

MDE IMPACT SUMMARY TABLES



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M A R Y L A N D

I-495 & I-270 Managed Lanes Study

June 2022

MDE IMPACT TABLES

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IMPACT ID DESIGNATION KEY

FEATURE NAMING CONVENTION ¹	DESCRIPTION
IMPACT ID_1 ²	Used to designate separate segments of a waterway feature to characterize differences such as channel type, classification, watershed, or geography.
IMPACT ID_C	Used to designate a culvert channel type, usually flowing between two segments of a waterway feature that have different channel types. Some features may have a “culvert” channel type without the “_C” designation if they do not have multiple segments.
IMPACT ID_D	Used to designate a ditch channel type. Some features may have a “ditch” channel type without the “_D” designation if they do not have multiple segments.
IMPACT ID_B	Used to designate features that are bridged. All features that are underneath bridges are given this designation.
IMPACT ID_C1	Used to designate more than one culverted, bridged, or ditched section of a feature.

¹ Impact IDs are not limited to one naming convention. An impacted feature may have multiple designations (e.g. 11M, 11M_1, 11M_B).

² Impact IDs with “_1” are not limited to one number. An impacted feature may have multiple segments (e.g. 21C_1, 21C_2).

MDE IMPACT TABLES

SUMMARY OF IMPACTS TO WATERWAYS BY HUC 8 WATERSHED

WATERSHED	WATERWAYS (SF)			WATERWAYS (LF)		
	Intermittent	Perennial	Total	Intermittent	Perennial	Total
02070008	87,456	848,410	935,866	11,660	28,029	39,689
Permanent	79,494	533,725	613,219	10,476	26,913	37,389
Temporary	7,962	314,685	322,647	1,184	1,116	2,300
02070010	635	3,246	3,881	204	203	407
Permanent	635	3,246	3,881	204	203	407
Total	88,091	851,656	939,747	11,864	28,232	40,096

SUMMARY OF IMPACTS TO WETLANDS BY HUC 8 WATERSHED

IMPACT TYPE	WETLANDS (SF)				WETLANDS (AC)			
	PEM	PFO	PSS	Total	PEM	PFO	PSS	Total
Permanent	115,107	37,346	481	152,934	2.64	0.86	0.01	3.51
Temporary	11,454	9,666	0	21,120	0.26	0.22	0.00	0.48
Total	126,561	47,012	481	174,054	2.91	1.08	0.01	4.00

NOTE: All wetlands and their buffers are located in the Middle Potomac-Catoctin (HUC8 02070008) watershed.

SUMMARY OF IMPACTS TO WETLAND BUFFERS BY HUC 8 WATERSHED

IMPACT TYPE	WETLAND BUFFER (SF)				WETLAND BUFFER (AC)			
	PEM	PFO	PSS	Total	PEM	PFO	PSS	Total
Permanent	146,183	121,535	4,841	272,559	3.36	2.79	0.11	6.26
Temporary	14,479	3,455	0	17,934	0.33	0.08	0.00	0.41
Total	160,662	124,990	4,841	290,493	3.69	2.87	0.11	6.67

NOTE: All wetlands and their buffers are located in the Middle Potomac-Catoctin (HUC8 02070008) watershed.

MDE IMPACT TABLES

SUMMARY OF IMPACTS TO WATERWAYS BY MDE 8-DIGIT WATERSHED

WATERSHED	WATERWAYS (SF)			WATERWAYS (LF)		
	Intermittent	Perennial	Total	Intermittent	Perennial	Total
02140202	48,736	413,580	462,316	5,310	4,748	10,058
Permanent	40,852	101,980	142,832	4,136	3,714	7,850
Temporary	7,884	311,600	319,484	1,174	1,034	2,208
02140206	635	3,246	3,881	204	203	407
Permanent	635	3,246	3,881	204	203	407
02140207	38,720	434,830	473,550	6,350	23,281	29,631
Permanent	38,642	431,745	470,387	6,340	23,199	29,539
Temporary	78	3,085	3,163	10	82	92
Total	88,091	851,656	939,747	11,864	28,232	40,096

