

KENT HILLS 3: KENT HILLS WIND FARM EXPANSION PHASE 3

Appendix H Wetland Functional Assessment: WESP-AC Form Scores

**Appendix H WETLAND FUNCTIONAL ASSESSMENT: WESP-AC
FORM SCORES**

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Appendix H Wetland Functional Assessment: WESP-AC Form Scores

Table H.1 Functional Assessment Scores for Wetland 01

Wetland ID:	Kent Hills 3 – WL01					
Date:	6/22/2017					
Observer:	Derrick Mitchell					
Latitude & Longitude:	45.7547, -64.9487					
Results for this Assessment Area (AA):						
Wetland Functions or Other Attributes:	Function Score (normalized)	Function Rating	Benefits Score (normalized)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	1.20	Lower	5.00	Higher	2.46	3.75
Stream Flow Support (SFS)	6.77	Higher	9.71	Higher	3.61	7.31
Water Cooling (WC)	4.25	Moderate	7.08	Higher	2.83	4.57
Sediment Retention & Stabilization (SR)	3.13	Moderate	1.76	Lower	5.15	1.07
Phosphorus Retention (PR)	5.62	Higher	4.55	Moderate	7.10	4.44
Nitrate Removal & Retention (NR)	2.77	Lower	6.25	Higher	5.00	7.50
Carbon Sequestration (CS)	5.23	Moderate			6.75	
Organic Nutrient Export (OE)	8.80	Higher			6.98	
Anadromous Fish Habitat (FA)	6.06	Moderate	3.57	Moderate	3.89	2.64
Resident Fish Habitat (FR)	5.77	Moderate	3.72	Moderate	4.01	2.64
Aquatic Invertebrate Habitat (INV)	6.54	Higher	7.25	Higher	5.94	5.17
Amphibian & Turtle Habitat (AM)	5.32	Moderate	10.00	Higher	6.29	5.32
Water bird Feeding Habitat (WBF)	6.48	Higher			5.19	
Water bird Nesting Habitat (WBN)	4.08	Moderate			3.40	
Songbird, Raptor, & Mammal Habitat (SBM)	9.97	Higher			8.25	
Pollinator Habitat (POL)	9.45	Higher			7.61	
Native Plant Habitat (PH)	7.08	Higher	9.30	Higher	6.36	5.29
Public Use & Recognition (PU)			4.06	Moderate		2.92

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Date:	6/22/2017					
Observer:	Derrick Mitchell					
Latitude & Longitude:	45.7547, -64.9487					
Results for this Assessment Area (AA):						
Wetland Functions or Other Attributes:	Function Score (normalized)	Function Rating	Benefits Score (normalized)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Wetland Sensitivity (Sens)			8.40	Higher		4.91
Wetland Ecological Condition (EC)			8.62	Higher		9.17
Wetland Stressors (STR) (higher score means more)			10.00	Higher		6.03
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	1.20	Lower	5.00	Higher	2.46	3.75
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	3.53	0.00	6.71	Higher	6.55	5.92
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	8.08	0.00	9.59	Higher	5.91	6.50
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	6.21	0.00	7.23	Higher	5.43	4.42
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.93	0.00	10.00	Higher	7.83	5.29
WETLAND CONDITION (EC)			8.62	Higher		9.17
WETLAND RISK (average of Sensitivity & Stressors)			10.00	Higher		4.70
NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among the 98 NB calibration wetlands that were assessed previously.						

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Table H.2 Functional Assessment Scores for Wetland 02

Wetland ID:	Kent Hills 3 – WL02 (T7 turbine)					
Date:	6/22/2017					
Observer:	Derrick Mitchell					
Latitude & Longitude:	45.7516, -64.9582					
Results for this Assessment Area (AA):						
Wetland Functions or Other Attributes:	Function Score (normalized)	Function Rating	Benefits Score (normalized)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	3.04	Moderate	2.86	Moderate	3.93	2.50
Stream Flow Support (SFS)	5.00	Moderate	7.61	Higher	2.67	5.72
Water Cooling (WC)	1.88	Lower	1.24	Lower	1.25	0.80
Sediment Retention & Stabilization (SR)	2.07	Moderate	0.76	Lower	4.40	0.46
Phosphorus Retention (PR)	3.03	Moderate	0.00	Lower	5.39	0.33
Nitrate Removal & Retention (NR)	0.58	Lower	0.00	Lower	4.32	3.33
Carbon Sequestration (CS)	4.52	Moderate			6.43	
Organic Nutrient Export (OE)	8.38	Higher			6.65	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	2.77	Lower	4.41	Moderate	4.34	3.70
Amphibian & Turtle Habitat (AM)	6.10	Moderate	8.87	Higher	6.69	4.72
Water bird Feeding Habitat (WBF)	4.99	Moderate			4.00	
Water bird Nesting Habitat (WBN)	4.60	Moderate			3.83	
Songbird, Raptor, & Mammal Habitat (SBM)	9.25	Higher			7.65	
Pollinator Habitat (POL)	7.92	Higher			6.38	
Native Plant Habitat (PH)	4.01	Moderate	8.22	Higher	5.06	4.68
Public Use & Recognition (PU)			2.86	Moderate		2.10



