

I - 495 & I - 270 MANAGED LANES STUDY

MDE Wetland and Waterway Impact Tables



MDE IMPACT TABLES

Table of Contents

IMPACT ID DESIGNATION KEY 1

IMPACT TYPE KEY 2

SUMMARY OF IMPACTS TO WATERWAYS (ALTERNATIVES 8 AND 9)..... 3

SUMMARY OF IMPACTS TO WETLANDS (ALTERNATIVES 8 AND 9) 3

SUMMARY OF IMPACTS TO WETLAND BUFFERS (ALTERNATIVES 8 AND 9)..... 3

SUMMARY OF IMPACTS TO FEMA 100-YEAR FLOODPLAIN (ALTERNATIVES 8 AND 9) 3

SUMMARY OF IMPACTS TO WATERWAYS (ALTERNATIVE 9 MODIFIED) 4

SUMMARY OF IMPACTS TO WETLANDS (ALTERNATIVE 9 MODIFIED) 4

SUMMARY OF IMPACTS TO WETLAND BUFFERS (ALTERNATIVE 9 MODIFIED) 4

SUMMARY OF IMPACTS TO FEMA 100-YEAR FLOODPLAIN (ALTERNATIVE 9 MODIFIED)..... 4

SUMMARY OF IMPACTS TO WATERWAYS (ALTERNATIVE 10)..... 5

SUMMARY OF IMPACTS TO WETLANDS (ALTERNATIVE 10) 5

SUMMARY OF IMPACTS TO WETLAND BUFFERS (ALTERNATIVE 10)..... 5

SUMMARY OF IMPACTS TO FEMA 100-YEAR FLOODPLAIN (ALTERNATIVE 10) 5

SUMMARY OF IMPACTS TO WATERWAYS (ALTERNATIVE 13B)..... 6

SUMMARY OF IMPACTS TO WETLANDS (ALTERNATIVE 13B)..... 6

SUMMARY OF IMPACTS TO WETLAND BUFFERS (ALTERNATIVE 13B) 6

SUMMARY OF IMPACTS TO FEMA 100-YEAR FLOODPLAIN (ALTERNATIVE 13B) 6

SUMMARY OF IMPACTS TO WATERWAYS (ALTERNATIVE 13C)..... 7

SUMMARY OF IMPACTS TO WETLANDS (ALTERNATIVE 13C)..... 7

SUMMARY OF IMPACTS TO WETLAND BUFFERS (ALTERNATIVE 13C) 7

SUMMARY OF IMPACTS TO FEMA 100-YEAR FLOODPLAIN (ALTERNATIVE 13C) 7

PROJECT-WIDE 100-YEAR FLOODPLAIN IMPACTS (ALTERNATIVES 8 AND 9) 8

MDE IMPACT TABLES

PROJECT-WIDE 100-YEAR FLOODPLAIN IMPACTS	9
PROJECT-WIDE 100-YEAR FLOODPLAIN IMPACTS (ALTERNATIVE 13C)	12
PLATE 2A – WATERWAY IMPACTS	13
PLATE 2A – WETLAND IMPACTS.....	13
PLATE 3A – WATERWAY IMPACTS	14
PLATE 3A – WETLAND IMPACTS.....	14
PLATE 4A – WATERWAY IMPACTS	15
PLATE 4A – WETLAND IMPACTS.....	15
PLATE 5A – WATERWAY IMPACTS	16
PLATE 5A – WETLAND IMPACTS.....	16
PLATE 6A – WATERWAY IMPACTS	17
PLATE 6A – WETLAND IMPACTS.....	17
PLATE 7A – WATERWAY IMPACTS	18
PLATE 7B – WATERWAY IMPACTS	18
PLATE 7C – WATERWAY IMPACTS	19
PLATE 8A – WATERWAY IMPACTS	19
PLATE 8B – WATERWAY IMPACTS	19
PLATE 8C – WATERWAY IMPACTS	20
PLATE 9A – WATERWAY IMPACTS	21
PLATE 9A – WETLAND IMPACTS.....	21
PLATE 9B – WATERWAY IMPACTS	22
PLATE 9B – WETLAND IMPACTS.....	22
PLATE 10A – WATERWAY IMPACTS	23
PLATE 10A – WETLAND IMPACTS	23

MDE IMPACT TABLES

PLATE 10B – WATERWAY IMPACTS	24
PLATE 10B – WETLAND IMPACTS.....	24
PLATE 11A – WATERWAY IMPACTS	25
PLATE 11A – WETLAND IMPACTS	25
PLATE 11B – WATERWAY IMPACTS	25
PLATE 11B – WETLAND IMPACTS.....	25
PLATE 12A – WATERWAY IMPACTS	26
PLATE 12A – WETLAND IMPACTS	26
PLATE 12B – WATERWAY IMPACTS	27
PLATE 12B – WETLAND IMPACTS.....	27
PLATE 13A – WATERWAY IMPACTS	28
PLATE 13A – WETLAND IMPACTS	28
PLATE 13B – WATERWAY IMPACTS	29
PLATE 13B – WETLAND IMPACTS.....	29
PLATE 14A – WATERWAY IMPACTS	30
PLATE 14A – WETLAND IMPACTS	30
PLATE 14B – WATERWAY IMPACTS	31
PLATE 14B – WETLAND IMPACTS.....	31
PLATE 15A – WATERWAY IMPACTS	32
PLATE 15A – WETLAND IMPACTS	32
PLATE 15B – WATERWAY IMPACTS	32
PLATE 15B – WETLAND IMPACTS.....	32
PLATE 16A – WATERWAY IMPACTS	33
PLATE 16B – WATERWAY IMPACTS	33

MDE IMPACT TABLES

PLATE 17A – WATERWAY IMPACTS	34
PLATE 17A – WETLAND IMPACTS	34
PLATE 17B – WATERWAY IMPACTS	35
PLATE 17B – WETLAND IMPACTS.....	35
PLATE 18A – WATERWAY IMPACTS	36
PLATE 18B – WATERWAY IMPACTS	36
PLATE 19A – WATERWAY IMPACTS	37
PLATE 19B – WATERWAY IMPACTS	37
PLATE 20A – WATERWAY IMPACTS	38
PLATE 20B – WATERWAY IMPACTS	39
PLATE 21A – WATERWAY IMPACTS	40
PLATE 21A – WATERWAY IMPACTS	40
PLATE 21B – WATERWAY IMPACTS	41
PLATE 21B – WATERWAY IMPACTS	41
PLATE 22A – WATERWAY IMPACTS	42
PLATE 22A – WETLAND IMPACTS	42
PLATE 23A – WATERWAY IMPACTS	44
PLATE 23A – WETLAND IMPACTS	45
PLATE 24A – WATERWAY IMPACTS	46
PLATE 24A – WETLAND IMPACTS	46
PLATE 25A – WATERWAY IMPACTS	47
PLATE 25A – WETLAND IMPACTS	47
PLATE 26A – WATERWAY IMPACTS	48
PLATE 26A – WETLAND IMPACTS	48

MDE IMPACT TABLES

PLATE 27A – WATERWAY IMPACTS	49
PLATE 27A – WETLAND IMPACTS	50
PLATE 28A – WATERWAY IMPACTS	51
PLATE 28A – WETLAND IMPACTS	51
PLATE 29A – WATERWAY IMPACTS	52
PLATE 29A – WETLAND IMPACTS	53
PLATE 30A – WATERWAY IMPACTS	53
PLATE 30A – WETLAND IMPACTS	53
PLATE 31A – WATERWAY IMPACTS	54
PLATE 31A - WETLAND IMPACTS	54
PLATE 32A – WATERWAY IMPACTS	55
PLATE 32A – WETLAND IMPACTS	55
PLATE 33A – WATERWAY IMPACTS	56
PLATE 33A – WETLAND IMPACTS	56
PLATE 34A – WATERWAY IMPACTS	57
PLATE 34A – WETLAND IMPACTS	57
PLATE 35A – WATERWAY IMPACTS	58
PLATE 36A – WATERWAY IMPACTS	58
PLATE 36A – WETLAND IMPACTS	59
PLATE 37A – WATERWAY IMPACTS	60
PLATE 37A – WETLAND IMPACTS	60
PLATE 38A – WATERWAY IMPACTS	61
PLATE 38A - WETLAND IMPACTS	61
PLATE 39A – WATERWAY IMPACTS	62

MDE IMPACT TABLES

PLATE 39A – WETLAND IMPACTS	62
PLATE 40A – WATERWAY IMPACTS	63
PLATE 40A – WETLAND IMPACTS	63
PLATE 41A – WATERWAY IMPACTS	64
PLATE 41A – WETLAND IMPACTS	65
PLATE 42A – WATERWAY IMPACTS	66
PLATE 42A – WETLAND IMPACTS	67
PLATE 43A – WATERWAY IMPACTS	68
PLATE 43A – WETLAND IMPACTS	69
PLATE 44A – WATERWAY IMPACTS	70
PLATE 44A – WETLAND IMPACTS	70
PLATE 45A – WATERWAY IMPACTS	71
PLATE 45A – WETLAND IMPACTS	71
PLATE 46A – WATERWAY IMPACTS	72
PLATE 46A – WETLAND IMPACTS	73
PLATE 47A – WATERWAY IMPACTS	74
PLATE 47A – WETLAND IMPACTS	75
PLATE 48A – WATERWAY IMPACTS	76
PLATE 48A – WETLAND IMPACTS	77
PLATE 49A – WATERWAY IMPACTS	78
PLATE 49A – WETLAND IMPACTS	78
PLATE 50A – WATERWAY IMPACTS	79
PLATE 50A – WETLAND IMPACTS	79
PLATE 51A – WATERWAY IMPACTS	80

MDE IMPACT TABLES

PLATE 51A – WETLAND IMPACTS	81
PLATE 52A – WATERWAY IMPACTS	82
PLATE 52A – WETLAND IMPACTS	82
PLATE 53A – WATERWAY IMPACTS	83
PLATE 53A – WETLAND IMPACTS	83
PLATE 54A – WATERWAY IMPACTS	84
PLATE 54A – WETLAND IMPACTS	84
PLATE 55A – WATERWAY IMPACTS	85
PLATE 55A – WETLAND IMPACTS	85
PLATE 56A – WATERWAY IMPACTS	86
PLATE 56A – WETLAND IMPACTS	86
PLATE 57A – WATERWAY IMPACTS	86
PLATE 57A – WETLAND IMPACTS	86
PLATE 58A – WATERWAY IMPACTS	87
PLATE 58A – WETLAND IMPACTS	87
PLATE 59A – WATERWAY IMPACTS	88
PLATE 59A – WETLAND IMPACTS	88
PLATE 59B – WATERWAY IMPACTS	89
PLATE 59B – WETLAND IMPACTS.....	89
PLATE 59C – WATERWAY IMPACTS	90
PLATE 59C – WETLAND IMPACTS.....	90
PLATE 59D – WATERWAY IMPACTS	91
PLATE 59D – WETLAND IMPACTS	91
PLATE 60A – WATERWAY IMPACTS	92

MDE IMPACT TABLES

PLATE 60B – WATERWAY IMPACTS	92
PLATE 60C – WATERWAY IMPACTS	92
PLATE 60D – WATERWAY IMPACTS	92
PLATE 61A – WATERWAY IMPACTS	93
PLATE 61A – WETLAND IMPACTS	93
PLATE 61B – WATERWAY IMPACTS	94
PLATE 61B – WETLAND IMPACTS.....	94
PLATE 61C – WATERWAY IMPACTS	94
PLATE 61C – WETLAND IMPACTS.....	94
PLATE 61D – WATERWAY IMPACTS	95
PLATE 61D – WETLAND IMPACTS	95
PLATE 61E – WATERWAY IMPACTS.....	95
PLATE 61E – WETLAND IMPACTS.....	95
PLATE 62A – WATERWAY IMPACTS	96
PLATE 62A – WETLAND IMPACTS	96
PLATE 62B – WATERWAY IMPACTS	96
PLATE 62B – WETLAND IMPACTS.....	96
PLATE 62C – WATERWAY IMPACTS	97
PLATE 62C – WETLAND IMPACTS.....	97
PLATE 62D – WATERWAY IMPACTS	97
PLATE 62D – WETLAND IMPACTS	97
PLATE 62E – WATERWAY IMPACTS.....	98
PLATE 62E – WETLAND IMPACTS.....	98
PLATE 63A – WATERWAY IMPACTS	99

MDE IMPACT TABLES

PLATE 63A – WETLAND IMPACTS	99
PLATE 63B – WATERWAY IMPACTS	100
PLATE 63B – WETLAND IMPACTS.....	100
PLATE 63C – WATERWAY IMPACTS	101
PLATE 63C – WETLAND IMPACTS.....	101
PLATE 63D – WATERWAY IMPACTS	102
PLATE 63D – WETLAND IMPACTS	102
PLATE 64A – WATERWAY IMPACTS	103
PLATE 64A – WETLAND IMPACTS	103
PLATE 64B – WATERWAY IMPACTS	103
PLATE 64B – WETLAND IMPACTS.....	103
PLATE 64C – WATERWAY IMPACTS	103
PLATE 64C – WETLAND IMPACTS.....	103
PLATE 64D – WATERWAY IMPACTS	104
PLATE 64D – WETLAND IMPACTS	104
PLATE 65A – WATERWAY IMPACTS	104
PLATE 65A – WETLAND IMPACTS	104
PLATE 65B – WATERWAY IMPACTS	105
PLATE 65B – WETLAND IMPACTS.....	105
PLATE 65C – WATERWAY IMPACTS	105
PLATE 65C – WETLAND IMPACTS.....	105
PLATE 65D – WATERWAY IMPACTS	106
PLATE 65D – WETLAND IMPACTS	106
PLATE 66A – WATERWAY IMPACTS	106

MDE IMPACT TABLES

PLATE 66B – WATERWAY IMPACTS	106
PLATE 66C – WATERWAY IMPACTS	106
PLATE 66D – WATERWAY IMPACTS	107
PLATE 67A – WATERWAY IMPACTS	107
PLATE 67A – WETLAND IMPACTS	107
PLATE 67B – WATERWAY IMPACTS	108
PLATE 67B – WETLAND IMPACTS.....	108
PLATE 67C – WATERWAY IMPACTS	108
PLATE 67C – WETLAND IMPACTS.....	108
PLATE 67D – WATERWAY IMPACTS	109
PLATE 67D – WETLAND IMPACTS	109
PLATE 68A – WATERWAY IMPACTS	110
PLATE 68A – WETLAND IMPACTS	110
PLATE 68B – WATERWAY IMPACTS	111
PLATE 68B – WETLAND IMPACTS.....	111
PLATE 68C – WATERWAY IMPACTS	112
PLATE 68C – WETLAND IMPACTS.....	112
PLATE 68D – WATERWAY IMPACTS	113
PLATE 68D – WETLAND IMPACTS	113
PLATE 69A – WATERWAY IMPACTS	114
PLATE 69A – WETLAND IMPACTS	114
PLATE 69B – WATERWAY IMPACTS	115
PLATE 69B – WETLAND IMPACTS.....	115
PLATE 69C – WATERWAY IMPACTS	116

MDE IMPACT TABLES

PLATE 69C – WETLAND IMPACTS..... 116

PLATE 69D – WATERWAY IMPACTS 117

PLATE 69D – WETLAND IMPACTS 117

PLATE 70A – WATERWAY IMPACTS 117

PLATE 70A – WETLAND IMPACTS 117

PLATE 70B – WATERWAY IMPACTS 118

PLATE 70B – WETLAND IMPACTS..... 118

PLATE 70C – WATERWAY IMPACTS 118

PLATE 70C – WETLAND IMPACTS..... 118

PLATE 70D – WATERWAY IMPACTS 118

PLATE 70D – WETLAND IMPACTS 118

PLATE 71A – WATERWAY IMPACTS 119

PLATE 71B – WATERWAY IMPACTS 119

PROJECT-WIDE POW IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)..... 120

MDE IMPACT TABLES

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 ³ .
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).

³ Wetland features that have a bridged portion are not separated into multiple polygons but are designated by an “EB” or “NB” impact code.