SUMMARY OF IMPACTS TO WETLANDS BY MDE 8-DIGIT WATERSHED

WATERSHED	WETLANDS (SF)				WETLANDS (AC)			
	PEM	PFO	PSS	Total	PEM	PFO	PSS	Total
02140202	82,552	33,710	481	116,743	1.90	0.77	0.01	2.68
Permanent	71,455	24,044	481	95,980	1.64	0.55	0.01	2.20
Temporary	11,097	9,666	0	20,763	0.25	0.22	0.00	0.48
02140207	44,009	13,302	0	57,311	1.01	0.31	0.00	1.32
Permanent	43,652	13,302	0	56,954	1.00	0.31	0.00	1.31
Temporary	357	0	0	357	0.01	0.00	0.00	0.01
Total	126,561	47,012	481	174,054	2.91	1.08	0.01	4.00

MDE IMPACT TABLES

SUMMARY OF IMPACTS TO WETLAND BUFFERS BY MDE 8-DIGIT WATERSHED

WATERSHED	WETLAND BUFFER (SF)				WETLAND BUFFER (AC)			
	PEM	PFO	PSS	Total	PEM	PFO	PSS	Total
02140202	62,980	67,537	4,841	135,358	1.45	1.55	0.11	3.11
Permanent	48,599	64,082	4,841	117,522	1.12	1.47	0.11	2.70
Temporary	14,381	3,455	0	17,836	0.33	0.08	0.00	0.41
02140207	97,682	57,453	0	155,135	2.24	1.32	0.00	3.56
Permanent	97,584	57,453	0	155,037	2.24	1.32	0.00	3.56
Temporary	98	0	0	98	0.00	0.00	0.00	0.00
Total	160,662	124,990	4,841	290,493	3.69	2.87	0.11	6.67

MDE IMPACT TABLES

SUMMARY OF IMPACTS TO 100-YEAR FLOODPLAINS

ASSOCIATED WATERWAY	RELATED FEATURES	FIRM PANEL	IMPACT PLATE	HUC 8 NAME	PERMANENT IMPACT (SF)	TEMPORARY IMPACT (SF)	TOTAL IMPACT (SF)	TOTAL IMPACT (AC)
Watts Branch 1	27A, 27A_C, 27D	24031C0333D, 51059C0075E	18	Middle Potomac-Catoctin	14,366	108	14,474	0.33
Watts Branch 2	27A_1, 27A_2, 27A_3, 27A_C1, 27A_C2, 26C_1	24031C0333D, 51059C0075E	17, 18	Middle Potomac-Catoctin	136,456	0	136,456	3.13
Thomas Branch 1	23A, 23A_C	24031C0345D, 51059C0075E	10	Middle Potomac-Catoctin	4,918	0	4,918	0.11
Thomas Branch 2	21C, 21C_1, 21C_2, 21C_C, 21C_C1, 23A_3	24031C0345D, 24031C0435D, 51059C0075E	6, 7, 8, 9	Middle Potomac-Catoctin	581,793	2,313	584,106	13.41
Cabin John Creek	22AA, 22AA_1, 22AA_2, 22AA_B, 22AA_B1, 22DD	24031C0435D, 51059C0160E	5, 6	Middle Potomac-Catoctin	30,058	3,386	33,444	0.77
Potomac River	22HH_2, 22M_C, 22MM, 22MM_B, 22NN, 22NN_B, 22P, 22QQ, 22UU	24031C0435D, 51059C0160E	2, 3	Middle Potomac-Catoctin	158,691	315,859	474,550	10.89
Unnamed tributary to Old Farm Creek	23N, 23N_C, 23U	24031C0342D, 51059C0075E	22	Middle Potomac-Catoctin	8,369	0	8,369	0.19
Booze Creek	22Z, 22Z_C	24031C0435D, 51059C0160E	5	Middle Potomac-Catoctin	42,362	0	42,362	0.97
Muddy Branch	29B, 29B_1, 29B_C, 29P	24031C0327D, 51059C0075E	21	Middle Potomac-Catoctin	67,903	0	67,903	1.56
Rock Run	22HH_2, 22M, 22N	24031C0435D, 51059C0160E	3	Middle Potomac-Catoctin	2,849	0	2,849	0.07
Unnamed tributary to Muddy Branch	29D_D	24031C0327D, 51059C0075E	21	Middle Potomac-Catoctin	3,460	0	3,460	0.08
Unnamed tributary to Watts Branch	26C_1, 26C_C, 26C_C1	24031C0333D, 51059C0075E	17	Middle Potomac-Catoctin	0	1,591	1,591	0.04
TOTAL					1,051,225	323,257	1,374,482	31.55

