

Appendices

Appendix 2.1 - Field Data Sheet for Vegetation Sample Plots

Project: Englishman River Estuary

Date: 2008_09_19ERE

Surveyors: RB, TA, CS

LOCATION

Location Description: West Marsh near small tidal channel just beyond second dyke opening

waypoint (or photo) number: wp#72

UTM NAD83 Zone: 10

x UTM easting:

y UTM: northing:

Photo Sequence: E, N, W, SW, S, DOWN, GPS, oblique south, species photos, GPS

Photo Numbers: J1011 to J1023

ECOLOGICAL DESCRIPTION OF PLANNED POLYGON:

slope/aspect: level

exposed substrate (root platform, organic mud, silt, sand and/or gravel): not visible

graminoid, forb, shrubland or forest: forb/grass on mid saltmarsh

salt/brackish/fresh: salt

level (low, mid or high): mid marsh

erosion: LWD movement created furrow nearby but not in plot

deposition: not visible

grazing: not visible

NOTES

Is the vegetation of the sample plot uniform? yes

How far does the vegetation pattern of the sample plot continue beyond the plot

boundaries? 10m EW&S, > 100m to the N

If this was a polygon, what plant species (occurrence or absence or percent cover) might be used to mark its boundaries? GRININT occurrence marks a change

SAMPLE PLOT SIZE: 10 X 10m

VEGETATION COVER

layer assessed in sample plot ---(algae, bryophyte, graminoid&forb, low shrub, tall shrub, tree canopy): graminoid&forb

total vegetation cover for layer: 100% graminoid and forb (no bare ground, no other layers)

vegetation cover for major species:

<u>Layer</u>	<u>GENUSPE</u>	<u>Percent Cover</u>
	SALIVIR	75%
	DISTSPI	20%
	ATRIPAT	4%
	HORDBRA	0.1%

other species observed in plot: SAVS flew up as we arrived.

species nearby: bare mud & algae, sparse SCIRCER elevations below plot

Appendix 2.2 Monthly Estuary Bird Surveys 2005-2009

Monthly Bird Surveys on the Englishman River Estuary,
March 2005 to February 2009 by the Arrowsmith Naturalists (2009)

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	
WATERFOWL													
Trumpeter Swan			1										2005
	10											8	2006
											2	3	2007
	-----	3											2009
Canada Goose adults	-----	-----	58	63	48	220		92	54	14	3	1	2005
 goslings	-----	-----				16							2005
		-											
 adults	30	31	71	79	36	85	2		11	4	55	56	2006
 goslings							5						2006
 adults	19	39	70	95	86	60	40		4	26	11	4	2007
 goslings					8		8						2007
 adults	12	3	11	88	93	-----	65	20	3	3	98	194	2008
 goslings					39	-----							2008
 adults	-----	53	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	2009
 goslings	-----		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	2009
Brant				30	6								2005
				485									2006
	30		55	106		6							2007
		24		520	80	-----							2008
	-----	17											2009
American Wigeon			71	67	18				3	48	100	45	2005
	56	15	38	63	40	3					125	10	2006
	14	36	62	465	12	2				40	113	79	2007
	35	10	155	219	60	-----			13	111	500	294	2008
		1								7			
	-----	55											2009
Eurasian Wigeon			1	1							1		2005
				4							1	6	2006
		1		1								1	2007
		2	1	2		-----					2		2008
Mallard			188	156	21	57		15	21	22	52	80	2005
	46	23	18	37	30	22			4		130	75	2006
	49	75	60	460	73	16	6		7	40	327	138	2007
	173	24	71	164	10	-----		2	19	199	150	370	2008
		8											
	-----	76											2009
Northern Pintail			22	11					25	12	14	2	2005
			3	19	1						14	1	2006
		1	14	68	2						40	12	2007
	2	35	37	8	1	-----			12	275	11	24	2008
	-----	4											2009
Green-winged Teal			39	84	10				59	13		5	2005
			3	47	35						22		2006
		16	42	159	2					2	101		2007
		61	6	85	25	-----			18	144	40	102	2008
	-----	37											2009