MDE IMPACT TABLES

IMPACT TYPE KEY

IMPACT TYPE CODE	DESCRIPTION
CA	Construction Access
CE	Culvert Extension
EB	Existing Bridge
EC	Existing Culvert
HL	Hydrology Loss
NB	New/Expanded Bridge
NC	New Culvert
RC	Relocated Channel
RW	Roadway
SO	Stormwater Outfall

Notes:

- See Avoidance and Minimization Report for detailed explanations of impact types.
- Some impacted features are regulated only by USACE and not by MDE. Impact Plate 1 is not reported in the MDE Impact Tables because this plate only contains USACE-regulated impacted features.
- Some Impact Plates contain impacted waterways, but do not contain impacted wetlands. The following MDE Impact Plates will only have Waterway Impacts tables:

7A, 7B, 7C
8A, 8B, 8C
16A, 16B
18A, 18B
19A, 19B
20A, 20B
35
60A, 60B, 60C, 60D
66A, 66B, 66C, 66D
71A, 71B

MDE IMPACT TABLES

SUMMARY OF IMPACTS TO WATERWAYS (ALTERNATIVES 8 AND 9)

WATERSHED	WATERWAYS (SF)			WATERWAYS (LF)		
	Intermittent	Perennial	Total	Intermittent	Perennial	Total
Middle Potomac-Anacostia-Occoquan	245,639	546,329	791,968	45,034	42,948	87,982
Middle Potomac-Catoctin	67,651	750,321	817,972	9,199	23,371	32,570
Patuxent	41,365	103,857	145,222	9,526	10,554	20,080
Total	354,655	1,400,507	1,755,162	63,759	76,873	140,632

SUMMARY OF IMPACTS TO WETLANDS (ALTERNATIVES 8 AND 9)

WATERSHED	WETLANDS (SF)				WETLANDS (AC)			
	PEM	PFO	PSS	Total	PEM	PFO	PSS	Total
Middle Potomac-Anacostia-Occoquan	89,079	332,985	17,757	439,821	2.05	7.65	0.41	10.11
Middle Potomac-Catoctin	31,704	29,537	2	61,243	0.73	0.68	0.01	1.42
Patuxent	39,754	132,764	29,043	201,561	0.92	3.05	0.67	4.64
Total	160,537	495,286	46,802	702,625	3.70	11.38	1.09	16.17

SUMMARY OF IMPACTS TO WETLAND BUFFERS (ALTERNATIVES 8 AND 9)

WATERSHED	WETLAND BUFFER (SF)				WETLAND BUFFER (AC)			
	PEM	PFO	PSS	Total	PEM	PFO	PSS	Total
Middle Potomac-Anacostia-Occoquan	369,300	914,434	65,222	1,348,956	8.48	21.00	1.50	30.98
Middle Potomac-Catoctin	121,415	110,613	1,472	233,500	2.79	2.54	0.04	5.37
Patuxent	154,921	469,990	99,430	724,341	3.56	10.79	2.29	16.64
Total	645,636	1,495,037	166,124	2,306,797	14.83	34.33	3.83	52.99

SUMMARY OF IMPACTS TO FEMA 100-YEAR FLOODPLAIN (ALTERNATIVES 8 AND 9)

WATERSHED	TOTAL (SF)	TOTAL (AC)
Middle Potomac-Anacostia-Occoquan	3,014,282	69.2
Middle Potomac-Catoctin	2,027,943	46.6
Patuxent	164,607	3.8
Total	5,206,833	119.5

MDE IMPACT TABLES

SUMMARY OF IMPACTS TO WATERWAYS (ALTERNATIVE 9 MODIFIED)

WATERSHED	WATERWAYS (SF)			WATERWAYS (LF)		
	Intermittent	Perennial	Total	Intermittent	Perennial	Total
Middle Potomac-Anacostia-Occoquan	246,832	542,431	789,263	45,299	43,133	88,432
Middle Potomac-Catoctin	67,754	749,626	817,380	9,196	23,328	32,524
Patuxent	42,447	103,857	146,304	9,606	10,554	20,160
Total	357,033	1,395,914	1,752,947	64,101	77,015	141,116

SUMMARY OF IMPACTS TO WETLANDS (ALTERNATIVE 9 MODIFIED)

WATERSHED	WETLANDS (SF)				WETLANDS (AC)			
	PEM	PFO	PSS	Total	PEM	PFO	PSS	Total
Middle Potomac-Anacostia-Occoquan	89,079	321,792	17,503	428,374	2.05	7.39	0.41	9.85
Middle Potomac-Catoctin	31,704	29,537	2	61,243	0.73	0.68	0.01	1.42
Patuxent	39,754	132,764	29,043	201,561	0.92	3.05	0.67	4.64
Total	160,537	484,093	46,548	691,178	3.70	11.12	1.09	15.91

SUMMARY OF IMPACTS TO WETLAND BUFFERS (ALTERNATIVE 9 MODIFIED)

WATERSHED	WETLAND BUFFER (SF)				WETLAND BUFFER (AC)			
	PEM	PFO	PSS	Total	PEM	PFO	PSS	Total
Middle Potomac-Anacostia-Occoquan	368,879	896,309	62,616	1,327,804	8.47	20.58	1.44	30.49
Middle Potomac-Catoctin	121,415	110,613	1,472	233,500	2.79	2.54	0.04	5.37
Patuxent	154,921	469,990	99,430	724,341	3.56	10.79	2.29	16.64
Total	645,215	1,476,912	163,518	2,285,645	14.82	33.91	3.77	52.50

SUMMARY OF IMPACTS TO FEMA 100-YEAR FLOODPLAIN (ALTERNATIVE 9 MODIFIED)

WATERSHED	TOTAL (SF)	TOTAL (AC)
Middle Potomac-Anacostia-Occoquan	2,883,624	66.2
Middle Potomac-Catoctin	2,027,058	46.5
Patuxent	164,606	3.8
Total	5,075,288	116.5

MDE IMPACT TABLES

SUMMARY OF IMPACTS TO WATERWAYS (ALTERNATIVE 10)

WATERSHED	WATERWAYS (SF)			WATERWAYS (LF)		
	Intermittent	Perennial	Total	Intermittent	Perennial	Total
Middle Potomac-Anacostia-Occoquan	248,407	552,650	801,057	45,633	43,648	89,281
Middle Potomac-Catoctin	70,441	753,996	824,437	9,462	23,904	33,366
Patuxent	42,447	103,857	146,304	9,606	10,554	20,160
Total	361,295	1,410,503	1,771,798	64,701	78,106	142,807

SUMMARY OF IMPACTS TO WETLANDS (ALTERNATIVE 10)

WATERSHED	WETLANDS (SF)				WETLANDS (AC)			
	PEM	PFO	PSS	Total	PEM	PFO	PSS	Total
Middle Potomac-Anacostia-Occoquan	89,079	332,985	17,757	439,821	2.05	7.65	0.41	10.11
Middle Potomac-Catoctin	37,569	31,406	2	68,977	0.87	0.73	0.01	1.61
Patuxent	39,754	132,764	29,043	201,561	0.92	3.05	0.67	4.64
Total	166,402	497,155	46,802	710,359	3.84	11.43	1.09	16.36

SUMMARY OF IMPACTS TO WETLAND BUFFERS (ALTERNATIVE 10)

WATERSHED	WETLAND BUFFER (SF)				WETLAND BUFFER (AC)			
	PEM	PFO	PSS	Total	PEM	PFO	PSS	Total
Middle Potomac-Anacostia-Occoquan	369,300	914,434	65,222	1,348,956	8.48	21.00	1.50	30.98
Middle Potomac-Catoctin	135,655	117,191	1,472	254,318	3.12	2.70	0.04	5.86
Patuxent	154,921	469,990	99,430	724,341	3.56	10.79	2.29	16.64
Total	659,876	1,501,615	166,124	2,327,615	15.16	34.49	3.83	53.48

SUMMARY OF IMPACTS TO FEMA 100-YEAR FLOODPLAIN (ALTERNATIVE 10)

WATERSHED	TOTAL (SF)	TOTAL (AC)
Middle Potomac-Anacostia-Occoquan	3,014,282	69.2
Middle Potomac-Catoctin	2,048,318	47.0
Patuxent	164,607	3.8
Total	5,227,207	120.0

MDE IMPACT TABLES

SUMMARY OF IMPACTS TO WATERWAYS (ALTERNATIVE 13B)

WATERSHED	WATERWAYS (SF)			WATERWAYS (LF)		
	Intermittent	Perennial	Total	Intermittent	Perennial	Total
Middle Potomac-Anacostia-Occoquan	248,316	548,112	796,428	45,623	43,364	88,987
Middle Potomac-Catoctin	67,534	750,133	817,667	9,179	23,351	32,530
Patuxent	42,447	103,857	146,304	9,606	10,554	20,160
Total	358,297	1,402,102	1,760,399	64,408	77,269	141,677

SUMMARY OF IMPACTS TO WETLANDS (ALTERNATIVE 13B)

WATERSHED	WETLANDS (SF)				WETLANDS (AC)			
	PEM	PFO	PSS	Total	PEM	PFO	PSS	Total
Middle Potomac-Anacostia-Occoquan	89,079	332,985	17,757	439,821	2.05	7.65	0.41	10.11
Middle Potomac-Catoctin	31,543	28,510	2	60,055	0.73	0.66	0.01	1.40
Patuxent	39,754	132,764	29,043	201,561	0.92	3.05	0.67	4.64
Total	160,376	494,259	46,802	701,437	3.70	11.36	1.09	16.15

SUMMARY OF IMPACTS TO WETLAND BUFFERS (ALTERNATIVE 13B)

WATERSHED	WETLAND BUFFER (SF)				WETLAND BUFFER (AC)			
	PEM	PFO	PSS	Total	PEM	PFO	PSS	Total
Middle Potomac-Anacostia-Occoquan	369,300	914,434	65,222	1,348,956	8.48	21.00	1.50	30.98
Middle Potomac-Catoctin	119,537	109,608	1,472	230,617	2.75	2.52	0.04	5.31
Patuxent	154,921	469,990	99,430	724,341	3.56	10.79	2.29	16.64
Total	643,758	1,494,032	166,124	2,303,914	14.79	34.31	3.83	52.93

SUMMARY OF IMPACTS TO FEMA 100-YEAR FLOODPLAIN (ALTERNATIVE 13B)

WATERSHED	TOTAL (SF)	TOTAL (AC)
Middle Potomac-Anacostia-Occoquan	3,014,282	69.2
Middle Potomac-Catoctin	2,026,737	46.5
Patuxent	164,607	3.8
Total	5,205,627	119.5

MDE IMPACT TABLES

SUMMARY OF IMPACTS TO WATERWAYS (ALTERNATIVE 13C)

WATERSHED	WATERWAYS (SF)			WATERWAYS (LF)		
	Intermittent	Perennial	Total	Intermittent	Perennial	Total
Middle Potomac-Anacostia-Occoquan	248,316	549,441	797,757	45,623	43,453	89,076
Middle Potomac-Catoctin	69,016	753,715	822,731	9,337	23,885	33,222
Patuxent	42,447	103,857	146,304	9,606	10,554	20,160
Total	359,779	1,407,013	1,766,792	64,566	77,892	142,458

SUMMARY OF IMPACTS TO WETLANDS (ALTERNATIVE 13C)

WATERSHED	WETLANDS (SF)				WETLANDS (AC)			
	PEM	PFO	PSS	Total	PEM	PFO	PSS	Total
Middle Potomac-Anacostia-Occoquan	89,079	332,985	17,757	439,821	2.05	7.65	0.41	10.11
Middle Potomac-Catoctin	36,937	30,388	2	67,327	0.85	0.70	0.01	1.56
Patuxent	39,754	132,764	29,043	201,561	0.92	3.05	0.67	4.64
Total	165,770	496,137	46,802	708,709	3.82	11.40	1.09	16.31

SUMMARY OF IMPACTS TO WETLAND BUFFERS (ALTERNATIVE 13C)

WATERSHED	WETLAND BUFFER (SF)				WETLAND BUFFER (AC)			
	PEM	PFO	PSS	Total	PEM	PFO	PSS	Total
Middle Potomac-Anacostia-Occoquan	369,300	914,434	65,222	1,348,956	8.48	21.00	1.50	30.98
Middle Potomac-Catoctin	134,709	112,469	1,472	248,650	3.10	2.59	0.04	5.73
Patuxent	154,921	469,990	99,430	724,341	3.56	10.79	2.29	16.64
Total	658,930	1,496,893	166,124	2,321,947	15.14	34.38	3.83	53.35

SUMMARY OF IMPACTS TO FEMA 100-YEAR FLOODPLAIN (ALTERNATIVE 13C)

WATERSHED	TOTAL (SF)	TOTAL (AC)
Middle Potomac-Anacostia-Occoquan	3,014,282	69.2
Middle Potomac-Catoctin	2,045,095	46.9
Patuxent	164,607	3.8
Total	5,223,984	119.9

MDE IMPACT TABLES

PROJECT-WIDE 100-YEAR FLOODPLAIN IMPACTS (ALTERNATIVES 8 AND 9)

ASSOCIATED WATERWAY	RELATED FEATURES	FIRM PANEL	IMPACT PLATE	IMPACT (SF)	IMPACT (AC)
Bald Hill Branch	None	24033C0155E	-	20,856	0.5
Beaverdam Creek	8Z, 8Z_C2	24033C0155E	37A	36,865	0.8
Booze Creek	22Z, 22Z_1	24031C0435D, 51059C0160E	4A	46,517	1.1
Cabin John Creek	22AA, 22AA_1, 22AA_2, 22AA_3, 22AA_B, 22AA_B1	24031C0435D, 51059C0160E	4A, 5A	42,920	1.0
Dead Run	None	24031C0435D, 51059C0160E	-	2,679	0.1
Henson Creek	1VV, 1VV_1, 1VV_C, 3L, 3L_1, 3L_C	1100010085C, 24033C0235E, 24033C0255E	51A, 57A	113,353	2.6
Indian Creek	11L, 11L_1, 11L_2, 11L_B, 11L_B1, 11L_B2	24033C0043E	27A	413,664	9.5
Little Paint Branch	12OO, 12OO_1, 12OO_C	24033C0043E	25A	95,580	2.2
Muddy Branch	29B, 29B_1, 29B_C	24031C0327D, 51059C0075E	71A	95,223	2.2
Northwest Branch Anacostia River	13P, 13P_1, 13P_B	24031C0390D, 24033C0038E	19A	61,944	1.4
Paint Branch	12II, 12II_4, 12II_5, 12II_6, 12II_B3, 12II_C, 12II_C1, 12II_C2, 12II_C3	24031C0390D, 24033C0039E	23A, 24A	358,510	8.2
Potomac River	22MM, 22MM_B	24031C0435D, 51059C0160E	2A	967,837	22.2
Rock Creek	19K_1, 19K_2, 19K_6, 19K_7, 19K_8, 19K_B2	24031C0365D	10A, 11A, 12A, 13A	1,756,697	40.3
Rock Run	None	24031C0435D, 51059C0160E	-	2,969	0.1
Sligo Creek	15D, 15D_1, 15D_C	24031C0370D	16A	87,295	2.0
Southwest Branch Western Branch Patuxent River	5S, 5S_1, 5S_B	24033C0165E	44A	164,607	3.8
Thomas Branch	21C, 21C_1, 21C_2, 21C_C, 21C_C1, 23A, 23A_3, 23A_C	24031C0345D, 51059C0160E, 51059C0075E	5A, 6A, 7A, 8A, 59A	775,434	17.8
UT to Old Farm Creek	23N, 23N_C	24031C0342D, 51059C0075E	62A	13,093	0.3
UT to Paint Branch	9G, 9G_1, 9G_C, 9J, 9J_C, 10C, 10C_C, 10C_1	1100010035C, 24033C0132E	29A, 32A	69,519	1.6
UT to Watts Branch	26C_1, 26C_C, 26C_C1	24031C0333D, 51059C0075E	68A	6,001	0.1
Watts Branch	27A, 27A_1, 27A_2, 27A_C, 27A_C1	24031C0333D, 51059C0075E	69A	75,270	1.7

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

MDE IMPACT TABLES

PROJECT-WIDE 100-YEAR FLOODPLAIN IMPACTS (ALTERNATIVE 9 MODIFIED)

ASSOCIATED WATERWAY	RELATED FEATURES	FIRM PANEL	IMPACT PLATE	IMPACT (SF)	IMPACT (AC)
Bald Hill Branch	None	24033C0155E	-	20,856	0.5
Beaverdam Creek	8Z, 8Z_C2	24033C0155E	37A	36,865	0.8
Booze Creek	22Z, 22Z_1	24031C0435D, 51059C0160E	4A	46,517	1.1
Cabin John Creek	22AA, 22AA_1, 22AA_2, 22AA_3, 22AA_B, 22AA_B1	24031C0435D, 51059C0160E	4A, 5A	42,920	1.0
Dead Run	None	24031C0435D, 51059C0160E	-	2,679	0.1
Henson Creek	1VV, 1VV_1, 1VV_C, 3L, 3L_1, 3L_C	1100010085C, 24033C0235E, 24033C0255E	51A, 57A	113,353	2.6
Indian Creek	11L, 11L_1, 11L_2, 11L_B, 11L_B1, 11L_B2	24033C0043E	27A	413,664	9.5
Little Paint Branch	12OO, 12OO_1, 12OO_C	24033C0043E	25A	95,580	2.2
Muddy Branch	29B, 29B_1, 29B_C	24031C0327D, 51059C0075E	71A	95,223	2.2
Northwest Branch Anacostia River	13P, 13P_1, 13P_B	24031C0390D, 24033C0038E	19B	60,495	1.4
Paint Branch	12II, 12II_4, 12II_5, 12II_6, 12II_B3, 12II_C, 12II_C1, 12II_C2, 12II_C3	24031C0390D, 24033C0039E	23A, 24A	358,510	8.2
Potomac River	22MM, 22MM_B	24031C0435D, 51059C0160E	2A	967,837	22.2
Rock Creek	19K_1, 19K_2, 19K_6, 19K_7, 19K_8, 19K_B2	24031C0365D	10B, 11B, 12B, 13B	1,636,116	37.6
Rock Run	None	24031C0435D, 51059C0160E	-	2,969	0.1
Sligo Creek	15D, 15D_1, 15D_C	24031C0370D	16B	78,666	1.8
Southwest Branch Western Branch Patuxent River	5S, 5S_1, 5S_B	24033C0165E	44A	164,606	3.8
Thomas Branch	21C, 21C_1, 21C_2, 21C_C, 21C_C1, 23A, 23A_3, 23A_C	24031C0345D, 51059C0160E, 51059C0075E	5A, 6A, 7B, 8B	775,434	17.8
UT to Old Farm Creek	23N, 23N_C	24031C0342D, 51059C0075E	62B	12,207	0.3
UT to Paint Branch	9G, 9G_1, 9G_C, 9J, 9J_C, 10C, 10C_C, 10C_1	1100010035C, 24033C0132E	29A, 32A	69,519	1.6
UT to Watts Branch	26C_1, 26C_C, 26C_C1	24031C0333D, 51059C0075E	68A	6,001	0.1
Watts Branch	27A, 27A_1, 27A_2, 27A_C, 27A_C1	24031C0333D, 51059C0075E	69A	75,270	1.7

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

MDE IMPACT TABLES

PROJECT-WIDE 100-YEAR FLOODPLAIN IMPACTS (ALTERNATIVE 10)