NOTE: Floodplain impacts are not shown in their entirety on the impact plates

MDE IMPACT TABLES

PLATE 2 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
22MM	Perennial	Open Channel	14,142	167	Permanent
22MM	Perennial	Open Channel	243,446	855	Temporary
22MM_B	Perennial	Bridge	11,563	0	Permanent
22MM_B	Perennial	Bridge	67,060	140	Temporary
22NN	Intermittent	Open Channel	3,474	276	Temporary
22NN_B	Intermittent	Bridge	10	8	Permanent
22NN_B	Intermittent	Bridge	1,589	159	Temporary
22QQ	Intermittent	Open Channel	469	106	Temporary

PLATE 2 – WETLAND IMPACTS

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
2200	PFO	2,471	5,706	Permanent
2200	PFO	9,666	3,455	Temporary

PLATE 2 – FLOODPLAIN IMPACTS

FLOODPLAIN	IMPACT (SF)	IMPACT TYPE
Potomac River	73,160	Permanent
Potomac River	198,809	Temporary

MDE IMPACT TABLES

PLATE 3 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
22HH	Intermittent	Ditch	1,157	230	Permanent
22HH_1	Intermittent	Ditch	925	154	Permanent
22HH_2	Intermittent	Open Channel	608	117	Permanent
22HH_C	Intermittent	Culvert	422	47	Permanent
22HH_C	Intermittent	Culvert	590	67	Temporary
22M_C	Perennial	Culvert	1,094	39	Temporary
22P	Intermittent	Open Channel	26	10	Permanent
22Q	Perennial	Open Channel	1,112	136	Permanent
22Q_C	Perennial	Culvert	1,263	223	Permanent
22T	Intermittent	Open Channel	127	9	Permanent
22T_1	Intermittent	Open Channel	261	35	Permanent
22T_2	Intermittent	Open Channel	497	92	Permanent
22T_B	Intermittent	Bridge	1,803	153	Permanent
22T_B1	Intermittent	Bridge	194	28	Permanent
22V	Intermittent	Ditch	190	76	Temporary
22V_1	Intermittent	Ditch	2	1	Permanent
22V_1	Intermittent	Ditch	91	40	Temporary
22V_2	Intermittent	Ditch	1,083	255	Temporary
22V_B	Intermittent	Bridge	331	168	Temporary
22V_B1	Intermittent	Bridge	2	2	Permanent
22V_B1	Intermittent	Bridge	67	27	Temporary

MDE IMPACT TABLES

PLATE 3 – WETLAND IMPACTS

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
22K	PEM	0	44	Temporary
22O	PFO	0	1,512	Permanent
22PP	PFO	643	5,433	Permanent
22U	PFO	1,007	7,449	Permanent
22W	PEM	4,099	5,469	Permanent
22W	PEM	11,023	13,378	Temporary
22X	PFO	1,120	6,040	Permanent
22Y	PEM	1,791	9,133	Permanent

