

**ALBERTA LOTIC WETLAND HEALTH ASSESSMENT
FOR STREAMS AND SMALL RIVERS (Survey)**

Record ID No: _____

Polygon No: _____

ADMINISTRATIVE DATA

- A1.** Field Data Collected by (Organization): _____
- A2.** Funding Agency/Organization: _____
- 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
 Provincial Other
- A7c.** Name? _____
- A8a.** Other Protected Areas? (Yes; No): _____ **A8b.** Please check all that apply: Ecological Conservation Easement
 Environmental Other
 Municipal
- 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 (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.** Polygon length (river miles, usually the same as channel length) (mi): _____ ; (km): _____
- C6.** Number of river miles the polygon represents: _____ ; (km): _____
- C7a.** Average polygon width (usually same as width of the riparian zone) (ft): _____ ; (m): _____
- C7b.** Riparian zone width range (ft): _____ to _____ ; (m): _____ to _____

C8. Habitat Types and Community Types

Classification Type Name	Phase	Percent of Polygon	Successional Stage or Comments/Guides Used
_____	_____	_____	_____
_____	_____	_____	_____

ADDITIONAL SITE CHARACTERISTICS

- D1a.** Does the polygon has potential for tall woody type(s)? (Yes, No): _____
- D1b.** Does the polygon has tall woody type(s) present? (Yes, No): _____
- D2a.** Tree **AND** shrub removal by other than browse: None (0-5%); Light (6-25%); Moderate (26-50%); Heavy (>50%); NA; NC: _____
- D2b.** Basis of Call: _____
- D3.** Waterbody number (FMIS/Hydro code): _____
- D4a.** Is water quality data available on this waterbody? (Yes, No, Unknown, NA): _____
- If **Yes**, **D4b.** Describe the reference for that data (name, year, etc.): _____

LOTIC WETLAND HEALTH ASSESSMENT SCORE SHEET

Polygon Number: _____ Data Record ID: _____

	Actual Score	Possible Score	Comment
1. Vegetative Cover of Floodplain and Streambanks	_____	_____	_____
2a. Total Canopy Cover of Invasive Plant Species	_____	_____	_____
2b. Density Distribution of Invasive Plant Species	_____	_____	_____

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.
blueweed:	_____	_____	_____	field bindweed:	_____	_____	_____	spotted knapweed:	_____	_____	_____
Canada thistle:	_____	_____	_____	leafy spurge:	_____	_____	_____	tall buttercup:	_____	_____	_____
caragana:	_____	_____	_____	nodding thistle:	_____	_____	_____	tamarisk/salt cedar:	_____	_____	_____
cleavers:	_____	_____	_____	ox-eye daisy:	_____	_____	_____	white cockle:	_____	_____	_____
common burdock:	_____	_____	_____	perennial sow-thistle:	_____	_____	_____	yellow toadflax:	_____	_____	_____
common hound's-tongue:	_____	_____	_____	purple loosestrife:	_____	_____	_____				
common tansy:	_____	_____	_____	Russian knapweed:	_____	_____	_____				
Dalmatian Toadflax:	_____	_____	_____	Russian olive:	_____	_____	_____	Others:	_____	_____	_____
diffuse knapweed:	_____	_____	_____	scentless chamomile:	_____	_____	_____	Others:	_____	_____	_____
downy ches:	_____	_____	_____	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	_____	_____	_____
4. Preferred Tree and Shrub Establishment and Regeneration	_____	_____	_____
5a. Browse Util. of Preferred Trees and Shrubs	_____	_____	_____
5b. Woody Veg. Removal other than Browsing	_____	_____	_____
6. Standing Decadent and Dead Woody Material	_____	_____	_____
Vegetation Subtotal: _____			
7. Streambank Root Mass Protection	_____	_____	_____
8. Human-Caused Bare Ground	_____	_____	_____
9. Streambank Structurally Altered	_____	_____	_____
10. Human Physical Alteration to the Rest of the Polygon	_____	_____	_____
11. Stream Channel Incisement	_____	_____	_____

Soil/Hydrology Subtotal: _____

Overall Polygon Total: _____

RATING CALCULATION

(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)

WAYPOINT DATA/Polygon Boundary Descriptions

Polygon Number: _____ Record ID No: _____

E1. Detailed description of upper and lower ends and width (lateral boundaries) of the polygon (previously F28):

E2. NON-PHOTO WAYPOINTS related to polygon (lateral extent, weed patches, etc.)

