

# ALBERTA LOTIC WETLAND HEALTH ASSESSMENT

(Derived from the Alberta Lotic Wetland Inventory)

Polygon Number: Record ID No: \_\_\_\_\_

## ADMINISTRATIVE DATA

- A1.** Field Data Collected by (Organization): \_\_\_\_\_
- A2.** Funding Agency/Organization: \_\_\_\_\_
- A3.** Date Field Data Collected: \_\_\_\_\_ **A4.** Year: \_\_\_\_\_ **A5.** Observers: \_\_\_\_\_
- A6a.** Indian or Metis Reserve? (Yes; No): \_\_\_\_\_ **A6b.** Reserve Name: \_\_\_\_\_
- A7a.** Park(s)? (Yes; No): \_\_\_\_\_ **A7b.** Please Check all that apply:  National  Urban or Rural Municipalities  
 Provincial  Other
- A7c.** Name? \_\_\_\_\_
- A8a.** Other Protected Areas? (Yes; No): \_\_\_\_\_ **A8b.** Please check all that apply:  Ecological  Municipal  
 Environmental  Other
- A8c.** Name(s)/Other: \_\_\_\_\_
- A9.** Watershed Group Affiliation: \_\_\_\_\_ **A10.** Project Name: \_\_\_\_\_
- A11.** Is This Private Land? (Yes; No): \_\_\_\_\_ **A11b.** Owner's Name: \_\_\_\_\_
- A12a.** Is This Rented Private Land? (Yes; No): \_\_\_\_\_ **A12b.** Renter's Name: \_\_\_\_\_
- A12c.** Renter's Home Legal Land Description: \_\_\_\_\_ **A12d.** County, if different than polygon: \_\_\_\_\_
- A13a.** Is this Public Land? (Yes; No): \_\_\_\_\_ **A13b.** Type (Federal, Prov., Municipal): \_\_\_\_\_
- A13c.** Land Manager's Name: \_\_\_\_\_ **A13d.** Land Manager's Title, Office/Dept: \_\_\_\_\_
- A14a.** Is this part of a grazing lease or grazing reserve? (Yes; No): \_\_\_\_\_ **A14b.** Lessee Name: \_\_\_\_\_
- A14c.** Agricultural disposition No.: GRL: \_\_\_\_\_ GRP: \_\_\_\_\_ FGL: \_\_\_\_\_ Other: \_\_\_\_\_
- A14d.** Agricultural disposition Name (e.g., Community Pasture): \_\_\_\_\_
- A15a.** Has this polygon been inventoried before? (Yes; No): \_\_\_\_\_ **A15b.** Other years sampled: \_\_\_\_\_
- A15c.** Does this polygon coincide exactly with a previously inventoried polygon? (Yes; No): \_\_\_\_\_
- A15d.** ID No.(s) of other inventories of this exact polygon: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
- A16a.** Does this polygon share common area with other inventoried polygon(s), but is not exact? (Yes; No): \_\_\_\_\_
- A16b.** ID No.(s) of other records sharing area with this polygon: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
- A17a.** Has a change in management occurred? (Yes; No, Unknown): \_\_\_\_\_ If **Yes**, **A17b.** Year changed occurred: \_\_\_\_\_
- A17c.** Type of management change applied: \_\_\_\_\_
- A18.** Primary Contact: \_\_\_\_\_

## LOCATION DATA

- B1.** Province: \_\_\_\_\_ **B2.** County/Municipal District: \_\_\_\_\_
- B3a.** City/Town/Village: \_\_\_\_\_ **B3b.** SubdivPlan #: \_\_\_\_\_ **B3c.** Block #: \_\_\_\_\_ **B3d.** Lot #: \_\_\_\_\_
- B4.** Waterbody Name: \_\_\_\_\_
- B5.** Polygon number: \_\_\_\_\_ **B6.** Side of Waterbody: \_\_\_\_\_
- B7.** Legal Land Locatio 1/4 1/4 Sec: \_\_\_\_\_ 1/4 Sec: \_\_\_\_\_ Section: \_\_\_\_\_ Township (NS): \_\_\_\_\_ Range (EW): \_\_\_\_\_ Meridian: \_\_\_\_\_
- B8a.** Natural Region: \_\_\_\_\_ **B8b.** Sub-Region: \_\_\_\_\_
- B9a.** Major Watershed (e.g. North Saskatchewan River): \_\_\_\_\_
- B9b.** Minor Watershed (e.g. Battle River): \_\_\_\_\_
- B9c.** Sub-basin (e.g. Iron Creek): \_\_\_\_\_
- B10a.** UTM coordinates of polygon Upper end: Easting: \_\_\_\_\_; Northing: \_\_\_\_\_; Zone: \_\_\_\_\_ GPS Projection: \_\_\_\_\_
- B10b.** UTM coordinates of polygon Lower end: Easting: \_\_\_\_\_; Northing: \_\_\_\_\_; Zone: \_\_\_\_\_
- B10c.** UTM coordinates of any other point of interest in the polygon: East: \_\_\_\_\_; North: \_\_\_\_\_; Zone: \_\_\_\_\_
- B10d.** GPS Unit #: \_\_\_\_\_ WPt Upper: \_\_\_\_\_ WPt Lower: \_\_\_\_\_ WPt Other: \_\_\_\_\_
- B10e.** Comments: \_\_\_\_\_
- B11a.** Map Title(s): \_\_\_\_\_
- B11b.** Map Scale: \_\_\_\_\_ **B11c.** Map Year: \_\_\_\_\_
- B12.** Aerial Photo Info: Scale: \_\_\_\_\_ Date: \_\_\_\_\_ Job#: \_\_\_\_\_ Line#: \_\_\_\_\_  
AS#: \_\_\_\_\_ Photo#: \_\_\_\_\_ Other Info: \_\_\_\_\_

