

CLEVELAND METROPARKS Plant Community Assessment Program: Quality Control Form



Project Label:

PCAP

Plot No:

1275

Date Sampled:

7-27-12

Lead: Barton

Comment required if item answer is NO

| | | | |
|--|---------------------------------|--|---|
| Parking/Access outside of Park Boundaries: | | Y <input checked="" type="radio"/> N <input type="radio"/> | If yes, write details in Comments section below |
| Field journals completed | | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| Site sketch made on 1:3000 map? | | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| Check cover page | X-axis Bearing of plot recorded | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| | GPS coords. Recorded | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| | North direction recorded | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| Photographs taken? | | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| Plot No., Date agreement on all pages? | | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| Header data completed all pages? | | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| Cover classes recorded in all Intensive modules | | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| Browse Level By Species | | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| Woody stem quality control check | | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| Invasive plant quality control check | | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| Ash trees mapped | | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| Cover by Strata? (confirm cover type) | | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| Soil samples collected with matching plot #. | | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| Vouchers labeled on datasheet with initials and number | | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| Vouchers labeled on collection bag | | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| Pink flags removed | | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| Data sheet QA before leaving site? | | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| Common equipment returned to tub. | | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| Data sheets scanned? | | | Enter date to left <i>SE 8/3/12</i> |
| Final data sheets scanned? | | | Enter date to left |
| Buffer Widths measured? | | Y <input checked="" type="radio"/> N <input type="radio"/> | <i>KEL 7-3-12</i> |
| Web Soil Survey | | Y <input checked="" type="radio"/> N <input type="radio"/> | <i>TK 7-27-12</i> |
| Voucher Location | Refrigerator | Y N | |
| (# vouchers collected) | Press (#) | | Enter number to left |
| | Drier | Y N | |
| | Identified | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| | Mounted | Y N | |
| | Thrown away | Y N | |

GRTS point verification: Is plot sampleable?

| | |
|---|---|
| <input checked="" type="checkbox"/> Yes | Original GRTS point is sampleable |
| <input type="checkbox"/> No | Original GRTS point lands in a non-sampleable area (fill in category below) |
| <input type="checkbox"/> Point falls in a water (i.e. river, lake) | |
| <input type="checkbox"/> Managed mowed area (i.e. golf course, picnic area, right-of-way) | |
| <input type="checkbox"/> Paved area (i.e. parking lot, road) | |
| <input type="checkbox"/> Unsafe to sample (i.e. steep slope) | |
| <input type="checkbox"/> Other | |

Additional Comments:

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

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CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

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| GENERAL INFORMATION | | LOCATION | | | | | | | | | | | | | | | | | | | |
|--|-----------------------|-------------|----------------|-----------------|-----------------|-------------|----------------|------------|-----------------|-------------|--|--|--|--|------------|---------------|--|--|--|--|----------|
| <u>Project Label:</u> | PCAP | | | | | | | | | | | | | | | | | | | | |
| <u>Project Name:</u> | <u>CIMS 2012</u> | | | | | | | | | | | | | | | | | | | | |
| <u>Plot Name:</u> | <u>Sally Sacharum</u> | | | | | | | | | | | | | | | | | | | | |
| <u>Plot No.:</u> | <u>1275</u> | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Level 4 (no nested corners sampled) <input type="checkbox"/> Level 5 (nested corners sampled) | | | | | | | | | | | | | | | | | | | | | |
| Date (mm/dd/yyyy): <u>7/27/12</u> | | | | | | | | | | | | | | | | | | | | | |
| End date (if > 1 day): <u>/ /</u> | | | | | | | | | | | | | | | | | | | | | |
| Party <u>Z. Barton</u> Role** <u>Plot leader</u> <u>M. Ricker</u> <u>Plot Mgr.</u> <u>S. Catella</u> <u>Bot. Assst.</u> <u>K. Lewis</u> <u>Woodlawn</u> <u>L. Hollings</u> <u>Woodlawn</u> | | | | | | | | | | | | | | | | | | | | | |
| Reason: If data not public why? Source of coordinates <input type="checkbox"/> MAP <input checked="" type="checkbox"/> GPS | | | | | | | | | | | | | | | | | | | | | |
| Coordinate system: <u>Lat/Long</u> <input type="checkbox"/> UTM <input type="checkbox"/> StatePlane Coord. Units <u>m</u> <input type="checkbox"/> deg <input type="checkbox"/> deg min <input type="checkbox"/> Other (specify) <u>m</u> <input type="checkbox"/> ft <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | |
| Datum: <input checked="" type="checkbox"/> NAD83/WGS84 <input type="checkbox"/> NAD27 | | | | | | | | | | | | | | | | | | | | | |
| GPS location in plot x=0 to 5, y=-1.0,+1): $x = 0$ $y = 0$ (base of plot x=0, y=0) | | | | | | | | | | | | | | | | | | | | | |
| PLOT NOT SAMPLED: <input type="checkbox"/> Other <input type="checkbox"/> Perm. water <input type="checkbox"/> Paved <input type="checkbox"/> Slope <input type="checkbox"/> Safety | | | | | | | | | | | | | | | | | | | | | |
| SAMPLING QUALITY* Effort Level: <u>Very thorough</u> <u>Accurate</u> <u>Hurried</u> subjective evaluation of how much effort put into sampling. Hurried plots may still provide good data | | | | | | | | | | | | | | | | | | | | | |
| TAXONOMIC ACCURACY <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25px; padding: 5px;"><u>vascular</u></td> <td style="width: 25px; padding: 5px;"><u>X</u></td> <td style="width: 25px; padding: 5px;"><u>high</u></td> <td style="width: 25px; padding: 5px;"><u>modera.</u></td> <td style="width: 25px; padding: 5px;"><u>low</u></td> <td style="width: 25px; padding: 5px;"><u>not smpl</u></td> </tr> <tr> <td><u>bryo</u></td> <td></td> <td></td> <td></td> <td></td> <td><u>n/a</u></td> </tr> <tr> <td><u>lichen</u></td> <td></td> <td></td> <td></td> <td></td> <td><u>X</u></td> </tr> </table> | | | | <u>vascular</u> | <u>X</u> | <u>high</u> | <u>modera.</u> | <u>low</u> | <u>not smpl</u> | <u>bryo</u> | | | | | <u>n/a</u> | <u>lichen</u> | | | | | <u>X</u> |
| <u>vascular</u> | <u>X</u> | <u>high</u> | <u>modera.</u> | <u>low</u> | <u>not smpl</u> | | | | | | | | | | | | | | | | |
| <u>bryo</u> | | | | | <u>n/a</u> | | | | | | | | | | | | | | | | |
| <u>lichen</u> | | | | | <u>X</u> | | | | | | | | | | | | | | | | |
| TAXONOMIC STANDARD Authority: <u>G&C</u> Pub Date: <u>1998</u> | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| NOTES: Include Layout (any unusual shape details), Location (directions and landscape content), Rationale (why here) and Veg Characterization (description of community, dominants, strata, BROWSE). Additional notes in space on back. | | | | | | | | | | | | | | | | | | | | | |
| Layout: <u>2x5</u> Location: in 50m into woods S of baseball field at Royalview picnic area | | | | | | | | | | | | | | | | | | | | | |
| Latitude: <u>41.29992</u> Longitude: <u>-81.80279</u> | | | | | | | | | | | | | | | | | | | | | |
| Coord. Accuracy: <input type="checkbox"/> m <input type="checkbox"/> ft <u>100%</u> <input type="checkbox"/> + - GPS File Name: <u>1275A</u> | | | | | | | | | | | | | | | | | | | | | |
| Plot size for cover data: <u>0.1</u> (hectares) X-axis Bearing of plot: <u>193</u> ° | | | | | | | | | | | | | | | | | | | | | |
| Veg. Char: <u>Tre-Tuya over, Acer rubrum, Acer saccharinum, Crataegus rubra, Fagus grandifolia</u> <u>Shrub-Lindera benzoin, Fagus grandifolia</u> <u>Carpinus caroliniana</u> <u>Herb-Carex intumescens, Glyceria striata, Frax. seedlings, Potentilla simplex</u> | | | | | | | | | | | | | | | | | | | | | |
| Depth: (1-5): <u>4</u> Intensive modules: 2, 3, 8, 9 (EDIT IF MODIFIED) | | | | | | | | | | | | | | | | | | | | | |
| Camera No.: <u>4</u> Photo Nos.: <u>0193</u> | | | | | | | | | | | | | | | | | | | | | |
| Plot placement: <u>GRTS</u> <input type="checkbox"/> Representative <input type="checkbox"/> Random <input type="checkbox"/> Stratified Random <input type="checkbox"/> Transect component <input type="checkbox"/> Systematic (grid) <input type="checkbox"/> Capture specific feature <input type="checkbox"/> Other | | | | | | | | | | | | | | | | | | | | | |

Minimum required fields in Bold and Underlined

*Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide

OVER

Minimum required fields in **Bold** and Underlined

1aCM PCAP Background Data Sheet Page 1 _ ver 3.0.xls last revised 5/29/2012 ceh

Natural Resources Management FORM NR/2010-01a

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Project Label: PCAP

Project Name: OMS2012

Plot No.: 1275

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MODIFIED NATURE RESERVE CLASS*

CODE (on separate form):

Fit= 6 Conf= H

COMMUNITY NAME:

Mixed Forest

HOMOGENEITY

- Homogeneous
- Compositional trend across the plot
- Conspicuous inclusions
- Irregular/pattern mosaic

