

ALBERTA LOTIC WETLAND HEALTH ASSESSMENT (STREAMS/SMALL RIVERS)

Record ID No: _____

(Derived from the Alberta Lotic Wetland Inventory)

Polygon No: _____

ADMINISTRATIVE DATA

A1. Field Data Collected by (Organization): _____

A2a. Funding Agency/Organization: _____

A2b. Funding Source/Grant: _____

A3. Date Field Data Collected: _____ **A4.** Year: _____ **A5.** Observers: _____

A6a. Is this site representative? If **Yes**, **A6b.** choose category: _____

A6c. How was this site chosen? _____

A7a. Park(s)? (Yes; No): **A7b.** Please Check all that apply: National Urban or Rural Municipalities

A7c. Name? _____ Provincial Other

A8a. Other Protected Areas? (Yes; No): **A8b.** Please check all that apply: Ecological Conservation Easement

A8c. Name(s)/Other: _____ Environmental Other

Municipal

A9. Watershed Group Affiliation: _____ **A10.** Project Name: _____

A11a. 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 Mgr's Name(s): _____ **A13d.** Title, Office and/or Dept. of Land Mgr(s): _____

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. Is this land part of a Public Land Use Zone (PLUZ)? (Yes; No): **A15b.** PLUZ Name: _____

A16a. Has this polygon been inventoried before? (Yes; No): **A16b.** Other years sampled: _____

A16c. Does this polygon coincide exactly with a previously inventoried polygon? (Yes; No):

A16d. ID No.(s) of other inventories of this exact polygon: _____, _____, _____, _____, _____

A17a. Does this polygon share common area with other inventoried polygon(s), but is not exact? (Yes; No):

A17b. ID No.(s) of other records sharing area with this polygon: _____, _____, _____, _____

A18a. Has a change in management occurred? (Yes; No, Unknown): If **Yes**, **A18b.** Year changed occurred: _____

A18c. Type of management change applied: _____

A19. Primary Contact (Include agency name): _____

LOCATION DATA

B1. Province: _____ **B2.** Municipality or Reserve Type: _____

B3a. Indian Reserve: _____ **B3b.** Military Reserve: _____

B4a. Rural or Specialized Municipality: _____ **B4b.** Hamlet: _____

B5a. City/Town/Village: _____ **B5b.** SubdivPlan #: _____ **B5c.** Block #: _____ **B5d.** Lot #: _____

B6a. Waterbody Name: _____ **B6b.** Side of Waterbody: _____

B7. Legal Land 1/4 1/4 Sec: _____ 1/4 Sec: _____ Section: _____ Township (NS): _____ Range (EW): _____ Meridian: _____
Location: _____

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: _____

B10b. UTM coordinates of polygon Lower end: Easting: _____; Northing: _____; Zone: _____

B10c. TRIMBLE/GPS Unit #: _____ WPt Upper: _____ WPt Lower: _____ Projection: _____

B10d. Comments: _____

B11a. Map Title(s): _____

B11b. Map Scale: _____ **B11c.** Map Year: _____

B12. Aerial Photo Info: Scale: _____ Date: _____ 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: (mi) _____ ; (km): _____
- C7a.** Average polygon width (usually same as width of the riparian zone) (ft): _____ ; (m): _____
- C7b.** Riparian zone width range (ft): _____ to _____ ; (m): _____ to _____
- C7c.** Riparian area along a stream or small river (less than 15 m wide) or along a river (greater than 15 m wide): _____

C8. Habitat Types and Community Types

Classification Type Name	Phase	Pct of Poly	Successional Stage or Comments/Guides Used
_____	_____	_____	_____
_____	_____	_____	_____

LOTIC WETLAND HEALTH ASSESSMENT SCORE SHEET FOR STREAMS/SMALL RIVERS
 (Derived from Lotic Wetland Inventory Form)

