

**Misillion River Watershed Wetland Health Data**

**APPENDIX D - I**

## APPENDIX D: MidTRAM Raw Data and Metric Scores from Estuarine Sites in the Mispillion River Watershed

Blue columns indicate raw variable values; orange columns indicate corresponding metric scores

### Buffer Metrics:

Site Number *	Q D R	Mid TRAM Score	B1: % of AA with 5m-buffer	B2: Average Buffer Width	B3: Percent Development	B5: % of Landward Edge Obstructed	B1 Score	B2 Score	B3 Score	B4 Score	B5 Score
MI121	1	83.9	100	205	0	0	12	12	12	12	12
MI103	2	81.7	100	213	0	0	12	12	12	6	12
MI130	3	81.7	100	219	0	0	12	12	12	9	12
MI146	2	81.7	100	243	0	0	12	12	12	9	12
MI108	1	81.1	100	246	0	0	12	12	12	9	12
MI128	1	81.1	100	250	0	0	12	12	12	9	12
MI104	2	80.6	100	250	0	0	12	12	12	9	12
MI106	3	79.4	100	216	0	0	12	12	12	6	12
MI122	2	79.4	100	221	0	0	12	12	12	9	12
MI113	3	78.9	100	250	0	0	12	12	12	6	12
MI124	3	78.9	100	250	0	0	12	12	12	9	12
MI114	2	78.3	100	236	0	0	12	12	12	9	12
MI102	2	77.2	100	169	0	0	12	9	12	6	12
MI127	3	76.7	100	228	0.5	0	12	12	9	6	12
MI111	3	76.1	100	205	0	0	12	12	12	9	12
MI126	3	76.1	100	250	0	0	12	12	12	6	12
MI136	3	75.9	100	250	0	0	12	12	12	6	12
MI131	4	75.6	100	250	0	0	12	12	12	9	12
MI142	5	75	100	236	0	0	12	12	12	9	12
MI117	3	73.9	100	250	0	0	12	12	12	6	12
MI105	4	73.3	100	250	0	0	12	12	12	6	12
MI115	5	73.3	100	218	0	0	12	12	12	6	12
MI120	4	73.3	100	250	0	0	12	12	12	6	12
MI144	4	73.3	100	229	0	0	12	12	12	6	12
MI118	4	72.2	100	250	0	0	12	12	12	6	12
MI133	4	72.2	100	215	0	0	12	12	12	6	12
MI129	3	70.6	100	150	0	0	12	9	12	9	12
MI119	4	68.9	100	167	0	0	12	9	12	9	12
MI123	3	68.9	100	173	0	0	12	9	12	6	12
MI101	4	68.3	100	191	0	0	12	12	12	6	12
MI112	6	67.8	100	250	0	0	12	12	12	3	12
MI107	3	65	100	190	15	100	12	12	6	3	3
MI110	5	59.4	100	198	0.5	70	12	12	9	3	3
MI145	5	47.8	100	49	10	35	12	3	6	3	3

\* Sites are color coded and sorted by condition categories (green are minimally stressed, yellow are moderately stressed, red are severely stressed)

APPENDIX D continued

Orange columns indicate corresponding metric scores

*Hydrology Metrics:*

Site Number*	QDR	Mid TRAM Score	H1 Score	H2 Score	H3 Score	H4 Score
MI121	1	83.9	12	12	9	12
MI103	2	81.7	12	12	9	12
MI130	3	81.7	12	12	9	12
MI146	2	81.7	12	12	9	12
MI108	1	81.1	9	12	9	12
MI128	1	81.1	9	12	9	12
MI104	2	80.6	6	12	9	12
MI106	3	79.4	12	12	9	12
MI122	2	79.4	12	12	9	12
MI113	3	78.9	9	12	9	12
MI124	3	78.9	9	12	9	12
MI114	2	78.3	6	12	9	12
MI102	2	77.2	12	12	9	12
MI127	3	76.7	9	12	9	12
MI111	3	76.1	9	9	9	12
MI126	3	76.1	6	12	9	12
MI136	3	75.9	6	12	9	12
MI131	4	75.6	3	12	9	12
MI142	5	75	3	9	9	12
MI117	3	73.9	9	9	9	12
MI105	4	73.3	6	9	9	12
MI115	5	73.3	3	12	9	12
MI120	4	73.3	3	12	9	12
MI144	4	73.3	3	12	9	12
MI118	4	72.2	9	12	9	12
MI133	4	72.2	9	12	9	12
MI129	3	70.6	12	12	9	12
MI119	4	68.9	3	12	9	12
MI123	3	68.9	6	9	9	12
MI101	4	68.3	12	12	9	12
MI112	6	67.8	9	12	9	12
MI107	3	65	9	9	9	12
MI110	5	59.4	12	12	9	12
MI145	5	47.8	12	9	9	12