HYDROLOGIC REGIME*

- | | |
|---|---|
| <input checked="" type="checkbox"/> Upland (seldom flooded) | <input type="checkbox"/> Intermittently flooded |
| <input type="checkbox"/> Intermittently/seasonally saturated (seldom flooded) | <input type="checkbox"/> Semipermanently flooded |
| <input type="checkbox"/> Saltwater | <input type="checkbox"/> Permanently flooded |
| <input type="checkbox"/> Brackish | <input type="checkbox"/> Tidal/Seiche flooded daily |
| <input type="checkbox"/> Fresh | <input type="checkbox"/> Tidal/Seiche flooded monthly |
| <input checked="" type="checkbox"/> Upland (n/a) | <input type="checkbox"/> Occasionally flooded (<1/yr) |
| | <input type="checkbox"/> Tidal/Seiche flooded irregular (e.g. wind, storms) |
| | <input type="checkbox"/> Temporarily flooded |
| | <input type="checkbox"/> Unknown |

(by default unless plot is a wetland)

Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)

Mod 9 corner 4 was switched to corner 1 to avoid large fallen tree.

Former Land Use:

Park

**L=low, ML=med low, M=med, MH=med high, H=high, VH=very high

Current Land Use:

Park

Total modules: 10

Intensive modules: 4 Plot configuration: 2 X 5

Plot area (ha): 0.1



Cleveland
Metroparks

Br = Browse Level. Use cover classes to describe amount of browse per species over entire plot

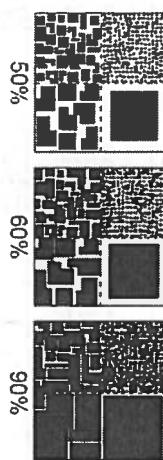
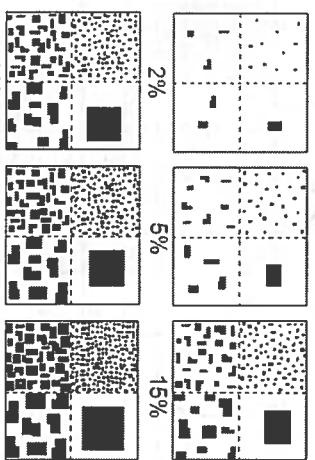
%unvegetated open wa

| | depth | cov |
|-------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
| water | 1 | 0 | | | 1 | 0 | | | 1 | 0 | | | 1 | 0 | | | 1 | 0 |
| water | 1 | 0 | | | 1 | 0 | | | 1 | 0 | | | 1 | 0 | | | 1 | 0 |
| water | 1 | 0 | | | 1 | 0 | | | 1 | 0 | | | 1 | 0 | | | 1 | 0 |
| water | 1 | 0 | | | 1 | 0 | | | 1 | 0 | | | 1 | 0 | | | 1 | 0 |

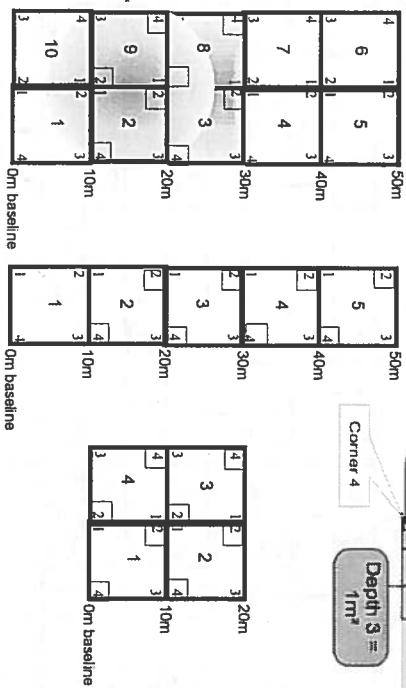
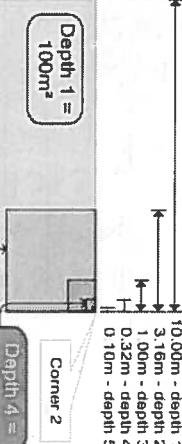
| Strata - Cov. entire plot | | Estimate for each intensive module: | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|-------------------------------------|--------|-----|--------|-------------------------------|--------|-----------|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|
| | | mod | corner | mod | corner | mod | corner | mod | corner | mod | corner | mod | corner | mod | corner | mod | corner | mod | corner | mod | corner | mod | corner | |
| T | S | H | (F) | (A) | Br | Species | c | Voucher # | depth | cov |
| 7 | | | | | 3 | <i>Acer saccharinum</i> | | | 2 | 9 | 4 | 4 | 7 | 2 | 4 | 7 | 2 | 4 | 6 | 4 | 4 | 4 | 4 | 4 |
| | | | | | 10 | <i>Acer rubrum</i> | | | 4 | 6 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | | | | 2 | <i>Toxicodendron radicans</i> | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | | | | 8 | <i>Fagus grandifolia</i> | | | 4 | 6 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | | | | 21 | <i>Lindera benzoin</i> | | | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | | | | 5 | <i>Fraxinus seedlings</i> | | | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | | | | 5 | <i>Carya seedlings</i> | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | | | | 7 | <i>Harpinius caroliniana</i> | | | 2 | 6 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 1 | 2 | 5 | 4 | 4 |
| | | | | | 2 | <i>Mass. sp.</i> | | | 3 | 2 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | | | | 1 | <i>Circaret hirtetiana</i> | | | 4 | 2 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | | | | 2 | <i>Carex sp (no rep)</i> | | | 4 | 2 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | | | | 2 | <i>Tilia sp</i> | | | 4 | 2 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | | | | 7 | <i>Ulmus americana</i> | | | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 |
| | | | | | 2 | <i>Quercus rubra</i> | | | 3 | 2 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | | | | 2 | <i>Acer seedling</i> | | | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 2 |
| | | | | | 2 | <i>Prunus pensylvanica</i> | | | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 2 |
| | | | | | 1 | <i>Rosa multiflora</i> | | | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 2 |
| | | | | | 2 | <i>Potentilla simplex</i> | | | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | | | | 2 | <i>Rhamnus frangula</i> | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | | | | 2 | <i>Leersia virginica</i> | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | | | | 2 | <i>Quercus seedlings</i> | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | | | | 2 | <i>Ulmus dentatum</i> | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | | | | 2 | <i>Cataglyphis sp.</i> | | | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | | | | 2 | <i>Carya ovata</i> | | | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 |
| | | | | | 2 | <i>Clethra alnifolia</i> | | | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 |