PLATE 3 – FLOODPLAIN IMPACTS

FLOODPLAIN	IMPACT (SF)	IMPACT TYPE
Potomac River	117,050	Temporary
Potomac River	85,531	Permanent
Rock Run	2,849	Permanent

PLATE 4 – WETLAND IMPACTS

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
22E	PEM	237	4,256	Permanent

MDE IMPACT TABLES

PLATE 5 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
22AA_1	Perennial	Open Channel	1,439	24	Permanent
22AA_1	Perennial	Open Channel	2,912	53	Temporary
22AA_2	Perennial	Open Channel	5,477	99	Permanent
22AA_3	Perennial	Open Channel	10,295	332	Permanent
22AA_B	Perennial	Bridge	3,245	42	Permanent
22AA_B1	Perennial	Bridge	8,112	201	Permanent
22DD	Intermittent	Open Channel	945	167	Permanent
22H	Intermittent	Ditch	170	78	Permanent
22H_1	Intermittent	Open Channel	51	10	Permanent
22H_C	Intermittent	Culvert	760	95	Permanent
22KK	Perennial	Open Channel	556	58	Permanent
22Z	Perennial	Open Channel	3,177	75	Permanent
22Z_1	Perennial	Open Channel	2,210	81	Permanent
22Z_C	Perennial	Culvert	3,601	99	Permanent

PLATE 5 – WETLAND IMPACTS

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
22F	PEM	928	10,820	Permanent
22G	PFO	850	8,444	Permanent
22GG	PEM	804	4,339	Permanent

PLATE 5 – FLOODPLAIN IMPACTS

FLOODPLAIN	IMPACT (SF)	IMPACT TYPE
Booze Creek	42,362	Permanent
Cabin John Creek	1,773	Temporary
Cabin John Creek	22,689	Permanent

MDE IMPACT TABLES

PLATE 6 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
21C_1	Perennial	Open Channel	15,733	645	Permanent
21C_2	Perennial	Open Channel	30,835	1,233	Permanent
21C_C1	Perennial	Culvert	4,836	321	Permanent
21C_C2	Perennial	Culvert	3,824	328	Permanent
21D	Intermittent	Ditch	105	106	Permanent
21D_1	Intermittent	Ditch	1,952	291	Permanent
21D_C	Intermittent	Culvert	1,035	316	Permanent
21D_C1	Intermittent	Culvert	798	119	Permanent
21F	Intermittent	Open Channel	1,054	228	Permanent
21F_C	Intermittent	Culvert	1,837	258	Permanent
21G	Intermittent	Ditch	128	54	Permanent
22A	Intermittent	Ditch	724	269	Permanent
22A_C	Intermittent	Culvert	439	152	Permanent
22AA	Perennial	Open Channel	3,545	181	Permanent
22AA	Perennial	Open Channel	1	1	Temporary
22B	Intermittent	Ditch	99	36	Permanent
22C	Intermittent	Ditch	146	51	Permanent
22C_C	Intermittent	Culvert	203	91	Permanent
22D	Intermittent	Ditch	305	144	Permanent

PLATE 6 – FLOODPLAIN IMPACTS

FLOODPLAIN	IMPACT (SF)	IMPACT TYPE
Cabin John Creek	1,613	Temporary
Cabin John Creek	7,369	Permanent
Thomas Branch 2	79,181	Permanent

MDE IMPACT TABLES

PLATE 7 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
21C	Perennial	Open Channel	39,681	1,702	Permanent
21C_1	Perennial	Open Channel	38,400	1,487	Permanent
21C_C	Perennial	Culvert	3,633	252	Permanent
21L_C	Perennial	Culvert	1,743	270	Permanent
21L_D	Perennial	Ditch	298	40	Permanent
21L_D1	Perennial	Ditch	83	20	Permanent
21M	Intermittent	Ditch	57	25	Permanent

