

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

Polygon No. _____ Record ID No: _____

ADMINISTRATIVE DATA

- A1.** Field data collected by (Organisation): _____
- A2.** Funding Agency/Organisation: _____
- A3a.** Indian or Metis Reserve? (Yes; No): _____ If **Yes**, Reserve Name: _____
- A3b.** National or Provincial Park, Preserve, or Sanctuary? (Yes; No): _____
If **Yes**, Name: _____
- A3c.** Environmental or Municipal Reserve (Exclude national or provincial reserves)? (Yes; No): _____
If **Yes**, Name: _____
- A3d.** Private or Deeded Land? (Yes; No): _____ **A4.** Observers: _____
- A5a.** Date field data collected: _____ **A5b.** Year: _____ **A6a.** Grazing lease or grazing reserve? (Yes; No): _____
If **Yes**, **A6b.** Grazing disposition No.: GRL: _____ GRP: _____
FGL: _____ Other: _____
- A6c.** Other Grazing Name (e.g. Community Pasture): _____
- A7a.** Is this the latest inventory for this polygon? (Yes; No): _____
- A7b.** At least some part of this polygon has been inventoried more than once (resampled)? (Yes; No): _____
If **No**, Go to item B1. If **Yes**, **A7c.** This polygon coincides exactly with another inventoried polygon? (Yes; No): _____
If **No**, Go to item **A7f.** If **Yes**, **A7d.** Other years sampled: _____
- A7e.** ID No.(s) of other inventories of this exact polygon: _____, _____, _____, _____, _____
- A7f.** This polygon shares common area with other inventoried polygon(s), but is not exact? (Yes; No): _____
- A7g.** Other years: _____
- A7h.** ID No.(s) of other records sharing area with this polygon: _____, _____, _____, _____, _____
- A8a.** Has a change in management occurred? (Yes; No, Unknown): _____ If **Yes**, **A8b.** Year changed occurred: _____
- A8c.** Type of management change applied: _____

LOCATION DATA

- B1.** Province: _____ **B2a.** Natural Region: _____ **B2b.** Sub-Region: _____
- B3.** County/Municipal District: _____ **B4a.** City/Town/Village: _____
B4b. Subdivision Plan No.: _____ **B4c.** Block No.: _____ **B4d.** Lot No.: _____
- B5.** Allotment/Range Unit/Landowner/Lessee Name: _____
- B6.** Waterbody/Area Name: _____ **B7.** Polygon number: _____
- B8.** Location: 1/4 1/4 Sec: _____ 1/4 Sec: _____ Sec: _____
Township (NS): _____ Range (EW): _____ Meridian: _____ **B9.** Elev. (ft): _____ ; (m): _____
- B10a.** Major Watershed (e.g. North Saskatchewan River): _____
- B10b.** Minor Watershed (e.g. Battle River): _____
- B10c.** Minor Watershed Area (km²): _____ ; (hect): _____ **B10d.** Minor Watershed Perimeter (km): _____
- B10e.** Sub-basin (e.g. Iron Creek): _____
- B11a.** UTM coordinates of polygon UPPER END: Easting: _____ ; Northing: _____ ; Zone: _____
- B11b.** UTM coordinates of polygon LOWER END: Easting: _____ ; Northing: _____ ; Zone: _____
- B11c.** UTM coordinates of any other point of interest in the polygon: East: _____ ; North: _____ ; Zone: _____
- B11d.** GPS Unit #: _____ WPt Upper: _____ WPt Lower: _____ WPt Other: _____
- B11e.** Comments: _____

- B12a.** Map Title(s): _____
- B12b.** Map Scale: _____ **B12c.** Map Year: _____
- B13.** Aerial Photo Info: Scale: _____ Date: _____ Job#: _____ Line#: _____
AS#: _____ Photo#: _____ Other Info: _____

SELECTED SUMMARY DATA

Record ID No: _____

- 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): _____
- C7.** Average polygon width (usually same as width of the riparian zone) (ft): _____ ; (m): _____

C8. Habitat Types And Community Types

Classification Type Name	Phase	Pct of Poly	Successional Stage or Comments
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OPTIONAL 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): _____
- D2.** Waterbody number (FMIS/Hydro code): _____
- D3a.** Is water quality data available on this waterbody? (Yes, No, Unknown, NA): _____
If **Yes**, **D3b.** Describe the reference for that data (name, year, etc.): _____

LOTIC WETLAND HEALTH ASSESSMENT SCORE SHEET

Data Record ID: _____

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

	Species	Can.Cov.	Dens.Dist.
List Invasive Plant Species present, including Percent Canopy Cover and Density Distribution Class:	1. _____	_____	_____
	2. _____	_____	_____
	3. _____	_____	_____
	4. _____	_____	_____
	5. _____	_____	_____

3. Disturbance-increaser Undesirable Herbaceous Species	_____	_____	_____
4. Tree and Preferred Shrub Species Establishment and Regeneration	_____	_____	_____
5. Utilization of Tree and Preferred Shrub Species	_____	_____	_____
6. Standing Decadent and Dead Woody Material	_____	_____	_____

Vegetation Subtotal: _____

7. Streambank Root Mass Protection	_____	_____	_____
8. Human-Caused Bare Ground	_____	_____	_____
9. Streambank Structurally Altered	_____	_____	_____
10. Pugging and/or Hummocking	_____	_____	_____
11. Stream Channel Incisement	_____	_____	_____

Soil/Hydrology Subtotal: _____

Overall Polygon Total: _____

12. Comments and Observations:

RATING CALCULATION

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

Descriptive Category

Vegetation Rating: _____ / _____ **x100 =** _____

Soil / Hydrology: _____ / _____ **x100 =** _____

Total Rating: _____ / _____ **x100 =** _____

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

ADDITIONAL MANAGEMENT CONCERNS (OPTIONAL)

Data Record ID: _____

The following items do not contribute to a site's score. Rather they help to quantify inherent physical site characteristics or assess the direction of change on a site. These data can be useful for planning future site management.

13a. Streambank rock volume: _____

13b. Streambank rock size: _____

14. Vegetation use by animals: _____

15. Susceptibility of parent material to erosion: _____

16. Percent of streambank accessible to livestock: _____

17. Polygon trend (Is the polygon: Improving, Degrading, Static, or Status Unknown?): _____

18. Break down the polygon area into the land uses listed (must total to approx. 100%):

- No land use apparent: _____
- Turf grass (lawn): _____
- Tame pasture (grazing): _____
- Native pasture (grazing): _____
- Recreation (ATV paths, campsites, etc.): _____
- Development (buildings, corrals, paved lots, etc.): _____
- Tilled cropping: _____
- Perennial forage (e.g., alfalfa hayland): _____
- Roads: _____
- Logging: _____
- Mining: _____
- Railroads: _____
- Other: _____

Description of Other Usage Noted: _____

19. Break down the area adjacent to the polygon into the land uses listed (must total to approx. 100%):

- No land use apparent: _____
- Turf grass (lawn): _____
- Tame pasture (grazing): _____
- Native pasture (grazing): _____
- Recreation (ATV paths, campsites, etc.): _____
- Development (buildings, corrals, paved lots, etc.): _____
- Tilled cropping: _____
- Perennial forage (e.g., alfalfa hayland): _____
- Roads: _____
- Logging: _____
- Mining: _____
- Railroads: _____
- Other: _____

Description of Other Usage Noted: _____