EXAMPLES OF PERCENT OF AREA COVERED

The following graphic can be used for various data elements to convey "Amount or Quantity". **NOTE:** Within any given box, each quadrant contains the same total area covered, just different sized objects.



Nested Corners



BROWSE RATING NARRATIVE DESCRIPTION

LOW OR NONE: there is no measurable browse line **AND** there are very few or no plants 1-m nested quadrat and intensive module. In general, low values relate to less than 10 percent, by numbers of stems browsed.

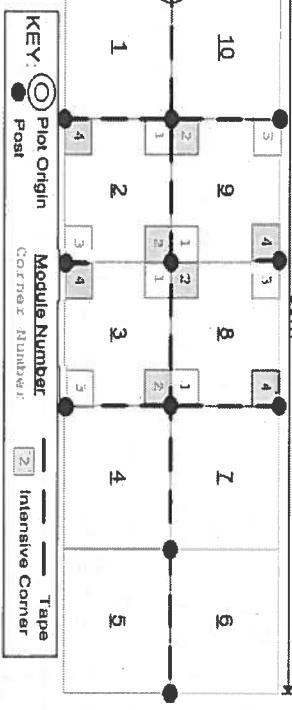
MEDIUM LOW values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse areas. For example, trilliums may flower and fruit, but jewelweed and arrowwood viburnum exhibit browse.

MEDIUM: browse affects greater than 10 percent and less than 25 percent of stems in the 1 m² nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of vegetation, but careful examination may show preferential browse and/or browse lines for some species of plants.

MEDIUM HIGH values include evidence of a browse line and 25 percent of stems browsed with very little vegetation regeneration evident. In this rating, for some species of plants, reproduction does not appear to occur or it is very severely limited.

HIGH: greater than 25 percent of the stems of plants in the 1 m² nested quadrat and intensive module **AND** a browse line is evident. **VERY HIGH** values include extensive browse conditions, where the browse line is very evident **AND** almost all seedlings and herbs are severely browsed or missing. Browse line may be 5 to 6 feet in height with no or little green growth beneath.

Typical Plot:



Total modules: _____

Intensive modules: _____ Plot configuration

Plot area (ha)



Gewerbe
Marktbericht

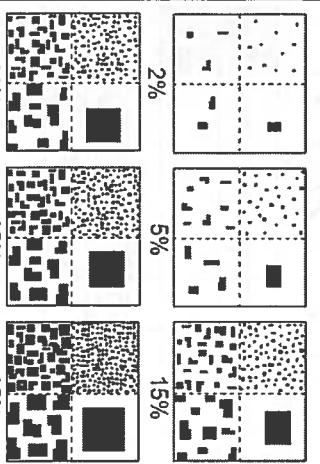
Br = Browse Level. Use cover classes to describe amount of browse per species over entire plot