Bufflehead			2	23	25						41	21	2005
	20	5	17	31	22						3	6	2006
	6	11	24	29	6						37	31	2007
	7	36	4	20	5	-----					6	5	2008
	-----	25											2009
Common Merganser			2	2	2	17		4	3	17		15	2005
	7	1	13	5		3					12	1	2006
	2	9	3	19	1		15				23	11	2007
	2	3	2	2	3	-----	20	18	23	21	7	16	2008
	-----	10											2009
Red-breasted Merganser										2		2	2005
						3							2006
	1			1	11			3				17	2007
		1		6		-----				2	1		2008
	-----	4											2009
Hooded Merganser			2					1	2	4		4	2005
	6			2					1		10	2	2006
	1	3								2	4		2007
						-----				8	2	1	2008
	-----	1											2009
Common Goldeneye				11									2005
	5		4	14								24	2006
	11	2			7							9	2007
	2	9	22	38		-----							2008
	-----	9											2009
Barrow's Goldeneye											12	5	2005
												2	2006
	2											13	2007
	2	2				-----						5	2008
Surf Scoter										3		4	2005
			19	9							60	30	2006
				34									2007
		42				-----				34	50		2008
	-----	43											2009
White-winged Scoter										3		14	2005
				15							5	40	2006
				30									2007
	106	5		10		-----				12	15		2008
Black Scoter												105	2005
				2								5	2006
				7									2007
	40	11				-----				5		20	2008
Mixed Scoters											10		2005
Harlequin											5		2005
Greater Scaup			1	2									2006
				2									2007
	7	21				-----							2008
Lesser Scaup				1									2005
	1												2006
Blue-winged Teal												1	2005
	3					-----							2008
Gadwall	3			4									2007
		2	2			-----							2008

Long-tailed Duck				22								2	2007
	1					----							2008
Wigeon Hybrid			1			----							2008
White-fronted Goose						----				18			2008
Northern Shoveller						----				7			2008
	7											200	2007
LOONS													
Pacific Loon												1	2005
												7	2007
		11				----							2008
	----	11											2009
Common Loon												2	2005
												1	2006
	2								2			6	2007
		7		1		----			1	3			2008
	----	5											2009
												3	2006
						----				9	4		2008
GREBES													
Horned Grebe										1			2005
												1	2006
									1			8	2007
		6				----							2008
	----	1											2009
Red-necked Grebe										1			2005
												7	2007
		16				----			1				2008
	----	2											2009
Western Grebe												2	2007
ALCIDS													
Common Murre		1				----					4		2008
CORMORANTS													
Double-Crested Cormorant										2			2005
	2		1						1			3	2006
												1	2007
	6	1				----		15	1		2		2008
	----	1											2009
Pelagic Cormorant												1	2006
				1								4	2007
						----				2			2008
	----	10											2009
Brants Cormorant		25				----							2008
HERONS													
Great Blue Heron			2	2	2	2	2	2	4	1	4	8	2005
	2		2	4	3	11	1	2	2		1		2006
	2	9	9	4	4	4	4	1	4	1	5	3	2007
	2	5	3	1	3	----	1	1	2	2	2	1	2008
	----	1											2009
GULLS													
Gull species including			7-10T	75	50	2	7	8	108	354	418	459	2005