ASSOCIATED WATERWAY	RELATED FEATURES	FIRM PANEL	IMPACT PLATE	IMPACT (SF)	IMPACT (AC)
Bald Hill Branch	None	24033C0155E	-	20,856	0.5
Beaverdam Creek	8Z, 8Z_C2	24033C0155E	37A	36,865	0.8
Booze Creek	22Z, 22Z_1	24031C0435D, 51059C0160E	4A	46,517	1.1
Cabin John Creek	22AA, 22AA_1, 22AA_2, 22AA_3, 22AA_B, 22AA_B1	24031C0435D, 51059C0160E	4A, 5A	42,920	1.0
Dead Run	None	24031C0435D, 51059C0160E	-	2,679	0.1
Henson Creek	1VV, 1VV_1, 1VV_C, 3L, 3L_1, 3L_C	1100010085C, 24033C0235E, 24033C0255E	51A, 57A	113,353	2.6
Indian Creek	11L, 11L_1, 11L_2, 11L_B, 11L_B1, 11L_B2	24033C0043E	27A	413,664	9.5
Little Paint Branch	12OO, 12OO_1, 12OO_C	24033C0043E	25A	95,580	2.2
Muddy Branch	29B, 29B_1, 29B_C	24031C0327D, 51059C0075E	71B	96,270	2.2
Northwest Branch Anacostia River	13P, 13P_1, 13P_B	24031C0390D, 24033C0038E	19A	61,944	1.4
Paint Branch	12II, 12II_4, 12II_5, 12II_6, 12II_B3, 12II_C, 12II_C1, 12II_C2, 12II_C3	24031C0390D, 24033C0039E	23A, 24A	358,510	8.2
Potomac River	22MM, 22MM_B	24031C0435D, 51059C0160E	2A	967,837	22.2
Rock Creek	19K_1, 19K_2, 19K_6, 19K_7, 19K_8, 19K_B2	24031C0365D	10A, 11A, 12A, 13A	1,756,697	40.3
Rock Run	None	24031C0435D, 51059C0160E	-	2,969	0.1
Sligo Creek	15D, 15D_1, 15D_C	24031C0370D	16A	87,295	2.0
Southwest Branch Western Branch Patuxent River	5S, 5S_1, 5S_B	24033C0165E	44A	164,607	3.8
Thomas Branch	21C, 21C_1, 21C_2, 21C_C, 21C_C1, 23A, 23A_3, 23A_C	24031C0345D, 51059C0160E, 51059C0075E	5A, 6A, 7C, 8C, 59B	781,638	17.9
UT to Old Farm Creek	23N, 23N_C	24031C0342D, 51059C0075E	62C	14,585	0.3
UT to Paint Branch	9G, 9G_1, 9G_C, 9J, 9J_C, 10C, 10C_C, 10C_1	1100010035C, 24033C0132E	29A, 32A	69,519	1.6
UT to Watts Branch	26C_1, 26C_C, 26C_C1	24031C0333D, 51059C0075E	68B	7,267	0.2
Watts Branch	27A, 27A_1, 27A_2, 27A_C, 27A_C1	24031C0333D, 51059C0075E	69B	85,636	2.0

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

MDE IMPACT TABLES

PROJECT-WIDE 100-YEAR FLOODPLAIN IMPACTS (ALTERNATIVE 13B)

ASSOCIATED WATERWAY	RELATED FEATURES	FIRM PANEL	IMPACT PLATE	IMPACT (SF)	IMPACT (AC)
Bald Hill Branch	None	24033C0155E	-	20,856	0.5
Beaverdam Creek	8Z, 8Z_C2	24033C0155E	37A	36,865	0.8
Booze Creek	22Z, 22Z_1	24031C0435D, 51059C0160E	4A	46,517	1.1
Cabin John Creek	22AA, 22AA_1, 22AA_2, 22AA_3, 22AA_B, 22AA_B1	24031C0435D, 51059C0160E	4A, 5A	42,920	1.0
Dead Run	None	24031C0435D, 51059C0160E	-	2,679	0.1
Henson Creek	1VV, 1VV_1, 1VV_C, 3L, 3L_1, 3L_C	1100010085C, 24033C0235E, 24033C0255E	51A, 57A	113,353	2.6
Indian Creek	11L, 11L_1, 11L_2, 11L_B, 11L_B1, 11L_B2	24033C0043E	27A	413,664	9.5
Little Paint Branch	12OO, 12OO_1, 12OO_C	24033C0043E	25A	95,580	2.2
Muddy Branch	29B, 29B_1, 29B_C	24031C0327D, 51059C0075E	71A	95,223	2.2
Northwest Branch Anacostia River	13P, 13P_1, 13P_B	24031C0390D, 24033C0038E	19A	61,944	1.4
Paint Branch	12II, 12II_4, 12II_5, 12II_6, 12II_B3, 12II_C, 12II_C1, 12II_C2, 12II_C3	24031C0390D, 24033C0039E	23A, 24A	358,510	8.2
Potomac River	22MM, 22MM_B	24031C0435D, 51059C0160E	2A	967,837	22.2
Rock Creek	19K_1, 19K_2, 19K_6, 19K_7, 19K_8, 19K_B2	24031C0365D	10A, 11A, 12A, 13A	1,756,697	40.3
Rock Run	None	24031C0435D, 51059C0160E	-	2,969	0.1
Sligo Creek	15D, 15D_1, 15D_C	24031C0370D	16A	87,295	2.0
Southwest Branch Western Branch Patuxent River	5S, 5S_1, 5S_B	24033C0165E	44A	164,607	3.8
Thomas Branch	21C, 21C_1, 21C_2, 21C_C, 21C_C1, 23A, 23A_3, 23A_C	24031C0345D, 51059C0160E, 51059C0075E	5A, 6A, 7A, 8A, 59C	775,434	17.8
UT to Old Farm Creek	23N, 23N_C	24031C0342D, 51059C0075E	62D	12,215	0.3
UT to Paint Branch	9G, 9G_1, 9G_C, 9J, 9J_C, 10C, 10C_C, 10C_1	1100010035C, 24033C0132E	29A, 32A	69,519	1.6
UT to Watts Branch	26C_1, 26C_C, 26C_C1	24031C0333D, 51059C0075E	68C	6,001	0.1
Watts Branch	27A, 27A_1, 27A_2, 27A_C, 27A_C1	24031C0333D, 51059C0075E	69C	74,942	1.7

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

MDE IMPACT TABLES

PROJECT-WIDE 100-YEAR FLOODPLAIN IMPACTS (ALTERNATIVE 13C)

ASSOCIATED WATERWAY	RELATED FEATURES	FIRM PANEL	IMPACT PLATE	IMPACT (SF)	IMPACT (AC)
Bald Hill Branch	None	24033C0155E	-	20,856	0.5
Beaverdam Creek	8Z, 8Z_C2	24033C0155E	37A	36,865	0.8
Booze Creek	22Z, 22Z_1	24031C0435D, 51059C0160E	4A	46,517	1.1
Cabin John Creek	22AA, 22AA_1, 22AA_2, 22AA_3, 22AA_B, 22AA_B1	24031C0435D, 51059C0160E	4A, 5A	42,920	1.0
Dead Run	None	24031C0435D, 51059C0160E	-	2,679	0.1
Henson Creek	1VV, 1VV_1, 1VV_C, 3L, 3L_1, 3L_C	1100010085C, 24033C0235E, 24033C0255E	51A, 57A	113,353	2.6
Indian Creek	11L, 11L_1, 11L_2, 11L_B, 11L_B1, 11L_B2	24033C0043E	27A	413,664	9.5
Little Paint Branch	12OO, 12OO_1, 12OO_C	24033C0043E	25A	95,580	2.2
Muddy Branch	29B, 29B_1, 29B_C	24031C0327D, 51059C0075E	71B	96,270	2.2
Northwest Branch Anacostia River	13P, 13P_1, 13P_B	24031C0390D, 24033C0038E	19A	61,944	1.4
Paint Branch	12II, 12II_4, 12II_5, 12II_6, 12II_B3, 12II_C, 12II_C1, 12II_C2, 12II_C3	24031C0390D, 24033C0039E	23A, 24A	358,510	8.2
Potomac River	22MM, 22MM_B	24031C0435D, 51059C0160E	2A	967,837	22.2
Rock Creek	19K_1, 19K_2, 19K_6, 19K_7, 19K_8, 19K_B2	24031C0365D	10A, 11A, 12A, 13A	1,756,697	40.3
Rock Run	None	24031C0435D, 51059C0160E	-	2,969	0.1
Sligo Creek	15D, 15D_1, 15D_C	24031C0370D	16A	87,295	2.0
Southwest Branch Western Branch Patuxent River	5S, 5S_1, 5S_B	24033C0165E	44A, 68D	164,607	3.8
Thomas Branch	21C, 21C_1, 21C_2, 21C_C, 21C_C1, 23A, 23A_3, 23A_C	24031C0345D, 51059C0160E, 51059C0075E	5A, 6A, 7C, 8C, 59D	781,638	17.9
UT to Old Farm Creek	23N, 23N_C	24031C0342D, 51059C0075E	62E	13,085	0.3
UT to Paint Branch	9G, 9G_1, 9G_C, 9J, 9J_C, 10C, 10C_C, 10C_1	1100010035C, 24033C0132E	29A, 32A	69,519	1.6
UT to Watts Branch	26C_1, 26C_C, 26C_C1	24031C0333D, 51059C0075E	68D	6,491	0.1
Watts Branch	27A, 27A_1, 27A_2, 27A_C, 27A_C1	24031C0333D, 51059C0075E	69D	84,689	1.9

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

MDE IMPACT TABLES

PLATE 2A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
22M_1	Perennial	Open Channel	1,121	30	CA
22M_C	Perennial	Culvert	1,848	65	EC
22MM	Perennial	Open Channel	273,926	1,025	NB, CA
22MM_B	Perennial	Bridge	78,622	138	EB
22NN	Intermittent	Open Channel	3,474	276	CA, NB
22NN_B	Intermittent	Bridge	1,599	166	EB
22QQ	Intermittent	Open Channel	469	106	CA
22V	Intermittent	Ditch	190	76	CA, NB
22V_1	Intermittent	Ditch	92	40	NB
22V_2	Intermittent	Ditch	66	26	CA, NB
22V_B	Intermittent	Bridge	331	168	EB
22V_B1	Intermittent	Bridge	69	28	EB

PLATE 2A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
22I	PFO	-	4,186	CA
22K	PEM	1,289	4,368	SO
22L	PEM	1,053	6,448	CA
22LL	PFO	1,988	10,002	CA
22OO	PFO	12,137	9,160	CA, NB
22PP	PFO	643	5,433	RW, NB
22W	PEM	13,302	17,182	CA, NB, EB

MDE IMPACT TABLES

PLATE 3A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
22HH	Intermittent	Ditch	1,157	230	RW
22HH_1	Intermittent	Ditch	925	154	CA
22HH_2	Intermittent	Open Channel	608	117	RW, CA
22HH_C	Intermittent	Culvert	1,011	113	EC
22P	Intermittent	Open Channel	26	10	CA
22Q	Perennial	Open Channel	1,112	136	RW
22Q_1	Perennial	Open Channel	251	62	CA
22Q_C	Perennial	Culvert	1,572	277	EC
22T	Intermittent	Open Channel	127	9	NB
22T_1	Intermittent	Open Channel	261	35	NB
22T_2	Intermittent	Open Channel	497	92	CA, NB
22T_B	Intermittent	Bridge	1,803	153	EB
22T_B1	Intermittent	Bridge	194	28	EB

PLATE 3A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
22E	PEM	237	4,256	RW
22O	PFO	-	1,514	CA
22R	PFO	646	3,566	CA
22U	PFO	1,007	7,449	NB, CA
22W	PEM	1,884	1,716	CA, NB, EB
22X	PFO	1,120	6,040	CA
22Y	PEM	1,791	9,135	RW, CA

MDE IMPACT TABLES

PLATE 4A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
22AA_1	Perennial	Open Channel	1,101	16	CA
22AA_2	Perennial	Open Channel	5,477	99	CA, NB
22AA_3	Perennial	Open Channel	7,690	189	CA, NB
22AA_B	Perennial	Bridge	3,245	42	EB
22AA_B1	Perennial	Bridge	8,112	201	EB
22H	Intermittent	Ditch	170	78	RW, CE, NC
22H_1	Intermittent	Open Channel	51	10	NC, CE
22H_C	Intermittent	Culvert	760	95	EC
22KK	Perennial	Open Channel	257	26	CA
22Z	Perennial	Open Channel	3,219	75	RW, CA
22Z_1	Perennial	Open Channel	2,065	75	RW, CA
22Z_C	Perennial	Culvert	3,601	99	EC

PLATE 4A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

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

MDE IMPACT TABLES

PLATE 5A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
21C_1	Perennial	Open Channel	20,976	890	RW, CE, NC
21C_2	Perennial	Open Channel	21,059	896	RW, CA, CE, NC
21C_C1	Perennial	Culvert	4,836	321	EC
21C_C2	Perennial	Culvert	3,824	328	EC
21D	Intermittent	Ditch	105	106	RW
21D_1	Intermittent	Ditch	1,952	291	RW, CA, CE, NB
21D_C	Intermittent	Culvert	1,035	316	EC
21D_C1	Intermittent	Culvert	798	119	EC
21F	Intermittent	Open Channel	542	92	RW, CE
21F_C	Intermittent	Culvert	1,837	258	EC
21G	Intermittent	Ditch	121	51	RW, RC
22A	Intermittent	Ditch	724	269	RW, CE, NC
22A_C	Intermittent	Culvert	439	152	EC
22AA	Perennial	Open Channel	2,489	83	CA
22B	Intermittent	Ditch	99	36	NC, CA
22C	Intermittent	Ditch	146	51	RW, CE, NC
22C_C	Intermittent	Culvert	203	91	EC
22D	Intermittent	Ditch	305	144	CA, RC

PLATE 5A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
22JJ	PFO	-	25	CA

MDE IMPACT TABLES

PLATE 6A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
21C	Perennial	Open Channel	42,041	1,818	CE, RW, NC
21C_1	Perennial	Open Channel	33,157	1,243	RW, CA, CE, NC
21C_C	Perennial	Culvert	3,633	252	EC
21L_C	Perennial	Culvert	1,743	270	EC
21L_D	Perennial	Ditch	607	85	RW, CE
21L_D1	Perennial	Ditch	83	20	RW
21M	Intermittent	Ditch	57	25	CE, RC

PLATE 6A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
21P	PFO	709	4,076	RC
21Q	PFO	-	1,436	RC
21T	PFO	863	3,654	RC

MDE IMPACT TABLES

PLATE 7A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 13B)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
21B	Perennial	Open Channel	11,177	1,156	RW
21B_C	Perennial	Culvert	2,746	261	EC
21C	Perennial	Open Channel	64,848	3,182	RW, CA
21J	Perennial	Ditch	243	13	RW
21K	Intermittent	Open Channel	28	5	RW
21U	Perennial	Open Channel	2,082	143	RW, NC

PLATE 7B – WATERWAY IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
21B	Perennial	Open Channel	11,177	1,156	RW
21B_C	Perennial	Culvert	2,746	261	EC
21C	Perennial	Open Channel	64,848	3,182	RW, CA
21J	Perennial	Ditch	243	13	RW
21K	Intermittent	Open Channel	28	5	RW
21U	Perennial	Open Channel	2,082	143	RW, NC

MDE IMPACT TABLES

PLATE 7C – WATERWAY IMPACTS (ALTERNATIVES 10 AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
21B	Perennial	Open Channel	11,177	1,156	RW
21B_C	Perennial	Culvert	2,746	261	EC
21C	Perennial	Open Channel	64,848	3,182	RW, CA
21J	Perennial	Ditch	243	13	RW
21K	Intermittent	Open Channel	28	5	RW
21U	Perennial	Open Channel	2,082	143	RW, NC

PLATE 8A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 13B)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
20B	Intermittent	Open Channel	351	83	RW, CA
20C	Perennial	Ditch	112	37	RW, CE, NC
20D	Perennial	Open Channel	3,672	475	RW, CE
20D_C	Perennial	Culvert	1,895	180	EC
20E	Intermittent	Open Channel	140	47	RW, CA
21B	Perennial	Open Channel	10,220	1,007	RW, CA, SO
21C	Perennial	Open Channel	10,305	539	RW, CA, NC
21I	Perennial	Open Channel	22	6	NC

PLATE 8B – WATERWAY IMPACTS (ALTERNATIVE 9M)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
20B	Intermittent	Open Channel	309	72	RW, CE
20C	Perennial	Ditch	112	37	RW, CE, NC
20D	Perennial	Open Channel	3,672	475	RW, CE
20D_C	Perennial	Culvert	1,895	180	EC
20E	Intermittent	Open Channel	140	47	RW, CA
21B	Perennial	Open Channel	9,525	964	RW, CA, SO
21C	Perennial	Open Channel	10,305	539	RW, CA, NC
21I	Perennial	Open Channel	22	6	NC

MDE IMPACT TABLES

PLATE 8C – WATERWAY IMPACTS (ALTERNATIVES 10 AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
20B	Intermittent	Open Channel	351	83	RW, CA
20C	Perennial	Ditch	112	37	RW, CE, NC
20D	Perennial	Open Channel	3,672	475	RW, CE
20D_C	Perennial	Culvert	1,895	180	EC
20E	Intermittent	Open Channel	140	47	RW, CA
21B	Perennial	Open Channel	10,220	1,007	RW, CA, SO
21C	Perennial	Open Channel	10,427	547	RW, CA, NC
21I	Perennial	Open Channel	22	6	NC

MDE IMPACT TABLES

PLATE 9A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
19B	Intermittent	Open Channel	166	56	RW, CE, NC
19B_C	Intermittent	Culvert	335	114	EC
19C	Perennial	Open Channel	635	70	RW, CE, NC
19C_C	Perennial	Culvert	1,368	130	EC
19E	Intermittent	Ditch	795	266	RW
19F	Perennial	Open Channel	8,552	690	RW, CE, NC
19F_1	Perennial	Open Channel	1,633	140	RW, NC
19F_2	Perennial	Open Channel	1,073	93	SO
19F_C	Perennial	Culvert	1,351	162	EC
19F_C1	Perennial	Culvert	789	49	EC
19G	Intermittent	Open Channel	104	37	RW, CE
19J_1	Perennial	Open Channel	1,427	129	RW, CE
19J_2	Perennial	Open Channel	1,516	143	RW, CE, NC
19J_C	Perennial	Culvert	169	22	EC
19J_C1	Perennial	Culvert	1,794	274	EC

PLATE 9A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
19D	PFO	169	3,329	CE, NC