%unvegetated open wa

| Cleveland Metroparks | | | | | | | | | | | |
|--|--------|-----|--------|-----|--------|-----------------------------------|--------|-----------|--------|--------|--------|
| Br = Browse Level. Use cover classes to describe amount of browse per species over entire plot | | | | | | | | | | | |
| Strata - Cov. entire plot | | | | | | | | | | | |
| T | S | H | (F) | (A) | Br | Species | c | Voucher # | mod | corner | mod |
| mod | corner | mod | corner | mod | corner | mod | corner | mod | corner | mod | corner |
| 2 | 4 | 2 | 2 | 3 | 4 | <i>Euonymus oblongus</i> | 1 | ZSB153 | 2 | 4 | 2 |
| 2 | 1 | 1 | 1 | 1 | 1 | <i>Rubus serotina</i> | 1 | ZSB153 | 2 | 1 | 2 |
| 2 | 1 | 1 | 1 | 1 | 1 | <i>Liquidambar styracifolia</i> | 1 | ZSB153 | 2 | 1 | 2 |
| 2 | 1 | 1 | 1 | 1 | 1 | <i>Unknown monocot</i> | 1 | ZSB153 | 2 | 1 | 2 |
| 2 | 1 | 1 | 1 | 1 | 1 | <i>Carex gracilima</i> 253 | 1 | ZSB153 | 2 | 1 | 2 |
| 2 | 1 | 1 | 1 | 1 | 1 | <i>Rubus pensylvanicus</i> | 1 | ZSB153 | 2 | 1 | 2 |
| 1 | 1 | 1 | 1 | 1 | 1 | <i>Unknown dicot</i> | 1 | ZSB153 | 2 | 1 | 2 |
| 1 | 1 | 1 | 1 | 1 | 1 | <i>Smilax rotundifolia</i> | 1 | ZSB153 | 2 | 1 | 2 |
| <u>Other vegetation</u> | | | | | | | | | | | |
| 2 | 1 | 1 | 1 | 1 | 1 | <i>Ardisia crenata</i> | 1 | ZSB153 | 2 | 1 | 2 |
| 2 | 1 | 1 | 1 | 1 | 1 | <i>Ardisia triphyllum</i> | 1 | ZSB153 | 2 | 1 | 2 |
| 1 | 1 | 1 | 1 | 1 | 1 | <i>Vitis sp.</i> | 1 | ZSB153 | 2 | 1 | 2 |
| 1 | 1 | 1 | 1 | 1 | 1 | <i>Vitis sp.</i> | 1 | ZSB153 | 2 | 1 | 2 |
| 2 | 1 | 1 | 1 | 1 | 1 | <i>Canis sp.</i> | 1 | ZSB153 | 2 | 1 | 2 |
| 2 | 1 | 1 | 1 | 1 | 1 | <i>Veronica chamaedrys</i> 253 | 1 | ZSB153 | 2 | 1 | 2 |
| 2 | 1 | 1 | 1 | 1 | 1 | <i>Scirpus atrocivens</i> | 1 | ZSB153 | 2 | 1 | 2 |
| 1 | 1 | 1 | 1 | 1 | 1 | <i>Oxalis stricta</i> | 1 | ZSB153 | 2 | 1 | 2 |
| 2 | 1 | 1 | 1 | 1 | 1 | <i>Erigeron canadensis</i> | 1 | ZSB153 | 2 | 1 | 2 |
| 2 | 1 | 1 | 1 | 1 | 1 | <i>Solidago canadensis</i> | 1 | ZSB153 | 2 | 1 | 2 |
| 1 | 1 | 1 | 1 | 1 | 1 | <i>Aster laeotiflorus</i> | 1 | ZSB153 | 2 | 1 | 2 |
| 2 | 1 | 1 | 1 | 1 | 1 | <i>Fraxinus sp.</i> | 1 | ZSB153 | 2 | 1 | 2 |
| 1 | 1 | 1 | 1 | 1 | 1 | <i>Corex lantanaefolia</i> 253 | 1 | ZSB153 | 2 | 1 | 2 |
| 3 | 2 | 1 | 1 | 1 | 1 | <i>Hamamelis virginiana</i> | 1 | ZSB153 | 2 | 1 | 2 |
| 1 | 1 | 1 | 1 | 1 | 1 | <i>Polystichum acrostichoides</i> | 1 | ZSB153 | 2 | 1 | 2 |
| 1 | 1 | 1 | 1 | 1 | 1 | <i>Acer saccharinum</i> | 1 | ZSB153 | 2 | 1 | 2 |
| 1 | 1 | 1 | 1 | 1 | 1 | <i>Nassa sylvatica</i> | 1 | ZSB153 | 2 | 1 | 2 |

EXAMPLES OF PERCENT OF AREA COVERED

The following graphic can be used for various data elements to convey 'Percent' or 'Quantity'. NOTE: Within any given box, each quadrat contains the same total area covered, just different sized objects.



| cover class | % cover | mid point |
|-------------|-----------------|-----------|
| 1 | solitary or few | 0.001 |
| 2 | 0-1% | 0.005 |
| 3 | 1-2% | 0.015 |
| 4 | 2-5% | 0.035 |
| 5 | 5-10% | 0.075 |
| 6 | 10-25% | 0.175 |
| 7 | 25-50% | 0.375 |
| 8 | 50-75% | 0.625 |
| 9 | 75-95% | 0.850 |
| 10 | 95-100% | 0.975 |

BROWSE RATING NARRATIVE DESCRIPTION

LOW OR NONE: there is no measurable browse line AND there are very few or no plants 1-m nested quadrat and intensive module. In general, low values relate to less than 10 percent, by numbers of stems browsed.