PLATE 7 – WETLAND IMPACTS

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
21P	PFO	709	3,844	Permanent
21Q	PFO	0	2,342	Permanent
21T	PFO	1,054	3,935	Permanent

PLATE 7 – FLOODPLAIN IMPACTS

FLOODPLAIN	IMPACT (SF)	IMPACT TYPE
Thomas Branch 2	298,330	Permanent
Thomas Branch 2	1,974	Temporary

MDE IMPACT TABLES

PLATE 8 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
21B	Perennial	Open Channel	15,123	1,547	Permanent
21B_C	Perennial	Culvert	2,746	261	Permanent
21C	Perennial	Open Channel	67,012	3,286	Permanent
21J	Perennial	Ditch	243	13	Permanent
21K	Intermittent	Open Channel	28	5	Permanent
21U	Perennial	Open Channel	2,082	143	Permanent
21V	Intermittent	Open Channel	827	115	Permanent
21V	Intermittent	Open Channel	78	10	Temporary

PLATE 8 – FLOODPLAIN IMPACTS

FLOODPLAIN	IMPACT (SF)	IMPACT TYPE
Thomas Branch 2	111,623	Permanent
Thomas Branch 2	340	Temporary

MDE IMPACT TABLES

PLATE 9 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
21C	Perennial	Open Channel	10,501	551	Permanent
21I	Perennial	Open Channel	22	6	Permanent
23A_2	Perennial	Open Channel	2,301	200	Permanent
23A_3	Perennial	Open Channel	21,607	1,460	Permanent
23A_C1	Perennial	Culvert	1,619	147	Permanent
23A_C2	Perennial	Culvert	2,977	236	Permanent
23AA	Perennial	Open Channel	551	104	Permanent
23AA_1	Perennial	Open Channel	1,332	257	Permanent
23AA_C	Perennial	Culvert	453	101	Permanent
23AA_C1	Perennial	Culvert	675	220	Permanent
23D	Intermittent	Ditch	7,793	775	Permanent
23D_C	Intermittent	Culvert	2,456	255	Permanent

PLATE 9 – WETLAND IMPACTS

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
23BB	PEM	1,406	10,320	Permanent
23L	PEM	253	3,661	Permanent
23MM	PFO	2,932	4,520	Permanent

PLATE 9 – FLOODPLAIN IMPACTS

FLOODPLAIN	IMPACT (SF)	IMPACT TYPE
Thomas Branch 2	92,659	Permanent

MDE IMPACT TABLES

PLATE 10 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23A	Perennial	Open Channel	732	44	Permanent
23A_1	Perennial	Open Channel	7,762	454	Permanent
23A_C	Perennial	Culvert	4,185	216	Permanent
23A_C1	Perennial	Culvert	4,001	260	Permanent
23V	Intermittent	Ditch	117	51	Permanent
23V_C	Intermittent	Culvert	2,245	777	Permanent

PLATE 10 – WETLAND IMPACTS

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
23CC	PFO	2,985	7,657	Permanent
23W	PEM	3,981	6,751	Permanent
23W	PEM	357	44	Temporary

PLATE 10 – FLOODPLAIN IMPACTS

FLOODPLAIN	IMPACT (SF)	IMPACT TYPE
Thomas Branch 1	4,918	Permanent

MDE IMPACT TABLES

PLATE 11 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23DD	Intermittent	Open Channel	641	98	Permanent
23K	Perennial	Open Channel	766	89	Permanent
23K_1	Perennial	Open Channel	598	102	Permanent
23K_C	Perennial	Culvert	1,711	178	Permanent
23K_C1	Perennial	Culvert	505	64	Permanent
23K_C1	Perennial	Culvert	122	20	Temporary
23K_D	Perennial	Ditch	5,035	691	Permanent
23K_D	Perennial	Ditch	50	8	Temporary
24A	Perennial	Open Channel	4,008	138	Permanent
24A_1	Perennial	Open Channel	6,789	224	Permanent
24A_C	Perennial	Culvert	6,427	320	Permanent

