Appendix O

Detailed Wetland Information

ALTERNATIVE 3MOD
EXISTING ALIGNMENT WITH PEQUOT LAKES BYPASS

Wetland #	County	Sect.-Twp.-Range	Watershed	Type C-39	Type Cowardin	Type (Eggers)	Wetland Size	Acreage of Impact	% Impacted	Topo Setting	In Shoreland Wetland Protection Zone or Floodplain of a Watercourse (give distance in feet)
1	Crow Wing	11-135-29	12 CW R.	6	PSS1C	Shrub Carr	45.00	3.26	7%	FP	adj. To Cullen Br.
Edna Lake	Crow Wing	2-135-29	12 CW R.		L1UBH		153.00	0.00	0%	ISO	**Edna Lake**
2	Crow Wing	2-135-29	12 CW R.	7	PSS4B	Conif. Bog	9.30	0.00	0%	ISO	500' to L Cullen, 700' to W Twin
2A**	Crow Wing	2-135-29	12 CW R.	6	PSS1C	Alder Thicket	2.00	0.18	9%	ISO	500' to L Cullen, 700' to W Twin
2B	Crow Wing	2-135-29	12 CW R.	4	PUBG	Shallow Open Water	2.00	0.00	0%	ISO	500' to L Cullen, 700' to W Twin
4	Crow Wing	3-135-29	12 CW R.	6	PSS1C	Shrub Carr	0.90	0.04	4%	ISO	600" to W Twin
6	Crow Wing	35-136-29	12 CW R.	3	PEMC	Shallow Marsh	0.30	0.00	0%	FP	May be lakebed, WTL
W Twin Lk	Crow Wing	35-136-29	12 CW R.		L1UBH		117.00	0.00	0%	ISO	**West Twin Lake**
7	Crow Wing	35-136-29	12 CW R.	7	PFO1B	Hardwood Swamp	0.30	0.00	0%	FP	may be lakebed,WTL
9	Crow Wing	26-136-29	12 CW R.	2	PEMB	Sedge Meadow	0.72	0.70	97%	ISO	500' to W Twin L.
10	Crow Wing	26-136-29	12 CW R.	2	PEMB	Sedge Meadow	0.05	0.04	80%	ISO	
11	Crow Wing	27-136-29	12 CW R.	2	PEMB	Sedge Meadow	0.30	0.00	0%	ISO	
14	Crow Wing	26-136-29	12 CW R.	2	PEMB	Sedge Meadow	0.24	0.16	67%	ISO	
15	Crow Wing	27-136-29	12 CW R.	6	PSS1B	Alder Thicket	14.30	0.68	5%	ISO	
18	Crow Wing	26-136-29	12 CW R.	6	PSS1C	Shrub Carr	0.54	0.25	46%	ISO	
19*	Crow Wing	10-136-29	12 CW R.	3	PEMC	Shallow Marsh	1.20	0.070	6%	ISO	
27*	Crow Wing	3-136-29	11 Pine R.	3	PEMC	Shallow Marsh	1.08	0.050	5%	ISO	
28*	Crow Wing	3-136-29	11 Pine R.	2	PEMB	Sedge Meadow	0.10	0.050	50%	ISO	
32	Crow Wing	34-137-29	11 Pine R.	3	PEMC	Shallow Marsh	54.00	0.13	0%	ISO	
34	Crow Wing	34-137-29	11 Pine R.	6	PSS1C	Shrub Carr	92.00	2.70	3%	TRIB	
36	Crow Wing	27-137-29	11 Pine R.	6	PSS1C	Alder Thicket	9.50	0.55	6%	FT	
39	Crow Wing	27-137-29	11 Pine R.	3	PEMC	Fresh Meadow	2.10	0.13	6%	FT	FP of Hay Cr.
Hay Creek	Crow Wing	27-137-29	11 Pine R.		R2UBH		1100'		chan realign	R	**Hay Creek**
40	Crow Wing	27-137-29	11 Pine R.	2	PEMB	Sedge Meadow	0.19	0.03	16%	ISO	50' to Hay Creek
41	Crow Wing	22,27-137	11 Pine R.	3	PEMC	Shallow Marsh	7.50	0.08	1%	ISO	
42	Cass	21-137-29	11 Pine R.	6	PSS1C	Shrub Carr	1.01	0.07	7%	ISO	
44	Cass	21-137-29	11 Pine R.	2	PEMB	Fresh Meadow	0.20	0.11	55%	ISO	
46	Cass	21-137-29	11 Pine R.	3	PUBGx	Shallow Marsh	3.40	0.70	21%	ISO	
48	Cass	21-137-29	11 Pine R.	3	PEMC	Shallow Marsh	0.20	0.15	75%	ISO	
50	Cass	21-137-29	11 Pine R.	2	PEMB	Fresh Meadow	0.05	0.04	80%	ISO	
52	Cass	16-137-29	11 Pine R.	6	PSS1C	Shrub Carr	230.00	4.69	2%	ISO	
53	Cass	16-137-29	11 Pine R.	6	PSS1C	Shrub Carr	0.80	0.79	99%	ISO	
56	Cass	16-137-29	11 Pine R.	6	PSS1C	Shrub Carr	1.62	1.59	98%	TRIB	
59	Cass	8-137-29	11 Pine R.	6	PSS1B	Shrub Carr	0.15	0.06	40%	FP	160' to Pine R.
62	Cass	8-137-29	11 Pine R.	6	PSS1C	Shrub Carr	2.00	0.11	6%	FP	adj to Pine R
Pine River	Cass	8-137-29	11 Pine R.		R2			0.00	0%	R	**Pine R.**
64	Cass	5-137-29	11 Pine R.	7	PFO1C	Hardwood Swamp	0.25	0.00	0%	ISO	
65	Cass	6-137-29	11 Pine R.	6	PSS1B	Shrub Carr	0.80	0.00	0%	ISO	
67	Cass	6-137-29	11 Pine R.	2	PEMB	Fresh Meadow	0.35	0.16	46%	FP	adj to Norway Br.
68	Cass	6-137-29	11 Pine R.	6	PSS1C	Shrub Carr	0.09	0.00	0%	FP	adj to Norway Br.
69	Cass	6-137-29	11 Pine R.	2	PEMB	Fresh Meadow	0.35	0.21	60%	FP	adj to Norway Br.
70	Cass	6-137-29	11 Pine R.	6	PSS1C	Shrub Carr	0.20	0.00	0%	FP	adj to Norway Br.
							TOTAL	**17.78**			

