

ALBERTA LENTIC WETLAND HEALTH ASSESSMENT (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 North/East/South/West END: _____ Easting: _____; Northing: _____; Zone: _____

B10b. UTM coordinates of polygon North/East/South/West END: _____ Easting: _____; Northing: _____; Zone: _____
GPS Projection: _____

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

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 shoreline? (Yes; No; NC): _____

C5. Polygon length (mi): _____ ; (km): _____ **C6.** Number of miles the polygon represents: _____ ; (km): _____

C7a. Average polygon width (ft): _____ ; (m): _____

C7b. Polygon wetland 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
_____	_____	_____	_____
_____	_____	_____	_____

OPTIONAL PHYSICAL 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): _____

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.): _____

D4. Detailed description of upper and lower ends and width (lateral boundaries) of the polygon:

LENTIC WETLAND HEALTH ASSESSMENT SCORE SHEET

Data Record ID: _____

Polygon Number: _____

	Actual Score	Possible Score	Comment
1. Vegetative Cover of the Polygon	_____	_____	_____
2a. Invasive Plant Species Canopy Cover	_____	_____	_____
2b. Invasive Plant Species Density Distribution	_____	_____	_____

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 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:	_____
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3. Disturbance-increaser Undesirable Herbaceous Species	_____	_____	_____
4. Preferred Tree and Shrub Establishment and Regeneration	_____	_____	_____
5a. Browse Util. of Preferred Trees and Shrub	_____	_____	_____
5b. Woody Veg. Removal other than Browsin	_____	_____	_____
6. Human Alteration of Polygon Vegetation	_____	_____	_____
Vegetation Subtotal:	_____	_____	_____
7a. Percent of Polygon Physical Site Alterec By Human Cause	_____	_____	_____
7b. Severity of Human Caused Alteration of Polygon Physical Site	_____	_____	_____
8. Human-Caused Bare Ground	_____	_____	_____
9. Degree of Artificial Change of Water Level	_____	_____	_____

Soil/Hydrology Subtotal: _____

Overall Polygon Total: _____

RATING CALCULATION

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

Descriptive Category

Vegetation Rating: _____ / _____ **100** = _____

Soil / Hydrology Rating: _____ / _____ **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)

ADDITIONAL MANAGEMENT CONCERNS (OPTIONAL)

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.

10a. Polygon trend (Is the polygon: Improving, Degrading, Static, or Status Unknown?): _____
(If “status unknown” answer NA to the sub-questions 10b and 10c)

10b. Has management influenced trend? (Yes; No; Unknown; NC; NA): _____

10c. Describe how health parameters have changed and justify your call.

11. Overflow structure stability: _____
Overflow structure location: _____

12a. Shoeline rock volume: _____

12b. Shoreline rock size: _____

13. Vegetation use by animals: _____

14. Susceptibility of parent material to erosion: _____

15. Percent of shoreline accessible to large animals: _____

16. Quantify the percent of tree and shrub cover on the polygon that is dead and/or decadent: _____

- 17. Primary Land Use Sector:**
- ___ Agriculture
 - ___ Commercial
 - ___ Energy (Oil, Gas, Coal)
 - ___ Industrial (excl. other types listed)
 - ___ Forestry
 - ___ Recreation (excl. other types listed)
 - ___ Parks/Protected Areas
 - ___ Residential (excl. other types)
 - ___ Rural Residential (excl. other types listed)
 - ___ Acreage (excl. other types listed)
 - ___ Lakefront/Waterfront (excl. other types listed)
 - ___ Transportation
 - ___ Utility
 - ___ Institutional
 - ___ Military
 - ___ Open/Vacant
 - ___ Other _____

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

	a) Polygon	b) Adjacent
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. Comments and Observations:

E1. 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)

Photographer: _____ Camera Number: _____

F1a. Benchmark photos (taken at the centre, north, east, south or west end of the polygon): _____
(Only record center photo in G1)

F1b. Inner benchmark (taken at edge of open water or emergent vegetation if accessible and applicable)

Benchmark Waypoint (BI): _____ Easting: _____ Northing: _____ Zone: _____

Photo #: **OUT** of Polygon (describe view):

_____ View _____

_____ View _____

_____ View _____

_____ View _____

Photo #: **INTO** Polygon (describe view):

_____ View _____

_____ View _____

_____ View _____

_____ View _____

F1c. Secondary inner benchmark if needed; taken at future repeatable location

If centre photo taken in G1, include location on polygon of secondary benchmark (taken at north, east, south or west end of polygon): _____

Photo Waypoint (BM): _____ Easting: _____ Northing: _____ Zone: _____

Photo #: **OUT** of Polygon (describe view):

_____ View _____

_____ View _____

_____ View _____

_____ View _____

Photo #: **INTO** Polygon (describe view):

_____ View _____

_____ View _____

_____ View _____

_____ View _____

F1d. Lateral benchmark (benchmarks taken at the lateral extent of the polygon)

If centre photo taken in G1, include location on polygon of lateral benchmark (taken at north, east, south or west end of polygon): _____

Photo Waypoint (BL): _____ Easting: _____ Northing: _____ Zone: _____

Photo #: **OUT** of Polygon (describe view):

_____ View _____

_____ View _____

_____ View _____

_____ View _____

Photo #: **INTO** Polygon (describe view):

_____ View _____

_____ View _____

_____ View _____

_____ View _____

Polygon Number: _____ Record ID No: _____

Photographer: _____ Camera Number: _____

F2a. Benchmark photos (taken at the north, east, south or west end of the polygon): _____

F2b. Inner benchmark (taken at edge of open water or emergent vegetation if accessible and applicable)

Benchmark Waypoint (BI): _____ Easting: _____ Northing: _____ Zone: _____

Photo #: **OUT** of Polygon (describe view):

_____ View _____
_____ View _____
_____ View _____
_____ View _____

Photo #: **INTO** Polygon (describe view):

_____ View _____
_____ View _____
_____ View _____
_____ View _____

F2c. Secondary inner benchmark if needed; taken at future repeatable location

If centre photo taken in G1, include location on polygon of secondary benchmark (taken at north, east, south or west end of polygon): _____

Photo Waypoint (BM): _____ Easting: _____ Northing: _____ Zone: _____

Photo #: **OUT** of Polygon (describe view):

_____ View _____
_____ View _____
_____ View _____
_____ View _____

Photo #: **INTO** Polygon (describe view):

_____ View _____
_____ View _____
_____ View _____
_____ View _____

F2d. Lateral benchmark (benchmarks taken at the lateral extent of the polygon)

If centre photo taken in G1, include location on polygon of lateral benchmark (taken at north, east, south or west end of polygon): _____

Photo Waypoint (BL): _____ Easting: _____ Northing: _____ Zone: _____

Photo #: **OUT** of Polygon (describe view):

_____ View _____
_____ View _____
_____ View _____
_____ View _____

Photo #: **INTO** Polygon (describe view):

_____ View _____
_____ View _____
_____ View _____
_____ View _____

F3a. Is there an adjacent polygon north and/or west of this polygon ? (Yes; No): _____ **F3b.** Adj. polygon name N/W: _____

F4a. Is there an adjacent polygon south and/or east of this polygon ? (Yes; No): _____ **F4b.** Adj. polygon name S/E: _____

F5. 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:

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:

Polygon Number: _____ Record ID No: _____

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

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

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

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:

F6. Additional LENTIC photo page entered (Yes: No): _____ Lens filter used: _____