TRIMBLE/GPS Unit #: _____ User Name:: _____

Waypoint name: _____ Easting: _____ Northing: _____ Zone: _____

Waypoint Description: _____

Waypoint name: _____ Easting: _____ Northing: _____ Zone: _____

Waypoint Description: _____

Waypoint name: _____ Easting: _____ Northing: _____ Zone: _____

Waypoint Description: _____

Waypoint name: _____ Easting: _____ Northing: _____ Zone: _____

Waypoint Description: _____

Waypoint name: _____ Easting: _____ Northing: _____ Zone: _____

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Waypoint Description: _____

Waypoint name: _____ Easting: _____ Northing: _____ Zone: _____

Waypoint Description: _____

Waypoint name: _____ Easting: _____ Northing: _____ Zone: _____

Waypoint Description: _____

Waypoint name: _____ Easting: _____ Northing: _____ Zone: _____

Waypoint Description: _____

PHOTOGRAPH DATA (Do not exceed 40 photos per polygon)

F1. Identification of photos (taken at the *Upstream end of polygon*):

Photographer: _____ **Camera Number:** _____ **TRIMBLE/GPS Unit #:** _____

Benchmarks Upper End: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: Degrees: Upstream views/OUT of polygon

Photo #: Degrees: Downstream views/INTO polygon

F2. Identification of photos (taken at the *Downstream end of polygon*):

Photographer: _____ **Camera Number:** _____ **TRIMBLE/GPS Unit #:** _____

Benchmarks Lower End: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: Degrees: Downstream views/OUT of polygon:

Photo #: Degrees: Upstream views/INTO polygon:

F3. Additional Photos and Locations:

Photographer: _____ **Camera Number:** _____ **TRIMBLE/GPS Unit #:** _____

Photo Location 1: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: Degrees: Describe photo and waypoint location:

Polygon Number: _____ Record ID No: _____

Photographer: _____ Camera Number: _____ TRIMBLE/GPS Unit #: _____

Photo Location 2: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: _____ Degrees: _____ Describe photo and waypoint location:

Photo Location 3: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: _____ Degrees: _____ Describe photo and waypoint location:

Photo Location 4: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: _____ Degrees: _____ Describe photo and waypoint location:

Photo Location 5: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: _____ Degrees: _____ Describe photo and waypoint location:

Photo Location 6: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: _____ Degrees: _____ Describe photo and waypoint location:

Photo Location 7: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: _____ Degrees: _____ Describe photo and waypoint location:

Polygon Number: _____ Record ID No: _____

Photographer: _____ **Camera Number:** _____ **TRIMBLE/GPS Unit #:** _____

Photo Location 8: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: Degrees: Describe photo and waypoint location:

Photo Location 9: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: Degrees: Describe photo and waypoint location:

Photo Location 10: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: Degrees: Describe photo and waypoint location:

Photo Location 11: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: Degrees: Describe photo and waypoint location:

Photo Location 12: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: Degrees: Describe photo and waypoint location:

Polygon Number: _____ Record ID No: _____

Photographer: _____ Camera Number: _____ TRIMBLE/GPS Unit #: _____

Photo Location 13: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: _____ Degrees: _____ Describe photo and waypoint location:

Photo Location 14: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: _____ Degrees: _____ Describe photo and waypoint location:

Photo Location 15: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: _____ Degrees: _____ Describe photo and waypoint location:

Photo Location 16: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: _____ Degrees: _____ Describe photo and waypoint location:

Photo Location 17: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: _____ Degrees: _____ Describe photo and waypoint location:

Photo Location 18: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: _____ Degrees: _____ Describe photo and waypoint location:

Polygon Number: _____ Record ID No: _____

Photographer: _____ Camera Number: _____ TRIMBLE/GPS Unit #: _____

Photo Location 19: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: _____ Degrees: _____ Describe photo and waypoint location:

Photo Location 20: Waypoint name: _____ Easting _____ Northing _____ Zone _____

Photo #: _____ Degrees: _____ Describe photo and waypoint location:

F3a. Additional LOTIC photo page entered? (Yes; No): _____

F4a. Is there an adjacent polygon *upstream* of this polygon? (Yes; No): _____ **F4b.** AdJ Polygon Name U/S: _____

F5a. Is there an adjacent polygon *downstream* of this polygon? (Yes; No): _____ **F5b.** AdJ Polygon Name D/S: _____

F6. Film and Camera Specs: Camera Type: _____ Film Speed(ASA)/Image Quality (dpi): _____

Lens dia. (mm): _____ Lens foc. len. (mm): _____ Filter used (polarizer or none): _____