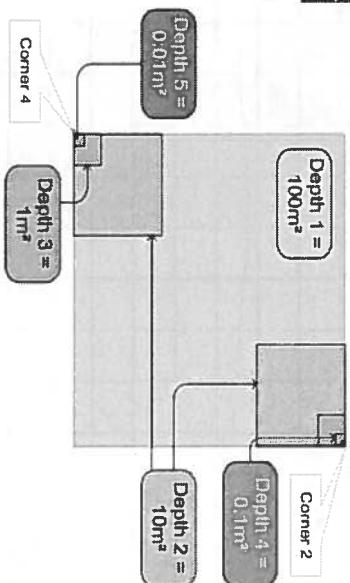
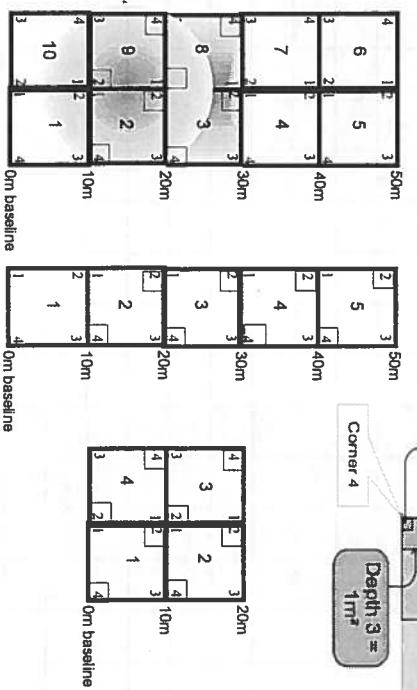
MEDIUM LOW values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse areas. For example, trilliums may flower and fruit, but jewelweed and arrowwood viburnum exhibit browse.

MEDIUM: browse affects greater than 10 percent and less than 25 percent of stems in the 1 m² nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of vegetation, but careful examination may show preferential browse and/or browse lines for some species of plants.

MEDIUM HIGH values include evidence of a browse line and 25 percent of stems browsed with very little vegetation regeneration evident. In this rating, for some species of plants, reproduction does not appear to occur or it is very severely limited.

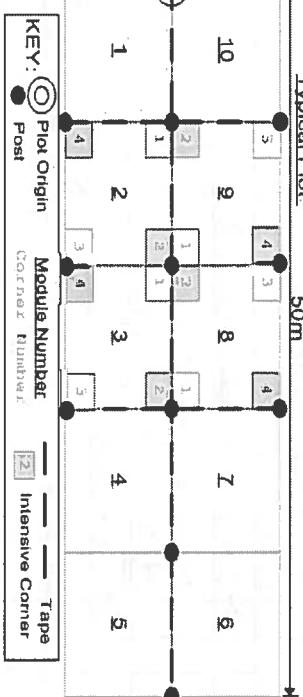
HIGH: greater than 25 percent of the stems of plants in the 1 m² nested quadrat and intensive module AND a browse line is evident.

VERY HIGH values include extensive browse conditions, where the browse line is very evident AND almost all seedlings and herbs are severely browsed or missing. Browse line may be 5 to 6 feet in height with no or little green growth beneath.



Typical Plot:

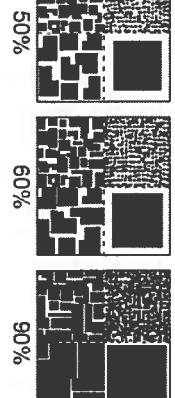
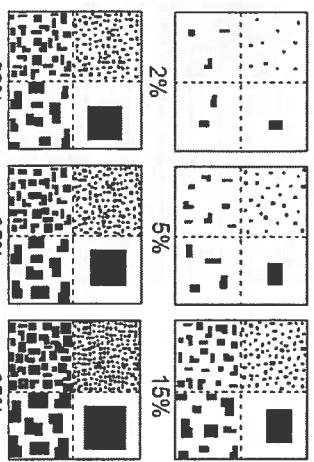
50m



KEY: ● Plot Origin Module Number □ Intensive Corner

EXAMPLES OF PERCENT OF AREA COVERED

The following graphic can be used for various data elements to convey "amount" or "Quantity". NOTE: Within any given box, each quadrant contains the same total area covered, just different sized objects.