– Mew,			h										
– Glaucous wing, Western,	180	7	6Th	157	55	25	6	20	27	31	1150	47	2006
– Herring, Thayers, California,	807	75	16Th	1600	340	17	21		100	164	817	300	2007
– Bonapartes, Ring-billed,	66	300	269	275	21	-----	1	100	1000	300	300	100	2008
– Heermans	-----	120											2009
SHOREBIRDS													
Black Oystercatcher												1	2006
			2										2007
Black Turnstones								12				2	2005
												1	2006
										10		15	2007
	3	8				-----				6			2008
	-----	11											2009
Black-bellied Plover												3	2005
												2	2006
	41												2007
	3					-----		1				37	2008
	-----	12											2009
Killdeer			8	2	1	21			4	19		2	2005
				2	3			1	4				2006
					2			1	1				2007
	1	12				-----		9	15			6	2008
Lesser Yellowlegs					1								2005
						-----			1				2008
Greater Yellowlegs					2				1				2005
				5									2007
						-----			1	1			2008
Dunlin					25							48	2005
											32		2006
		30			1						57	25	2007
	150					-----				18	77		2008
Long-billed Dowitcher			2					7		4			2005
						-----				2			2008
Short-billed Dowitcher											2		2007
Western Sandpiper					20			8	7				2005
					10		65						2007
						-----		51	56				2008
Least Sandpiper					5			3	1				2005
					20								2006
					2		2						2007
						-----				11			2008
Semi-palmated Plover						-----				4			2008
Wilson's Snipe						-----					1		2008
Long-billed Curlew			1										2005
CRANES &													

COOTS													
Sandhill Crane			5										2005
RAPTORS													
Bald Eagle adult			6	3	3	4	5	1			6	4	2005
immature											1	5	
adult	3	2	10	4	10	3	2			1	2	8	2006
immature			7		7	1	1					6	
adult	2	6	10	7	5	5	3	1		2	3	6	2007
immature					2	3	3				1	10	
adult	2	6		1	4	-----		1		1	6	3	2008
immature	2	1		3	3	-----						1	
adult	-----	4											2009
immature	-----	1											
Osprey						1		2					2005
Merlin								1	1	2	1		2005
					1		1	1	1				2006
									1				2007
					1	-----			1				2008
Red- tailed Hawk										1		2	2005
	1	1		1						1		1	2007
		1				-----					1	1	2008
	-----	1											2009
Sharp- shinned Hawk				1							1		2005
								1					2006
					1						1		2007
						-----					2		2008
Peale's Peregrine										1			2005
						-----				1	1		2008
Swainson's Hawk											1		2005
Cooper's Hawk						1			1	1			2005
					1								2006
			1										2007
		1				-----							2008
Northern Harrier												1	2006
						-----				1			2008
Turkey Vulture						1		3					2005
						-----	1	1					2008
CHICKEN-LIKE BIRDS													
Ring-necked Pheasant				1									2006
						3							2007
					1	-----							2008
California Quail					2	4	1			1			2005
				1		2		6		6			2006
		15	1	1	4	3	3			2			2007
			2	2	4	-----	1						2008
OWLS													
Short-eared Owl												1	2006
Barred Owl						1	1						2007
HUMMINGBIRDS													
Rufous Humming			1			5	2	1		1			2005

Bird														
				3	3	3	1							2006
				9	3	2	4							2007
				2	12	-----	1							2008
SWIFTS														
Black Swift						27	1							2007
KINGFISHER														
Belted Kingfisher			1	1	1		1	2	5	2	2	2		2005
			2	2	2		1		1	2	1	1		2006
	1	1	3	2		1	1	1	2	1	2	1		2007
		1			1	-----	2	2	1	4	4			2008
	-----	2												2009
WOODPECKERS														
Northern Flicker			2	2	2	3		6	3	11	8	8		2005
		3	6	14	2	8	1	2	7	3	5	1		2006
	6	14	11	6	1	2	8	4	6	4	4	5		2007
	5	12	7	7		-----	3	2	3	13	9	7		2008
	-----	26												2009
Pileated Woodpecker					2					1	2	1		2005
				1		1		1	1					2006
		1	1	1					1	1				2007
		1				-----	1		1			2		2008
	-----	2												2009
Downy Woodpecker			1	1		1				3	1	1		2005
			1	1										2006
				1						1				2007
				1		-----	1			1				2008
Hairy Woodpecker			1		1					1	1	1		2005
						1		1						2006
		1										1		2007
		2	1			-----				1	1			2008
Red-breasted Sapsucker				1						1				200?
DOVE-LIKE BIRDS														
Band-tailed Pigeon			3			10	3							2005
					4	2			4					2006
						2	33							2007
					16	-----	2		1					2008
Rock Dove					4									2007
					10	-----								2008
PASSERINES														
Raven			3	2					3	2		1		2005
		1	4	2	2	2		1	2					2006
		1	1	3	1		1		2	4		1		2007
		3	2	1	5	-----	1		2	7	1	1		2008

