 03' 43.19999"	Rock Creek - (02140206)	021402060831	Lower Rock Creek - (020700100102)
MDE_FIELDSERVICES_WQX-WAT0006	NWQMC	WAS-4629; WAS-4630; WAS-4631	Watts Branch	39° 02' 37.83189"	-77° 15' 40.61025"	Potomac River Mo Cnty - (02140202)	021402020846	Watts Branch - (020700081002)
MDE_FIELDSERVICES_WQX-ZEI0058	NWQMC	WAS-4655; WAS-4652; WAS-4656	Unnamed Tributary to Cabin John Creek	39° 00' 23.22001"	-77° 10' 29.09999"	Cabin John Creek - (02140207)	021402070841	Cabin John Creek - (020700081003)
MDEDAT06_WQX-CJKB201	NWQMC	WAS-4655; WAS-4656; WAS-4652	Unnamed Tributary to Cabin John Creek	39° 00' 07.41601"	-77° 10' 10.9488"	Cabin John Creek - (02140207)	021402070841	Cabin John Creek - (020700081003)
MDEDAT06_WQX-CJTB101B	NWQMC	WAS-3602; WAS-1805; WAS-3613; WAS-3614	Thomas Branch	38° 59' 44.40481"	-77° 09' 27.46079"	Cabin John Creek - (02140207)	021402070841	Cabin John Creek - (020700081003)
MDEDAT06_WQX-MBMB204	NWQMC	WAS-4091; WAS-4098; WAS-4099	Muddy Branch	39° 07' 30.57241"	-77° 11' 43.9368"	Potomac River Mo Cnty - (02140202)	021402020848	Muddy Branch - (020700081001)

Site Name	Agency	Associated SWM Sites	Stream	Latitude	Longitude	MD 8-digit Name (#)	MD 12-digit (#)	HUC 12 Name (#)
MDEDAT06_WQX-WBSB305	NWQMC	WAS-4629; WAS-4630; WAS-4631	Sandy Branch	39° 02' 44.90811"	-77° 15' 36.23894"	Potomac River Mo Cnty - (02140202)	021402020846	Watts Branch - (020700081002)
MDPOINTSOURC-MD0064777	NWQMC	WAS-4625; WAS-4626; WAS-4627	C&O Canal	39° 04' 04.02891"	-77° 19' 53.00902"	Potomac River Mo Cnty - (02140202)	21402020849	Selden Island-Potomac River - (020700080904)
NB-3	MDOT SHA	WAS-3615; WAS-3637; WAS-3638; WAS-3616	Manor Run	39° 06' 33.77293"	-77° 06' 09.01142"	Rock Creek - (02140206)	021402060838	Upper Rock Creek - (020700100101)
POFO101	MCDEP	WAS-4642; WAS-4644; WAS-4647	Unnamed Tributary to Potomac River	39° 01' 17.57721"	-77° 14' 05.26062"	Potomac River Mo Cnty - (02140202)	021402020845	Nichols Run-Potomac River - (020700081005)
POGE201	MCDEP	WAS-3622	Minnehaha Branch	38° 58' 02.42833"	-77° 08' 22.19161"	Potomac River Mo Cnty - (02140202)	021402020844	Nichols Run-Potomac River - (020700081005)
POSI102	MCDEP	WAS-4628	Unnamed Tributary to Potomac River	39° 03' 42.56927"	-77° 18' 27.4768"	Potomac River Mo Cnty - (02140202)	021402020847	Nichols Run-Potomac River - (020700081005)
POSI103	MCDEP	WAS-4628	Unnamed Tributary to Potomac River	39° 03' 42.789"	-77° 18' 30.8551"	Potomac River Mo Cnty - (02140202)	021402020847	Nichols Run-Potomac River - (020700081005)
POSI201	MCDEP	WAS-4628	Unnamed Tributary to Potomac River	39° 03' 35.62042"	-77° 18' 31.23962"	Potomac River Mo Cnty - (02140202)	021402020847	Nichols Run-Potomac River - (020700081005)
PRMO-204-R	MBSS	WAS-4659; WAS-4660	Watts Branch	39° 03' 06.17156"	-77° 12' 40.26451"	Potomac River Mo Cnty - (02140202)	021402020846	Watts Branch - (020700081002)
RC-131-US	MDOT SHA	WAS-3625	Rock Creek	38° 59' 29.23147"	-77° 03' 42.76148"	Rock Creek - (02140206)	021402060831	Lower Rock Creek - (020700100102)
RORO102	MCDEP	WAS-4651; WAS-4653; WAS-4657; WAS-4658	Rock Run	39° 00' 29.80041"	-77° 12' 40.00671"	Potomac River Mo Cnty - (02140202)	021402020845	Nichols Run-Potomac River - (020700081005)
RORO102	MNCPPC	WAS-4651; WAS-4653; WAS-4657; WAS-4658	Rock Run	39° 00' 29.80041"	-77° 12' 40.00671"	Potomac River Mo Cnty - (02140202)	021402020845	Nichols Run-Potomac River - (020700081005)
RORO202	MNCPPC	WAS-4657; WAS-4658	Rock Run	38° 59' 27.65472"	-77° 12' 35.00512"	Potomac River Mo Cnty - (02140202)	021402020845	Nichols Run-Potomac River - (020700081005)
URFV201	MCDEP	WAS-3615; WAS-3637; WAS-3638; WAS-3616	Manor Run	39° 06' 35.05462"	-77° 06' 00.98327"	Rock Creek - (02140206)	021402060838	Upper Rock Creek - (020700100101)
URMC201	MCDEP	WAS-4517; WAS-4521; WAS-4518; WAS-4519	Mill Creek	39° 08' 18.27193"	-77° 09' 24.09139"	Rock Creek - (02140206)	021402060839	Upper Rock Creek - (020700100101)
URMC301	MCDEP	WAS-4517; WAS-4521; WAS-4518; WAS-4519	Mill Creek	39° 08' 4.47361"	-77° 09' 10.27441"	Rock Creek - (02140206)	021402060839	Upper Rock Creek - (020700100101)