\* Site numbers are coded by condition categories (green are minimally stressed, yellow are moderately stressed, red are severely stressed)

APPENDIX D continued

Blue columns indicate raw variable values; orange columns indicate corresponding metric scores

*Habitat Metrics:*

Site #	Q D R	Mid TRAM Score	HAB1: Bearing Capacity	HAB2: Veg Obstruction	HAB3: # of Plant Layers	HAB4: % Co-dom Invasive spp.	HAB5: % Invasive Cover	HAB1 Score	HAB2 Score	HAB3 Score	HAB4 Score	HAB5 Score
MI121	1	83.9	4.3125	17	1	0	0	6	6	6	12	12
MI103	2	81.7	3.5000	13	2	0	<1%	9	6	9	12	9
MI130	3	81.7	4.3750	23	2	0	0	6	3	9	12	12
MI146	2	81.7	6.3125	10	2	0	<1%	3	9	9	12	9
MI108	1	81.1	4.3125	18	2	0	0	6	6	9	12	12
MI128	1	81.1	3.7188	15	1	0	0	9	6	6	12	12
MI104	2	80.6	2.8750	21	3	0	0	9	6	9	12	12
MI106	3	79.4	3.9375	5	2	17	15	3	12	9	9	9
MI122	2	79.4	6.9063	7	1	0	<1%	3	9	6	12	9
MI113	3	78.9	3.8438	13	2	0	<1%	9	6	9	12	9
MI124	3	78.9	4.9063	23	2	0	0	6	3	9	12	12
MI114	2	78.3	3.6250	23	2	0	0	9	3	9	12	12
MI102	2	77.2	5.9375	14	2	0	2%	6	6	9	12	9
MI127	3	76.7	1.3438	28	1	0	0	12	3	6	12	12
MI111	3	76.1	2.3750	30	1	0	0	9	3	6	12	12
MI126	3	76.1	4.4688	13	2	0	0	6	6	9	12	12
MI136	3	75.9	4.3750	14	1	0	0	6	6	6	12	12
MI131	4	75.6	2.8750	21	3	0	<1%	9	6	9	12	9
MI142	5	75	4.1563	11	2	0	0	6	9	9	12	12
MI117	3	73.9	3.8750	20	1	0	<1%	9	6	6	12	9
MI105	4	73.3	3.6875	18	2	0	<1%	9	6	9	12	9
MI115	5	73.3	2.7813	25	2	0	0	9	3	9	12	12
MI120	4	73.3	2.8125	20	3	0	<1%	9	6	9	12	9
MI144	4	73.3	3.6875	20	1	0	0	9	6	6	12	12
MI118	4	72.2	2.4688	4	3	67	85	9	12	9	3	3
MI133	4	72.2	2.6875	22	2	33	7	9	3	9	6	9
MI129	3	70.6	3.2500	5	3	60	75	3	12	9	3	3
MI119	4	68.9	4.4375	10	1	0	1	3	9	6	12	9
MI123	3	68.9	2.3750	24	3	0	<1%	9	3	9	12	9
MI101	4	68.3	4.3750	16	2	50	>50	6	6	9	3	3
MI112	6	67.8	6.9375	30	0	0	0	3	3	3	12	12
MI107	3	65	2.5625	20	2	0	0	9	6	9	12	12
MI110	5	59.4	3.6563	8	3	60	50	3	9	9	3	6
MI145	5	47.8	3.2188	12	2	50	95	9	6	9	3	3

\* Site numbers are coded by condition categories (green are minimally stressed, yellow are moderately stressed, red are severely stressed)

## APPENDIX E: DERAP Wetland Assessment Stressor Checklist for Flat Wetlands in the Mispillion River Watershed

Stressor descriptions are listed in Appendix B. ‘1’ indicates stressor presence; ‘0’ indicates stressor absence.