	-----	1											2009
Northwestern Crow			14	35	11	67	15	22	14	20	8	10	2005
	26	10	52	30	11	29	12	2	5	34	4		2006
	17	33	19	45	28	8	30	4	10	5	155	8	2007
	1	29	8	41	11	-----	9	11	7	50	34	18	2008
	-----	44											2009
Steller's Jay			1							2	12	6	2005
			2	1					8	4	2		2006
	1	2	6	3	1								2007
						-----			5	3	2	2	2008
	-----	4											2009
American Robin			7	15	27	13	28	1	8	48	3	1	2005
	2	8	44	17	15	28	7		1	36	4		2006
	6	3	24	48	22	22	34		33	20	30	1	2007
	2	3	24	39	32	-----	6	1		99			2008
	-----	35											2009
European Starling			48	20	17	184	30	207	6	129	53	48	2005
	26		3	25	1	104					50		2006
	14	25	68	11	8	63	115		10	26	210	5	2007
		17	5	19	15	-----	8	30	2	218	20		2008
	-----	81											2009
Brewer's Blackbird			6			3	3		10	12	6		2005
					2								2006
		32	24	12		12	7			11	23	17	2007
		22	2	19	4	-----				14			2008
	-----	79											2009
Red-winged Blackbird			2		6	44	10			6	6		2005
		1	20		7			1					2006
	150	54	3	13	5	9	2		2		1		2007
		18		20	3	-----				17	1		2008
	-----	62											2009
Northern Shrike				1									2007
						-----					1		2008
	-----	1											2009
Hermit Thrush						1							2006
						-----							2008
Varied Thrush			1	1						1		8	2005
				4	1								2006
		2	1	2	2						3	2	2007
		7				-----				2			2008
	-----	2											2009
Swainson's Thrush						2	4	2					2005
						10	3						2006
						3	8	1					2007
							3	2					2006
Brown-headed Cowbird					2	3			1				2005
					2	1							2006
			1		7	3							2007
					6	-----							2008

Black- headed Grosbeak						1							2007
Evening Grosbeak						-----				1			2008
White-crowned Sparrow				3	1				1	12		1	2005
			2	1	2	7	1		2	1		4	2006
		4		6	1	14	5	1				1	2007
				12	3	-----	1			5	3		2008
Golden-crowned Sparrow				3						10	18	37	2005
					9					1	4	5	2006
		4		4						9	2	5	2007
		10		11	9	-----			7	98	9		2008
	-----	4											2009
Song Sparrow			5	7	3	4	5	4	3	8	11	23	2005
		1	7	9	6	5	2		6	1	9	5	2006
	3	9	7	8	9	12	9	1		7	11	7	2007
	1	4	5	6	6	-----	4	1	1	50	9	14	2008
	-----	8											2009
Chipping Sparrow							3						2005
						1							2006
							1						2007
						-----	1		1				2008
Fox Sparrow										4	3	3	2005
			3								2		2006
	1	2	2	5						1	2		2007
		3	2			-----				4	4	2	2008
Savannah Sparrow									7				2005
					2								2007
					2	-----			1	104	1		2008
Lincoln 's Sparrow										1			2005
												1	2007
					1	-----				13			2008
House Sparrow												6	2005
		8		6	2	2	4				7		2007
		6		8	7	-----				6	2		2008
Spotted Towhee			6	12	18	5	18	4	8	15	14	21	2005
	2	4	26	14		10	8		10	9	6	2	2006
	3	11	9	19	16	12	17	4	10	20	1	9	2007
	5	18	7	19	9	-----	6	8	8	17	8	14	2008
	-----	7											2009
Cedar Waxwing							3	2					2005
							2	1					2006
							3	1					2007
						-----	1	3		182			2008
Western Tanager								1					2005
									1				2006
							2						2007
Red Crossbill									5	10	8	4	2005
		12	8	4	8	-----							2007
			3	1	3	2	2	2	3	3	4	1	2008
Berwick's Wren			3	5	4	1	3	1	2			3	2005
			3	5	4	1	3	1	2			3	2006