Site Name	Agency	Associated SWM Sites	Stream	Latitude	Longitude	MD 8-digit Name (#)	MD 12-digit (#)	HUC 12 Name (#)
URMC302	MCDEP	WAS-4517; WAS-4521; WAS-4518; WAS-4519	Mill Creek	39° 07' 57.83661"	-77° 08' 54.26513"	Rock Creek - (02140206)	021402060839	Upper Rock Creek - (020700100101)
URPF101	MCDEP	WAS-3305	Unnamed Tributary to Rock Creek	39° 09' 15.48248"	-77° 08' 33.88551"	Rock Creek - (02140206)	021402060840	Upper Rock Creek - (020700100101)
URPF101R	MCDEP	WAS-3305	Unnamed Tributary to Rock Creek	39° 09' 15.45428"	-77° 08' 33.87705"	Rock Creek - (02140206)	021402060840	Upper Rock Creek - (020700100101)
URPF201	MCDEP	WAS-3305	Unnamed Tributary to Rock Creek	39° 09' 21.36017"	-77° 08' 07.51831"	Rock Creek - (02140206)	021402060840	Upper Rock Creek - (020700100101)
WBSB305	MCDEP	WAS-4629; WAS-4630; WAS-4631	Sandy Branch	39° 02' 44.90542"	-77° 15' 36.23595"	Potomac River Mo Cnty - (02140202)	021402020846	Watts Branch - (020700081002)
WBSB305R	MCDEP	WAS-4629; WAS-4630; WAS-4631	Sandy Branch	39° 02' 44.90542"	-77° 15' 36.23595"	Potomac River Mo Cnty - (02140202)	021402020846	Watts Branch - (020700081002)
WBWB307	MNCPPC	WAS-4659; WAS-4660	Watts Branch	39° 02' 49.20788"	-77° 13' 00.50751"	Potomac River Mo Cnty - (02140202)	021402020846	Watts Branch - (020700081002)
WBWB310	MCDEP	WAS-4637; WAS-4638; WAS-4639; WAS-4640; WAS-4641; WAS-4632	Watts Branch	39° 02' 23.85223"	-77° 14' 27.04101"	Potomac River Mo Cnty - (02140202)	021402020846	Watts Branch - (020700081002)
WBWB310A	MCDEP	WAS-4632; WAS-4637; WAS-4638; WAS-4639; WAS-4640; WAS-4641; WAS-4645; WAS-4646	Watts Branch	39° 02' 37.41069"	-77° 15' 25.33185"	Potomac River Mo Cnty - (02140202)	021402020846	Watts Branch - (020700081002)
WBWB310R	MCDEP	WAS-4637; WAS-4638; WAS-4639; WAS-4640; WAS-4641; WAS-4645; WAS-4646	Watts Branch	39° 02' 23.82411"	-77° 14' 27.03251"	Potomac River Mo Cnty - (02140202)	021402020846	Watts Branch - (020700081002)

Table 7: Benthic Macroinvertebrate and Fish Index of Biotic Integrity (IBI), and Rapid Bioassessment Protocol (RBP) Habitat and Physical Habitat Index (PHI) Score Ranges for Offsite Sampling Locations

Site Name	Agency	Year ¹	Benthic IBI Range	Narrative Benthic IBI Score Range	Fish IBI Range	Narrative Fish IBI Score Range	RBP Habitat Score Range	Narrative Habitat Score Rating	PHI Score Range	PHI Score Narrative
CABJ-104-B	MBSS	2008	1.00	Very Poor	3.00	Fair	-	-	60.19	Degraded
CJCJ102	MCDEP	2019	12	Poor	-	-	-	-	-	-
CJCJ305	MCDEP	2008	18	Fair	3.9	Good	141	Good	-	-
CJCJ305	MNCPPC	2008 - 2017	14 - 18	Poor - Fair	3.0 - 3.6	Fair - Good	106	Good/Fair	-	-
CJKB201	MCDEP	2008 - 2019	16 - 18	Poor - Fair	3.9 - 4.1	Good	83 - 124	Fair - Good	-	-
CJKB201	MNCPPC	2017	24	Fair	3.4	Good	102	Good/Fair	-	-
CJTB101B	MCDEP	2008 - 2019	12 - 18	Poor - Fair	1.4	Poor	85 - 104	Fair - Good/Fair	-	-
GSCB303	MNCPPC	2014	16	Poor	3.0	Fair	-	-	-	-
GSL5111	MCDEP	2013 - 2018	12	Poor	-	-	90 - 97	Fair	-	-
GSL5205	MCDEP	2013 - 2018	10 - 14	Poor	3.9	Good	83 - 111	Fair - Good/Fair	-	-
GSL5205R	MCDEP	2018	10	Poor	-	-	-	-	-	-
LFLF301A	MCDEP	2007 - 2019	8 - 12	Poor	1.4 - 1.7	Poor	93 - 128	Fair - Good	-	-
LFLF301A	MNCPPC	2007 - 2017	8 - 22	Poor - Fair	1.4	Poor	117	Good	-	-
LFLF301B	MCDEP	2009	10	Poor	1.4	Poor	119	Good	-	-
LFLF301C	MCDEP	2007 - 2019	8 - 14	Poor	1.4 - 1.9	Poor	79 - 98	Fair	-	-
LRLR205	MCDEP	2008 - 2017	14 - 18	Poor - Fair	1.9 - 2.3	Poor - Fair	93 - 119	Fair - Good	-	-
LRLR404	MCDEP	2017	24	Fair	3.4	Good	120	Good	-	-
LRLR404A	MCDEP	2017	28	Good	-	-	96	Fair	-	-
LRLR404B	MCDEP	2017	22	Fair	-	-	94	Fair	-	-
LRLR413	MCDEP	2008 - 2017	14 - 18	Poor - Fair	3.4 - 4.3	Good	91 - 118	Fair - Good	-	-
LRSB101A	MCDEP	2007 - 2017	8 - 18	Poor - Fair	1.4 - 2.3	Poor - Fair	82 - 105	Fair - Good/Fair	-	-
LRSB101C	MCDEP	2007 - 2009	14 - 16	Poor	1.9	Poor	99	Fair	-	-
LRST101A	MCDEP	2014	10	Poor	1.9	Poor	-	-	-	-
LRST101A	MNCPPC	2020	-	-	-	-	122	Good	-	-
MBMB203	MCDEP	2007	38	Excellent	1.4	Poor	119	Good	-	-
MBMB204	MCDEP	2007	16	Poor	-	-	120	Good	-	-
MBMB204R	MCDEP	2007	12	Poor	-	-	-	-	-	-

Site Name	Agency	Year ¹	Benthic IBI Range	Narrative Benthic IBI Score Range	Fish IBI Range	Narrative Fish IBI Score Range	RBP Habitat Score Range	Narrative Habitat Score Rating	PHI Score Range	PHI Score Narrative
MBMB302 ²	MCDEP	2007 - 2019	14 - 18	Poor - Fair	3.0 - 4.1	Fair - Good	96 - 107	Fair - Good/Fair	-	-
MBMB307	MNCPPC	2019	-	-	4.0	Good	99	Fair	-	-
MBMB314	MCDEP	2007	24	Fair	2.8	Fair	140	Good	-	-
MBMB314	MNCPPC	2007	24	Fair	2.4	Fair	-	-	-	-
MC-DS (MC-1)	CRI	2010 - 2012	1.67 - 2.00	Very Poor - Poor	-	-	-	-	46.82 - 54.39	Severely Degraded - Degraded
MC-US	CRI	2010 - 2012	1.33 - 1.67	Very Poor - Very Poor	-	-	-	-	50.96 - 57.42	Severely Degraded - Degraded
NB-3	CRI	2011 - 2013	2.00 - 2.00	Poor - Poor	2.30 - 3.00	Poor - Fair	-	-	60.45 - 71.95	Degraded - Partially Degraded
POFO101	MCDEP	2007	38	Excellent	1.4	Poor	115	Good	-	-
POGE201	MCDEP	2021	12	Poor	1.4	Poor	117	Good	-	-
POSI102	MCDEP	2007	38	Excellent	-	-	129	Good	-	-
POSI103	MCDEP	2007	34	Good	-	-	145	Good	-	-
POSI201	MCDEP	2007 - 2019	32 - 38	Good - Excellent	1.4	Poor	106 - 137	Good/Fair - Good	-	-
PRMO-204-R	MBSS	2008	1.75	Very Poor	3.67	Fair	-	-	72.08	Partially Degraded
RC-131-US	CRI	2007 - 2010	1.00 - 1.33	Very Poor - Very Poor	3.0	Fair	-	-	54.22 - 68.25	Degraded - Partially Degraded
RORO102	MCDEP	2010 - 2019	10 - 28	Poor - Good	2.3 - 2.6	Fair	102 - 113	Good/Fair - Good	-	-
RORO102	MNCPPC	2018	16	Poor	2.0	Poor	125	Good	-	-
RORO202	MNCPPC	2010 - 2018	16	Poor	3.0 - 3.6	Fair - Good	136	Good	-	-
URFV201	MCDEP	2017	16	Poor	3.4	Good	135	Good	-	-
URMC201	MCDEP	2009 - 2017	12 - 14	Poor	1.9	Poor	107 - 109	Good/Fair	-	-
URMC301	MCDEP	2017	20	Fair	2.6	Fair	114	Good	-	-
URMC302	MCDEP	2009	20	Fair	3.0	Fair	111	Good/Fair	-	-
URPF101	MCDEP	2011 - 2021	14 - 32	Poor - Good	3.2 - 3.9	Fair - Good	111 - 126	Good/Fair - Good	-	-
URPF101R	MCDEP	2018	14	Poor	-	-	-	-	-	-
URPF201	MCDEP	2008 - 2017	28 - 34	Good	4.3 - 4.6	Good - Excellent	96 - 122	Fair - Good	-	-
WBSB305	MCDEP	2007 - 2019	14 - 28	Poor - Good	3.9 - 4.3	Good	-	-	-	-
WBWB307	MNCPPC	2019	-	-	4.0	Good	93	Fair	-	-
WBWB310	MCDEP	2007 - 2019	18 - 22	Fair	3.9 - 4.3	Good	101 - 121	Good/Fair - Good	-	-
WBWB310A	MCDEP	2019	20	Fair	4.1	Good	125	Good	-	-

Site Name	Agency	Year ¹	Benthic IBI Range	Narrative Benthic IBI Score Range	Fish IBI Range	Narrative Fish IBI Score Range	RBP Habitat Score Range	Narrative Habitat Score Rating	PHI Score Range	PHI Score Narrative
WBWB310R	MCDEP	2019	14	Poor	-	-	-	-	-	-

¹Sampling may not have been conducted during all years within year ranges and not all parameters may have been tested, reported, or useable for each sampling event.

²2007 benthic macroinvertebrate sample collected outside of MCDEP spring sampling window.

Table 8: Range of *In-Situ* Water Quality Data for Offsite Sampling Locations

Site Name	Agency	Year ¹	Water Temperature (°C)	Dissolved Oxygen (mg/L)	pH (SU)	Conductivity (µS/cm)	Turbidity (NTU)
CJCJ305	MNCPPC	2017 - 2021	11.0 - 25.9	8.84 - 13.68	7.88 - 8.97	330 - 694	-
CJKB201	MCDEP	2008 - 2019	14.7 - 20.9	6.51 - 11.84	7.22 - 7.76	238 - 454	-
CJTB101B	MCDEP	2008 - 2019	12.2 - 22.4	8.27 - 14.74	7.15 - 8.03	283 - 920	-
GSL111	MCDEP	2013 - 2018	12.8 - 12.9	10.88 - 16.15	7.55 - 8.82	506 - 751	-
GSL205	MCDEP	2013 - 2018	9.8 - 21.6	6.30 - 12.28	7.25 - 7.76	309 - 623	-
LFLF301A	MCDEP	2007 - 2019	9.0 - 21.5	7.58 - 16.30	6.70 - 9.60	625 - 1011	-
LFLF301B	MCDEP	2009	18.2 - 23.3	6.95 - 8.60	7.45 - 8.85	615 - 803	-
LFLF301C	MCDEP	2007 - 2019	8.7 - 23.2	5.57 - 16.85	6.47 - 9.57	581 - 892	-
LRDB101	MCDEP	2011 - 2018	14.8 - 22.4	6.77 - 13.65	7.67 - 8.39	840 - 1087	-
LRLR205	MCDEP	2008 - 2017	14.0 - 22.5	5.86 - 11.97	6.90 - 7.58	370 - 1284	-
LRLR404	MCDEP	2017	16.0 - 21.1	4.59 - 5.95	7.12 - 8.17	213 - 281	-
LRLR404A	MCDEP	2017	16.0	10.20	8.40	282	-
LRLR404B	MCDEP	2017	15.6	9.60	8.10	287	-
LRLR413	MCDEP	2008 - 2017	15.7 - 23.6	6.67 - 9.51	7.25 - 7.49	173 - 398	-
LRSB101A	MCDEP	2007 - 2017	10.7 - 24.7	6.90 - 15.70	7.40 - 8.30	300 - 402	-
LRSB101C	MCDEP	2007 - 2009	10.1 - 21.4	6.80 - 16.90	7.60 - 8.00	379 - 418	-
LRST101A	MNCPPC	2020	13.3 - 21.7	6.74 - 11.75	7.26 - 7.68	666 - 764	-
MBMB203	MCDEP	2007	13.7 - 23.1	6.10 - 10.50	6.60 - 7.00	148 - 151	-
MBMB204	MCDEP	2007	14.2	8.90	7.30	779	-
MBMB302	MCDEP	2007 - 2019	9.1 - 24.0	6.46 - 11.91	6.71 - 7.68	362 - 996	-