**SELECTED SUMMARY DATA**

- C1.** Water body type: \_\_\_\_\_ **C2.** Polygon size (acres): \_\_\_\_\_ ; (hect): \_\_\_\_\_
- C3a.** Is the entire polygon an upland? (Yes; No): \_\_\_\_\_ If **No**, **C3b.** Does the polygon consist entirely of functional wetland types? (Yes; No): \_\_\_\_\_ **C3c.** Functional wetland (acres): \_\_\_\_\_ ; (hect): \_\_\_\_\_ **C3d.** Percent of total polygon: \_\_\_\_\_
- C4.** Does the polygon contain a defined streambank or channel? (Yes; No; NC): \_\_\_\_\_
- C5.** Channel length (mi): \_\_\_\_\_ ; (km): \_\_\_\_\_ **C6.** Number of river miles the polygon represents: \_\_\_\_\_ ; (km): \_\_\_\_\_
- C7.** Average riparian zone width (ft): \_\_\_\_\_ ; (m): \_\_\_\_\_

**C8. Habitat Types and Community Types**

Classification Type Name	Phase	Pct of Poly	Successional Stage or Comments
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**LOTIC WETLAND HEALTH ASSESSMENT SCORE SHEET**  
**(Derived from Lotic Wetland Inventory Form)**

Record ID No: \_\_\_\_\_  
 Polygon Number: \_\_\_\_\_

Actual Score	Possible Score
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- |   |       |       |
|---|-------|-------|
| 1. Vegetative Cover of Floodplain and Streambanks (D12)   | _____ | _____ |
| 2a. Total Canopy Cover of Invasive Plant Species (D13c)   | _____ | _____ |
| 2b. Density Distribution of Invasive Plant Species (D13c) | _____ | _____ |

List Invasive Plant Species present, including Percent Canopy Cover and Density Distribution Class:

	Can.Cov.	Dens.	Dist.		Can.Cov.	Dens.	Dist.		Can.Cov.	Dens.	Dist.
bladder campion:	_____	_____	_____	field bindweed:	_____	_____	_____	spotted knapweed:	_____	_____	_____
blueweed:	_____	_____	_____	leafy spurge:	_____	_____	_____	spreading dogbane:	_____	_____	_____
Canada thistle:	_____	_____	_____	nodding thistle:	_____	_____	_____	tall buttercup:	_____	_____	_____
caragana:	_____	_____	_____	ox-eye daisy:	_____	_____	_____	tamarisk/salt cedar:	_____	_____	_____
cleavers:	_____	_____	_____	perennial sow-thistle:	_____	_____	_____	white cockle:	_____	_____	_____
common hound's-tongue:	_____	_____	_____	purple loosestrife:	_____	_____	_____	yellow toadflax:	_____	_____	_____
common tansy:	_____	_____	_____	Russian knapweed:	_____	_____	_____	Others:	_____	_____	_____
dalmatian toadflax:	_____	_____	_____	Russian olive:	_____	_____	_____	Others:	_____	_____	_____
diffuse knapweed:	_____	_____	_____	scentless chamomile:	_____	_____	_____				
downy chess:	_____	_____	_____	smooth perennial sow-thistle:	_____	_____	_____				
European buckthorn:	_____	_____	_____								

2c. Are there elevated status species for this county? (Yes; No; NC):  
 Elevated Sps 1: \_\_\_\_\_ Elevated Sps 2: \_\_\_\_\_ Elevated Sps 3: \_\_\_\_\_

- |  |       |       |
|--|-------|-------|
| 3. Disturbance-Increaser Undesirable Herbaceous Species (D14b)           | _____ | _____ |
| 4. Tree and Preferred Shrub Species Establishment and Regeneration (D6c) | _____ | _____ |
| 5a. Browse Util. of Preferred Trees and Shrubs (D5a and D6c)             | _____ | _____ |
| 5b. Woody Veg. Removal other than Browsing (D6e)                         | _____ | _____ |
| 6. Decadent and Dead Woody Material (D2b and D6c)                        | _____ | _____ |

**Vegetation Subtotal:** \_\_\_\_\_

- |   |       |       |
|---|-------|-------|
| 7. Streambank Root Mass Protection (F7)                         | _____ | _____ |
| 8. Human-Caused Bare Ground (F15b, c)                           | _____ | _____ |
| 9. Streambank Structurally Altered by Human Activity (F6b)      | _____ | _____ |
| 10. Human Physical Alteration to the Rest of the Polygon (F19b) | _____ | _____ |
| 11. Stream Channel Incisement (F14)                             | _____ | _____ |

**Soil / Hydrology Subtotal:** \_\_\_\_\_

**Overall Polygon Total:** \_\_\_\_\_

**Rating Calculation:**

(Actual Score/Possible Score) X 100 = Rating Percent      Descriptive Category

Vegetation Rating: \_\_\_\_\_ / \_\_\_\_\_ **100 =** \_\_\_\_\_

Soil / Hydrology: \_\_\_\_\_ / \_\_\_\_\_ **100 =** \_\_\_\_\_

**OVERALL:** \_\_\_\_\_ / \_\_\_\_\_ **100 =** \_\_\_\_\_

Rating Percent Range	Descriptive Category
80-100	Proper Functioning Condition (Healthy)
60-79	Functional At Risk (Healthy, but with Problems)
<60	Nonfunctional (Unhealthy)

Streambank Susceptibility Rating—using the streambank rock volume and streambank rock size criteria, indicate the appropriate choice (well armored; susceptible to degradation; highly susceptible to degradation):

Trend Comments (Improving; Degrading; Static; Status Unknown): \_\_\_\_\_