		6	6	2	2	?	11	2	3	2		5	2007
	2		3		3	-----	2	6	5	6	2	2	2008
	-----	2											2009
Winter Wren			3	1	8	3	3		1	3	6	10	2005
	7	3	5	6	3	5	3		2		6		2006
		1	4	5	2	5	3		1	4	5		2007
	2	3	8	5	6	-----			1	4	4	10	2008
	-----	1											2009
Marsh Wren		1											2007
American Pipit						-----			15	2	2		2008
American Dipper			1										2005
Violet -green Swallow			3	2	1	13	3						2005
					2	7	4						2006
					4	10	8						2007
					4	-----							2008
Barn Swallow						3	9						2005
								12					2006
						1							2007
Northern Rough winged Swallow					3	2							2007
					1	-----							2008
Chestnut-backed Chickadee			28		4	2	17	14		5	4	21	2005
	5	16	6	1	3	3	2		19	4			2006
	5	5	28	6	2	17	12	4	16		33	20	2007
	5	16	8	7	7	-----	5	1	1	35	26	20	2008
	-----	4											2009
Common Bushtits			15										2005
				2		3		17		2			2006
	9	2	8	2			6	1	2	11			2007
			2	2	2	-----	2		8	2		10	2008
Pine Siskin				3			2	1	6				2005
				1	30	2			2	4	60	50	2007
	275	12 6	26	62	28	-----			8	60	1	22	2008
Oregon Junco				8	2				1	19	78	68	2005
	8	21	32	6		1				16	9	23	2006
	12	46	19	15	4				1	50	38	45	2007
	18	66	8	9	1	-----		1		149	135	26	2008
	-----	41											2009
Brown Creeper											2	1	2005
	1		1						1				2006
		2		1		1							2007
		1	3		1	-----	1			3	2	5	2008
House Finch			2		1		1		5	24	23	3	2005

			13		2		2			5			2006
	2		11	6	12	14	7		1	25	29	7	2007
		5		20	2	-----	12	2	4	71	8	12	2008
	-----	33											2009
Purple Finch				4	1			2	45	4	6	10	2005
				3	1	4			3				2006
		5	14	4	3	4	3	31		6	44	62	2007
	112	27	6	44	5	-----	1	3	35	59	6		2008
	-----	2											2009
Orange-crowned Warbler			1	1	8	1	5		1				2005
					6	3			1				2006
				1	3	2			2				2007
					14	-----				3			2008
Yellow-rumped Warbler				1									2005
				3									2006
				2					3				2007
					8	-----				3			2008
Black-throated Grey Warbler							1		3				2006
Wilson's Warbler						1		1			1		2005
								2					2007
						-----	1						2008
Yellow Warbler					1	3	3	4					2005
						5							2007
Townsend's Warbler							2						2005
					2								2007
Myrtle-rumped Warbler					1	-----							2008
Ruby- crowned Kinglet			2							2	6	8	2005
			6	9					2		2		2006
			6	11	2		2			3	2	12	2007
	2	1	2	5	3	-----				22	7	24	2008
Golden-crowned Kinglet			4							4	10	11	2005
	7	1	15							3			2006
		5		12						2	10	16	2007
	2	4	2		2	-----					24	55	2008
Hutton's Vireo					1								2006
			1	1		-----				1			2008
Pacific Slopes Flycatcher					3	3	6	3					2005
							3	3					2006
					1	5	4						2007
					4	-----	1						2008
Willow Flycatcher						2	2	6					2005
						7	2						2006
						7	4	4					2007
						-----	1	4					2008
Western Wood Pee Wee						-----				1			2008
Red-breasted Nuthatch							2	5	2	5	2	1	2005