MDE IMPACT TABLES

PLATE 9B – WATERWAY IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
19B	Intermittent	Open Channel	166	56	RW, CE, NC
19B_C	Intermittent	Culvert	335	114	EC
19C	Perennial	Open Channel	635	70	RW, CE, NC
19C_C	Perennial	Culvert	1,368	130	EC
19E	Intermittent	Ditch	795	266	RW
19F	Perennial	Open Channel	8,552	690	RW, CE, NC
19F_1	Perennial	Open Channel	1,633	140	RW, NC
19F_2	Perennial	Open Channel	1,073	93	SO
19F_C	Perennial	Culvert	1,351	162	EC
19F_C1	Perennial	Culvert	789	49	EC
19G	Intermittent	Open Channel	104	37	RW, CE
19J_1	Perennial	Open Channel	1,427	129	RW, CE
19J_2	Perennial	Open Channel	1,516	143	RW, CE, NC
19J_C	Perennial	Culvert	169	22	EC
19J_C1	Perennial	Culvert	1,794	274	EC

PLATE 9B – WETLAND IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
19D	PFO	169	3,329	CE, NC

MDE IMPACT TABLES

PLATE 10A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
19A	Intermittent	Ditch	1,011	259	RW, CA, NB
19A_C	Intermittent	Culvert	6,525	1,308	EC
19F_3	Perennial	Open Channel	951	65	NC
19F_4	Perennial	Open Channel	551	34	NC
19F_C2	Perennial	Culvert	16,756	1,308	EC
19K_1	Perennial	Open Channel	426	8	CE, NC
19R	Intermittent	Open Channel	137	3	CA
19R_1	Intermittent	Open Channel	15	1	CA
19T	Perennial	Open Channel	1,013	77	RW, CE
19T_1	Perennial	Open Channel	3,137	171	RW, CA, CE, NC
19T_C	Perennial	Culvert	3,638	227	EC

PLATE 10A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
19Q	PFO	-	4,911	CA
19S	PFO	887	3,394	CA
19W	PFO	-	923	RW
19Y	PEM	2,335	234	CA

MDE IMPACT TABLES

PLATE 10B – WATERWAY IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
19A	Intermittent	Ditch	1,011	259	RW, CA, NB
19A_C	Intermittent	Culvert	6,525	1,308	EC
19F_3	Perennial	Open Channel	951	65	NC
19F_4	Perennial	Open Channel	551	34	NC
19F_C2	Perennial	Culvert	16,756	1,308	EC
19K_1	Perennial	Open Channel	426	8	CE, NC
19R	Intermittent	Open Channel	137	3	CA
19R_1	Intermittent	Open Channel	15	1	CA
19T	Perennial	Open Channel	1,013	77	RW, CE
19T_1	Perennial	Open Channel	3,137	171	RW, CA, CE, NC
19T_C	Perennial	Culvert	3,638	227	EC

PLATE 10B – WETLAND IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
19Q	PFO	-	4,911	CA
19S	PFO	887	3,394	CA
19W	PFO	-	221	CA, RW
19Y	PEM	2,335	234	CA

MDE IMPACT TABLES

PLATE 11A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
18I	Perennial	Open Channel	846	58	RW, CE, NC
19K_2	Perennial	Open Channel	4,623	135	CA, NC, CE
19V	Perennial	Open Channel	922	53	NC
19V_C	Perennial	Culvert	6,014	331	EC

PLATE 11A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
18M	PFO	3,747	6,200	RW, CA

PLATE 11B – WATERWAY IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
18I	Perennial	Open Channel	846	58	RW, CE, NC
19K_2	Perennial	Open Channel	4,623	135	CA, NC, CE
19V	Perennial	Open Channel	694	40	NC
19V_C	Perennial	Culvert	6,014	331	EC

PLATE 11B – WETLAND IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
18M	PFO	2,179	4,875	RW, CA

MDE IMPACT TABLES

PLATE 12A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
18A	Intermittent	Open Channel	318	59	CE
18C_1	Perennial	Open Channel	1,104	50	RW, CE, NC
18C_C	Perennial	Culvert	2,525	253	EC
18G	Intermittent	Open Channel	65	6	CA
18G_C	Intermittent	Culvert	14,072	1,274	EC
18G_D	Intermittent	Ditch	54	8	CA
19K_6	Perennial	Open Channel	796	42	CA

PLATE 12A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
17A	PEM	840	1,648	CA
17GG	PFO	469	3,400	CA
18F	PFO	95	3,809	CA

MDE IMPACT TABLES

PLATE 12B – WATERWAY IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
18A	Intermittent	Open Channel	318	59	CE
18C_1	Perennial	Open Channel	1,104	50	RW, CE, NC
18C_C	Perennial	Culvert	2,412	241	EC
18G	Intermittent	Open Channel	65	6	CA
18G_C	Intermittent	Culvert	14,072	1,274	EC
18G_D	Intermittent	Ditch	54	8	CA
19K_6	Perennial	Open Channel	796	42	CA

PLATE 12B – WETLAND IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
17A	PEM	840	1,648	CA
17GG	PFO	469	3,400	CA
18F	PFO	95	3,809	CA

MDE IMPACT TABLES

PLATE 13A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
16A_1	Perennial	Open Channel	1,599	132	CA
16A_2	Perennial	Open Channel	2,452	109	CA
16A_C2	Perennial	Culvert	1,587	110	EC
17BB	Intermittent	Open Channel	384	47	NC
17BB_C	Intermittent	Culvert	1,955	295	EC
17DD	Intermittent	Open Channel	76	26	CA
17DD_C	Intermittent	Culvert	898	401	EC
17F	Perennial	Open Channel	9	3	CA
17Y	Intermittent	Open Channel	492	57	CA
19K_7	Perennial	Open Channel	2,772	70	CA, NB
19K_8	Perennial	Open Channel	3,269	71	CA, NB
19K_B2	Perennial	Bridge	6,924	156	EB

PLATE 13A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
17AA	PFO	297	8,312	RW, NC
17CC	PFO	3,685	7,557	RW, CA
17S	PFO	4,161	12,516	CA
17T	PEM	-	425	CA
17U	PFO	-	2,420	CA
17V	PFO	8,437	28,823	RW
17X	PFO	90	1,876	CA

MDE IMPACT TABLES

PLATE 13B – WATERWAY IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
16A_1	Perennial	Open Channel	1,582	132	CA
16A_2	Perennial	Open Channel	2,265	109	CA
16A_C2	Perennial	Culvert	1,587	110	EC
17BB	Intermittent	Open Channel	384	47	NC
17BB_C	Intermittent	Culvert	1,955	295	EC
17DD	Intermittent	Open Channel	8	3	CA
17DD_C	Intermittent	Culvert	898	401	EC
17Y	Intermittent	Open Channel	492	57	CA
19K_7	Perennial	Open Channel	2,279	58	CA, NB
19K_8	Perennial	Open Channel	2,657	59	CA, NB
19K_B2	Perennial	Bridge	6,924	156	EB

PLATE 13B – WETLAND IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
17AA	PFO	297	5,677	CA, NC, RW
17CC	PFO	1,280	7,116	CA, NC, RW
17S	PFO	188	10,523	CA
17T	PEM	-	4	CA
17U	PFO	-	632	CA
17V	PFO	6,738	22,665	CA, RW
17X	PFO	90	1,229	CA

MDE IMPACT TABLES

PLATE 14A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
16A	Perennial	Open Channel	1,968	51	CA
16A_1	Perennial	Open Channel	12,804	1,011	RW, CA
16A_C	Perennial	Culvert	2,419	131	EC
16A_C1	Perennial	Culvert	5,664	265	EC
16D	Intermittent	Ditch	104	36	CA
16D_C	Intermittent	Culvert	628	260	EC
16G	Perennial	Open Channel	3,001	172	RW, CA, NB
16G_1	Perennial	Open Channel	1,849	165	RW, CA, CE
16G_B	Perennial	Bridge	604	39	EB
16G_C	Perennial	Culvert	835	191	EC
16G_C1	Perennial	Culvert	6,757	592	EC
16G_D	Perennial	Ditch	402	84	RW, NC
16G_D1	Perennial	Ditch	1,176	167	CA, CE

PLATE 14A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
16L	PFO	148	3,627	RW, CA

MDE IMPACT TABLES

PLATE 14B – WATERWAY IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
16A	Perennial	Open Channel	1,602	38	CA
16A_1	Perennial	Open Channel	12,804	1,011	RW, CA, NC
16A_C	Perennial	Culvert	2,419	131	EC
16A_C1	Perennial	Culvert	5,664	265	EC
16D	Intermittent	Ditch	85	29	CA
16D_C	Intermittent	Culvert	628	260	EC
16G	Perennial	Open Channel	3,001	172	RW, CA, NB
16G_1	Perennial	Open Channel	1,585	148	RW, CA, CE
16G_B	Perennial	Bridge	604	39	EB
16G_C	Perennial	Culvert	835	191	EC
16G_C1	Perennial	Culvert	6,757	592	EC
16G_D	Perennial	Ditch	402	84	RW, NC
16G_D1	Perennial	Ditch	1,176	167	CA, CE

PLATE 14B – WETLAND IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
16L	PFO	-	1,844	CA, RW

MDE IMPACT TABLES

PLATE 15A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
15A	Intermittent	Ditch	4,830	657	RW
15A_C	Intermittent	Culvert	1,369	551	EC
15B	Intermittent	Open Channel	701	132	RW, CA, RC
16E	Intermittent	Ditch	882	165	RW, RC
16E_C	Intermittent	Culvert	255	55	EC

PLATE 15A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
16H	PEM	1,143	10,072	RW

PLATE 15B – WATERWAY IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
15A	Intermittent	Ditch	4,830	657	RW
15A_C	Intermittent	Culvert	1,038	429	EC
15B	Intermittent	Open Channel	701	132	RW, CA, RC
16E	Intermittent	Ditch	813	153	RW, RC
16E_C	Intermittent	Culvert	7	5	EC

PLATE 15B – WETLAND IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
16H	PEM	1,143	10,072	RW

MDE IMPACT TABLES

PLATE 16A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
14G	Intermittent	Open Channel	808	63	RW, CE
14G_1	Intermittent	Open Channel	93	17	RW, NC
14G_C	Intermittent	Culvert	949	185	EC
15C	Intermittent	Ditch	46	14	CA
15D	Perennial	Open Channel	598	24	RW, CA
15D_1	Perennial	Open Channel	466	16	CA
15D_C	Perennial	Culvert	3,307	267	EC

PLATE 16B – WATERWAY IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
14G	Intermittent	Open Channel	808	63	RW, CE
14G_1	Intermittent	Open Channel	93	17	RW, NC
14G_C	Intermittent	Culvert	949	185	EC
15D	Perennial	Open Channel	150	8	RW, CA
15D_1	Perennial	Open Channel	109	3	CA
15D_C	Perennial	Culvert	3,299	267	EC

MDE IMPACT TABLES

PLATE 17A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
14A	Intermittent	Open Channel	242	54	RW, CE
14A_1	Intermittent	Open Channel	2,503	206	RW, CA
14A_C	Intermittent	Culvert	2,227	172	EC
14E	Perennial	Open Channel	813	101	RW, CE
14E_C	Perennial	Culvert	252	57	EC
14E_C1	Perennial	Culvert	1,337	201	EC
14E_D	Perennial	Ditch	27	8	RW, CE

PLATE 17A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
14C	PEM	188	1,716	RW
14D	PSS	611	7,204	RW
14F	PEM	345	4,268	RW, CA
14I	PFO	2,500	6,586	RW, CE
14K	PFO	470	6,474	RW

MDE IMPACT TABLES

PLATE 17B – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
14A	Intermittent	Open Channel	216	48	RW, CE
14A_1	Intermittent	Open Channel	2,503	206	RW, CA
14A_C	Intermittent	Culvert	2,227	172	EC
14E	Perennial	Open Channel	813	101	RW, CE
14E_C	Perennial	Culvert	176	42	EC
14E_C1	Perennial	Culvert	1,337	201	EC
14E_D	Perennial	Ditch	27	8	RW, CE

PLATE 17B – WETLAND IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
14C	PEM	188	1,716	RW
14D	PSS	357	4,598	RW
14F	PEM	345	4,268	RW, CA
14I	PFO	1,100	5,933	RW, CE
14K	PFO	470	6,474	RW

MDE IMPACT TABLES

PLATE 18A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
13F	Perennial	Open Channel	140	58	CA
13G	Intermittent	Open Channel	311	36	CA
13H	Perennial	Open Channel	2,532	299	RW, CA, NC
13J	Intermittent	Ditch	1,107	221	RW
13J_1	Intermittent	Ditch	1,058	243	RW
13J_2	Intermittent	Ditch	965	133	RW, CE
13J_C	Intermittent	Culvert	290	53	EC
13J_C1	Intermittent	Culvert	896	159	EC

PLATE 18B – WATERWAY IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
13F	Perennial	Open Channel	140	58	CA
13G	Intermittent	Open Channel	311	36	CA
13H	Perennial	Open Channel	2,532	299	RW, CA, NC
13J	Intermittent	Ditch	1,107	221	RW
13J_1	Intermittent	Ditch	1,058	243	RW
13J_2	Intermittent	Ditch	910	126	RW, CE
13J_C	Intermittent	Culvert	290	53	EC
13J_C1	Intermittent	Culvert	896	159	EC

MDE IMPACT TABLES

PLATE 19A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
13A	Intermittent	Open Channel	1,018	189	RW, CE, NC
13I_1	Intermittent	Open Channel	1,499	171	CA
13K	Intermittent	Open Channel	765	159	CA, NB
13O	Intermittent	Open Channel	414	35	RW, CA
13P	Perennial	Open Channel	3,516	101	CA, NB
13P_1	Perennial	Open Channel	11,071	256	CA, NB
13P_B	Perennial	Bridge	4,402	126	EB

PLATE 19B – WATERWAY IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
13A	Intermittent	Open Channel	895	172	RW, CE, NC
13I_1	Intermittent	Open Channel	1,499	171	CA
13K	Intermittent	Open Channel	536	118	CA, NB
13O	Intermittent	Open Channel	274	23	RW, CA
13P	Perennial	Open Channel	3,086	87	CA, NB
13P_1	Perennial	Open Channel	11,071	256	CA, NB
13P_B	Perennial	Bridge	4,402	126	EB

MDE IMPACT TABLES

PLATE 20A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
13M	Perennial	Open Channel	13,632	1,518	RW, CA, NC
13M_1	Perennial	Open Channel	1,876	142	RW, CE, RC
13M_C	Perennial	Culvert	2,475	260	EC
13M_D	Intermittent	Ditch	344	177	CA
13R	Intermittent	Ditch	258	193	CA
13R_C	Intermittent	Culvert	1,012	235	EC
13S	Intermittent	Open Channel	1,259	252	RW, CA
13S_1	Intermittent	Open Channel	153	22	CA
13S_C	Intermittent	Culvert	403	148	EC
13T	Intermittent	Ditch	1,033	159	RW
13T_C	Intermittent	Culvert	1,225	286	EC
13X_1	Perennial	Ditch	203	29	CE
13Y	Perennial	Open Channel	588	87	RW, CE, NC

MDE IMPACT TABLES

PLATE 20B – WATERWAY IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
13M	Perennial	Open Channel	12,716	1,518	RW, CA, NC
13M_1	Perennial	Open Channel	1,708	130	RW, CE, RC
13M_C	Perennial	Culvert	2,475	260	EC
13M_D	Intermittent	Ditch	344	177	CA
13R	Intermittent	Ditch	258	193	CA
13R_C	Intermittent	Culvert	1,012	235	EC
13S	Intermittent	Open Channel	1,259	252	RW, CA
13S_1	Intermittent	Open Channel	153	22	CA
13S_C	Intermittent	Culvert	403	148	EC
13T	Intermittent	Ditch	1,033	159	RW
13T_C	Intermittent	Culvert	1,225	286	EC
13X_1	Perennial	Ditch	104	15	CE
13Y	Perennial	Open Channel	505	73	RW, CE, NC

MDE IMPACT TABLES

PLATE 21A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
13B	Intermittent	Ditch	622	290	RW, CA
13B_C	Intermittent	Culvert	254	91	EC
13B_C	Intermittent	Culvert	208	54	EC
13C	Intermittent	Ditch	792	171	RW
13C_1	Intermittent	Ditch	3,101	614	RW, NC
13C_C	Intermittent	Culvert	741	126	EC
13C_C1	Intermittent	Culvert	781	348	EC
13Q	Intermittent	Ditch	810	450	RW, CA, CE, NC
13Q	Intermittent	Ditch	275	140	RW, CA, CE, NC
13Q_C	Intermittent	Culvert	837	343	EC
13Z	Intermittent	Ditch	961	386	RW

PLATE 21A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
12GGGG	PFO	-	21	CA

MDE IMPACT TABLES

PLATE 21B – WATERWAY IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
13B	Intermittent	Ditch	622	290	RW, CA
13B_C	Intermittent	Culvert	254	91	EC
13B_C	Intermittent	Culvert	208	54	EC
13C	Intermittent	Ditch	792	171	RW
13C_1	Intermittent	Ditch	3,101	614	RW, NC
13C_C	Intermittent	Culvert	741	126	EC
13C_C1	Intermittent	Culvert	781	348	EC
13Q	Intermittent	Ditch	810	450	RW, CA, CE, NC
13Q	Intermittent	Ditch	275	140	RW, CA, CE, NC
13Q_C	Intermittent	Culvert	837	343	EC
13Z	Intermittent	Ditch	961	386	RW

PLATE 21B – WETLAND IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
12GGGG	PFO	-	21	CA