### Habitat and Plant Community Stressors

Site Number*	QDR	DERAP Score	Hfor50	Hfor30	Hfor15	Hfor2	Hec10	Hec50	Hec100	Hforsc	Hpine	Hchem	Hmow	Hfarm	Hgraz	Horecov	Hinv1	Hinv5	Hinv50	Hinv100	Hherb	Halgae	Hnis50	Hnis100	Hrail	Hroad	Hpave
DEMP507	1	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMP531	2	95	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMP535	2	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMP548	1	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMP555	1	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMP569	2	95	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMP597	1	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMP611	1	95	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMP514	1	92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMP589	2	92	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMP566	3	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMP640	3	90	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0



Site Number*	QDR	DERAP Score	Hfor50	Hfor30	Hfor15	Hfor2	Hcc10	Hcc50	Hcc100	Hforsc	Hpine	Hchem	Hmow	Hfarm	Hgraz	Hnorecv	Hinv1	Hinv5	Hinv50	Hinv100	Hherb	Halgae	Hnis50	Hnis100	Htrail	Hroad	Hpave
DEMP624	3	74	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
DEMP512	5	73	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
DEMP523	4	73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
DEMP568	2	73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
DEMP585	3	73	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
DEMP593	4	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
DEMP559	4	68	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
DEMP513	3	67	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	
DEMP533	5	67	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
DEMP580	6	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
DEMP539	5	64	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
DEMP557	3	63	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
DEMP529	3	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
DEMP636	5	53	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	
DEMP550	5	47	0	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	
DEMP558	5	43	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	1	0	0	1	0	
DEMP581	5	41	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	

\* Site numbers are coded by condition categories (green are minimally stressed, yellow are moderately stressed, red are severely stressed)



## APPENDIX E continued

Stressor descriptions are listed in Appendix B. '1' indicates stressor presence; '0' indicates stressor absence.

### *Hydrology Stressors*

Site Number*	QDR	DERAP Score	Wditchs	Wditchn	Wditchx	Wchannn	Wchan1	Wchan2	Wincision	Wdamdec	Wimp10	Wimp75	Wimp100	Wstorm	Wpoint	Wsed	Wfill10	Wfill75	Wfill100	Wmic10	Wmic75	Wmic100	Wsubsid
DEMP507	1	95	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMP531	2	95	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMP535	2	95	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMP548	1	95	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMP555	1	95	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMP569	2	95	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMP597	1	95	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMP611	1	95	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMP514	1	92	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMP589	2	92	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMP566	3	90	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	1	0	0	0	0	0
DEMP640	3	90	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMP576	2	87	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMP534	2	86	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMP639	4	86	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMP573	3	84	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMP543	2	83	1	0	0	-	-	-	-	0	0	0	0	0	0	0	1	0	0	0	0	0	0
DEMP547	3	83	0	1	0	-	-	-	-	0	0	0	0	0	0	0	1	0	0	0	0	0	0

Site Number*	QDR	DERAP Score	W/ditch	W/ditch	W/ditchx	Wchann	Wchan 1	Wchan 2	Wincision	Wdamdec	Wimp10	Wimp75	Wimp100	Wstorm	Wpoint	Wsed	Wfill10	Wfill75	Wfill100	Wmic10	Wmic75	Wmic100	Wsubsid
DEMP510	3	82	1	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMP541	3	81	1	0	0	-	-	-	-	0	0	0	0	0	0	0	1	0	0	0	0	0	0
DEMP577	5	81	0	1	0	-	-	-	-	0	0	0	0	0	0	0	1	0	0	0	0	0	0
DEMP519	2	80	1	0	0	-	-	-	-	0	0	0	0	0	0	0	1	0	0	0	0	0	0
DEMP565	3	80	1	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMP562	3	78	1	0	0	-	-	-	-	0	0	0	0	0	0	0	1	0	0	0	0	0	0
DEMP536	3	77	0	1	0	-	-	-	-	0	0	0	0	0	0	0	1	0	0	0	0	0	0
DEMP591	3	77	1	0	0	-	-	-	-	0	0	0	0	0	0	0	1	0	0	0	0	0	0
DEMP623	4	77	1	0	0	-	-	-	-	0	0	0	0	0	0	0	1	0	0	0	0	0	0
DEMP520	3	74	0	1	0	-	-	-	-	0	0	0	0	0	0	0	1	0	0	0	0	0	0
DEMP624	3	74	1	0	0	-	-	-	-	0	0	0	0	0	0	0	1	0	0	0	0	0	0
DEMP512	5	73	1	0	0	-	-	-	-	0	0	0	0	0	0	0	0	1	0	1	0	0	0
DEMP523	4	73	1	0	0	-	-	-	-	1	0	0	0	0	0	0	1	0	0	0	0	0	0
DEMP568	2	73	1	0	0	-	-	-	-	0	1	0	0	0	0	0	1	0	0	0	0	0	0
DEMP585	3	73	0	1	0	-	-	-	-	0	0	0	0	0	0	0	1	0	0	1	0	0	0
DEMP593	4	70	0	0	1	-	-	-	-	0	0	0	0	0	0	0	1	0	0	0	0	0	0
DEMP559	4	68	0	1	0	-	-	-	-	0	0	0	0	0	0	0	0	1	0	1	0	0	0
DEMP513	3	67	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	1	0	0
DEMP533	5	67	0	0	1	-	-	-	-	0	0	0	0	0	0	0	0	1	0	0	0	0	0
DEMP580	6	66	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	1	0	0	1	0	0
DEMP539	5	64	0	1	0	-	-	-	-	0	0	0	0	0	0	0	0	1	0	0	1	0	0
DEMP557	3	63	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	1	0	0