	1	3	3		1		1		3				2006
	1	1		5			1	1	2	1	4	2	2007
		2			3	-----	1	2	3		1		2008
	-----	2											2009
Common Yellowthroat								2	2				2005
American Goldfinch								9	1		1		2005
					4								2006
					6	4			4		5		2007
				1	2	-----			8	3			2008
Warbling Vireo						3							2006
						1	1						2007
						-----	2						2008
Cassin's Vireo					2	1							2007
Lapland Longspur										1			2007
Total Species - 143													
Bird species: totals/month			46	45	43	35	34	38	40	54	44	53	2005
	24	22	38	47	41	36	27	20	30	19	29	35	2006
	35	46	40	60	52	44	43	17	29	40	41	50	2007
	36	59	37	46	57	-----	34	28	40	63	54	34	2008
	-----	47											2009

Appendix 2.3 Introduced Estuary Plant Species Observations.

Some vascular plant species or taxa introduced to Vancouver Island that were observed on the Englishman River Estuary, Parksville, B.C., 2007 to 2008

<i>Agrostis stolonifera</i>	Creeping Bentgrass
<i>Aira praecox</i>	Early Hairgrass
<i>Betula</i> sp (likely <i>Betula pendula</i> or <i>Betula X</i>)	birch (likely European White Birch, or a cross)
<i>Bromus tectorum</i>	Cheatgrass
<i>Centaurea</i> sp. likely <i>C. maculata</i> aka <i>C. biebersteinii</i>	knapweed (likely Spotted Knapweed)
<i>Cichorium intybus</i>	Chicory
<i>Cirsium arvense</i>	Canada Thistle (aka Creeping Thistle)
<i>Cirsium vulgare</i>	Bull Thistle
<i>Convolvulus</i> sp. likely <i>Convolvulus sepium</i>	bindweed (likely Hedge Bindweed)
<i>Cotula coronopifolia</i>	Brass Buttons
<i>Cytisus scoparius</i>	Scotch Broom
<i>Dactylus glomerata</i>	Orchard Grass
<i>Daphne laureola</i>	Spurge-laurel
<i>Elymus repens</i> (aka <i>Agropyron repens</i> ; <i>Elytrigia repens</i>)	Quackgrass
<i>Eschscholzia californica</i>	California Poppy
<i>Geranium robertianum</i>	Herb Robert (aka Robert Geranium)
<i>Hedera helix</i>	English Ivy
<i>Holcus lanatus</i>	Velvet Grass (aka Yorkshire Fog)
<i>Hordeum jubatum</i>	Foxtail Barley
<i>Ilex aquifolium</i>	English Holly
<i>Lamium purpureum</i>	Purple Deadnettle
<i>Lamiastrum galeobdolon</i> (<i>Lamium</i>)	Yellow Archangel (variegated) (aka Yellow Lamium)
<i>Phalaris arundinacea</i>	Reed Canarygrass (hybridized)
<i>Plantago major</i>	Broad-leaved Plantain
<i>Ranunculus</i> sp. (likely <i>R. repens</i>)	<i>buttercup</i> (likely <i>Creeping Buttercup</i>)
<i>Rubus armeniacus</i>	Armenian Blackberry (aka Himalayan Blackberry)
<i>Rubus laciniatus</i>	Cut-leaf Evergreen Blackberry
<i>Rumex acetosella</i>	Sheep Sorrel
<i>Salicornia europaea</i> (aka <i>Salicornia depressa</i>)	European Annual Saltwort (aka Common Glasswort)
<i>Sonchus arvensis</i>	Perennial Sow-thistle
<i>Tanacetum vulgare</i>	Common Tansy
<i>Vinca minor</i>	Lesser Periwinkle

The list of invasive species that we have confirmed on the ERE will be forwarded to the BCCDC. The list in this report is not intended to be comprehensive; as new species are found, mostly by volunteers, and then confirmed by a biologist, we will continue to update the list and forward the results to others working to compile the information. When this report is released, it will contribute to province-wide efforts to understand and manage invasive species; several of the species we observed were not on invasive species lists for the province as of 21 January 2008 (http://www.geog.ubc.ca/~brian/florae/invasive_sp_list.html)

Appendix 2.4 Non-native species likely to be in Estuary.

