

## Appendix 6: WESP Scores

Wetland ID: Spicer Quarry EA, Wetland #1		Observer: Andy Sharpe, ECA		
Date: July 2, 2019		Coordinates: UTM (NAD83) 311540 4967674		
Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating
Water Storage & Delay (WS)	1.58	Lower	10.00	Higher
Stream Flow Support (SFS)	5.24	Higher	10.00	Higher
Water Cooling (WC)	6.30	Higher	10.00	Higher
Sediment Retention & Stabilisation (SR)	4.11	Moderate	10.00	Higher
Phosphorus Retention (PR)	2.89	Lower	7.41	Higher
Nitrate Removal & Retention (NR)	10.00	Higher	10.00	Higher
Carbon Sequestration (CS)	3.46	Moderate		
Organic Nutrient Export (OE)	10.00	Higher		
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower
Aquatic Invertebrate Habitat (INV)	6.49	Higher	4.56	Moderate
Amphibian & Turtle Habitat (AM)	5.47	Moderate	6.23	Higher
Waterbird Feeding Habitat (WBF)	5.94	Moderate	10.00	Higher
Waterbird Nesting Habitat (WBN)	6.21	Moderate	3.33	Moderate
Songbird, Raptor, & Mammal Habitat (SBM)	7.78	Higher	10.00	Higher
Pollinator Habitat (POL)	8.34	Higher	3.33	Moderate
Native Plant Habitat (PH)	6.05	Higher	5.65	Moderate
Public Use & Recognition (PU)			1.79	Moderate
Wetland Sensitivity (Sens)			10.00	Higher
Wetland Ecological Condition (EC)			6.52	Higher
Wetland Stressors (STR) (higher score means more stress)			6.06	Higher
<b>Summary Ratings for Grouped Functions:</b>				
HYDROLOGIC Group (WS)	1.58	Lower	10.00	Higher
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	7.56	Higher	9.57	Higher
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	8.50	Higher	9.09	Higher
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	4.87	Moderate	6.96	Higher
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.87	Higher	8.16	Moderate
WETLAND CONDITION (EC)			6.52	Higher
WETLAND RISK (average of Sensitivity & Stressors)			8.03	Higher

Wetland ID: Spicer Quarry EA, Wetland #2		Observer: Andy Sharpe, ECA			
Date: July 2, 2019		Coordinates: UTM (NAD83) 311280 4967350			
Wetland Functions or Other Attributes:		Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating
Water Storage & Delay (WS)		1.38	Lower	10.00	Higher
Stream Flow Support (SFS)		1.97	Moderate	10.00	Higher
Water Cooling (WC)		6.75	Higher	10.00	Higher
Sediment Retention & Stabilisation (SR)		2.63	Lower	10.00	Higher
Phosphorus Retention (PR)		2.78	Lower	6.43	Higher
Nitrate Removal & Retention (NR)		10.00	Higher	10.00	Higher
Carbon Sequestration (CS)		3.36	Moderate		
Organic Nutrient Export (OE)		6.94	Moderate		
Anadromous Fish Habitat (FA)		0.00	Lower	0.00	Lower
Resident Fish Habitat (FR)		0.00	Lower	0.00	Lower
Aquatic Invertebrate Habitat (INV)		3.87	Moderate	3.32	Moderate
Amphibian & Turtle Habitat (AM)		0.47	Lower	6.33	Higher
Waterbird Feeding Habitat (WBF)		5.92	Moderate	10.00	Higher
Waterbird Nesting Habitat (WBN)		4.23	Moderate	3.33	Moderate
Songbird, Raptor, & Mammal Habitat (SBM)		8.08	Higher	10.00	Higher
Pollinator Habitat (POL)		9.17	Higher	3.33	Moderate
Native Plant Habitat (PH)		4.94	Moderate	5.97	Moderate
Public Use & Recognition (PU)				1.79	Moderate
Wetland Sensitivity (Sens)				10.00	Higher
Wetland Ecological Condition (EC)				6.52	Higher
Wetland Stressors (STR) (higher score means more stress)				5.94	Moderate
<b>Summary Ratings for Grouped Functions:</b>					
HYDROLOGIC Group (WS)		1.38	Lower	10.00	Higher
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)		7.35	Higher	9.40	Higher
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)		5.91	Moderate	8.89	Higher
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)		4.02	Moderate	6.97	Higher
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)		8.29	Higher	8.22	Moderate
WETLAND CONDITION (EC)				6.52	Higher
WETLAND RISK (average of Sensitivity & Stressors)				7.97	Higher