Record ID No: _____

Polygon Number: _____

Actual Score **Possible Score**

- 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:			
	CC	DD	
black henbane (HYOSNIG):	_____	_____	downy brome/chess (BROMTEC):
blueweed (ECHIVUL):	_____	_____	European buckthorn (RHAMCAT)*:
broad-leaved pepper-grass (LEPILAT):	_____	_____	field bindweed (CONVARV):
Canada thistle (CIRSARV):	_____	_____	field scabious blue buttons(KNAUARV):
caraganna (CARAARB):	_____	_____	great burdock(ARCTLAP):
cleavers (GALIAPA):	_____	_____	heart-podded hoary cress(CARDDRA):
common baby's-breath (GYPSAN):	_____	_____	Himalayan balsam (IMPAGLA):
common barberry (BERBVUL):	_____	_____	Japanese brome/chess (BROMJAP):
common burdock (ARCTMIN):	_____	_____	leafy spurge (EUPHESU):
common hound's-tongue (CYNOOFF):	_____	_____	lens-podded hoary cress (CARDCHA):
common mullein (VERBTHA):	_____	_____	marsh thistle (CIRSPAL)*:
common tansy (TANAVUL):	_____	_____	meadow hawkweed (HIERCAE)*:
creeping bellflower (CAMPRAP):	_____	_____	meadow knapweed (CENTMON):
Dalmatian Toadflax (LINADAL):	_____	_____	mouse-ear hawkweed (HIERPIL):
dame's rocket (HESPMAT):	_____	_____	nodding thistle (CARDNUT)*:
diffuse knapweed (CENTDIF):	_____	_____	orange hawkweed(HIERAUR)*:
			ox-eye daisy (CHRYLEU):
			pale yellow iris (irisps)*:
			perennial Sowthistle (SONCARV):
			purple loosestrife (LYTHSAL):
			Russian knapweed (CENTREP):
			Russian olive (ELAEANG):
			saltlover (HALOGLO):
			scentless chamomile (MATRPER):
			smth peren.sowthistle(SONCULI):
			spotted knapweed (CENTMAC)*:
			tall buttercup (RANUACR):
			tamarisk/salt cedar (TAMACHI):
			tufted vetch (SILEPRA):
			white cockle (SILEPRA):
			woolly burdock (ARCTTOM):
			yellow clematis (CLEMTAN):
			yellow toadflax (LINAVUL):
			Others: _____

2c. Are there elevated status species for this county? (Yes; No; NC): _____ 2d. If **Yes**, indicate species, elevated status, CC and DD: _____

- 3. Disturbance-Increaser Undesirable Herbaceous Species (D14b) _____
- 4. Preferred Tree and Shrub Establishment and Regeneration (D2 and D6c) _____
- 5a. Browse Util. of Preferred Trees and Shrubs (D5a and D6c) _____
- 5b. Woody Veg. Removal other than Browsing (D6e) _____
- 6. Standing Decadent and Dead Woody Material (D2b and D6c) _____

Vegetation Subtotal: _____

- 7. Streambank Root Mass Protection (F7) _____
- 8. Human-Caused Bare Ground (F15c) _____
- 9. Streambank Structurally Altered by Human Activity (F6b) _____
- 10. Human Physical Alteration to the Rest of the Polygon (F19d) _____
- 11. Stream Channel Incisement (F14) _____

Soil / Hydrology Subtotal: _____

Rating Calculation: **Overall Polygon Total:** _____

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

Vegetation Rating: _____ / _____ x 100 = _____

Soil / Hydrology: _____ / _____ x 100 = _____

OVERALL: _____ / _____ x 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): _____

D16a. Polygon trend: Improving, Degrading, Static, or Status Unknown? _____
 (If "status unknown" answer NA to the sub-questions D16b and D16c)

SELECTED COMMENTARY FIELDS FROM THE POLYGON LOTIC INVENTORY FORM

D16b. Has management influenced trend? (Yes; No; Unknown; NC; NA): _____

D16c. Describe how health parameters have changed and justify your call.

D17. Explain trend description and give other vegetation comments:

F24. Physical site comments (Summarizing characteristics or problems not evident from the data collected. Included are topics related to any of the optional data. Consider current and historic attributes resulting from human-caused and natural processes.):

F25. Detailed description of upper and lower ends of the polygon:
