

# ALBERTA LENTIC WETLAND HEALTH ASSESSMENT

(Derived from Alberta Lentic Wetland Inventory)

Record ID No: \_\_\_\_\_

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  
 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: \_\_\_\_\_
- 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 N/E/S/W END: \_\_\_\_\_ Easting: \_\_\_\_\_ ; Northing: \_\_\_\_\_ ; Zone: \_\_\_\_\_
- B10b.** UTM coordinates of polygon N/S/E/W END: \_\_\_\_\_ Easting: \_\_\_\_\_ ; Northing: \_\_\_\_\_ ; Zone: \_\_\_\_\_
- B10c.** TRIMBLE/GPS Unit #: \_\_\_\_\_ WPT END N/E/S/W: \_\_\_\_\_ WPT END N/E/S/W: \_\_\_\_\_
- 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 wetland width (ft): \_\_\_\_\_ ; (m): \_\_\_\_\_

**C7b.** Polygon wetland width range (ft): \_\_\_\_\_ to \_\_\_\_\_ ; (m): \_\_\_\_\_ to \_\_\_\_\_

**C8. Habitat Types and Community Types**

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

**LENTIC WETLAND HEALTH SCORESHEET**

**Note:** Numbers in parentheses refer to Lentic Wetland Inventory Form Items holding data being rated.

	Actual Score	Possible Score
1. Vegetative Cover of the Polygon (D12)	_____	_____
2a. Invasive Plant Species Canopy Cover (D13c)	_____	_____
2b. Invasive Plant Species Density Distribution (D13c)	_____	_____

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

	CC	DD		CC	DD		CC	DD
black henbane (HYOSNIG):	_____	_____	downy brome/chess (BROMTEC):	_____	_____	pale yellow iris (irispspe)*:	_____	_____
blueweed (ECHIVUL):	_____	_____	European buckthorn (RHAMCAT)*:	_____	_____	perennial Sowthistle (SONCARV):	_____	_____
broad-leaved pepper-grass (LEPILAT):	_____	_____	field bindweed (CONVARV):	_____	_____	purple loosestrife (LYTHSAL):	_____	_____
Canada thistle (CIRSARV):	_____	_____	field scabious blue buttons(KNAUARV):	_____	_____	Russian knapweed (CENTREP):	_____	_____
caraganna (CARAARB):	_____	_____	great burdock(ARCTLAP):	_____	_____	Russian olive (ELAEANG):	_____	_____
cleavers (GALIAPA):	_____	_____	heart-podded hoary cress(CARDDRA):	_____	_____	saltlover (HALOGLO):	_____	_____
common baby's-breath (GYSPAN):	_____	_____	Himalayan balsam (IMPAGLA):	_____	_____	scentless chamomile (MATRPER):	_____	_____
common barberry (BERBVUL):	_____	_____	Japanese brome/chess (BROMJAP):	_____	_____	smth peren.sowthistle(SONCULI):	_____	_____
common burdock (ARCTMIN):	_____	_____	leafy spurge (EUPHESU):	_____	_____	spotted knapweed (CENTMAC)*:	_____	_____
common hound's-tongue (CYNOOFF):	_____	_____	lens-podded hoary cress (CARDCHA):	_____	_____	tall buttercup (RANUACR):	_____	_____
common mullein (VERBTHA):	_____	_____	marsh thistle (CIRSPAL)*:	_____	_____	tamarisk/salt cedar (TAMACHI):	_____	_____
common tansy (TANAVUL):	_____	_____	meadow hawkweed (HIERCAE)*:	_____	_____	tufted vetch (SILEPRA):	_____	_____
creeping bellflower (CAMPRAP):	_____	_____	meadow knapweed (CENTMON):	_____	_____	white cockle (SILEPRA):	_____	_____
Dalmatian Toadflax (LINADAL):	_____	_____	mouse-ear hawkweed (HIERPIL):	_____	_____	woolly burdock (ARCTTOM):	_____	_____
dame's rocket (HESPMAT):	_____	_____	nodding thistle (CARDNUT)*:	_____	_____	yellow clematis (CLEMTAN):	_____	_____
diffuse knapweed (CENTDIF):	_____	_____	orange hawkweed(HIERAUR)*:	_____	_____	yellow toadflax (LINAVUL):	_____	_____
			ox-eye daisy (CHRYLEU):	_____	_____	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 (D3 and D6c)	_____	_____
5a. Browse Util. of Preferred Trees and Shrubs (D5a and D6c)	_____	_____
5b. Woody Veg. Removal other than Browsing (D6e)	_____	_____
6. Human Alteration of Polygon Vegetation (F8a)	_____	_____

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

7a. Percent of Polygon Physical Site Altered By Human Cause (F9a)	_____	_____
7b. Severity of Human Caused Alteration of Polygon Physical Site (F9d)	_____	_____
8. Human-Caused Bare Ground (F10c)	_____	_____
9. Degree of Artificial Change of Water Level (F4)	_____	_____

**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 = _____	_____
<b>OVERALL:</b>	_____ / _____	x 100 = _____	_____

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

**ADDITIONAL MANAGEMENT CONCERNS (OPTIONAL)**

	Actual Score	Possible Score
12. Overflow structure stability:	_____	_____
13. 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 LENTIC 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:  
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**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.):  
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**F25.** Detailed description of upper and lower ends of the polygon:  
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