Site Number*	QDR	DERAP Score	Wditchs	Wditchm	Wditchx	Wchannm	Wchan1	Wchan2	Wincision	Wdamdec	Wimp10	Wimp75	Wimp100	Wstorm	Wpoint	Wsed	Wfill10	Wfill75	Wfill100	Wmic10	Wmic75	Wmic100	Wsubsid
DEMP529	3	61	0	0	1	-	-	-	-	0	0	0	0	0	0	0	0	1	0	1	0	0	0
DEMP636	5	53	0	1	0	-	-	-	-	0	1	0	0	0	0	0	1	0	0	1	0	0	0
DEMP550	5	47	1	0	0	-	-	-	-	0	0	0	0	0	0	0	1	0	0	0	0	0	0
DEMP558	5	43	1	0	0	-	-	-	-	0	1	0	0	0	0	0	0	1	0	0	0	0	0
DEMP581	5	41	0	0	0	-	-	-	-	0	0	0	1	0	0	0	0	0	1	0	0	0	0

\* Site numbers are coded by condition categories (green are minimally stressed, yellow are moderately stressed, red are severely stressed)





Site Number*	QDR	DERAP Score	Ldevcom	Ldevres3	Ldevres2	Ldevred1	Lrdgrav	Lrd2pav	Lrd4pav	Lindfil	Lchan	Lag	Lagpoul	Lfor	Lgolf	Lmow	Lmine
DEMP550	5	47	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
DEMP558	5	43	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
DEMP581	5	41	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0

\* Site numbers are coded by condition categories (green are minimally stressed, yellow are moderately stressed, red are severely stressed)

## APPENDIX F: DERAP Wetland Assessment Stressor Checklist for Non-tidal Riverine Wetlands in the Mispillion River Watershed

Stressor descriptions are listed in Appendix B. '1' indicates stressor presence; '0' indicates stressor absence.

### *Habitat and Plant Community Stressors*

Site Number*	QDR	DERAP Score	Hfor31	Hfor16	Hfor3	Hfor2	Hec10	Hec50	Hec100	Hforse	Hpine	Hchen	Hnow	Hfarm	Hgraz	Hnovecov	Hinv1	Hinv5	Hinv50	Hinv100	Herb	Algae	Hnis50	Hnis100	Hrail	Hroad	Hpave
DEMP504	2	90	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
DEMP600	1	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
DEMP518	1	89	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
DEMP526	1	86	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
DEMP528	1	86	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
DEMP574	2	84	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
DEMP522	1	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
DEMP538	5	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
DEMP554	4	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
DEMP571	2	83	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
DEMP582	3	78	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	
DEMP632	3	73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
DEMP556	3	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
DEMP583	2	71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
DEMP677	3	70	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
DEMP567	3	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
DEMP612	3	67	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
DEMP616	4	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
DEMP553	3	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	