Site Name	Agency	Year ¹	Water Temperature (°C)	Dissolved Oxygen (mg/L)	pH (SU)	Conductivity (µS/cm)	Turbidity (NTU)
MBMB307	MNCPPC	2019	7.20 - 25.2	7.69 - 12.16	7.52 - 7.91	463 - 488	-
MBMB314	MCDEP	2007	14.7 - 19.2	8.70 - 12.70	7.40 - 7.70	254 - 395	-
MC-DS (MC-1)	CRI	2010 - 2012	6.5 - 15.6	11.00 - 14.10	7.50 - 8.20	413 - 497	34 - 13
MC-US	CRI	2010 - 2012	7.0 - 16.9	11.70 - 13.60	7.20 - 8.30	403 - 507	3 - 13
NB-3	CRI	2011 - 2013	5.6 - 22.9	5.00 - 16.90	6.00 - 7.60	411 - 576	1 - 8
POFO101	MCDEP	2007	12.8 - 16.4	7.90 - 8.60	6.90 - 7.40	151 - 193	-
POGE201	MCDEP	2021	15.6 - 19.3	5.51 - 7.59	7.74 - 9.45	618 - 645	-
POS1201	MCDEP	2014 - 2019	11.9 - 19.4	6.75 - 9.41	6.48 - 8.09	100 - 114	-
RC-131-US	CRI	2007 - 2010	10.7 - 21.9	6.70 - 14.38	6.80 - 7.70	100 - 497	5 - 22
RORO102	MCDEP	2010 - 2019	10.4 - 21.7	6.57 - 14.45	7.17 - 9.67	219 - 616	-
RORO202	MNCPPC	2018	9.10 - 23.9	6.68 - 12.62	7.14 - 7.79	193 - 374	-
URFV201	MCDEP	2017	16.0 - 19.4	8.40 - 11.70	7.80 - 8.10	231 - 521	-
URMC201	MCDEP	2009 - 2017	11.6 - 21.2	8.40 - 11.40	7.60 - 7.80	325 - 457	-
URMC301	MCDEP	2017 - 2017	14.4 - 18.8	7.60 - 11.50	7.50 - 7.50	479 - 733	-
URMC302	MCDEP	2009	13.7 - 18.3	7.90 - 8.60	7.60 - 8.40	362 - 420	-
URPF101	MCDEP	2011 - 2021	6.6 - 23.1	7.21 - 15.66	6.03 - 8.21	99 - 346	-
URPF201	MCDEP	2008 - 2017	12.8 - 21.9	8.50 - 12.30	6.80 - 7.60	210 - 324	-
WBSB305	MCDEP	2007 - 2019	7.0 - 23.6	7.47 - 11.47	7.33 - 9.03	285 - 442	-
WBWB307	MNCPPC	2019	12.8 - 22.2	8.05 - 10.73	7.55 - 7.84	351 - 497	-
WBWB310	MCDEP	2007 - 2019	9.5 - 21.6	7.41 - 11.40	7.23 - 8.35	312 - 490	-
WBWB310A	MCDEP	2019	7.3 - 22.6	7.53 - 10.96	7.69 - 7.91	357-471	-
RORO102	MNCPPC	2018	7.3 - 23.6	7.86 - 10.35	7.53 - 7.64	336 - 375	-

¹Sampling may not have been conducted during all years within year ranges and not all parameters may have been tested, reported, or useable for each sampling event.

Table 9: Available National Water Quality Monitoring Council (NWQMC) Data¹ for Offsite Sampling Locations

Site Name	Year ²	Water Temperature (°C)	Dissolved Oxygen (mg/L)	pH (PSU)	Conductivity (µS/cm)	Turbidity (NTU)	Alkalinity (mg/L)	Chloride (mg/L)
11NPSWRD_WQX-NCRN_GWMP_MICR	2007 - 2018	0.0 - 28.0	5.7 - 19.8	7.3 - 9.0	144 - 2174	-	-	-
CBP_WQX-RCM0111	2007 - 2020	-0.1 - 26.7	5.7 - 14.4	6.9 - 8.9	132 - 4168	1.6 - 3585	24 - 108	20 - 725
MDE_EASP-ZEI0058	2015 - 2016	-	-	-	-	-	-	29 - 752
MDE_FIELDSERVICES_WQX-MUB0007	2008	0.2 - 22.6	7.5 - 14.7	6.8 - 8.3	289 - 1345	0 - 13	-	48 - 73
MDE_FIELDSERVICES_WQX-RCM0111	2009	0.2	14.2	7.0	546	32	-	120
MDE_FIELDSERVICES_WQX-WAT0006	2008	0.2 - 22.8	7.7 - 14.2	6.9 - 8.6	271 - 1008	0.2 - 14	-	28 - 54
MDE_FIELDSERVICES_WQX-ZEI0058	2015 - 2016	0.1 - 22.0	7.6 - 15.1	7.2 - 8.4	22 - 3784	0 - 83	-	-
MDEDAT06_WQX-CJKB201	2008	15.8 - 19.9	7.7 - 8.7	7.7 - 7.7	238 - 298	-	-	-
MDEDAT06_WQX-CJTB101B	2008	16.2	8.6	8.0	283	-	-	-
MDEDAT06_WQX-MBMB204	2007	14.2	8.9	7.3	779	-	-	-
MDEDAT06_WQX-WBSB305	2007	21.0	10.5	9.0	-	-	-	-
MDPOINTSOURCE-MD0064777	2008 - 2013	-	1.5 - 11.3	-	-	-	-	-

¹ The NWQMC dataset includes data from both *in-situ* multi-probe sampling and chemical grab sampling.

² Sampling may not have been conducted during all years within year ranges and not all parameters may have been tested, reported, or useable for each sampling event.

Table 10: Available Maryland Biological Stream Survey (MBSS) Water Quality Data for Offsite Sampling Locations

Site Name	Year ¹	Acid Neutralizing Capacity	Chloride	Conductivity (µS/cm)	Dissolved organic carbon	Ammonia	Nitrite	Nitrate-nitrogen	Ortho-Phosphate	pH	Sulfate	Total Nitrogen	Total Phosphorus
CABJ-104-B	2008	1111.4	50.268	337.3	1.0817	0.0093	0.0022	1.1376	0.0024	7.55	16.445	1.2170	0.0077

¹ Sampling may not have been conducted during all years within year ranges and not all parameters may have been tested, reported, or useable for each sampling event.

Table 11: Park Mitigation Sampling Location Information

Site Name	Map Label ¹	Agency	Stream	Latitude	Longitude	MD 8-digit Name (#)	MD 12-digit (#)	HUC 12 Name (#)
CABJ-208-B	4B	MBSS	Cabin John Creek	39° 00' 59.83271"	-77° 09' 54.12268"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
CBP_WQX-CJB0005	4Y	NWQMC	Cabin John Creek	38° 58' 24.44806"	-77° 08' 55.79641"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
CJCJ202	4C	MCDEP	Cabin John Creek	39° 02' 56.49601"	-77° 09' 12.34605"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
CJCJ202	4H	MNCPPC	Cabin John Creek	39° 02' 56.45555"	-77° 09' 12.30805"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
CJCJ302	4E	MCDEP	Cabin John Creek	39° 01' 38.77611"	-77° 09' 24.88442"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
CJCJ303	4L	MNCPPC	Cabin John Creek	39° 00' 46.45967"	-77° 10' 04.03998"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
CJCJ306	4G	MCDEP	Cabin John Creek	38° 58' 52.57202"	-77° 09' 35.33496"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
CJCJ306	4N	MNCPPC	Cabin John Creek	38° 58' 52.57202"	-77° 09' 35.33496"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
CJOF204	4D	MCDEP	Old Farm Creek	39° 02' 14.54196"	-77° 09' 09.02271"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
CJOF204	4K	MNCPPC	Old Farm Creek	39° 02' 14.54196"	-77° 09' 09.02271"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
MDE_FIELDSERVIC ES_WQX-ZEJ0001	4S	NWQMC	Old Farm Creek	39° 02' 14.92011"	-77° 09' 13.40042"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841
MDEDAT06_WQX-CJCJ302	4T	NWQMC	Cabin John Creek	39° 01' 41.4869"	-77° 09' 24.54602"	Washington Metropolitan (021402)	Cabin John Creek (02140207)	021402070841

¹Map label corresponds to Stream Monitoring Location label in Appendix D3 Potential Discharge Location Map for Park Mitigation Areas.