PLATE 11 – WETLAND IMPACTS

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
23F	PEM	365	3,677	Permanent
23GG	PFO	1,389	8,384	Permanent
23X	PEM	1,039	8,732	Permanent
24W	PEM	0	264	Permanent
24X	PEM	91	1,855	Permanent

MDE IMPACT TABLES

PLATE 12 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
24C	Intermittent	Open Channel	600	44	Permanent

PLATE 13 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
24D	Perennial	Open Channel	8,048	697	Permanent
24F_2	Perennial	Open Channel	3,902	135	Permanent
24F_3	Perennial	Open Channel	2,276	134	Permanent
24F_C2	Perennial	Culvert	7,102	390	Permanent
24K	Intermittent	Open Channel	449	67	Permanent
24V	Intermittent	Open Channel	292	52	Permanent
24V_C	Intermittent	Culvert	2,544	425	Permanent

PLATE 13 – WETLAND IMPACTS

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
24N	PFO	917	6,399	Permanent
24Q	PFO	1,744	5,471	Permanent

MDE IMPACT TABLES

PLATE 14 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
24F_C1	Perennial	Culvert	3,688	191	Permanent

PLATE 14 – WETLAND IMPACTS

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
24R	PFO	0	2,240	Permanent

PLATE 15 – WETLAND IMPACTS

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
25M	PEM	0	81	Permanent
25M	PEM	0	54	Temporary

MDE IMPACT TABLES

PLATE 16 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
25E	Perennial	Open Channel	27,438	360	Permanent
25H	Perennial	Open Channel	1,589	220	Permanent
25H_1	Perennial	Open Channel	10,254	336	Permanent
25H_C	Perennial	Culvert	2,682	420	Permanent
25N	Intermittent	Open Channel	350	72	Permanent

PLATE 16 – WETLAND IMPACTS

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
25D	PFO	637	3,032	Permanent
25K	PEM	34,215	45,608	Permanent
25P	PFO	85	1,185	Permanent
26H	PEM	10	1,374	Permanent

MDE IMPACT TABLES

PLATE 17 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
26B	Intermittent	Open Channel	5,791	432	Permanent
26B_1	Intermittent	Open Channel	315	22	Permanent
26B_C	Intermittent	Culvert	6,809	306	Permanent
26B_C1	Intermittent	Culvert	489	47	Permanent
26C	Intermittent	Open Channel	2,814	373	Permanent
26C_1	Intermittent	Open Channel	388	30	Permanent
26C_C	Intermittent	Culvert	4,317	360	Permanent
26C_C1	Intermittent	Culvert	376	22	Permanent
26J	Intermittent	Open Channel	191	31	Permanent
26K	Intermittent	Open Channel	3,920	328	Permanent
26L	Intermittent	Open Channel	69	11	Permanent

PLATE 17 – WETLAND IMPACTS

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
26A	PFO	12,406	22,370	Permanent
26D	PEM	817	4,096	Permanent
26E	PEM	356	3,543	Permanent
26E	PEM	74	959	Temporary
26F	PEM	63,439	18,032	Permanent

PLATE 17 – FLOODPLAIN IMPACTS

FLOODPLAIN	IMPACT (SF)	IMPACT TYPE
Unnamed tributary to Watts Branch	1,591	Temporary
Watts Branch 2	5,396	Permanent

MDE IMPACT TABLES

PLATE 18 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
27A	Perennial	Open Channel	4,702	141	Permanent
27A_1	Perennial	Open Channel	15,652	648	Permanent
27A_2	Perennial	Open Channel	2,914	89	Permanent
27A_3	Perennial	Open Channel	3,463	131	Permanent
27A_C	Perennial	Culvert	10,081	325	Permanent
27A_C1	Perennial	Culvert	4,089	152	Permanent
27A_C2	Perennial	Culvert	2,472	85	Permanent
27B	Intermittent	Open Channel	352	46	Permanent
27D	Intermittent	Open Channel	1,468	162	Permanent
27H	Intermittent	Open Channel	207	35	Permanent
27N	Intermittent	Open Channel	98	19	Permanent
27P	Perennial	Open Channel	529	39	Permanent