Site Number*	QDR	DERAP Score	Hfor31	Hfor16	Hfor3	Hfor2	Hec10	Hec50	Hec100	Hforse	Hpine	Hehem	Hmow	Hfam	Hgraz	Hnorecov	Hinv1	Hinv5	Hinv50	Hinv100	Hherb	Algae	Hnis50	Hnis100	Htrail	Hroad	Hpave
DEMP588	5	66	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
DEMP630	5	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
DEMP594	5	64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
DEMP508	5	62	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
DEMP524	3	62	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
DEMP575	2	58	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMP579	5	42	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
DEMP560	5	40	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
DEMP723	5	39	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
DEMP511	4	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
DEMP517	3	36	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
DEMP599	5	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
DEMP710	6	23	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
DEMP509	5	21	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0

\* Site numbers are coded by condition categories (green are minimally stressed, yellow are moderately stressed, red are severely stressed)





Site Number*	QDR	DERAP Score	Wditchs	Wditchm	Wditchx	Wchamm	Wchan1	Wchan2	Wincision	Wdamdec	Wimp10	Wimp75	Wimp100	Wstorm	Wpoint	Wsed	Wfill10	Wfill75	Wfill100	Wmic10	Wmic75	Wmic100	Wsubsid
DEMP588	5	66	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	0
DEMP630	5	66	0	0	0					1	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMP594	5	64	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
DEMP508	5	62	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
DEMP524	3	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMP575	2	58	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
DEMP579	5	42	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
DEMP560	5	40	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
DEMP723	5	39	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
DEMP511	4	36	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
DEMP517	3	36	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
DEMP599	5	23	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0
DEMP710	6	23	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
DEMP509	5	21	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0

\* Site numbers are coded by condition categories (green are minimally stressed, yellow are moderately stressed, red are severely stressed)

## APPENDIX F continued

Stressor descriptions are listed in Appendix B. '1' indicates stressor presence; '0' indicates stressor absence.

### *Buffer Stressors*

Site Number	QDR	DERAP Score	Ldevcom	Ldevres3	Ldevres2	Ldevred1	Lrdgrav	Lrd2pav	Lrd4pav	Lndfil	Lchan	Lag	Lagpoul	Lfor	Lgolf	Lmow	Lmine
DEMP504	2	90	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
DEMP600	1	90	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
DEMP518	1	89	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
DEMP526	1	86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMP528	1	86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMP574	2	84	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
DEMP522	1	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMP538	5	83	1	1	0	0	0	0	1	0	0	1	0	0	0	0	0
DEMP554	4	83	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0
DEMP571	2	83	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0
DEMP582	3	78	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
DEMP632	3	73	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
DEMP556	3	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEMP583	2	71	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0
DEMP677	3	70	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
DEMP567	3	68	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
DEMP612	3	67	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0
DEMP616	4	67	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0

Site Number	QDR	DERAP Score	Ldevcom	Ldevres3	Ldevres2	Ldevred1	Lrdgrav	Lrd2pav	Lrd4pav	Lindfil	Lchan	Lag	Lagpoul	Lfor	Lgolf	Lmow	Lmine
DEMP553	3	66	0	1	0	0	0	1	0	0	1	0	0	0	0	1	0
DEMP588	5	66	0	0	0	1	0	1	0	0	0	1	0	0	0	1	0
DEMP630	5	66	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0
DEMP594	5	64	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
DEMP508	5	62	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
DEMP524	3	62	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
DEMP575	2	58	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
DEMP579	5	42	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
DEMP560	5	40	0	0	0	1	0	1	0	0	1	1	0	1	0	0	0
DEMP723	5	39	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0
DEMP511	4	36	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
DEMP517	3	36	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
DEMP599	5	23	0	0	0	1	0	0	0	1	0	0	1	1	0	0	0
DEMP710	6	23	1	0	0	0	0	1	0	0	1	1	0	1	0	0	0
DEMP509	5	21	0	0	0	1	0	0	0	0	1	0	0	1	0	0	0

\* Site numbers are coded by condition categories (green are minimally stressed, yellow are moderately stressed, red are severely stressed)

## APPENDIX G: DERAP Wetland Assessment Stressor Checklist for Non-tidal Depression Wetlands in the Mispillion River Watershed

Stressor descriptions are listed in Appendix B. ‘1’ indicates stressor presence; ‘0’ indicates stressor absence.