MDE IMPACT TABLES

PLATE 22A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
12C	Perennial	Ditch	1,664	277	CA
12C_C	Perennial	Culvert	222	69	EC
12CCC	Perennial	Ditch	1,085	214	NC, CA
12E_C	Perennial	Culvert	822	91	EC
12E_C1	Perennial	Culvert	434	51	EC
12EE	Intermittent	Open Channel	1,633	239	RW, NC
12EE_C	Intermittent	Culvert	749	247	EC
12F	Perennial	Open Channel	449	51	NC
12F_C	Perennial	Culvert	1,081	317	EC
12H	Perennial	Open Channel	916	59	CA
12H_C	Perennial	Culvert	112	17	EC
12H_C1	Perennial	Culvert	1,834	122	EC
12HHH	Intermittent	Ditch	1,074	177	CA
12HHHH	Intermittent	Open Channel	420	43	CA
12III	Intermittent	Open Channel	65	22	CE, NC
12JJJ	Perennial	Open Channel	289	29	CA
12JJJ_C	Perennial	Culvert	1,588	172	EC
12K	Perennial	Open Channel	3,750	437	RW, NC
12K_1	Perennial	Open Channel	178	28	CA
12K_C	Perennial	Culvert	1,536	196	EC
12KKK	Intermittent	Open Channel	228	115	CA
12KKK	Intermittent	Open Channel	412	151	CA
12KKK_C	Intermittent	Culvert	1,313	221	EC
12NNN	Intermittent	Ditch	451	175	CA
12O	Intermittent	Ditch	1,781	385	RW, CA
12O_1	Intermittent	Open Channel	482	66	CA
12P	Intermittent	Open Channel	226	46	CA
12Z	Intermittent	Ditch	734	138	RW, CA
12Z_C	Intermittent	Culvert	440	143	EC

MDE IMPACT TABLES

PLATE 22A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
12A	PEM	1,202	4,447	CA
12AA	PFO	4,843	10,011	RW
12B	PEM	1,187	6,910	CA
12BB	PFO	29,428	21,475	RW, CA
12CC	PFO	4,227	8,825	RW
12J	PFO	-	5	RW
12LLL	PFO	2,303	4,094	CA
12OOOO	PFO	-	201	CA
12PPPP	PFO	-	2,393	CA
12Q	PFO	4,480	8,778	RW, CA, RC

MDE IMPACT TABLES

PLATE 23A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
12CCC	Perennial	Ditch	96	20	CA
12H_2	Perennial	Open Channel	81	9	CA
12H_3	Perennial	Open Channel	2,733	286	CA, NC
12H_4	Perennial	Open Channel	4,622	504	CA, NC
12H_5	Perennial	Open Channel	230	22	CA
12H_B	Perennial	Bridge	1,041	90	EB
12H_B1	Perennial	Bridge	453	37	EB
12H_C2	Perennial	Culvert	350	52	EC
12II_4	Perennial	Open Channel	19,665	464	CA, NB
12II_5	Perennial	Open Channel	15,934	286	CA, NB
12II_6	Perennial	Open Channel	233	6	CA
12II_B3	Perennial	Bridge	1,745	46	EB
12II_C	Perennial	Culvert	7,373	174	EC
12II_C1	Perennial	Culvert	4,667	79	EC
12II_C2	Perennial	Culvert	4,157	90	EC
12KK	Perennial	Open Channel	8,113	1,126	RW
12PPP	Intermittent	Open Channel	417	75	CA
12QQQ	Intermittent	Open Channel	759	168	CA
12QQQ_C	Intermittent	Culvert	431	83	EC
12RRR	Perennial	Open Channel	246	30	CA
12RRR_C	Perennial	Culvert	2,149	216	EC
12S	Intermittent	Open Channel	4,763	547	RW, CA, NC, CE
12S_C	Intermittent	Culvert	440	151	EC
12T	Intermittent	Open Channel	364	41	CA
12T_D	Intermittent	Ditch	2,614	411	CA
12Y	Intermittent	Open Channel	631	85	RW
12Y_C	Intermittent	Culvert	308	89	EC
12Y_D	Intermittent	Ditch	2,398	283	RW, CA
12Z_C	Intermittent	Culvert	178	56	EC

MDE IMPACT TABLES

PLATE 23A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
12DDD	PEM	2,831	9,566	CA
12EEE	PFO	7,415	13,464	CA
12FF	PEM	1,433	11,306	RW, CA
12FF	PEM	906	6,048	CA
12GG	PFO	527	2,415	RW
12JJ	PEM	2,223	7,313	RW
12OOO	PEM	1,050	6,923	CA
12U	PFO	3,508	7,551	CA
12W	PFO	8,335	7,551	RW
12X	PEM	-	399	RW
12YY	PFO	715	2,798	RW, CA

MDE IMPACT TABLES

PLATE 24A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
12II	Perennial	Open Channel	8,712	131	CA, NB
12II_C3	Perennial	Culvert	9,930	159	EC
12VVV	Intermittent	Ditch	2,155	431	CA
12WW	Perennial	Open Channel	403	97	RW, CA
12WW_1	Perennial	Open Channel	289	49	RW, CA
12WW_2	Perennial	Open Channel	742	83	CA, NB
12WW_C	Perennial	Culvert	637	128	EC
12WW_C1	Perennial	Culvert	1,562	186	EC
12WWW	Intermittent	Ditch	203	85	CA
12WWW_1	Intermittent	Open Channel	1,422	254	RW, NC, CA
12WWW_C	Intermittent	Culvert	432	146	EC
12XX	Perennial	Open Channel	2,424	157	CA, NB
12XX_1	Perennial	Open Channel	107	15	CA
12XX_C	Perennial	Culvert	1,718	252	EC
12YYY	Perennial	Ditch	2,776	843	RW, CA, NC
12YYY_1	Perennial	Ditch	932	186	CA, SO
12YYY_C	Perennial	Culvert	1,084	175	EC
12YYY_C1	Perennial	Culvert	463	107	EC

PLATE 24A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
12VV	PFO	-	791	CA
12XXX	PEM	3,179	16,804	RW
12ZZZ	PFO	8,429	8,206	CA, NB

MDE IMPACT TABLES

PLATE 25A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
12MM	Intermittent	Ditch	1,666	442	RW
12OO	Perennial	Open Channel	4,140	103	RW, CE, NC
12OO_1	Perennial	Open Channel	3,474	101	RW, CE, NC
12OO_C	Perennial	Culvert	7,487	221	EC
12PP	Intermittent	Open Channel	2	5	RW, SO
12UUU	Perennial	Open Channel	48	29	RW, CE

PLATE 25A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
12NN	PFO	2,896	9,598	RW, RC
12QQ	PFO	11	7,523	RW, SO
12SS	PFO	14,105	25,008	RW, HL, CA, CE

MDE IMPACT TABLES

PLATE 26A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
11R	Perennial	Ditch	506	105	RW
11R_1	Perennial	Open Channel	471	97	RW, CA
11R_C	Perennial	Culvert	61	21	EC
11R_D	Intermittent	Ditch	3,438	795	RW
11T	Perennial	Ditch	216	46	NC
11T_C	Perennial	Culvert	1,511	288	EC

PLATE 26A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
11HH	PFO	-	71	CA

MDE IMPACT TABLES

PLATE 27A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
11AA	Intermittent	Open Channel	1,774	337	RW
11CC	Intermittent	Open Channel	218	90	RW, RC
11H	Intermittent	Ditch	265	93	RW
11L	Perennial	Open Channel	5,813	106	RW, CE
11L_1	Perennial	Open Channel	2,572	37	RW
11L_2	Perennial	Open Channel	6,654	179	RW, CE
11L_B	Perennial	Bridge	4,960	70	EB
11L_B1	Perennial	Bridge	4,717	72	EB
11M	Intermittent	Open Channel	343	49	RW
11M_1	Intermittent	Open Channel	1,767	208	RW
11M_B	Intermittent	Bridge	204	32	EB
11V	Perennial	Ditch	5,924	554	RW
11Y	Intermittent	Open Channel	2,035	360	RW

MDE IMPACT TABLES

PLATE 27A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
11DD	PEM	299	3,834	RW
11EE	PFO	2,575	7,211	RW
11F	PEM	2,990	5,945	RW, RC
11FF	PFO	20	2,959	RW
11I	PFO	2,188	9,222	RW
11II	PFO	890	3,857	RW
11K	PFO	1,805	8,710	RW, RC, CE
11N	PFO	753	5,244	RW
11O	PEM	11,773	17,322	RW
11P	PFO	6,703	19,305	RW
11U	PFO	20,752	13,515	RW, RC
11W	PEM	571	4,139	RW
11X	PEM	1,196	7,801	RW
11Z	PFO	33,799	29,700	RW, RC, NB, HL

MDE IMPACT TABLES

PLATE 28A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
10AA	Perennial	Open Channel	1,690	290	RW, CA
10AA_C	Perennial	Culvert	2,046	241	EC
10BB	Perennial	Ditch	3,869	633	RW, CA, CE
10BB_C	Perennial	Culvert	706	116	EC
10S	Perennial	Ditch	2,469	516	RW, CA, CE
10S_C	Perennial	Culvert	389	132	EC
10U	Intermittent	Open Channel	1,508	178	RW
10Y_C	Perennial	Culvert	826	340	EC
11A	Intermittent	Ditch	355	114	RW, NC, RC
11A_1	Perennial	Ditch	129	43	RW, NC, CE
11C	Intermittent	Open Channel	580	261	RW, CA
11C_C	Intermittent	Culvert	482	120	EC
11D	Intermittent	Ditch	174	98	RW
11E	Perennial	Open Channel	22	14	CA
11E_C	Perennial	Culvert	341	12	EC
11E_C1	Perennial	Culvert	2,795	223	EC
11E_C2	Perennial	Culvert	1,023	57	EC
11E_D	Perennial	Ditch	11,315	1,201	RW, CA, CE, NC
11E_D1	Perennial	Ditch	1,572	84	RW
11E_D2	Perennial	Ditch	1,194	71	CE, NC
11G	Intermittent	Ditch	4,505	779	RW

PLATE 28A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
10R	PFO	2,451	13,987	CA
10T	PFO	3,337	9,940	RW
10V	PEM	2,283	7,242	RW
10W	PEM	1,232	7,640	CA
10Z	PFO	-	1,204	RW, CA
11B	PFO	400	8,513	RW, CE, NC, RC

MDE IMPACT TABLES

PLATE 29A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
10B	Intermittent	Open Channel	103	13	RW, CA
10B_1	Intermittent	Open Channel	420	80	RW, CA
10B_C	Intermittent	Culvert	868	95	EC
10C	Perennial	Open Channel	1,092	102	CA
10C_1	Perennial	Open Channel	1,021	82	CA
10C_C	Perennial	Culvert	2,831	226	EC
10E	Perennial	Open Channel	1,195	92	RW
10F	Intermittent	Open Channel	237	45	CA, NB
10F_1	Intermittent	Open Channel	604	105	CA
10F_2	Intermittent	Open Channel	621	79	CA
10F_C	Intermittent	Culvert	670	117	EC
10F_C1	Intermittent	Culvert	1,075	122	EC
10J	Intermittent	Ditch	1,273	207	RW
10J_C	Intermittent	Culvert	2,122	445	EC
10K	Intermittent	Open Channel	1,320	123	RW
10K_C	Intermittent	Culvert	1,144	213	EC
10L	Intermittent	Open Channel	4,730	735	RW, CA
10N	Intermittent	Open Channel	845	133	RW
10N_1	Intermittent	Open Channel	2,645	325	RW, CA, NC
10N_C	Intermittent	Culvert	2,928	397	EC
10N_D	Intermittent	Ditch	1,708	188	RW, NC

MDE IMPACT TABLES

PLATE 29A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
10D	PSS	9,707	16,467	RW, RC, CE
10H	PFO	-	2,346	RW, CA
10I	PFO	322	2,114	CA
10M	PFO	2,698	13,541	RW, RC, CA, HL
10P	PFO	378	3,742	NB

PLATE 30A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
10AAA	Intermittent	Open Channel	18	5	CA
10TT_C1	Perennial	Culvert	1,473	67	EC

PLATE 30A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
10DD	PFO	-	953	CA
10EE	PFO	4,189	16,435	RW
10XX	PFO	-	272	CA

MDE IMPACT TABLES

PLATE 31A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
10FF	Intermittent	Open Channel	1,569	137	SO
10KK	Intermittent	Ditch	1,488	200	RW, CA
10MM	Intermittent	Open Channel	203	25	SO
10MM_1	Intermittent	Open Channel	3,411	368	RW, CA
10MM_C	Intermittent	Culvert	2,419	210	EC
10PP	Intermittent	Open Channel	235	29	CA
10PP_1	Intermittent	Open Channel	830	105	CA
10PP_C	Intermittent	Culvert	2,477	272	EC
10JJ	Intermittent	Open Channel	67	11	RW

PLATE 31A - WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
10GG	PFO	3,076	8,020	CA
10NN	PFO	-	1,827	RW, CA

MDE IMPACT TABLES

PLATE 32A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
9F	Intermittent	Ditch	908	291	RW, NC
9G	Perennial	Open Channel	2,136	133	NC
9G_1	Perennial	Open Channel	712	73	RW, NC
9G_C	Perennial	Culvert	4,749	278	EC
9J	Perennial	Open Channel	877	74	RW, CE, NC
9J_C	Perennial	Culvert	1,291	274	EC
9M	Intermittent	Open Channel	1,283	315	RW, CE, NC
9M_D	Intermittent	Ditch	1,244	421	RW
9QQ	Intermittent	Open Channel	442	160	RW, NC
9RR	Intermittent	Open Channel	1,068	403	RW

PLATE 32A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
9K	PSS	106	727	CE
9N	PSS	1,020	4,397	RW, RC, CE, NC
9PP	PFO	5,321	6,902	RW, NC, HL
9SS	PFO	1,488	7,721	RW
9TT	PFO	862	3,504	RW, RC

MDE IMPACT TABLES

PLATE 33A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
9CC	Perennial	Open Channel	982	330	RW, CA
9CC_C	Perennial	Culvert	948	326	EC
9GG	Intermittent	Open Channel	79	27	RW, RC
9JJ	Perennial	Open Channel	4,206	426	RW, CA, RC, NC
9MM	Intermittent	Open Channel	782	142	RW
9VV	Intermittent	Open Channel	344	120	RW, CA
9Y	Perennial	Open Channel	1,614	94	RW, RC, CE, NC
9Y_1	Perennial	Open Channel	919	88	CE
9Y_C	Perennial	Culvert	3,901	194	EC
9Z	Intermittent	Ditch	167	57	RW
9Z_C	Intermittent	Culvert	73	24	EC

PLATE 33A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
9BB	PFO	78	7,412	SO
9KK	PFO	752	7,036	RW, SO, CA
9NN	PFO	383	4,460	RW
9WW	PFO	804	2,836	RW

MDE IMPACT TABLES

PLATE 34A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
8R	Perennial	Open Channel	298	18	NC, SO
8R_C1	Perennial	Culvert	5,171	355	EC
8R_D1	Intermittent	Ditch	2,945	241	RW, CA, NC
8R_D1	Intermittent	Ditch	673	110	CA
9A	Intermittent	Open Channel	1,647	193	CA
9C	Intermittent	Open Channel	2,726	248	RW, CA, CE, NC
9C_1	Intermittent	Open Channel	220	26	NC
9C_C	Intermittent	Culvert	2,004	278	EC
9C_C1	Intermittent	Culvert	1,452	174	EC
9R	Intermittent	Ditch	3,365	590	CA, NC
9T	Intermittent	Open Channel	99	20	RW
9T_1	Perennial	Open Channel	1,006	143	RW, CE
9T_C	Intermittent	Culvert	1,211	231	EC

PLATE 34A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
8U	PEM	355	2,924	CA
9B	PEM	2,242	7,770	CA, NC
9D	PFO	1,249	7,089	RW, CA, CE
9E	PEM	1,029	4,002	RW, CE
9W	PFO	-	2,114	RW, CA

MDE IMPACT TABLES

PLATE 35A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
8V	Intermittent	Open Channel	375	126	RW, CE

PLATE 36A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
7Q_2	Perennial	Ditch	27	18	RW
7Q_3	Perennial	Ditch	88	32	CA
7Q_C1	Perennial	Culvert	362	168	EC
7Q_C2	Perennial	Culvert	1,249	341	EC
8A	Intermittent	Open Channel	376	190	RW
8E	Intermittent	Open Channel	209	106	RW
8E_C	Intermittent	Culvert	1,042	295	EC
8E_D	Intermittent	Ditch	671	142	CA
8F	Intermittent	Open Channel	2,399	129	RW, NC
8F_C	Intermittent	Culvert	2,329	221	EC
8G_1	Intermittent	Open Channel	61	19	RW
8J	Intermittent	Open Channel	359	161	RW
8J_1	Perennial	Open Channel	295	75	RW
8J_2	Perennial	Open Channel	436	55	NC
8J_C	Intermittent	Culvert	1,821	505	EC
8J_C1	Perennial	Culvert	964	80	EC
8MM	Intermittent	Open Channel	134	42	NC
8N	Intermittent	Open Channel	449	170	RW
8N_1	Perennial	Open Channel	869	320	RW

MDE IMPACT TABLES

PLATE 36A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
7P	PEM	3,379	9,060	RW, CA, HL
7R	PEM	304	4,292	RW
8H	PFO	1,794	9,721	RW, CA
8K	PEM	1,160	10,487	RW
8L	PFO	1,149	7,640	RW
8LL	PFO	-	1,425	RW, NC
8M	PEM	887	8,461	RW
8O	PEM	1,563	7,491	RW
8P	PSS	1,076	5,474	RW, RC, NB
8Q	PEM	328	2,734	RW

MDE IMPACT TABLES

PLATE 37A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
7AA	Intermittent	Open Channel	209	121	RW
7PP	Intermittent	Open Channel	462	36	CA
7PP_C	Intermittent	Culvert	2,926	429	EC
7S	Perennial	Open Channel	1,516	146	RW, RC, CE, NC
7S_C	Perennial	Culvert	1,361	228	EC
8W	Intermittent	Open Channel	3,959	238	NC, CA
8W_1	Intermittent	Open Channel	4,008	549	RW, CE, NC
8W_C	Intermittent	Culvert	415	67	EC
8Z	Perennial	Open Channel	1,123	60	CA
8Z_C2	Perennial	Culvert	3,585	199	EC

PLATE 37A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
7KK	PFO	1,717	5,148	RW
8Y	PEM	-	697	NC, CA

MDE IMPACT TABLES

PLATE 38A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
7MM	Intermittent	Open Channel	974	175	CA
8HH	Intermittent	Open Channel	1,283	133	SO
8HH_C	Intermittent	Culvert	1,082	80	EC

PLATE 38A - WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
7LL	PEM	914	6,730	CA
7RR	PEM	608	5,267	CA
8FF	PFO	-	231	CA
8JJ	PFO	892	4,212	CA
8KK	PSS	15	1,068	CA