PLATE 18 – WETLAND IMPACTS

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
27E	PFO	0	2,108	Permanent
27F	PFO	535	3,562	Permanent
27G	PSS	481	4,841	Permanent
27Q	PEM	706	2,656	Permanent
27S	PEM	0	40	Permanent

PLATE 18 – FLOODPLAIN IMPACTS

FLOODPLAIN	IMPACT (SF)	IMPACT TYPE
Watts Branch 1	14,366	Permanent
Watts Branch 1	108	Temporary
Watts Branch 2	131,060	Permanent

MDE IMPACT TABLES

PLATE 19 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
27L	Intermittent	Open Channel	101	19	Permanent
27L_C	Intermittent	Culvert	1,632	405	Permanent

PLATE 19 – WETLAND IMPACTS

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
27M	PFO	5,862	9,902	Permanent

PLATE 20 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
28B	Intermittent	Ditch	3,222	354	Permanent
29A	Perennial	Open Channel	2,956	169	Permanent
29A_1	Perennial	Open Channel	280	26	Permanent
29A_C	Perennial	Culvert	1,065	48	Permanent
29A_C1	Perennial	Culvert	3,346	224	Permanent
29A_C2	Perennial	Culvert	10,314	461	Permanent
29K	Intermittent	Open Channel	896	129	Permanent

MDE IMPACT TABLES

PLATE 21 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
29A_2	Perennial	Open Channel	5,233	280	Permanent
29A_C2	Perennial	Culvert	101	4	Permanent
29B_C	Perennial	Culvert	6,703	366	Permanent
29D_D	Intermittent	Ditch	1,363	119	Permanent

PLATE 21 – FLOODPLAIN IMPACTS

FLOODPLAIN	IMPACT (SF)	IMPACT TYPE
Muddy Branch	67,903	Permanent
Unnamed tributary to Muddy Branch	3,460	Permanent

MDE IMPACT TABLES

PLATE 22 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23N	Intermittent	Open Channel	2,095	199	Permanent
23N_1	Perennial	Open Channel	2,225	184	Permanent
23N_C	Intermittent	Culvert	6,176	583	Permanent
23N_D	Intermittent	Ditch	275	33	Permanent
23U	Perennial	Ditch	184	31	Permanent
23U_1	Perennial	Open Channel	77	18	Permanent
23U_C	Perennial	Culvert	1,225	317	Permanent
23U_C1	Perennial	Culvert	274	68	Permanent

PLATE 22 – WETLAND IMPACTS

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
23LL	PEM	570	1,476	Permanent

PLATE 22 – FLOODPLAIN IMPACTS

FLOODPLAIN	IMPACT (SF)	IMPACT TYPE
Unnamed tributary to Old Farm Creek	6,292	Permanent
Unnamed tributary to Old Farm Creek	2,077	Permanent

MDE IMPACT TABLES

PLATE 23 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23R_C	Intermittent	Culvert	635	204	Permanent

PLATE 24 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23Q_C	Perennial	Culvert	3,246	203	Permanent

PLATE 25 – WATERWAY IMPACTS

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
20B	Intermittent	Open Channel	351	83	Permanent
20C	Perennial	Ditch	112	37	Permanent
20C_C	Intermittent	Culvert	455	169	Permanent
20D	Perennial	Open Channel	3,027	390	Permanent
20D_C	Perennial	Culvert	1,895	180	Permanent
20E	Intermittent	Open Channel	140	47	Permanent
21B	Perennial	Open Channel	3,261	289	Permanent