### *Habitat and Plant Community Stressors*

Site Number*	QDR	DERAP Score	Hfor31	Hfor16	Hfor3	Hfor2	Hec10	Hec50	Hec100	Hforsc	Hpine	Hchem	Hnow	Hfarm	Hgraz	Hnorecov	Hinv1	Hinv5	Hinv50	Hinv100	Hherb	Algae	Hnis50	Hnis100	Hrail	Hroad	Hpave
DEMP516	6	42	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0

### *Hydrology Stressors*

Site Number*	QDR	DERAP Score	Wditchs	Wditchm	Wditchx	Wchannm	Wchan1	Wchan2	Wincision	Wdamdec	Wimp10	Wimp75	Wimp100	Wstorm	Wpoint	Wsed	Wfill10	Wfill75	Wfill100	Wmic10	Wmic75	Wmic100	Wsubsid
DEMP516	6	42	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0

### *Buffer Stressors*

Site Number*	QDR	DERAP Score	Ldevcom	Ldevres3	Ldevres2	Ldevred1	Lrdgrav	Lrd2pav	Lrd4pav	Lndfil	Lchan	Lag	Lagpoul	Lfor	Lgolf	Lmow	Lmine
DEMP516	6	42	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0

\* Site numbers are color coded by condition categories (green are minimally stressed, yellow are moderately stressed, red are severely stressed)

APPENDIX H: DECAP Wetland Assessment Stressor Checklist for Non-tidal  
Riverine Wetlands in the Mispillion River Watershed

Site Number	DEMP677
QDR	4
Vveg history	1.00
FACU Tree IV	0.00
Vtreecomp	1.00
Tree Basal Area m <sup>2</sup> /ha	35.50
Vtba	0.85
Vmicrotopo	0.75
% Veg Plots with Rubus	0.00
Vrubus	1.00
Shrub Density (shrubs/ha)	5587.00
Vshrubden	1.00
Buffer Tree Basal Area (m <sup>2</sup> /ha)	41.03
Vbufferba	1.00
% Buffer High Impact Land Use	30.60
Vbuffuse200	0.76
AA Floodplain Alterations	0.00
Vfloodplain	1.00
% Coverage Invasive Herbs	15.50
Vinvasive understory	0.10
% Channelization 500m from AA	0.00
Vchannel_out	1.00
Vinstream	0.30
Vhydroalt_out	0.10
Average CoC	4.65
FQAI'	45.93
Vfqai	0.95
Distance to Nearest Road (m)	81.00
Vdist_to_road	0.49

APPENDIX I: DECAP Wetland Assessment Stressor Checklist for Non-tidal Flat  
Wetlands in the Mispillion River Watershed

Site Number	DEMP507
QDR	1
% Affected by Ditching	15.00
Vdrain	0.85
Vdisturb	1.00
Tree Density (trees/ha)	640.00
Vtreeden	0.91
% FACU Trees >7.5cm dbh	25.00
Vtreespp	0.75
Tree Basal Area (m <sup>2</sup> /ha)	30.58
Vtba	1.00
Vmicro	1.00
Vherb	0.75
% of Veg Plots with <i>Rubus</i>	0.00
Vrubus	1.00
Shrub Density (shrubs/ha)	3013
Vshrubden	0.63
# of Shrub Species	4.00
Vshrub spp	1.00
% Fill in AA	0.00
Vfill	1.00
Snag Density (snags/ha)	17.18
Vdeadwood	1.00
Buffer Tree Basal Area (m <sup>2</sup> /ha)	25.07
Vbufferba	0.98
% High Impact Land Use	0.00
Vbuffuse200	1.00
% Buffer Impervious	0.00
Vbuff imperv200	1.00
% Buffer Road Cover	0.00
Vbuffroad200	1.00
Avg CoC	4.21
fqai'	42.1
Vfqai	0.78

APPENDIX J: DECAP Wetland Functions for Non-tidal Riverine and Flat  
Wetlands in the Mispillion River Watershed

<b>Site Number</b>	<b>DEMP677</b>	<b>DEMP507</b>
<b>QDR</b>	4	1
<b>Hydrology</b>	.8756	.8875
<b>Biogeochemistry</b>	.7005	.8742
<b>Plant Community</b>	.7467	.8750
<b>Habitat</b>	.9000	.8963
<b>Buffer Integrity</b>	.6850	.9950
<b>Index of Wetland Condition (IWC)</b>	84.4750	91.1430
<b>Condition</b>	Minimally Stressed	Minimally Stressed