Table 12: Benthic Macroinvertebrate and Fish Index of Biotic Integrity (IBI) and Rapid Bioassessment Protocol (RBP) Habitat Score Ranges for Park Mitigation Sampling Locations

Site Name	Agency	Year ¹	Benthic IBI Range	Narrative Benthic IBI Score Range	Fish IBI Range	Narrative Fish IBI Score Range	RBP Habitat Score Range	Narrative Habitat Score Rating
CABJ-208-B	MBSS	2008	1.00	Very Poor	3.7	Fair	61	Degraded
CJCJ202	MCDEP	2008 - 2019	12 - 14	Poor	3.9 - 4.3	Good	110 - 135	Good/Fair - Good
CJCJ202	MNCPPC	2008 - 2017	14 - 18	Poor - Fair	3.6 - 4.0	Good	140	Good
CJCJ302	MCDEP	2008 - 2019	12 - 16	Poor	3.7 - 3.9	Good	94 - 105	Fair - Good/Fair
CJCJ303	MNCPPC	2012 - 2017	18 - 22	Fair	3.4 - 3.8	Good	143	Good
CJCJ306	MCDEP	2008 - 2019	12 - 16	Poor	3.0 - 3.4	Fair - Good	108 - 120	Good/Fair - Good
CJCJ306	MNCPPC	2008 - 2017	12 - 24	Poor - Fair	3.2 - 3.8	Fair - Good	128	Good
CJOF204	MCDEP	2008 - 2019	10 - 20	Poor - Fair	3.0 - 4.1	Fair - Good	93 - 137	Fair - Good
CJOF204	MNCPPC	2008 - 2017	10 - 12	Poor	3.0 - 3.4	Fair - Good	113	Good

¹Sampling may not have been conducted during all years within year ranges and not all parameters may have been tested, reported, or useable for each sampling event.

Table 13: Range of *In-Situ* Water Quality Data for Park Mitigation Sampling Locations

Site Name	Agency	Year ¹	Water Temperature (°C)	Dissolved Oxygen (mg/L)	pH (SU)	Conductivity (µS/cm)
CABJ-208-B	MBSS	2008	21.9	9.9	7.40	403
CJCJ202	MCDEP	2008 - 2019	9.1 – 23.5	6.1 - 13.9	6.92 - 8.76	320 – 760
CJCJ202	MNCPPC	2017	3.1	13.5	7.47	410
CJCJ302	MCDEP	2008 - 2019	12.2 – 20.7	7.3 - 12.2	6.62 - 8.34	369 – 863
CJCJ303	MNCPPC	2017	6.7	11.6	7.46	859
CJCJ306	MCDEP	2008 - 2019	11.5 - 19.3	8.3 - 16.8	6.50 - 8.58	226 - 647
CJOF204	MCDEP	2008 - 2019	10.7 – 20.1	7.6 - 13.8	6.42 - 7.70	224 - 805
CJOF204	MNCPPC	2017	8.7 - 19.4	8.6 - 12.0	7.37 - 7.52	507 - 859

¹Sampling may not have been conducted during all years within year ranges and not all parameters may have been tested, reported, or useable for each sampling event.

Table 14: Available National Water Quality Monitoring Council (NWQMC) Data¹ for Park Mitigation Sampling Locations

Site Name	Year ²	Water Temperature (°C)	Dissolved Oxygen (mg/L)	pH (SU)	Conductivity (µS/cm)	Turbidity (NTU)	Alkalinity (mg/L)	Chloride (mg/L)
CBP_WQX-CJB0005	2007 - 2020	-0.5 - 25.3	7.8 - 15.2	7.0 - 8.7	124 - 3752	0.4 - 182	26 - 96	16 - 999
MDE_FIELDSERVICES_WQX-ZEJ0001	2016	0 - 7.4	12.3 - 14.9	7.2 - 8.6	453 - 4769	0 - 80	-	-
MDEDAT06_WQX-CJCJ302	2008	12.2 - 20.7	7.28 - 10.2	7.5 - 7.8	369 - 405	-	-	-

¹ The NWQMC dataset includes data from both *in-situ* multi-probe sampling and chemical grab sampling.

² Sampling may not have been conducted during all years within year ranges and not all parameters may have been tested, reported, or useable for each sampling event.

Table 15: Available Maryland Biological Stream Survey (MBSS) Water Quality Data for Park Mitigation Sampling Locations

Site Name	Year ¹	Acid Neutralizing Capacity	Chloride	Conductivity (µS/cm)	Dissolved organic carbon	Ammonia	Nitrite	Nitrate-nitrogen	Ortho-Phosphate	pH	Sulfate	Total Nitrogen	Total Phosphorus
CABJ-208-B	MBSS	2008	1139.1	116.358	553.9	1.4370	0.0060	0.0032	0.8150	0.0011	8.08	14.964	0.9541

Table 16: Onsite Montgomery County Department of Environmental Protection (MCDEP) Fish Taxa List

Fish Species	CJCJ202	CJCJ302	CJCJ305	CJCJ306	CJOF204	LRLB202	LRLB202A	LRLR418	MBMB207	MBMB302	WBWB204	WBWB303
American Eel	X	X	X	X	X	-	-	X	-	-	-	X
Black Crappie	-	-	-	X	-	-	-	-	-	-	-	-
Blacknose Dace	X	X	X	X	X	X	X	X	X	X	X	X
Blue Ridge Sculpin	-	-	-	-	-	-	-	-	-	-	-	X
Bluegill	X	X	X	X	-	X	X	X	X	X	X	X
Bluntnose Minnow	-	X	X	X	-	-	-	X	X	X	X	X
Brown Bullhead	-	-	-	-	-	-	-	-	X	-	X	X
Central Stoneroller	X	X	X	X	X	-	-	-	X	X	X	X
Common Shiner	-	X	X	X	-	-	-	-	-	-	-	X
Creek Chub	X	X	X	X	X	X	X	X	X	X	X	X
Cutlip Minnow	-	-	-	-	-	-	-	X	-	-	-	X