Nested
Corners

Depth 5 =
0.01m²

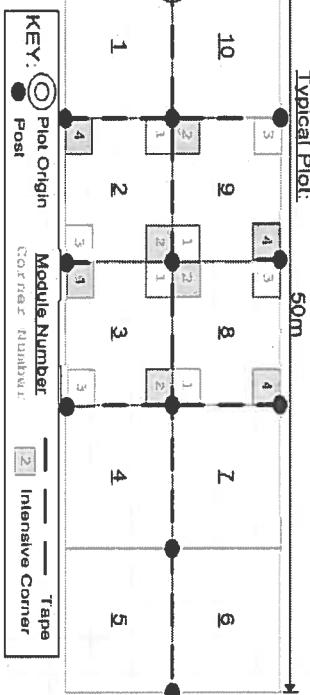
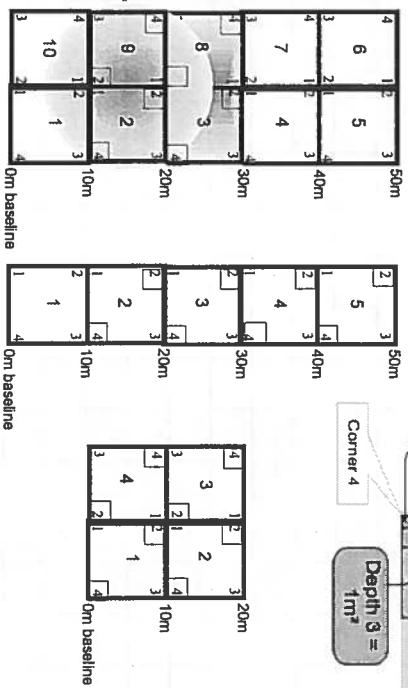
Corner 4
Depth 3 =
1m²

Depth 1 =
100m²

Corner 2
Depth 2 =
0.1m²

Corner 3
Depth 4 =
10m²

Corner 5
100m - depth 1
3.16m - depth 2
1.00m - depth 3
0.32m - depth 4
0.10m - depth 5



Typical Plot:

LOW OR NONE: there is no measurable browse line **AND** there are very few or no plants 1-m nested quadrat and intensive module. In general, low values relate to less than 10 percent, by numbers of stems browsed.

MEDIUM LOW values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse areas. For example, trilliums may flower and fruit, but few jewelweed and arrowwood viburnum exhibit browse.

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KEY:  Plot Origin  Post  Module Number  Tape  Intensive Corner

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: 2011S 2012

Plot No.: 1225

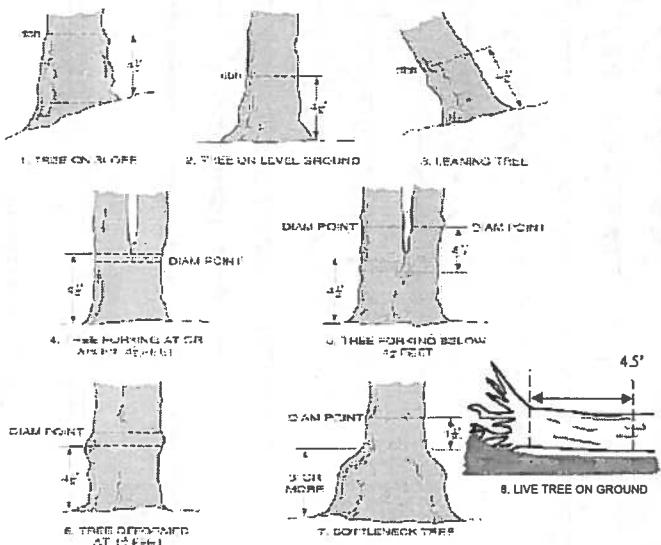
Page: 1 of 3

 Cleveland Metroparks

Explain subsample (additional room on back):

