Appendix 2

Field useable copy of the "*Spiranthes diluvialis* Transect Establishment and Environmental Description Data Form"

Spiranthes diluvialis Transect Establishment and Environmental Description Data Form

Date _____ Observer(s) _____

Element Occurrence #_____ Element Occurrence Name _____

Transect A B C (circle one)

Transect Location

GPS coordinates of re-bar stake (UTM) _____

GPS WP or file name_____ GPS FOM or error (if known) _____

GPS coordinates of tree-tag or other "permanent" landmark (UTM) _____

GPS WP or file name_____ GPS FOM or error (if known) _____

Distance from tree-tag/landmark to re-bar _____

Compass bearing from tree-tag/landmark to re-bar _____

Transect Information

Compass bearing (declination corrected to quad map; *from* re-bar to end of transect) _____

Transect Length (m) _____

Directions (specific):

Sketch a map showing roads/trails, mileages, landmarks, bearings, and other details that will help relocate the transect in the future (if applicable, possible, or necessary):

Photo-point Information

Photo# (taken from half-way point of transect)	Roll#	Frame#	Photographer	Comments
1 (along transect)	_____	_____	_____	_____
2 (90 degrees from transect bearing)	_____	_____	_____	_____
3 (180 degrees from transect bearing)	_____	_____	_____	_____
4 (270 degrees from transect bearing)	_____	_____	_____	_____
Others (e.g., disturbances, landmarks, etc.)	_____	_____	_____	_____

See next page on back:

Transect Establishment and Environmental Description Data Form continued . . .

Date _____ Observer(s) _____

Element Occurrence #_____ Transect A B C (circle one) Element Occurrence Name _____

Environmental Features

PLANT COMMUNITY: (circle up to 3 best that apply)

Elaeagnus commutata
(syn. *E. commutata/A. stolonifera-Poa pratensis*)
Salix exigua/mesic graminoid
(syn. *S. exigua/A. stolonifera-Poa pratensis*)
Agrostis stolonifera-Poa pratensis
Carex lanuginosa
Eleocharis rostellata
Equisetum hyemale and/or *E. laevigatum*
Equisetum variegatum

Other (base on currently dominant species): _____

EO DATA: Community Description (e.g., vegetation structure, canopy cover, height, density, spatial distribution, seral status, exotic species, anomalies, etc.)

_____

_____

_____

_____

_____

GENERAL DESCRIPTION: (e.g., environmental factors, water regime, adjacent vegetation, fluvial landform, erosion/deposition, fluvial age of site, etc.)

_____

_____

_____

SOIL DESCRIPTION: (if possible; e.g., surface and A-horizon; circle appropriate descriptors and/or comment)

Organic
Recent Sand Deposits (1997 and after)
Sand
Loamy sand (darker color, some organic matter)
Cobble/pebble/sand mix (cobble dominated)
Mottled (used as a modifier for above classes)

Other/Comments (please describe): _____

FLUVIAL LANDFORM and POSITION OF TRANSECT: (circle one to three most descriptive)

Abandoned meander or oxbow (not linked to main channel; circle: *With* or *Without* perennial water)
Alluvial bar (e.g., developing; not on point)
Backwater slough (e.g., *with* water but little or no flow except during flooding, linked to channel)
Borrow pit/excavated ground (e.g., human caused)
Depositional/aggrading area (e.g., recent sand?)
Eroding cutbank
Floodplain wetland
Flood overflow channel (circle: *With* or *Without* perennial water)
Fluvial terrace
Levee (circle: *Natural* or *Artificial*)
Point bar (e.g., developing)
River channel bank/shore (circle: *Main Channel* or *Secondary Channel*)

Other/Comments/Size (please describe): _____

MICROTOPOGRAPHY: (circle one for each)

Vertical (perpendicular to transect): Concave Convex Flat (<3%) Patterned (microrelief of hummocks and swales) Straight (= or >3%) Undulating (macro-relief)

Horizontal (along transect): Concave Convex Flat Patterned Straight Undulating

ASPECT: (degrees) _____ **SLOPE %:** (usually perpendicular to transect; if greater than 3%) _____

% GROUND COVER: (along transect length) Soil+____Gravel+____Rock/Cobble+____Litter+____Wood+____
Moss/Lichen+____Basal Vegetation (usually about 10%)+_____Water+_____Other_____ = + or -100%

GROUND COVER DISTURBANCE: (e.g., % of ground surface exposed along transect caused by recent fire, mechanical action, livestock, or wildlife; circle one) Zero-trace 1 to 5% 5 to 20% 20 to 40% Over 40%

DISTURBANCE CAUSE: _____ **ANIMAL EVIDENCE:** _____

DISTURBANCE HISTORY: (type, intensity, frequency, season)

_____

_____

RIPARIAN FEATURES ADJACENT TO TRANSECT:

Width of Channel (base-flow, measured at lower limits of terrestrial vegetation; circle one)
<10 m 10-25 m 25-50 m over 50 m **Bed Material in Channel** _____

Channel Depth (circle one) <50 cm 50-100 cm over 100 cm

Channel Entrenchment (height from lower limit of vegetation to mean high water) <50 cm 50-100 cm over 100 cm

Surface H_2O (circle one) *Perennial/Present* *Seasonal-Frequent* (almost every year, recent signs) *Seasonal-Infrequent* (only flooded during very large flow events) *Rarely, If Ever* (only flooded during extreme events, e.g., 100 year floods)

Distance from Transect Line to H_2O (m) _____