Fish Species	CJCJ202	CJCJ302	CJCJ305	CJCJ306	CJOF204	LRLB202	LRLB202A	LRLR418	MBMB207	MBMB302	WBWB204	WBWB303
Eastern Silvery Minnow	X	-	-	-	-	-	-	-	-	-	-	-
Eastern Mosquitofish	-	-	-	-	-	X	X	X	-	-	-	X
Fallfish	-	-	-	-	-	-	-	X	-	-	-	-
Fantail Darter	X	X	X	X	X	-	-	-	X	X	X	X
Golden Shiner	X	X	-	-	X	-	-	-	-	-	-	-
Goldfish	X	-	-	-	-	-	-	-	-	-	-	-
Green Sunfish	X	X	X	X	X	-	-	X	X	X	X	X
Greenside Darter	-	-	X	X	-	-	-	-	-	-	X	-
Hybrid Sunfish	-	-	-	X	-	-	-	-	-	-	X	X
Largemouth Bass	-	X	-	X	-	-	-	-	X	X	X	-
Longear Sunfish	-	-	-	X	-	-	-	-	-	-	-	-
Longnose Dace	X	X	X	X	X	-	-	X	X	X	X	X
Margined Madtom	-	-	-	X	-	-	-	-	-	-	-	-
Mummichog	-	-	-	-	-	-	-	-	X	-	-	-
Northern Hogsucker	-	-	-	-	-	-	-	X	-	-	-	-
Potomac Sculpin	-	X	X	X	-	-	-	-	X	-	X	-
Pumpkinseed	X	X	-	X	-	X	X	X	X	-	X	X
Redbreast Sunfish	X	X	X	X	X	-	-	X	X	X	X	X
Rock Bass	-	-	-	X	-	-	-	-	-	-	-	-
Rosyface Shiner	-	-	-	X	-	-	-	-	-	-	-	-
Rosyside Dace	X	X	-	-	X	-	-	-	X	X	X	X
Satinfin Shiner	-	-	X	X	-	-	-	X	-	-	-	-
Sea Lamprey	-	X	-	X	-	-	-	X	-	-	-	-
Silverjaw Minnow	X	X	X	X	X	-	-	-	X	X	X	X
Smallmouth Bass	-	X	X	X	-	-	-	-	-	-	-	-
Spotfin Shiner	-	X	-	X	-	-	-	X	-	-	-	-
Spottail Shiner	-	X	-	-	-	-	-	X	-	-	-	-

Fish Species	CJCJ202	CJCJ302	CJCJ305	CJCJ306	CJOF204	LRLB202	LRLB202A	LRLR418	MBMB207	MBMB302	WBWB204	WBWB303
Swallowtail Shiner	X	X	X	X	-	-	-	X	-	-	X	-
Tessellated Darter	X	X	X	X	X	-	-	X	X	X	X	X
White Sucker	X	X	X	X	X	-	-	X	X	X	X	X
Yellow Bullhead	-	X	-	X	X	-	-	X	X	X	X	X

Table 17: Onsite Maryland-National Capital Park and Planning Commission (MNCPPC) Fish Taxa List

Fish Species	CJCJ202	CJCJ303	CJCJ305	CJCJ306	CJOF202	CJOF202A	CJOF204	LRGT101A
American Eel	X	X	X	X	X	X	X	X
Black Crappie	-	-	-	X	-	-	-	-
Blacknose Dace	X	X	X	X	X	X	X	X
Bluegill	X	X	X	X	-	-	-	X
Bluntnose Minnow	-	X	X	X	X	X	-	X
Central Stoneroller	X	X	X	X	X	X	X	-
Channel Catfish	-	-	-	X	-	-	-	-
Common Shiner	X	X	X	X	X	X	X	-
Creek Chub	X	X	X	X	X	X	X	X
Cutlip Minnow	-	-	-	-	-	X	-	-
Eastern Mosquitofish	X	-	-	-	-	-	-	-
Eastern Silvery Minnow	-	-	-	X	-	-	-	-
Fallfish	-	X	-	X	-	-	-	-
Fantail Darter	X	X	X	X	X	X	X	-
Flathead Catfish	-	-	-	-	X	-	-	-
Golden Redhorse	-	X	X	X	-	-	-	-
Golden Shiner	X	-	-	-	X	-	X	X
Green Sunfish	X	X	X	X	X	X	X	X
Greenside Darter	-	X	X	X	X	X	X	-

Fish Species	CJCJ202	CJCJ303	CJCJ305	CJCJ306	CJOF202	CJOF202A	CJOF204	LRGT101A
Largemouth Bass	-	X	-	X	X	-	-	X
Longear Sunfish	-	-	-	X	-	-	-	-
Longnose Dace	X	X	X	X	X	X	X	X
Mosquitofish	-	-	-	-	-	-	-	X
Potomac Sculpin	-	-	X	X	-	-	-	-
Pumpkinseed	X	-	-	X	-	-	-	X
Redbreast Sunfish	X	X	X	X	X	X	X	-
Rosyside Dace	X	X	-	-	X	X	X	-
Satinfin Shiner	-	-	X	-	-	-	-	X
Sea Lamprey	X	X	X	X	-	-	-	-
Silverjaw Minnow	X	X	X	X	X	X	X	-
Smallmouth Bass	-	X	X	X	-	-	-	-
Spotfin Shiner	-	X	X	X	X	X	-	-
Spottail Shiner	-	-	-	X	-	-	-	-
Swallowtail Shiner	X	X	X	X	X	X	-	X
Tessellated Darter	X	X	X	X	X	X	X	-
White Sucker	X	X	X	X	X	X	X	X
Yellow Bullhead	X	X	X	X	-	-	-	X

Table 18: Onsite MBSS Fish Taxa List

Fish Species	CABJ-102-R	CABJ-208-B
American Eel	-	X
Blacknose Dace	X	X
Bluegill	X	-
Bluntnose Minnow	-	X
Central Stoneroller	X	X
Common Shiner	X	X
Creek Chub	X	X
Eastern Mosquitofish	X	-
Fantail Darter	X	X
Fathead Minnow	X	-
Goldfish	X	-
Green Sunfish	-	X
Largemouth Bass	-	X
Longnose Dace	X	X
Pumpkinseed	-	X
Redbreast Sunfish	-	X
River Chub	-	X
Rosyside Dace	X	-
Sea Lamprey	-	X
Silverjaw Minnow	X	X
Smallmouth Bass		X
Spotfin Shiner	X	X
Tessellated Darter	X	X
White Sucker	X	X
Yellow Bullhead	-	X