MDE IMPACT TABLES

PLATE 39A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
7BB	Intermittent	Open Channel	279	56	RW
7BB_1	Intermittent	Open Channel	123	45	RW
7BB_C	Intermittent	Culvert	149	38	EC
7BB_D	Intermittent	Ditch	2,128	509	RW
7GG	Intermittent	Open Channel	771	238	RW
7I	Intermittent	Open Channel	122	50	RW
7JJ	Perennial	Open Channel	54	11	NC, CE
7JJ_1	Perennial	Open Channel	258	55	RW, CE
7JJ_C	Perennial	Culvert	270	50	EC
7JJ_C1	Perennial	Culvert	750	256	EC
7N	Perennial	Ditch	1,891	240	RW
7N_1	Perennial	Ditch	274	81	RW, CE
7N_C	Perennial	Culvert	186	28	EC
7O	Perennial	Open Channel	979	85	RW, CA, CE, NC
7O_1	Perennial	Open Channel	974	87	RW, CE
7O_C	Perennial	Culvert	2,724	203	EC

PLATE 39A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
7CC	PEM	462	3,060	RW
7HH	PFO	578	4,787	RW
7J	PFO	3,447	13,560	RW
7K	PEM	328	3,719	RW

MDE IMPACT TABLES

PLATE 40A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
7A	Intermittent	Open Channel	58	14	RW
7A_C	Intermittent	Culvert	4,577	1,485	EC
7D	Intermittent	Open Channel	125	47	RW, RC
7E	Perennial	Ditch	2,767	354	RW
7F	Intermittent	Ditch	121	32	RW
7F_C	Intermittent	Culvert	84	30	EC
7G	Perennial	Open Channel	197	21	CA
7G_1	Perennial	Open Channel	2,757	513	RW
7G_2	Perennial	Open Channel	124	18	RW
7G_C	Perennial	Culvert	231	53	EC
7G_C1	Perennial	Culvert	1,464	241	EC
7H	Intermittent	Ditch	3,528	389	RW
7T	Perennial	Open Channel	62	18	CA
7T_1	Perennial	Open Channel	779	254	RW
7T_C	Perennial	Culvert	248	73	EC

PLATE 40A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
7C	PEM	10	1,843	RC
7DD	PFO	-	1,441	CA
7K	PEM	886	9,723	RW
7L	PFO	2,467	6,945	RW
7M	PFO	2,611	8,683	RW, CA
7U	PSS	749	3,016	RW
7W	PFO	2,508	8,826	RW
7Y	PFO	189	3,374	RW, RC, CE
7Z	PFO	1,544	8,277	RW, CA

MDE IMPACT TABLES

PLATE 41A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
6AA	Intermittent	Open Channel	116	32	CE, NC
6BBBB	Intermittent	Open Channel	47	17	RW
6BBBB_C	Intermittent	Culvert	400	257	EC
6DDD_C	Intermittent	Culvert	649	129	EC
6EEE	Intermittent	Open Channel	58	31	CA
6G	Perennial	Open Channel	15	2	CA
6G_1	Perennial	Open Channel	7,018	1,094	RW, CA, CE, NC
6G_C	Perennial	Culvert	4,508	526	EC
6RRR	Intermittent	Open Channel	425	70	RW
6RRR_C	Intermittent	Culvert	2,742	370	EC
6RRR_D	Intermittent	Ditch	907	150	RW
6TT	Perennial	Open Channel	75	13	CA
6TTT	Intermittent	Open Channel	904	233	RW
6TTT_C	Intermittent	Culvert	1,210	314	EC
6UU	Intermittent	Open Channel	139	55	RW
6UU_1	Intermittent	Open Channel	41	15	RW
6UU_C	Intermittent	Culvert	749	252	EC
6UUU	Intermittent	Open Channel	179	71	CA, RW, RC
6WW	Intermittent	Open Channel	293	62	CA
6WW_C	Intermittent	Culvert	358	95	EC

MDE IMPACT TABLES

PLATE 41A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
6CCCC	PFO	695	5,118	RW
6OO	PEM	3,508	7,836	RW, CA
6OO	PEM	161	1,143	CA
6OO	PEM	1,165	6,382	RW, CA
6OO	PEM	777	0	RW, CE, RC, NC
6OO	PEM	179	0	RW, CE, NC
6OO	PEM	50	0	RW, CE, NC
6OO	PEM	1,061	4,469	RW, CE
6OO	PEM	775	0	RW, RC
6OO	PEM	802	0	RW, RC
6OO	PEM	282	0	RW, RC
6S	PEM	277	4,089	RW
6VV	PFO	3,216	11,947	CA
6VVV	PFO	1,569	3,861	RW, CA, RC
6XXX	PFO	2,245	2,863	RW, CE, NC
6Y	PFO	1,586	8,235	RW
6Y	PFO	4,775	19,745	RW, CA
6YYY	PEM	489	3,663	RW, CA, CE
6ZZ	PFO	387	3,871	CA
6ZZZ	PFO	4,641	9,340	RW, CA, RC
7DD	PFO	-	1,777	CA

MDE IMPACT TABLES

PLATE 42A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
6B	Perennial	Open Channel	183	40	RW, CE
6BB_C	Intermittent	Culvert	573	118	EC
6D	Intermittent	Open Channel	132	33	RW
6G_2	Perennial	Open Channel	9,867	697	RW, CA, RC, NC
6G_3	Perennial	Open Channel	7,472	595	RW, CA
6G_B	Perennial	Bridge	2,653	114	EB
6G_C1	Perennial	Culvert	5,197	328	EC
6III	Intermittent	Ditch	2,212	427	RW, CE
6III_C	Intermittent	Culvert	238	267	EC
6JJJ	Perennial	Ditch	141	36	RW
6JJJ_C	Perennial	Culvert	1,093	251	EC
6LLL	Perennial	Ditch	2,850	753	RW, CE
6MMM	Perennial	Open Channel	932	53	RW, CE
6MMM_1	Perennial	Open Channel	59	17	NC
6MMM_C	Perennial	Culvert	1,899	239	EC
6NNN_1	Intermittent	Open Channel	80	31	CE, NC
6NNN_C	Intermittent	Culvert	59	26	EC
6SS_C	Intermittent	Culvert	198	66	EC
6T	Intermittent	Open Channel	331	88	RW

MDE IMPACT TABLES

PLATE 42A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
6A	PFO	3,756	7,663	RW
6C	PFO	4,791	21,435	RW, CE, NC, SO
6CC	PFO	-	734	CA
6E	PFO	879	6,315	RW, HL
6F	PFO	6,539	11,116	RW
6H	PEM	1,836	7,003	RW
6I	PFO	2,777	9,085	RW, HL
6K	PFO	1,789	6,730	RW, HL
6KKK	PEM	1,022	6,619	RW
6OOO	PFO	-	231	NC
6PPP	PFO	4,008	29,553	RW
6SSS	PEM	177	2,416	RW
6U	PFO	17,232	38,728	RW, CA

MDE IMPACT TABLES

PLATE 43A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
5BB	Intermittent	Open Channel	384	133	CA
5Q	Perennial	Ditch	54	28	CA
6AAA	Intermittent	Ditch	78	50	RW
6AAA_1	Intermittent	Ditch	167	52	RW
6AAA_B	Intermittent	Bridge	129	31	EB
6AAA_C	Intermittent	Culvert	120	43	EC
6AAA_C1	Intermittent	Culvert	1,025	236	EC
6FFFF_1	Intermittent	Open Channel	31	8	RW
6FFFF_2	Intermittent	Open Channel	133	19	RW, RC, CE
6FFFF_C1	Intermittent	Culvert	116	24	EC
6G_3	Perennial	Open Channel	9,733	687	RW, SO
6G_6	Perennial	Open Channel	33	11	CA
6GGG	Intermittent	Open Channel	440	112	RW, CA
6GGG_1	Intermittent	Open Channel	602	226	CA
6GGG_C	Intermittent	Culvert	511	134	EC
6GGG_C1	Intermittent	Culvert	139	70	EC
6L	Intermittent	Ditch	108	41	RW, CE

MDE IMPACT TABLES

PLATE 43A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
5AA	PSS	8,183	8,393	CA
5R	PEM	323	629	CA
5X	PFO	-	3,596	RW, CA
5Z	PFO	13,062	11,327	CA
6CCC	PEM	5,311	25,859	RW, CA, HL
6HHH	PFO	1,832	4,386	RW, CA
6P	PFO	812	4,582	RW
6P	PFO	2,022	8,659	RW, RC
6Q	PFO	97	4,456	CA
6QQ	PFO	-	2,388	SO
6QQQ	PEM	100	1,206	CA
6RR	PEM	-	1,618	SO

MDE IMPACT TABLES

PLATE 44A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
5KK	Intermittent	Open Channel	166	31	CA
5MM	Intermittent	Open Channel	243	20	CA
5Q	Perennial	Ditch	1,966	918	RW, CA
5QQ	Intermittent	Open Channel	36	11	CA
5QQ_2	Intermittent	Open Channel	60	21	CA
5QQ_C	Intermittent	Culvert	237	80	EC
5S	Perennial	Open Channel	3,972	108	CE
5S_1	Perennial	Open Channel	2,209	82	CE
5S_B	Perennial	Bridge	7,674	200	EB
5T	Perennial	Ditch	184	11	CE
6G_6	Perennial	Open Channel	4,994	271	RW, CA

PLATE 44A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
5II	PFO	114	7,178	CA
5LL	PEM	23	1,560	CE
5R	PEM	12,273	25,594	RW, CA
5RR	PFO	1,203	3,693	CA
5TT	PEM	220	2,277	CA
5UU	PSS	2,255	9,693	CA

MDE IMPACT TABLES

PLATE 45A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
5FF	Intermittent	Open Channel	73	25	RW, CE
5FF_C	Intermittent	Culvert	723	244	EC
5P	Intermittent	Open Channel	1,518	157	RW

PLATE 45A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
5CC	PFO	48	1,061	RW
5DD	PEM	158	2,550	RW
5GG	PFO	1,923	13,249	RW

MDE IMPACT TABLES

PLATE 46A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
4NNN_1	Intermittent	Open Channel	277	43	CE, NC
4TTTT_2	Intermittent	Ditch	994	127	RW
4TTTT_3	Perennial	Open Channel	424	86	RW
4TTTT_C2	Perennial	Culvert	127	33	EC
4Z_1	Perennial	Open Channel	737	50	RW, CE
4Z_2	Perennial	Open Channel	914	68	NC
4Z_3	Perennial	Open Channel	1,093	123	CA
4Z_C	Perennial	Culvert	67	21	EC
4Z_C1	Perennial	Culvert	1,436	103	EC
4Z_C2	Perennial	Culvert	770	80	EC
5F	Perennial	Open Channel	392	61	RW, CE
5F_1	Perennial	Open Channel	1,919	185	RW, CA, CE
5F_C1	Perennial	Culvert	3,718	496	EC
5J	Intermittent	Open Channel	15	5	CA, CE
5N	Intermittent	Open Channel	203	58	RW

MDE IMPACT TABLES

PLATE 46A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
4BB	PFO	-	7,699	RW, CA
4CC	PEM	-	2,780	CA
4KKK	PFO	-	1,670	CA
4PPP	PFO	-	78	CA
5A	PFO	-	470	CA
5E	PSS	18,526	72,936	RW, CA
5G	PSS	64	2,949	CE, NC
5K	PFO	3,339	8,624	RW, CA, CE
5L	PFO	984	2,045	RW, CE, NC
5L	PFO	1,011	2,700	CE, NC
5M	PEM	1,528	1,802	CE, NC

MDE IMPACT TABLES

PLATE 47A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
4BBB	Perennial	Open Channel	1,219	380	RW, NC, CE
4BBB_1	Perennial	Open Channel	187	40	RW
4BBB_C	Perennial	Culvert	119	24	EC
4EE	Perennial	Open Channel	131	66	RW
4HHH	Intermittent	Open Channel	80	28	RW
4HHH_1	Intermittent	Open Channel	53	18	RW
4HHH_C	Intermittent	Culvert	62	23	EC
4T	Intermittent	Open Channel	619	50	RW, CE, NC
4T_C	Intermittent	Culvert	1,701	290	EC
4U	Intermittent	Open Channel	509	87	RW, CE
4W	Perennial	Open Channel	339	51	RW, CE
4W_1	Perennial	Open Channel	96	13	RW
4W_2	Perennial	Open Channel	347	52	CE
4W_C	Perennial	Culvert	1,933	271	EC
4W_C1	Perennial	Culvert	138	27	EC

MDE IMPACT TABLES

PLATE 47A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
4AAA	PFO	-	874	RW, CE
4CCC	PEM	2,225	12,093	RW
4DD	PEM	462	4,608	RW
4DDD	PFO	425	5,696	RW
4EEE	PEM	181	1,121	RW
4FFF	PFO	2,078	7,789	RW
4III	PEM	1,929	4,934	RW
4JJJ	PFO	335	3,670	RW
4MMM	PFO	-	802	RW
4QQQ	PEM	583	1,807	RW
4V	PFO	547	4,996	RW
4VVVV	PEM	-	1,451	CA
4WW	PFO	-	3,349	CA
4WWWW	PEM	-	1,521	CA
4XX	PFO	953	6,884	RW, NC
4YY	PSS	-	3	NC

MDE IMPACT TABLES

PLATE 48A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
4B	Intermittent	Open Channel	337	31	RW, CE
4B_C	Intermittent	Culvert	1,247	257	EC
4E	Intermittent	Open Channel	147	45	RW, CE
4E_C	Intermittent	Culvert	1,064	245	EC
4JJJJ	Perennial	Open Channel	795	92	RW, CE
4M	Perennial	Open Channel	268	83	RW, CE
4M_C	Perennial	Culvert	1,763	270	EC
4NN	Intermittent	Open Channel	83	42	CE
4O	Intermittent	Open Channel	974	362	RW, CA
4OO	Intermittent	Open Channel	227	62	RW
4OOOO	Intermittent	Open Channel	273	75	RW
4PPPP	Perennial	Open Channel	3,296	254	CA, NC
4Q	Perennial	Open Channel	2,439	164	RW, CE
4Q_1	Perennial	Open Channel	841	73	NC, RC
4Q_C	Perennial	Culvert	2,742	231	EC
4QQ	Intermittent	Open Channel	43	18	RW, CA
4QQQQ	Intermittent	Open Channel	716	95	RW, NC
4RRR	Intermittent	Open Channel	233	85	RW
4TTT	Perennial	Open Channel	497	47	RW, CE
4UUU	Intermittent	Open Channel	251	105	RW

MDE IMPACT TABLES

PLATE 48A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
4AAAAA	PEM	-	2,970	CA
4D	PFO	283	4,388	RW, CE
4F	PFO	431	4,257	RW, CE
4HHHH	PFO	-	8	CE
4KKKK	PFO	1,695	5,777	RW, RC, HL
4N	PFO	5,396	18,025	RW, CA, RC
4NNNN	PFO	2,471	9,203	RW
4R	PFO	5,050	8,278	RW, CA, RC, CE, NC
4RR	PFO	891	424	RW, CA, RC
4SSS	PFO	1,798	6,643	RW
4VV	PFO	318	3,713	RW, HL
4VVV	PFO	1,996	7,795	RW
4YYYY	PSS	-	4,388	NC, CE, CA

MDE IMPACT TABLES

PLATE 49A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
4DDDD	Intermittent	Open Channel	260	19	RW, CE, NC
4GG	Intermittent	Ditch	413	80	RW
4GG_C	Intermittent	Culvert	2,574	326	EC
4GGGG	Perennial	Open Channel	21	11	CA
4K	Intermittent	Open Channel	46	15	RW
4L	Intermittent	Open Channel	320	41	RW, CA
4M	Perennial	Open Channel	308	25	RW, CA

PLATE 49A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
4AAAA	PFO	205	3,114	RC
4CCCC	PFO	1,478	8,859	RW, CE, NC, HL
4HH	PFO	4,659	14,801	RW, HL
4II	PFO	-	2,774	RW, CA
4KK	PFO	-	3,154	RW, CA
4MM	PFO	1,603	5,871	RW, HL
4ZZZ	PFO	3,353	8,845	RW, CA, HL

MDE IMPACT TABLES

PLATE 50A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
3JJ	Intermittent	Open Channel	2,660	410	RW, CA
3JJ_C	Intermittent	Culvert	269	106	EC
3JJ_C1	Intermittent	Culvert	1,244	305	EC
3LL	Intermittent	Open Channel	1,030	125	RW
3LL_1	Intermittent	Open Channel	3,364	595	RW, CA, NC
3LL_C	Intermittent	Culvert	1,441	317	EC
3LL_C1	Intermittent	Culvert	853	195	EC
3ZZ	Perennial	Open Channel	1,347	122	NC
4YYY	Intermittent	Open Channel	60	35	CA

PLATE 50A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
3GG	PEM	842	6,598	RW
3HH	PFO	2,991	30,048	RW, CA
3II	PEM	3,495	16,333	RW
3NN	PEM	618	5,960	RW
3OO	PFO	1,057	9,590	RW, CA
4A	PEM	5,212	9,033	RW
4I	PEM	927	5,576	CA
4WWW	PFO	5,609	16,328	RW, CA
4WWW	PFO	3,497	12,281	RW, CA
4XXX	PFO	2,276	10,021	CA

MDE IMPACT TABLES

PLATE 51A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
3AA	Perennial	Open Channel	299	26	RW, CE
3AA_1	Perennial	Open Channel	495	79	RW, CE
3AA_C	Perennial	Culvert	3,631	302	EC
3BBB	Intermittent	Open Channel	211	62	RW, CE
3FFF	Intermittent	Open Channel	175	44	RW, NC
3FFF_D	Intermittent	Ditch	265	67	RW
3L	Perennial	Open Channel	493	52	RW, CE
3L_1	Perennial	Open Channel	820	90	RW, CE, NC
3L_C	Perennial	Culvert	1,908	287	EC
3S	Perennial	Open Channel	2,824	183	RW, CA
3SS	Intermittent	Open Channel	43	10	CA
3TT	Perennial	Open Channel	1	3	SO
3U	Intermittent	Open Channel	319	64	RW, CA