* New wetland impacts associated with Alternative 3MOD.
** Increased wetland impact due to refinement of layout since FEIS (removal of bridge structure at CR 29/107. See Figure A3 in Appendix I.

Removed by Selectling Alternative 3MOD											
8	Crow Wing	34-136-29	12 CW R.	6	PSS1C		1.40	0.01	1%	TRIB	adjacent to W Twin L.
20	Crow Wing	10-136-29	12 CW R.	1	PEMA		0.40	0.18	45%	ISO	200' to Sibley L.
21	Crow Wing	10-136-29	12 CW R.	6	PSS1C		19.00	0.06	0%	FP	may be lakebed, Sibley
24	Crow Wing	10-136-29	11 Pine R.	3	PEMC	typha	0.30	0.00	0%	ISO	
25	Crow Wing	3-136-29	11 Pine R.	3	PEMC		2.20	0.00	0%	ISO	
							TOTAL	**0.25**			

	Topographic Setting					
Type	**Isolated**	**Tributary**	**Flow Through**	**Riverine**	**Flood Plair**	**TOTAL**
1	**0.00**	**-**	**-**	**-**	**-**	**0.00**
2	**1.13**	**-**	**-**	**-**	**0.37**	**1.50**
3	**1.18**	**-**	**0.13**		**0.00**	**1.31**
4	**0.00**	**-**	**-**	**-**	**-**	**0.00**
5	**0.00**	**-**	**-**	**-**	**-**	**0.00**
6	**6.70**	**4.29**	**0.55**		**3.43**	**14.97**
7	**0.00**	**-**	**-**	**-**	**0.00**	**0.00**
8	**0.00**	**-**	**-**	**-**	**-**	**0.00**
LAKE	**-**	**-**	**-**	**-**	**-**	
TOTAL	**9.01**	**4.29**	**0.68**	**0.00**	**3.80**	**17.78**