Table 19: Offsite MCDEP Fish Taxa List

Fish Species	CJ CJ3 05	CJK B2 01	CJT B10 1B	GS LS2 05	LFL F30 1A	LFL F30 1B	LFL F30 1C	LRL R2 05	LRL R4 04	LRL R4 13	LRS B10 1A	LRS B10 1C	LRS T10 1A	MB MB 203	MB MB 302	MB MB 314	PO FO 101	PO GE2 01	PO SI2 01	RO RO 102	UR FV2 01	UR MC 201	UR MC 301	UR MC 302	UR PF1 01	UR PF2 01	WB SB3 05	WB WB 310	WB WB3 10A
American Eel	X	X	-	X	-	-	-	X	X	X	-	X	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	X	X
Black Crappie	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Blacknose Dace	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Blue Ridge Sculpin	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X	-
Bluegill	X	X	-	-	X	-	X	-	X	X	-	-	-	-	X	X	-	-	-	-	X	-	X	-	X	X	X	X	X
Bluehead Chub	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X
Bluntnose Minnow	X	-	-	-	-	-	X	-	-	X	-	X	-	-	X	X	-	-	-	-	-	-	-	X	-	-	X	X	-
Brown Bullhead	-	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-
Central Stoneroller	X	X	-	-	-	X	-	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	X	X	X
Common Shiner	X	X	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-
Creek Chub	X	X	X	X	-	-	-	X	-	X	X	X	X	X	X	-	X	-	-	X	X	X	X	X	X	X	X	X	X
Cutlips Minnow	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X	-
Cyprinella Sp.	-	X	-	-	-	-	-	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Eastern Mosquitofish	-	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	X	-	-	-
Fallfish	-	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fantail Darter	X	X	-	X	-	-	-	-	-	-	-	-	-	X	X	X	-	-	-	X	-	-	-	-	X	-	X	X	X
Fathead Minnow	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Fish Species	CJ CJ3 05	CJK B2 01	CJT B10 1B	GS LS2 05	LFL F30 1A	LFL F30 1B	LFL F30 1C	LRL R2 05	LRL R4 04	LRL R4 13	LRS B10 1A	LRS B10 1C	LRS T10 1A	MB MB 203	MB MB 302	MB MB 314	PO FO 101	PO GE2 01	PO SI2 01	RO RO 102	UR FV2 01	UR MC 201	UR MC 301	UR MC 302	UR PF1 01	UR PF2 01	WB SB3 05	WB WB 310	WB WB3 10A	
Golden Redhorse	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Golden Shiner	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Goldfish	-	-	-	X	-	-	-	-	-	-	-	-	X	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Green Sunfish	X	X	-	X	-	-	X	X	X	X	X	-	X	-	X	X	-	-	-	X	-	X	X	-	X	X	X	X	X	
Greenside Darter	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	X	X	X
Hybrid Sunfish	-	X	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Largemouth Bass	-	X	-	-	X	X	X	-	X	X	-	-	-	-	X	-	-	-	-	-	X	X	X	-	X	X	X	X	X	
Longnose Dace	X	X	-	X	-	-	-	X	X	X	X	X	-	-	X	X	-	-	-	X	X	-	X	X	X	X	X	X	X	X
Margined Madtom	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X
Mummichog	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nocomis Sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
Northern Hogsucker	-	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X
Potomac Sculpin	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	X	X	X	X	X	X	X	X	X	X
Pumpkinseed	-	X	-	-	-	-	X	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-
Redbreast Sunfish	X	X	-	X	X	X	X	-	X	X	X	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-	X	X
River Chub	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	X	-
Rock Bass	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
Rosyside Dace	-	X	-	X	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	X	-	X	X	X	X	X	X	X	X	-

Fish Species	CJ CJ3 05	CJK B2 01	CJT B10 1B	GS LS2 05	LFL F30 1A	LFL F30 1B	LFL F30 1C	LRL R2 05	LRL R4 04	LRL R4 13	LRS B10 1A	LRS B10 1C	LRS T10 1A	MB MB 203	MB MB 302	MB MB 314	PO FO 101	PO GE2 01	PO SI2 01	RO RO 102	UR FV2 01	UR MC 201	UR MC 301	UR MC 302	UR PF1 01	UR PF2 01	WB SB3 05	WB WB 310	WB WB3 10A	
Satinfin Shiner	X	X	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sea Lamprey	X	X	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silverjaw Minnow	X	X	-	-	-	-	-	-	-	X	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	-	X	X	-
Smallmouth Bass	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	
Spotfin Shiner	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	X	-	
Spottail Shiner	-	X	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Swallowtail Shiner	X	-	-	-	-	-	-	X	X	X	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	X	-	
Tessellated Darter	X	X	-	-	-	-	-	-	X	X	-	-	-	X	X	X	-	-	-	-	-	-	-	-	-	X	X	X	X	X
White Sucker	X	X	-	X	-	-	-	X	X	X	X	X	X	-	X	-	-	-	-	X	X	X	X	X	X	X	X	X	X	X
Yellow Bullhead	X	-	-	-	-	-	-	-	X	X	-	-	-	-	X	X	-	-	-	-	X	-	X	-	X	X	X	X	X	X

Table 20: Offsite MNCPPC Fish Taxa List

Fish Species	CJCJ305	CJKB201	GSCB303	LFLF301A	LFLF301C	LRST101A	MBMB305	MBMB307	MBMB314	RORO102	RORO202	WBWB307
American Eel	X	-	X	-	-	X	-	X	-	-	-	-
Blacknose Dace	X	X	X	X	X	X	-	X	X	X	X	X
Blue Head Chub	-	-	-	-	-	-	-	X	-	-	-	-
Blue Ridge Sculpin	-	-	X	-	-	-	-	-	-	-	-	X
Bluegill	X	X	X	-	X	-	X	X	X	-	-	X
Bluntnose Minnow	X	X	X	-	X	X	X	X	X	-	-	X
Brown Bullhead	-	X	-	-	-	-	-	-	-	-	-	-
Central Stoneroller	X	X	X	-	-	-	X	X	X	-	-	X
Common Shiner	X	X	X	-	-	-	-	X	-	-	-	X
Creek Chub	X	X	X	-	-	X	X	X	-	X	X	X
Creek Chubsucker	-	-	X	-	-	-	-	-	-	-	-	-
Cutlip Minnow	-	X	-	-	-	-	-	-	-	-	X	X
Eastern Mosquitofish	-	-	-	-	-	-	-	-	-	-	-	X
Fallfish	-	-	X	-	-	-	-	-	-	-	-	-
Fantail Darter	X	X	X	-	-	-	X	X	X	X	X	X
Fathead Minnow	-	-	-	-	X	-	-	-	-	-	-	-
Golden Redhorse	X	-	-	-	-	-	-	-	-	-	-	-
Golden Shiner	-	-	-	-	-	X	-	-	-	-	-	-
Green Sunfish	X	X	X	-	X	-	X	X	X	X	X	X
Greenside Darter	X	-	-	-	-	-	X	X	X	-	-	X
Largemouth Bass	-	X	X	-	-	-	X	X	-	-	X	X
Longnose Dace	X	X	X	-	-	X	X	X	X	-	X	X
Mosquitofish	-	-	-	-	-	X	-	-	-	-	-	-
Northern Hogsucker	-	-	-	-	-	-	-	-	-	-	-	X
Potomac Sculpin	X	X	X	-	-	-	-	-	X	-	-	X
Pumpkinseed	-	-	-	-	X	-	-	-	-	-	-	X