MDE IMPACT TABLES

PLATE 51A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
3E	PFO	963	12,246	RW
3GGG	PFO	244	2,876	NC
3HHH	PFO	1,508	7,753	RW, CA
3III	PEM	1,616	4,443	RC, CE, NC
3J	PEM	1,324	10,208	RW
3JJJ	PFO	880	3,947	CE, NC
3KKK	PSS	1,193	901	RW, NC
3M	PEM	68	1,634	CE
3MMM	PEM	-	450	CA
3O	PFO	328	3,588	RC, CE
3T	PFO	6,078	15,006	RW, CA, CE, HL
3V	PFO	746	4,823	RW, CE, NC
3X	PFO	2,562	5,848	CA, NB
3Y	PFO	-	3,178	RW, CE

MDE IMPACT TABLES

PLATE 52A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
3A	Perennial	Open Channel	652	95	RW, CE, NC
3A_1	Perennial	Open Channel	48	11	RW, NC
3A_C	Perennial	Culvert	1,746	232	EC
3CC	Intermittent	Ditch	2,011	333	RW
3D	Perennial	Open Channel	1,100	74	RW, CE
3D_1	Perennial	Open Channel	1,856	118	RW, RC, CE, NC
3D_C	Perennial	Culvert	2,833	204	EC
3DD	Perennial	Open Channel	484	46	CA, CE
3H	Intermittent	Open Channel	653	110	RW
3I	Intermittent	Open Channel	2,407	534	RW, NC
3UU	Intermittent	Open Channel	12	6	CA

PLATE 52A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
3AAA	PFO	528	1,282	RW, NC, RC, CE
3B	PFO	5,390	17,244	RW
3C	PEM	584	2,674	CE, NC
3EE	PFO	-	6,652	RW, CA
3FF	PFO	232	5,475	RW, NC
3G	PFO	3,848	11,069	RW, RC, CE, NC
3J	PEM	1,316	8,951	RW

MDE IMPACT TABLES

PLATE 53A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
2AA	Intermittent	Open Channel	29	19	RW
2H	Intermittent	Open Channel	95	50	RW, NC
2I	Intermittent	Ditch	1,351	260	RW, CA, RC
2I_C	Intermittent	Culvert	1,524	238	EC
2J	Perennial	Open Channel	619	86	RW, CE, NC
2J_1	Perennial	Open Channel	614	57	NC
2J_C	Perennial	Culvert	2,675	249	EC
2L	Intermittent	Open Channel	693	295	RW
2R	Perennial	Open Channel	394	58	NC
2T	Intermittent	Open Channel	2,768	923	RW
2V	Perennial	Open Channel	170	45	RW

PLATE 53A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
2B	PFO	8,519	21,247	RW, CA, HL
2BB	PFO	209	1,962	RW, RC
2CC	PEM	-	1,993	RW
2K	PEM	3,056	9375	RW, RC, NC
2M	PFO	878	7,773	RW, RC
2O	PFO	3,311	5,350	RW
2P	PEM	7,065	16,851	RW, CA, NC
2Q	PSS	770	9213	RW, NC
2RR	PSS	206	1964	CE, NC
2S	PFO	10,236	33,831	RW, RC, HL
2SS	PFO	650	6,286	CA
2TT	PEM	1,143	6463	CA
2U	PFO	3,359	9087	RW

MDE IMPACT TABLES

PLATE 54A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
2E	Intermittent	Open Channel	207	71	RW
2F	Intermittent	Open Channel	3,208	669	RW
2F_C	Intermittent	Culvert	411	82	EC
2F_D	Intermittent	Ditch	2,093	512	RW
2HH	Intermittent	Ditch	116	59	RW
2HH_C	Intermittent	Culvert	473	252	EC
2JJ	Intermittent	Open Channel	181	65	RW
2MM	Perennial	Open Channel	187	30	CE
2W	Intermittent	Ditch	687	462	RW
2W_C	Intermittent	Culvert	106	57	EC
2X	Perennial	Open Channel	47	16	RW
2X_1	Perennial	Open Channel	2,589	241	RW, CA, CE, SO
2X_C	Perennial	Culvert	1,280	277	EC

PLATE 54A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
2FF	PEM	6,268	20,008	RW
2G	PFO	1,507	21,862	RW
2GG	PEM	2,644	20,743	RW
2II	PFO	826	5,785	RW, NC
2LL	PFO	387	3,699	SO
2NN	PFO	1,879	7,178	RW, CA
2XX	PFO	677	3,468	SO

MDE IMPACT TABLES

PLATE 55A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
1A	Intermittent	Open Channel	23	4	CA
1A_C	Intermittent	Culvert	6,882	954	EC
1P	Intermittent	Open Channel	564	175	RW, NC, CE
1Q	Perennial	Open Channel	1,383	89	RW, CE
1Q_1	Perennial	Open Channel	4,718	344	RW, CA, NC, NB
1Q_C	Perennial	Culvert	4,036	356	EC
1R	Perennial	Ditch	3,302	511	RW, CA
1R_1	Perennial	Ditch	4,236	916	RW, CA, CE
1R_C	Perennial	Culvert	894	121	EC
2Y	Perennial	Open Channel	1,029	293	RW, CA, CE, NC
2Y_1	Perennial	Open Channel	4,817	482	RW, CA, NB, CE, NC
2Y_C	Perennial	Culvert	2,250	394	EC
2YY	Intermittent	Open Channel	277	75	CA
2Z	Intermittent	Open Channel	39	13	RW

PLATE 55A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
1BB	PEM	83	1,037	CA
1QQ	PFO	2,136	7,291	CA, RC
1T	PSS	2,319	15,859	RW, CA
2C	PFO	17,665	19,564	RW, NC, NB, CE, CA
2KK	PEM	-	786	RW

MDE IMPACT TABLES

PLATE 56A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
2UU	Intermittent	Open Channel	70	18	NC
2VV	Intermittent	Open Channel	216	42	CE

PLATE 56A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
2WW	PFO	4,490	11,284	RW, NC

PLATE 57A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
1AAA	Intermittent	Open Channel	42	9	RW
1RR	Intermittent	Open Channel	582	51	RW, RC
1TT	Intermittent	Open Channel	588	78	RW, CA
1VV	Perennial	Open Channel	2,338	44	RW, CA
1VV_1	Perennial	Open Channel	2,212	44	RW, CA
1VV_C	Perennial	Culvert	13,585	297	EC
1XX_1	Intermittent	Open Channel	460	123	RW
1YY	Intermittent	Open Channel	1,370	372	RW, CA

PLATE 57A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
1C	PFO	9,997	12,699	RW, CA
1DDD	PEM	12	2,103	CA
1UU	PFO	289	4,180	CA
1WW	PEM	1,022	2,740	CA
1ZZ	PFO	-	3,914	RW, CA

MDE IMPACT TABLES

PLATE 58A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
1D_1	Perennial	Open Channel	1,737	122	RW, CA, NC
1D_2	Perennial	Open Channel	1,847	102	RW, NC
1D_C1	Perennial	Culvert	2,691	253	EC
1H	Intermittent	Open Channel	254	27	RW, CA, NC
1H_C	Intermittent	Culvert	1,247	221	EC
1H_D	Intermittent	Ditch	3,323	638	RW, NC

PLATE 58A – WETLAND IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
1E	PFO	2,782	5,581	RW, NC, CA
1F	PFO	593	7,259	RW
1I	PFO	779	5,643	CA, HL
1J	PFO	-	1,378	RW, CA

MDE IMPACT TABLES

PLATE 59A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, AND 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23A	Perennial	Open Channel	732	44	CA
23A_1	Perennial	Open Channel	3,073	148	RW, CA
23A_2	Perennial	Open Channel	2,301	200	RW
23A_3	Perennial	Open Channel	15,132	1,130	RW, CA, CE, NC
23A_C	Perennial	Culvert	4,185	216	EC
23A_C1	Perennial	Culvert	5,620	407	EC
23A_C2	Perennial	Culvert	2,977	236	EC
23AA	Perennial	Open Channel	551	104	RW
23AA_1	Perennial	Open Channel	1,332	257	RW
23AA_C	Perennial	Culvert	453	101	EC
23AA_C1	Perennial	Culvert	675	220	EC
23D	Intermittent	Ditch	7,793	775	RW
23D_C	Intermittent	Culvert	2,456	255	EC

PLATE 59A – WETLAND IMPACTS (ALTERNATIVES 8, 9, AND 9 MODIFIED)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
23BB	PEM	1,406	10,326	RW
23L	PEM	253	3,661	RW
23W	PEM	2,248	5,091	RW, CA

MDE IMPACT TABLES

PLATE 59B – WATERWAY IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23A	Perennial	Open Channel	732	44	CA
23A_1	Perennial	Open Channel	3,073	148	RW, CA
23A_2	Perennial	Open Channel	2,301	200	RW
23A_3	Perennial	Open Channel	15,253	1,220	RW, CA, CE, NC
23A_C	Perennial	Culvert	4,185	216	EC
23A_C1	Perennial	Culvert	5,620	407	EC
23A_C2	Perennial	Culvert	2,977	236	EC
23AA	Perennial	Open Channel	551	104	RW
23AA_1	Perennial	Open Channel	1,332	257	RW
23AA_C	Perennial	Culvert	453	101	EC
23AA_C1	Perennial	Culvert	675	220	EC
23D	Intermittent	Ditch	7,793	775	RW
23D_C	Intermittent	Culvert	2,456	255	EC

PLATE 59B – WETLAND IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
23BB	PEM	1,406	10,326	RW
23L	PEM	253	3,661	RW
23W	PEM	3,549	5,309	RW, CA

MDE IMPACT TABLES

PLATE 59C – WATERWAY IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23A	Perennial	Open Channel	732	44	CA
23A_1	Perennial	Open Channel	3,073	148	RW, CA
23A_2	Perennial	Open Channel	2,301	200	RW
23A_3	Perennial	Open Channel	15,132	1,130	RW, CA, CE, NC
23A_C	Perennial	Culvert	4,185	216	EC
23A_C1	Perennial	Culvert	5,620	407	EC
23A_C2	Perennial	Culvert	2,977	236	EC
23AA	Perennial	Open Channel	551	104	RW
23AA_1	Perennial	Open Channel	1,332	257	RW
23AA_C	Perennial	Culvert	453	101	EC
23AA_C1	Perennial	Culvert	675	220	EC
23D	Intermittent	Ditch	7,793	775	RW
23D_C	Intermittent	Culvert	2,456	255	EC

PLATE 59C – WETLAND IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
23BB	PEM	1,406	10,326	RW
23L	PEM	253	3,661	RW
23W	PEM	2,248	5,091	RW, CA

MDE IMPACT TABLES

PLATE 59D – WATERWAY IMPACTS (ALTERNATIVE 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23A	Perennial	Open Channel	732	44	CA
23A_1	Perennial	Open Channel	3,073	148	RW, CA
23A_2	Perennial	Open Channel	2,301	200	RW
23A_3	Perennial	Open Channel	15,253	1,220	RW, CA, CE, NC
23A_C	Perennial	Culvert	4,185	216	EC
23A_C1	Perennial	Culvert	5,620	407	EC
23A_C2	Perennial	Culvert	2,977	236	EC
23AA	Perennial	Open Channel	551	104	RW
23AA_1	Perennial	Open Channel	1,332	257	RW
23AA_C	Perennial	Culvert	453	101	EC
23AA_C1	Perennial	Culvert	675	220	EC
23D	Intermittent	Ditch	7,793	775	RW
23D_C	Intermittent	Culvert	2,456	255	EC

PLATE 59D – WETLAND IMPACTS (ALTERNATIVE 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
23BB	PEM	1,406	10,326	RW
23L	PEM	253	3,661	RW
23W	PEM	3,549	5,309	RW, CA

MDE IMPACT TABLES

PLATE 60A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23G	Perennial	Open Channel	20,936	1,190	RW, CE
23G_1	Perennial	Open Channel	2,569	112	RW, CE, NC
23G_C	Perennial	Culvert	1,634	187	EC
23S	Intermittent	Open Channel	427	64	RW, RC

PLATE 60B – WATERWAY IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23G	Perennial	Open Channel	20,936	1,190	RW, CE
23G_1	Perennial	Open Channel	2,569	112	RW, CE, NC
23G_C	Perennial	Culvert	1,634	187	EC
23S	Intermittent	Open Channel	297	51	RW, RC

PLATE 60C – WATERWAY IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23G	Perennial	Open Channel	20,936	1190	RW, CE
23G_1	Perennial	Open Channel	2,569	112	RW, CE, NC
23G_C	Perennial	Culvert	1,634	187	EC
23S	Intermittent	Open Channel	518	74	RW, RC

PLATE 60D – WATERWAY IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23G	Perennial	Open Channel	20,936	1,190	RW, CE
23G_1	Perennial	Open Channel	2,569	112	RW, CE, NC
23G_C	Perennial	Culvert	1,634	187	EC
23S	Intermittent	Open Channel	427	64	RW, RC

MDE IMPACT TABLES

PLATE 61A – WATERWAY IMPACTS (ALTERNATIVES 8 AND 9)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23Q	Perennial	Open Channel	3,289	260	RW, CE, NC
23Q_1	Perennial	Open Channel	947	93	RW, SO, CE
23Q_2	Perennial	Open Channel	1,181	82	CE, NC
23Q_C	Perennial	Culvert	3,968	250	EC
23R	Perennial	Open Channel	802	94	RW

PLATE 61A – WETLAND IMPACTS (ALTERNATIVES 8 AND 9)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
23EE	PFO	-	1,754	CA

MDE IMPACT TABLES

PLATE 61B – WATERWAY IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23Q	Perennial	Open Channel	2,797	239	RW, CE, NC
23Q_1	Perennial	Open Channel	815	88	RW, SO, CE
23Q_2	Perennial	Open Channel	992	69	CE, NC
23Q_C	Perennial	Culvert	3,968	250	EC
23R	Perennial	Open Channel	619	69	CE, RW

PLATE 61B – WETLAND IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
23EE	PFO	-	1,754	CA

PLATE 61C – WATERWAY IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23Q	Perennial	Open Channel	6,398	436	CA, RW, CE, NC
23Q_1	Perennial	Open Channel	1,434	116	RW, SO, CE
23Q_2	Perennial	Open Channel	1,603	116	CE, NC
23Q_C	Perennial	Culvert	3,968	250	EC
23R	Perennial	Open Channel	1,133	132	CA, RW

PLATE 61C – WETLAND IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
23EE	PFO	-	1,754	CA

MDE IMPACT TABLES

PLATE 61D – WATERWAY IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23Q	Perennial	Open Channel	3,289	260	RW, CE, NC
23Q_1	Perennial	Open Channel	947	93	RW, SO, CE
23Q_2	Perennial	Open Channel	992	69	CE, NC
23Q_C	Perennial	Culvert	3,968	250	EC
23R	Perennial	Open Channel	802	94	RW

PLATE 61D – WETLAND IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
23EE	PFO	-	1,754	CA

PLATE 61E – WATERWAY IMPACTS (ALTERNATIVE 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23Q	Perennial	Open Channel	3,996	286	CA, RW, CE, NC
23Q_1	Perennial	Open Channel	947	93	RW, SO, CE
23Q_2	Perennial	Open Channel	1,181	82	CE, NC
23Q_C	Perennial	Culvert	3,968	250	EC
23R	Perennial	Open Channel	1,235	144	CA, RW

PLATE 61E – WETLAND IMPACTS (ALTERNATIVE 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
23EE	PFO	-	1,754	CA

MDE IMPACT TABLES

PLATE 62A – WATERWAY IMPACTS (ALTERNATIVES 8 AND 9)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23N	Intermittent	Open Channel	2,263	227	RW, NC, CA, SO
23N_C	Intermittent	Culvert	6,176	583	EC
23N_D	Intermittent	Ditch	273	33	CA
23U	Intermittent	Ditch	181	20	NC
23V	Intermittent	Ditch	117	51	RW, CE
23V_C	Intermittent	Culvert	2,245	777	EC

PLATE 62A – WETLAND IMPACTS (ALTERNATIVES 8 AND 9)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
23CC	PFO	2,127	4,388	RW, CA

PLATE 62B – WATERWAY IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23N	Intermittent	Open Channel	1,919	188	RW, NC, CA, SO
23N_C	Intermittent	Culvert	6,176	583	EC
23N_D	Intermittent	Ditch	273	33	CA
23U	Intermittent	Ditch	181	20	NC
23V	Intermittent	Ditch	117	51	RW, CE
23V_C	Intermittent	Culvert	2,245	777	EC

PLATE 62B – WETLAND IMPACTS (ALTERNATIVE 9 MODIFIED)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
23CC	PFO	2,127	4,388	RW, CA

MDE IMPACT TABLES

PLATE 62C – WATERWAY IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23E	Intermittent	Open Channel	171	8	CA
23N	Intermittent	Open Channel	3,082	301	RW, NC, CA, SO
23N_C	Intermittent	Culvert	6,176	583	EC
23N_D	Intermittent	Ditch	273	33	CA
23U	Intermittent	Ditch	181	20	NC
23V	Intermittent	Ditch	175	60	RW, CE
23V_C	Intermittent	Culvert	2,245	777	EC

PLATE 62C – WETLAND IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
23CC	PFO	2,985	7,661	RW, CA

PLATE 62D – WATERWAY IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23N	Intermittent	Open Channel	1,919	188	RW, NC, CA, SO
23N_C	Intermittent	Culvert	6,176	583	EC
23N_D	Intermittent	Ditch	273	33	CA
23U	Intermittent	Ditch	181	20	NC
23V	Intermittent	Ditch	80	39	RW, CE
23V_C	Intermittent	Culvert	2,245	777	EC

PLATE 62D – WETLAND IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
23CC	PFO	1,177	3,685	RW, CA

MDE IMPACT TABLES

PLATE 62E – WATERWAY IMPACTS (ALTERNATIVE 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23N	Intermittent	Open Channel	2,263	227	RW, NC, CA, SO
23N_C	Intermittent	Culvert	6,176	583	EC
23N_D	Intermittent	Ditch	273	33	CA
23U	Intermittent	Ditch	181	20	NC
23V	Intermittent	Ditch	117	51	RW, CE
23V_C	Intermittent	Culvert	2,245	777	EC