Non-native species or taxa likely to be present on Englishman River estuary now or in the near future because of occurrences observed nearby, 2007-2008. Actual occurrence on the estuary would need confirmation.

<i>Arctium</i> sp.	Burdock
<i>Anthriscus sylvestris</i>	Chervil (aka Wild Chervil)
<i>Bidens cernua</i>	Nodding Beggarticks
<i>Capsella bursa-pastoris</i>	Shepherd's Purse
<i>Chenopodium album</i>	Lamb's-quarters
<i>Digitalis purpurea</i>	Foxglove
<i>Erodium cicutarium</i>	Stork's-bill
<i>Galium aparine</i>	Cleavers
<i>Heracleum mantegazzianum</i>	Giant Hogweed
<i>Hypericum perforatum</i>	Common St. John's-wort
<i>Hypochaeris radicata</i>	Cat's-ear
<i>Leucanthemum vulgare</i> (aka <i>Chrysanthemum leucanthemum</i>)	Oxeye Daisy
<i>Plantago lanceolata</i>	Narrow-leaved Plantain
<i>Poa annua</i>	Annual Bluegrass
<i>Ranunculus repens</i>	Creeping Buttercup
<i>Stellaria media</i>	Common Chickweed
<i>Thlaspi arvense</i>	Field Pennycress

Appendix 2.5 – Invasive Plant Watch List

Invasive plant species and taxa to watch
on the Englishman River estuary

<i>Avena fatua</i>	Wild Oat
<i>Cardaria draba ssp. draba</i>	Heart-podded Hoary-cress\
<i>Dipsacus sp.</i>	Teasel
<i>Echinochloa crusgalli</i>	Barnyard Grass
<i>Madia sativa</i>	Coast Tarweed
<i>Matricaria sp.</i>	Pineapple weed
<i>Melilotus sp.</i>	Yellow and White Sweet-clover
<i>Poa compressa</i>	Canada Bluegrass
<i>Poa pratensis</i>	Kentucky Bluegrass
<i>Polygonum convolvulus (aka Fallopia convolvulus)</i>	Wild Buckwheat (aka Black bindweed)
<i>Polygonum cuspidatum</i>	Japanese Knotweed
<i>Polygonum sachalinense</i>	Giant Knotweed
<i>Potamogeton crispus</i>	Curly Pondweed
<i>Rumex crispus</i>	Curled Dock
<i>Senecio jacobaea</i>	Tansy Ragwort
<i>Senecio vulgaris</i>	Common Groundsel
<i>Solanum sp.</i>	Nightshade
<i>Solanum americanum</i>	Black Nightshade
<i>Solanum dulcamara</i>	Climbing Nightshade
<i>Sonchus asper</i>	Prickly Sow-thistle
<i>Sonchus oleraceus</i>	Common Sow-thistle
<i>Sorbus aucuparia</i>	European Mountain-ash
<i>Verbascum thapsus</i>	Great Mullein

Appendix 2.6 Noxious Weed List Recommendations.

Some invasive plant species recommended for provincial and federal legislation such as inclusion
on the (noxious) weed list

<i>Cytiscus scoparius</i>	Scotch Broom
<i>Geranium robertianum</i>	Herb Robert
<i>Hedera helix</i>	English Ivy
<i>Heracleum mantegazzianum</i>	Giant Hogweed
<i>Impatiens noli-tangere</i>	Touch-me-not
<i>Lamium galeobdolon</i>	Yellow Archangel (aka Yellow Lamium)
<i>Vinca minor</i>	Lesser Periwinkle