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Date:	6/22/2017					
Observer:	Derrick Mitchell					
Latitude & Longitude:	45.7516, -64.9582					
Results for this Assessment Area (AA):						
Wetland Functions or Other Attributes:	Function Score (normalized)	Function Rating	Benefits Score (normalized)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Wetland Sensitivity (Sens)			2.26	Lower		2.91
Wetland Ecological Condition (EC)			3.56	Moderate		6.11
Wetland Stressors (STR) (higher score means more)			8.45	Higher		4.26
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	3.04	Moderate	2.86	Moderate	3.93	2.50
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	1.93	0.00	2.13	Lower	5.78	2.35
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.33	0.00	6.23	Moderate	5.19	4.56
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	4.95	0.00	4.70	Higher	4.80	3.15
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.98	0.00	9.49	Higher	7.01	4.68
WETLAND CONDITION (EC)			3.56	Moderate		6.11
WETLAND RISK (average of Sensitivity & Stressors)			5.39	Moderate		3.59
NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among the 98 NB calibration wetlands that were assessed previously.						

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Table H.3 Functional Assessment Scores for Wetland 03

Wetland ID:	Kent Hills 3 – WL03 (T8 turbine)					
Date:	6/23/2017					
Observer:	Derrick Mitchell					
Latitude & Longitude:	45.8169, -64.8861					
Results for this Assessment Area (AA):						
Wetland Functions or Other Attributes:	Function Score (normalized)	Function Rating	Benefits Score (normalized)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	0.68	Lower	2.86	Moderate	2.05	2.50
Stream Flow Support (SFS)	6.25	Moderate	7.53	Higher	3.33	5.67
Water Cooling (WC)	1.20	Lower	0.00	Lower	0.80	0.00
Sediment Retention & Stabilization (SR)	0.00	Lower	1.11	Lower	2.90	0.67
Phosphorus Retention (PR)	4.70	Higher	0.48	Lower	6.49	0.76
Nitrate Removal & Retention (NR)	1.91	Lower	0.00	Lower	4.73	3.19
Carbon Sequestration (CS)	5.30	Moderate			6.78	
Organic Nutrient Export (OE)	6.28	Higher			4.99	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	1.96	Lower	3.24	Moderate	3.99	3.09
Amphibian & Turtle Habitat (AM)	3.34	Moderate	10.00	Higher	5.28	6.86
Water bird Feeding Habitat (WBF)	5.07	Moderate			4.06	
Water bird Nesting Habitat (WBN)	3.22	Moderate			2.68	
Songbird, Raptor, & Mammal Habitat (SBM)	7.86	Higher			6.50	
Pollinator Habitat (POL)	9.87	Higher			7.95	
Native Plant Habitat (PH)	5.38	Higher	8.47	Higher	5.64	4.82



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Date:	6/23/2017					
Observer:	Derrick Mitchell					
Latitude & Longitude:	45.8169, -64.8861					
Results for this Assessment Area (AA):						
Wetland Functions or Other Attributes:	Function Score (normalized)	Function Rating	Benefits Score (normalized)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Public Use & Recognition (PU)			2.16	Lower		1.63
Wetland Sensitivity (Sens)			6.96	Higher		4.44
Wetland Ecological Condition (EC)			8.62	Higher		9.17
Wetland Stressors (STR) (higher score means more)			7.96	Higher		4.07
Summary Ratings for Grouped Functions:						
HYDROLOGIC Group (WS)	0.68	Lower	2.86	Moderate	2.05	2.50
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	2.39	0.00	2.15	Lower	6.00	2.37
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	3.78	0.00	5.75	Moderate	4.13	4.29
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	3.04	0.00	7.52	Higher	3.84	4.57
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.72	0.00	9.78	Higher	7.32	4.82
WETLAND CONDITION (EC)			8.62	Higher		9.17
WETLAND RISK (average of Sensitivity & Stressors)			8.47	Higher		4.25
NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among the 98 NB calibration wetlands that were assessed previously.						