PLATE 62E – WETLAND IMPACTS (ALTERNATIVE 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
23CC	PFO	2,127	4,388	RW, CA

MDE IMPACT TABLES

PLATE 63A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, AND 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23DD	Intermittent	Open Channel	641	98	RW
23K	Perennial	Open Channel	481	71	RW
23K_1	Perennial	Open Channel	79	18	CA
23K_C	Perennial	Culvert	1,711	178	EC
23K_C1	Perennial	Culvert	441	53	EC
23K_D	Perennial	Ditch	4,585	608	RW
24A	Perennial	Open Channel	698	41	RW, NC
24A_1	Perennial	Open Channel	2,088	85	NC
24A_C	Perennial	Culvert	6,427	320	EC

PLATE 63A – WETLAND IMPACTS (ALTERNATIVES 8, 9, AND 9 MODIFIED)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
23F	PEM	-	1,401	RW
23GG	PFO	1,211	7,204	CA
23HH	PFO	-	773	RW
23X	PEM	1,039	8,736	RW

MDE IMPACT TABLES

PLATE 63B – WATERWAY IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23DD	Intermittent	Open Channel	641	98	RW
23K	Perennial	Open Channel	1,297	171	CA, RC, RW
23K_1	Perennial	Open Channel	1,445	246	CA, RW
23K_C	Perennial	Culvert	1,711	178	EC
23K_C1	Perennial	Culvert	627	83	EC
23K_D	Perennial	Ditch	5,085	699	RW
24A	Perennial	Open Channel	698	41	RW, NC
24A_1	Perennial	Open Channel	2,088	85	NC
24A_C	Perennial	Culvert	6,427	320	EC

PLATE 63B – WETLAND IMPACTS (ALTERNATIVES 10)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
23F	PEM	2,674	8,616	CA, RW
23GG	PFO	1,211	7,204	CA
23HH	PFO	-	1,605	CA, RW
23X	PEM	1,039	8,736	RW

MDE IMPACT TABLES

PLATE 63C – WATERWAY IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23DD	Intermittent	Open Channel	641	98	RW
23K	Perennial	Open Channel	481	71	RW
23K_1	Perennial	Open Channel	7	3	CA
23K_C	Perennial	Culvert	1,711	178	EC
23K_C1	Perennial	Culvert	379	53	EC
23K_D	Perennial	Ditch	4,585	608	RW
24A	Perennial	Open Channel	698	41	RW, NC
24A_1	Perennial	Open Channel	2,088	85	NC
24A_C	Perennial	Culvert	6,427	320	EC

PLATE 63C – WETLAND IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
23F	PEM	-	1,394	RW
23GG	PFO	1,211	7,204	CA
23HH	PFO	-	773	RW
23X	PEM	1,039	8,736	RW

MDE IMPACT TABLES

PLATE 63D – WATERWAY IMPACTS (ALTERNATIVE 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
23DD	Intermittent	Open Channel	641	98	RW
23K	Perennial	Open Channel	1,297	171	CA, RC, RW
23K_1	Perennial	Open Channel	1,445	246	CA, RW
23K_C	Perennial	Culvert	1,711	178	EC
23K_C1	Perennial	Culvert	627	83	EC
23K_D	Perennial	Ditch	4,585	608	RW
24A	Perennial	Open Channel	698	41	RW, NC
24A_1	Perennial	Open Channel	2,088	85	NC
24A_C	Perennial	Culvert	6,427	320	EC

PLATE 63D – WETLAND IMPACTS (ALTERNATIVE 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
23F	PEM	2,674	8,616	CA, RW
23GG	PFO	1,211	7,204	CA
23HH	PFO	-	1,605	CA, RW
23X	PEM	1,039	8,736	RW

MDE IMPACT TABLES

PLATE 64A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, AND 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
24D	Perennial	Open Channel	396	46	NC, SO

PLATE 64A – WETLAND IMPACTS (ALTERNATIVES 8, 9, AND 9 MODIFIED)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
24N	PFO	70	15,582	SO
24Q	PFO	-	1,630	RW, NC

PLATE 64B – WATERWAY IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
24D	Perennial	Open Channel	396	46	NC, SO

PLATE 64B – WETLAND IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
24N	PFO	70	15,582	SO
24Q	PFO	-	1,900	RW, NC

PLATE 64C – WATERWAY IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
24D	Perennial	Open Channel	396	46	NC, SO

PLATE 64C – WETLAND IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
24N	PFO	70	15,582	SO
24Q	PFO	-	1,614	RW, NC

MDE IMPACT TABLES

PLATE 64D – WATERWAY IMPACTS (ALTERNATIVE 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
24D	Perennial	Open Channel	396	46	NC, SO

PLATE 64D – WETLAND IMPACTS (ALTERNATIVE 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
24N	PFO	70	15,582	SO
24Q	PFO	-	1,614	RW, NC

PLATE 65A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, AND 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
24F_2	Perennial	Open Channel	1,662	56	NC
24F_3	Perennial	Open Channel	1,090	60	NC
24F_C1	Perennial	Culvert	3,804	197	EC
24F_C2	Perennial	Culvert	7,102	390	EC
25A_1	Perennial	Ditch	168	70	CA

PLATE 65A – WETLAND IMPACTS (ALTERNATIVES 8, 9, AND 9 MODIFIED)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
24R	PFO	27	2,581	CA

MDE IMPACT TABLES

PLATE 65B – WATERWAY IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
24F_2	Perennial	Open Channel	1,662	56	NC
24F_3	Perennial	Open Channel	1,090	60	NC
24F_C1	Perennial	Culvert	3,804	197	EC
24F_C2	Perennial	Culvert	7,102	390	EC
25A_1	Perennial	Ditch	168	70	CA

PLATE 65B – WETLAND IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
24R	PFO	27	2,581	CA

PLATE 65C – WATERWAY IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
24F_2	Perennial	Open Channel	1,662	56	NC
24F_3	Perennial	Open Channel	1,090	60	NC
24F_C1	Perennial	Culvert	3,804	197	EC
24F_C2	Perennial	Culvert	7,102	390	EC
25A_1	Perennial	Ditch	168	70	CA

PLATE 65C – WETLAND IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
24R	PFO	27	2,582	CA

MDE IMPACT TABLES

PLATE 65D – WATERWAY IMPACTS (ALTERNATIVE 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
24F_2	Perennial	Open Channel	1,662	56	NC
24F_3	Perennial	Open Channel	1,090	60	NC
24F_C1	Perennial	Culvert	3,804	197	EC
24F_C2	Perennial	Culvert	7,102	390	EC
25A_1	Perennial	Ditch	168	70	CA

PLATE 65D – WETLAND IMPACTS (ALTERNATIVES 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
24R	PFO	27	2,581	CA

PLATE 66A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, AND 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
25G	Intermittent	Open Channel	1,808	154	CA
25L	Intermittent	Open Channel	347	66	SO

PLATE 66B – WATERWAY IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
25G	Intermittent	Open Channel	1,808	154	CA
25L	Intermittent	Open Channel	347	66	SO

PLATE 66C – WATERWAY IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
25G	Intermittent	Open Channel	1,808	154	CA
25L	Intermittent	Open Channel	347	66	SO

MDE IMPACT TABLES

PLATE 66D – WATERWAY IMPACTS (ALTERNATIVE 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
25G	Intermittent	Open Channel	1,808	154	CA
25L	Intermittent	Open Channel	347	66	SO

PLATE 67A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, AND 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
25E	Perennial	Open Channel	101	17	NC
25H	Perennial	Open Channel	159	22	NC
25H_C	Perennial	Culvert	2,680	420	EC

PLATE 67A – WETLAND IMPACTS (ALTERNATIVES 8, 9, AND 9 MODIFIED)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
25D	PFO	-	832	RW, NC
25K	PEM	1,325	18,626	RW, SO, NC

MDE IMPACT TABLES

PLATE 67B – WATERWAY IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
25E	Perennial	Open Channel	484	53	NC, RW
25H	Perennial	Open Channel	159	22	NC
25H_C	Perennial	Culvert	2,682	420	EC
25H_1	Perennial	Open Channel	82	20	NC

PLATE 67B – WETLAND IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
25D	PFO	-	1,891	CA, RW, NC
25K	PEM	3,215	25,398	RW, SO, NC

PLATE 67C – WATERWAY IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
25E	Perennial	Open Channel	58	14	NC
25H	Perennial	Open Channel	159	22	NC
25H_C	Perennial	Culvert	2,669	418	EC

PLATE 67C – WETLAND IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
25D	PFO	-	693	NC
25K	PEM	1,164	17,115	RW, SO, NC

MDE IMPACT TABLES

PLATE 67D – WATERWAY IMPACTS (ALTERNATIVE 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
25E	Perennial	Open Channel	321	40	NC, RW
25H	Perennial	Open Channel	159	22	NC
25H_C	Perennial	Culvert	2,682	420	EC
25H_1	Perennial	Open Channel	58	16	NC

PLATE 67D – WETLAND IMPACTS (ALTERNATIVES 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
25D	PFO	-	832	RW, NC
25K	PEM	2,583	24,458	RW, SO, NC

MDE IMPACT TABLES

PLATE 68A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, AND 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
26B	Intermittent	Open Channel	539	38	RW, NC
26B_1	Intermittent	Open Channel	315	22	NC
26B_C	Intermittent	Culvert	6,809	306	EC
26B_C1	Intermittent	Culvert	489	47	EC
26C	Intermittent	Open Channel	743	100	NC
26C_1	Intermittent	Open Channel	388	30	RW, NC
26C_C	Intermittent	Culvert	4,317	360	EC
26C_C1	Intermittent	Culvert	376	22	EC
26G_1	Intermittent	Open Channel	2,883	421	RW, CA
26J	Intermittent	Open Channel	191	31	NC

PLATE 68A – WETLAND IMPACTS (ALTERNATIVES 8, 9, AND 9 MODIFIED)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
26A	PEM	1,912	2,719	NC
26D	PEM	817	4,096	NC
26E	PEM	1,407	7,136	HL, NC
26H	PEM	9	1,359	CA

MDE IMPACT TABLES

PLATE 68B – WATERWAY IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
26B	Intermittent	Open Channel	539	38	RW, NC
26B_1	Intermittent	Open Channel	315	22	NC
26B_C	Intermittent	Culvert	6,809	306	EC
26B_C1	Intermittent	Culvert	489	47	EC
26C	Intermittent	Open Channel	743	100	NC
26C_1	Intermittent	Open Channel	388	30	RW, NC
26C_C	Intermittent	Culvert	4,317	360	EC
26C_C1	Intermittent	Culvert	376	22	EC
26G_1	Intermittent	Open Channel	3,196	450	RW, CA
26J	Intermittent	Open Channel	191	31	NC

PLATE 68B – WETLAND IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
26A	PEM	1,912	2,754	CA, NC
26D	PEM	817	4,096	NC
26E	PEM	1,407	7,136	HL, NC
26H	PEM	9	1,359	CA

MDE IMPACT TABLES

PLATE 68C – WATERWAY IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
26B	Intermittent	Open Channel	489	38	NC
26B_1	Intermittent	Open Channel	315	22	NC
26B_C	Intermittent	Culvert	6,809	306	EC
26B_C1	Intermittent	Culvert	489	47	EC
26C	Intermittent	Open Channel	743	100	NC
26C_1	Intermittent	Open Channel	388	30	RW, NC
26C_C	Intermittent	Culvert	4,317	360	EC
26C_C1	Intermittent	Culvert	376	22	EC
26G_1	Intermittent	Open Channel	2,735	409	RW, CA
26J	Intermittent	Open Channel	191	31	NC

PLATE 68C – WETLAND IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
26A	PEM	1,912	2,359	NC
26D	PEM	817	4,096	NC
26E	PEM	1,407	7,136	NC, HL
26H	PEM	9	1,359	CA

MDE IMPACT TABLES

PLATE 68D – WATERWAY IMPACTS (ALTERNATIVE 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
26B	Intermittent	Open Channel	539	38	RW, NC
26B_1	Intermittent	Open Channel	315	22	NC
26B_C	Intermittent	Culvert	6,809	306	EC
26B_C1	Intermittent	Culvert	489	47	EC
26C	Intermittent	Open Channel	743	100	NC
26C_1	Intermittent	Open Channel	388	30	RW, NC
26C_C	Intermittent	Culvert	4,317	360	EC
26C_C1	Intermittent	Culvert	376	22	EC
26G_1	Intermittent	Open Channel	2,910	423	RW, CA
26J	Intermittent	Open Channel	191	31	NC

PLATE 68D – WETLAND IMPACTS (ALTERNATIVE 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
26A	PEM	1,912	2,748	CA, NC
26D	PEM	817	4,096	NC
26E	PEM	1,407	7,136	HL, NC
26H	PEM	9	1,359	CA

MDE IMPACT TABLES

PLATE 69A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, AND 9 MODIFIED)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
27A	Perennial	Open Channel	1,699	42	RW, NC
27A_1	Perennial	Open Channel	2,308	110	RW, NC
27A_2	Perennial	Open Channel	2,914	89	NC
27A_C	Perennial	Culvert	10,081	325	EC
27A_C1	Perennial	Culvert	4,089	152	EC
27B	Intermittent	Open Channel	116	16	NC
27D	Intermittent	Open Channel	96	15	RW

PLATE 69A – WETLAND IMPACTS (ALTERNATIVES 8, 9, AND 9 MODIFIED 10)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
27F	PFO	277	2,736	RW
27G	PSS	2	1,472	CA

MDE IMPACT TABLES

PLATE 69B – WATERWAY IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
27A	Perennial	Open Channel	2,245	61	RW, NC
27A_1	Perennial	Open Channel	2,359	112	RW, NC
27A_2	Perennial	Open Channel	2,914	89	NC
27A_C	Perennial	Culvert	10,081	325	EC
27A_C1	Perennial	Culvert	4,089	152	EC
27B	Intermittent	Open Channel	232	25	NC
27D	Intermittent	Open Channel	873	99	CA, RW

PLATE 69B – WETLAND IMPACTS (ALTERNATIVE 10)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
27F	PFO	1,288	3,880	RC, RW
27G	PSS	2	1,472	CA

MDE IMPACT TABLES

PLATE 69C – WATERWAY IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
27A	Perennial	Open Channel	1,699	42	RW, NC
27A_1	Perennial	Open Channel	2,308	110	RW, NC
27A_2	Perennial	Open Channel	2,914	89	NC
27A_C	Perennial	Culvert	10,081	325	EC
27A_C1	Perennial	Culvert	4,089	152	EC
27B	Intermittent	Open Channel	116	16	NC
27D	Intermittent	Open Channel	69	11	RW

PLATE 69C – WETLAND IMPACTS (ALTERNATIVE 13B)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
27F	PFO	200	2,588	RW
27G	PSS	2	1,472	CA

MDE IMPACT TABLES

PLATE 69D – WATERWAY IMPACTS (ALTERNATIVE 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
27A	Perennial	Open Channel	2,151	59	RW, NC
27A_1	Perennial	Open Channel	2,359	112	RW, NC
27A_2	Perennial	Open Channel	2,914	89	NC
27A_C	Perennial	Culvert	10,081	325	EC
27A_C1	Perennial	Culvert	4,089	152	EC
27B	Intermittent	Open Channel	214	23	NC
27D	Intermittent	Open Channel	847	97	CA, RW

PLATE 69D – WETLAND IMPACTS (ALTERNATIVE 13C)

IMPACT ID	CLASSIFICATION	IMPACT (SF)	BUFFER IMPACT (SF)	IMPACT TYPE
27F	PFO	1,128	3,776	RC, RW
27G	PSS	2	1,472	CA

PLATE 70A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, AND 9 MODIFIED)

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

PLATE 70A – WETLAND IMPACTS (ALTERNATIVES 8, 9, AND 9 MODIFIED)

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

MDE IMPACT TABLES

PLATE 70B – WATERWAY IMPACTS (ALTERNATIVE 10)

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

PLATE 70B – WETLAND IMPACTS (ALTERNATIVE 10)

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

PLATE 70C – WATERWAY IMPACTS (ALTERNATIVE 13B)

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

PLATE 70C – WETLAND IMPACTS (ALTERNATIVE 13B)

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

PLATE 70D – WATERWAY IMPACTS (ALTERNATIVE 13C)

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

PLATE 70D – WETLAND IMPACTS (ALTERNATIVE 13C)

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

MDE IMPACT TABLES

PLATE 71A – WATERWAY IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, AND 13B)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
28B	Intermittent	Ditch	624	91	NC
29A_1	Perennial	Open Channel	198	19	NC
29A_2	Perennial	Open Channel	1,456	51	NC
29A_C2	Perennial	Culvert	10,415	464	EC
29B	Perennial	Open Channel	1,135	40	NC
29B_1	Perennial	Open Channel	1,716	70	NC
29B_C	Perennial	Culvert	8,118	443	EC
29D_D	Intermittent	Ditch	1,360	119	CA
29K	Intermittent	Open Channel	99	19	NC

PLATE 71B – WATERWAY IMPACTS (ALTERNATIVES 10 AND 13C)

IMPACT ID	CLASSIFICATION	CHANNEL TYPE	IMPACT (SF)	IMPACT (LF)	IMPACT TYPE
28B	Intermittent	Ditch	624	91	NC
29A_1	Perennial	Open Channel	198	19	NC
29A_2	Perennial	Open Channel	1,456	51	NC
29A_C2	Perennial	Culvert	10,415	464	EC
29B	Perennial	Open Channel	1,135	40	NC
29B_1	Perennial	Open Channel	1,716	70	NC
29B_C	Perennial	Culvert	8,118	443	EC
29D_D	Intermittent	Ditch	1,360	119	CA
29K	Intermittent	Open Channel	99	19	NC

MDE IMPACT TABLES

PROJECT-WIDE POW IMPACTS (ALTERNATIVES 8, 9, 9 MODIFIED, 10, 13B, AND 13C)

IMPACT ID	IMPACT PLATE NUMBER	IMPACT (SF)	IMPACT TYPE CODE
12DD	22	12,396	RW, CA
12FFFF	23	3,185	RW, CA
6DDD	41	29,847	RW, CA
8D	36	18,706	RW, CA