ALTERNATIVE 3MOD
EXISTING ALIGNMENT WITH PEQUOT LAKES BYPASS
(Impacted Wetlands/Waters 06/30/08)
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Wetland	Type	Vegetable Diversity	Maint. of Hydrologic Regime	Flood/ Stormwater/ Attenuation	Water Quality Protection	Shore-line Protection	Ground-water Interaction	Wildlife Habitat	Fishery Habitat	Aesth./ Rec./Educ./ Cultural	Com-mercial Uses
1	6 (lg)	**M**	L	L	**M**	L		**H**	**MH**	**M**	NA
Edna Lake											
2	7 Tam. Swamp	**H**	**H**	L	L	NA		**M**	L	**M**	NA
2A	6(isol)	**M**	**H**	L	LM	NA		**M**	NA	L	NA
2B											
4	6(isol)	**M**	**H**	L	LM	NA		**M**	NA	L	NA
6	3(isol)	L	L	L	LM	LM		L	NA	L	NA
W. Twin Lake											
7	7 Hrdwd Swamp	**H**	**H**	L	**M**	**M**		**M**	NA	L	NA
9	2 (isol)	**H**	**M**	L	L	NA		**MH**	NA	L	NA
10	2 (isol)	**H**	**M**	L	L	NA		**MH**	NA	L	NA
11	2 (isol)	**H**	**M**	L	L	NA		**MH**	NA	L	NA
14	2 (isol)	**H**	**M**	L	L	NA		**MH**	NA	L	NA
15	6 (lg)	**M**	L	L	**M**	L		**H**	**MH**	**M**	NA
18	6(isol)	**M**	**H**	L	LM	NA		**M**	NA	L	NA
19											
27	3(isol)	L	L	L	LM	NA		L	NA	L	NA

ALTERNATIVE 3MOD
EXISTING ALIGNMENT WITH PEQUOT LAKES BYPASS
(Impacted Wetlands/Waters 06/30/08)
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Wetland	Type	Vegetable Diversity	Maint. of Hydrologic Regime	Flood/ Stormwater/ Attenuation	Water Quality Protection	Shore-line Protection	Ground-water Interaction	Wildlife Habitat	Fishery Habitat	Aesth./ Rec./Educ./ Cultural	Com-mercial Uses
28	2(isol)	**H**	**M**	L	L	NA		**MH**	NA	L	NA
32	3(isol)	L	L	L	LM	NA		L	NA	L	NA
34	6 (lg)	**M**	L	L	**M**	L		**H**	**MH**	**M**	NA
36	6 (lg)	**M**	**M**	L	**M**	L		**H**	**MH**	**M**	NA
39	2/3	L	**M**	L	**M**	L		**M**	L	L	NA
Hay Creek											
40	2 (isol)	**H**	**M**	L	L	NA		**MH**	NA	L	NA
41	3(isol)	L	L	L	LM	NA		L	NA	L	NA
42											
44	2 (isol)	**H**	**M**	L	L	NA		**MH**	NA	L	NA
46	3(isol)	L	L	L	LM	NA		L	NA	L	NA
48	3(isol)	L	L	L	LM	NA		L	NA	L	NA
50	2 (isol)	**H**	**M**	L	L	NA		**MH**	NA	L	NA
52	6 (lg)	**M**	L	L	**M**	L		**H**	**MH**	**M**	NA
53	6(isol)	**M**	**H**	L	LM	NA		**M**	NA	L	NA
56	6(isol)	**M**	**H**	L	LM	NA		**M**	NA	L	NA
59	6(isol)	**M**	**H**	L	LM	NA		**M**	NA	L	NA
62	6 (lg)	**M**	L	L	**M**	L		**H**	**MH**	**M**	NA
Pine River											

ALTERNATIVE 3MOD
EXISTING ALIGNMENT WITH PEQUOT LAKES BYPASS
(Impacted Wetlands/Waters 06/30/08)
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Wetland	Type	Vegetable Diversity	Maint. of Hydrologic Regime	Flood/ Stormwater/ Attenuation	Water Quality Protection	Shore-line Protection	Ground-water Interaction	Wildlife Habitat	Fishery Habitat	Aesth./ Rec./Educ./ Cultural	Com-mercial Uses
64	7 Hrdwd Swamp	**H**	**H**	L	**M**	**M**		**M**	NA	L	NA
65	6(isol)	**M**	**H**	L	LM	NA		**M**	NA	L	NA
67	2/3	L	**M**	L	**M**	L		**M**	L	L	NA
68	6(isol)	**M**	**H**	L	LM	NA		**M**	NA	L	NA
69	2/3	L	**M**	L	**M**	L		**M**	L	L	NA
70	6(isol)	**M**	**H**	L	LM	NA		**M**	NA	L	NA

M + MH = 76 **H = 29**