Fish Species	CJCJ305	CJKB201	GSCB303	LFLF301A	LFLF301C	LRST101A	MBMB305	MBMB307	MBMB314	RORO102	RORO202	WBWB307
Redbreast Sunfish	X	X	X	-	-	-	-	X	X	-	-	X
River Chub	-	-	-	-	-	-	-	-	X	-	-	-
Rosyside Dace	-	X	-	-	-	-	-	-	-	X	X	X
Satinfin Shiner	X	-	-	-	-	X	-	-	-	-	-	-
Sea Lamprey	X	-	-	-	-	-	-	-	-	-	-	-
Silverjaw Minnow	X	X	-	-	-	-	-	X	X	-	-	X
Smallmouth Bass	X	-	-	-	-	-	-	-	-	-	-	X
Spotfin Shiner	X	-	-	-	-	-	-	-	X	-	-	X
Swallowtail Shiner	X	-	-	-	-	X	-	-	-	-	-	X
Tessellated Darter	X	X	-	-	-	-	X	X	X	-	X	X
White Sucker	X	X	X	-	-	X	X	X	-	X	X	X
Yellow Bullhead	X	-	X	-	-	X	X	X	X	-	X	X

Table 21: Offsite MBSS and Maryland Department of Transportation State Highway Administration (MDOT SHA) Fish Taxa List

Fish Species	CABJ-104-B	NB-3	PRMO-204-R	RC-131-US
American Eel	X	-	-	X
Blacknose Dace	X	X	X	X
Blue Ridge Sculpin	-	-	X	-
Bluegill	X	-	X	X
Bluntnose Minnow	X	-	X	X
Brown Bullhead	-	-	-	X
Central Stoneroller	X	-	X	-
Common Shiner	X	-	X	-
Creek Chub	X	X	X	-
Cutlip Minnow	-	-	X	X
Fallfish	-	-	-	X

Fish Species	CABJ-104-B	NB-3	PRMO-204-R	RC-131-US
Fantail Darter	X	-	X	-
Golden Shiner	-	-	-	X
Green Sunfish	X	-	X	X
Greenside Darter	-	-	X	-
Largemouth Bass	-	-	-	X
Longnose Dace	X	-	X	X
Potomac Sculpin	X	X	X	-
Pumpkinseed	-	-	X	X
Redbreast Sunfish	X	-	X	X
Rosyside Dace	X	X	X	-
Satinfish Shiner	-	-	-	X
Silverjaw Minnow	X	-	X	-
Spotfin Shiner	-	-	-	X
Spottail Shiner	-	-	-	X
Sunfish (Hybrid)	-	-	X	-
Swallowtail Shiner	-	-	-	X
Tessellated Darter	X	-	X	X
White Sucker	X	X	X	X
Yellow Bullhead	-	-	X	X

Table 22: Park Mitigation MCDEP Fish Taxa List

Fish Species	CJCJ202	CJCJ302	CJCJ306	CJOF204
American Eel	X	X	X	X
Black Crappie	-	-	X	-
Blacknose Dace	X	X	X	X
Bluegill	X	X	X	-
Bluntnose Minnow	-	X	X	-
Central Stoneroller	X	X	X	X
Common Shiner	-	X	X	-
Creek Chub	X	X	X	X
Eastern Silvery Minnow	X	-	-	-
Fantail Darter	X	X	X	X
Golden Shiner	X	X	-	X
Goldfish	X	-	-	-
Green Sunfish	X	X	X	X
Greenside Darter	-	-	X	-
Hybrid Sunfish	-	-	X	-
Largemouth Bass	-	X	X	-
Longear Sunfish	-	-	X	-
Longnose Dace	X	X	X	X
Margined Madtom	-	-	X	-
Potomac Sculpin	-	X	X	-
Pumpkinseed	X	X	X	-
Redbreast Sunfish	X	X	X	X
Rock Bass	-	-	X	-
Rosyface Shiner	-	-	X	-
Rosyside Dace	X	X	-	X
Satinfin Shiner	-	-	X	-

Fish Species	CJCJ202	CJCJ302	CJCJ306	CJOF204
Sea Lamprey	-	X	X	-
Silverjaw Minnow	X	X	X	X
Smallmouth Bass	-	X	X	-
Spotfin Shiner	-	X	X	-
Spottail Shiner	-	X	-	-
Swallowtail Shiner	X	X	X	-
Tessellated Darter	X	X	X	X
White Sucker	X	X	X	X
Yellow Bullhead	-	X	X	X

Table 23: Park Mitigation MNCPPC Fish Taxa List

Fish Species	CJCJ202	CJCJ303	CJCJ306	CJOF204
American Eel	X	X	X	X
Black Crappie	-	-	X	-
Blacknose Dace	X	X	X	X
Bluegill	X	X	X	-
Bluntnose Minnow	-	X	X	-
Central Stoneroller	X	X	X	X
Channel Catfish	-	-	X	-
Common Shiner	X	X	X	X
Creek Chub	X	X	X	X
Eastern Mosquitofish	X	-	-	-
Eastern Silvery Minnow	-	-	X	-
Fallfish	-	X	X	-
Fantail Darter	X	X	X	X
Golden Redhorse	-	X	X	-

Fish Species	CJCJ202	CJCJ303	CJCJ306	CJOF204
Golden Shiner	X	-	-	X
Green Sunfish	X	X	X	X
Greenside Darter	-	X	X	X
Largemouth Bass	-	X	X	-
Longear Sunfish	-	-	X	-
Longnose Dace	X	X	X	X
Potomac Sculpin	-	-	X	-
Pumpkinseed	X	-	X	-
Redbreast Sunfish	X	X	X	X
Rosyside Dace	X	X	-	X
Sea Lamprey	X	X	X	-
Silverjaw Minnow	X	X	X	X
Smallmouth Bass	-	X	X	-
Spotfin Shiner	-	X	X	-
Spottail Shiner	-	-	X	-
Swallowtail Shiner	X	X	X	-
Tessellated Darter	X	X	X	X
White Sucker	X	X	X	X
Yellow Bullhead	X	X	X	-

Table 24: Park Mitigation MBSS Fish Taxa List

Fish Species	CABJ-208-B
American Eel	X
Blacknose Dace	X
Bluntnose Minnow	X
Central Stoneroller	X
Common Shiner	X
Creek Chub	X
Fantail Darter	X
Green Sunfish	X
Largemouth Bass	X
Longnose Dace	X
Pumpkinseed	X
Redbreast Sunfish	X
River Chub	X
Sea Lamprey	X
Silverjaw Minnow	X
Smallmouth Bass	X
Spotfin Shiner	X
Tessellated Darter	X
White Sucker	X
Yellow Bullhead	X