Wetland ID: Spicer Quarry EA, Wetland #3		Observer: Andy Sharpe, ECA			
Date: July 2, 2019		Coordinates: UTM (NAD83) 311227 4968042			
Wetland Functions or Other Attributes:		Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating
Water Storage & Delay (WS)		0.41	Lower	10.00	Higher
Stream Flow Support (SFS)		4.48	Moderate	10.00	Higher
Water Cooling (WC)		6.15	Higher	10.00	Higher
Sediment Retention & Stabilisation (SR)		2.27	Lower	10.00	Higher
Phosphorus Retention (PR)		3.79	Lower	6.43	Higher
Nitrate Removal & Retention (NR)		10.00	Higher	10.00	Higher
Carbon Sequestration (CS)		3.72	Moderate		
Organic Nutrient Export (OE)		8.61	Higher		
Anadromous Fish Habitat (FA)		0.00	Lower	0.00	Lower
Resident Fish Habitat (FR)		0.00	Lower	0.00	Lower
Aquatic Invertebrate Habitat (INV)		5.91	Higher	3.82	Moderate
Amphibian & Turtle Habitat (AM)		1.84	Lower	6.81	Higher
Waterbird Feeding Habitat (WBF)		5.92	Moderate	10.00	Higher
Waterbird Nesting Habitat (WBN)		3.85	Moderate	3.33	Moderate
Songbird, Raptor, & Mammal Habitat (SBM)		9.37	Higher	10.00	Higher
Pollinator Habitat (POL)		8.82	Higher	3.33	Moderate
Native Plant Habitat (PH)		6.14	Higher	6.24	Moderate
Public Use & Recognition (PU)				1.79	Moderate
Wetland Sensitivity (Sens)				10.00	Higher
Wetland Ecological Condition (EC)				8.26	Higher
Wetland Stressors (STR) (higher score means more stress)				5.94	Moderate
<b>Summary Ratings for Grouped Functions:</b>					
HYDROLOGIC Group (WS)		0.41	Lower	10.00	Higher
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)		7.47	Higher	9.40	Higher
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)		7.45	Higher	8.97	Higher
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)		4.12	Moderate	7.01	Higher
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)		8.74	Higher	8.26	Moderate
WETLAND CONDITION (EC)				8.26	Higher
WETLAND RISK (average of Sensitivity & Stressors)				7.97	Higher

Wetland ID: Spicer Quarry EA, Wetland #6	Observer: Andy Sharpe, ECA			
Date: July 2, 2019	Coordinates: UTM (NAD83) 311031 4967978			
Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating
Water Storage & Delay (WS)	0.41	Lower	10.00	Higher
Stream Flow Support (SFS)	4.48	Moderate	10.00	Higher
Water Cooling (WC)	6.15	Higher	10.00	Higher
Sediment Retention & Stabilisation (SR)	2.27	Lower	10.00	Higher
Phosphorus Retention (PR)	3.79	Lower	6.43	Higher
Nitrate Removal & Retention (NR)	10.00	Higher	10.00	Higher
Carbon Sequestration (CS)	3.72	Moderate		
Organic Nutrient Export (OE)	8.61	Higher		
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower
Aquatic Invertebrate Habitat (INV)	5.91	Higher	3.82	Moderate
Amphibian & Turtle Habitat (AM)	1.84	Lower	6.81	Higher
Waterbird Feeding Habitat (WBF)	5.92	Moderate	10.00	Higher
Waterbird Nesting Habitat (WBN)	3.85	Moderate	3.33	Moderate
Songbird, Raptor, & Mammal Habitat (SBM)	9.37	Higher	10.00	Higher
Pollinator Habitat (POL)	8.82	Higher	3.33	Moderate
Native Plant Habitat (PH)	6.14	Higher	6.24	Moderate
Public Use & Recognition (PU)			1.79	Moderate
Wetland Sensitivity (Sens)			10.00	Higher
Wetland Ecological Condition (EC)			8.26	Higher
Wetland Stressors (STR) (higher score means more stress)			5.94	Moderate
<b>Summary Ratings for Grouped Functions:</b>				
HYDROLOGIC Group (WS)	0.41	Lower	10.00	Higher
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	7.47	Higher	9.40	Higher
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	7.45	Higher	8.97	Higher
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	4.12	Moderate	7.01	Higher
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.74	Higher	8.26	Moderate
WETLAND CONDITION (EC)			8.26	Higher
WETLAND RISK (average of Sensitivity & Stressors)			7.97	Higher