| mod # | species | c | voucher# | browsed | # stems 0-1.4m or super sample | # shrub clumps | size class (cm) woody stems > 1.4m | | | | | | | | | | 11 >40 (record each tree) |
|-------|-----------------------------|---|----------|---------|---|----------------------|------------------------------------|---|---|---|---|---|---|---|---|----|------------------------------|
| | | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| 1 | <i>Prunus pensylvanica</i> | | | | | | | | | | | | | | | | 203724 |
| 1 | <i>Prunus pensylvanica</i> | | | | | | | | | | | | | | | | |
| 1 | <i>Prunus pensylvanica</i> | | | | | | | | | | | | | | | | |
| 1 | <i>Cotinus coggygria</i> | | | | | | | | | | | | | | | | |
| 1 | <i>Ulmus americana</i> | | | | | | | | | | | | | | | | |
| 1 | <i>Carpinus caroliniana</i> | | | | | | | | | | | | | | | | |
| 1 | <i>Styrax obassia</i> | | | | | | | | | | | | | | | | |
| 1 | <i>Rosa multiflora</i> | | | | | | | | | | | | | | | | |
| 1 | <i>Lindera benzoin</i> | | | | | | | | | | | | | | | | |
| 1 | <i>Fraxinus sp</i> | | | | | | | | | | | | | | | | |
| 1 | <i>Carpinus sp</i> | | | | | | | | | | | | | | | | |
| 2 | <i>Rubus sp</i> | | | | | | | | | | | | | | | | |
| 2 | <i>Prunus pensylvanica</i> | | | | | | | | | | | | | | | | SRE 83H2 |
| 2 | <i>Carpinus caroliniana</i> | | | | | | | | | | | | | | | | |
| 2 | <i>Styrax obassia</i> | | | | | | | | | | | | | | | | |
| 2 | <i>Prunus pensylvanica</i> | | | | | | | | | | | | | | | | |
| 2 | <i>Fagus grandifolia</i> | | | | | | | | | | | | | | | | |
| 2 | <i>Fraxinus sp</i> | | | | | | | | | | | | | | | | |
| 2 | <i>Carya sp</i> | | | | | | | | | | | | | | | | |
| 2 | <i>Rosa multiflora</i> | | | | | | | | | | | | | | | | |
| 2 | <i>Vitis vulpina</i> | | | | | | | | | | | | | | | | |
| 3 | <i>Carpinus ovata</i> | | | | | | | | | | | | | | | | |
| 3 | <i>Prunus sargentii</i> | | | | | | | | | | | | | | | | |
| 3 | <i>Cotinus coggygria</i> | | | | | | | | | | | | | | | | |
| 3 | <i>Fagus grandifolia</i> | | | | | | | | | | | | | | | | 573 |
| | | | | | | | | | | | | | | | | | 323491 |
| | | | | | | | | | | | | | | | | | 574 |

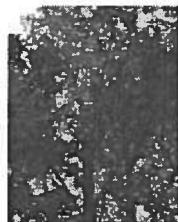
DBH Measurement Rules



Woody Stem Deer Browse

Record the number of stems/plants between 0.5-1.0 meters tall that exhibit evidence of this years deer browse.

Record using the tally system from 1 to 10



1



2



3



4



5

ASH CANOPY CONDITION

1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as maple.
2. Thinning canopy: There aren't as many leaves as there ought to be, but all top branches exposed to sunlight have leaves.
3. Dieback: Canopy is thinning and some top branches exposed to sunlight are dead (have no leaves). Lower branches, not exposed to sunlight, die naturally and are not considered.
4. >50% Dieback: The canopy has less than half of the leaves that should be there and/or half of the top branches are dead.
5. Dead canopy: No leaves remain in the canopy portion of the tree. It still counts as a 5 even if there are epicormic sprouts below the canopy (lowest branch) on the trunk.



A

B

C

D

E

ASH CANOPY BREAKUP CONDITION (for dead trees):

(if an ash receives a score of 5 (dead) under canopy condition it must also receive a breakup condition rank as described below)

- A: All main branches contain fine twigs (newly dead).
- B: Over 50% of main branches have fine twigs.
- C: Less than 50% of main branches have fine twigs.
- D: Stem still standing and tertiary main branches present.
- E: Central stem still standing.

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: Project Alpha

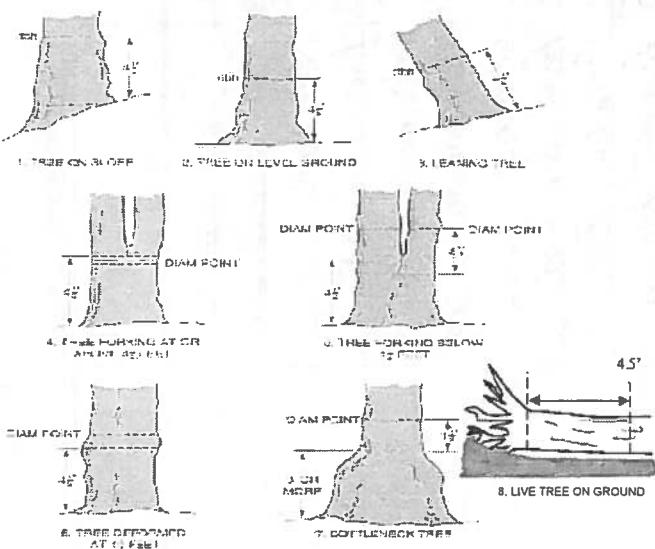
Plot No.: 182

Page: 9 of 3

3 Cleveland Metroparks

Explain subsample (additional room on back):

DBH Measurement Rules



Woody Stem Deer Browse

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Record using the tally system from 1 to 10



1



2



3



4



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CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

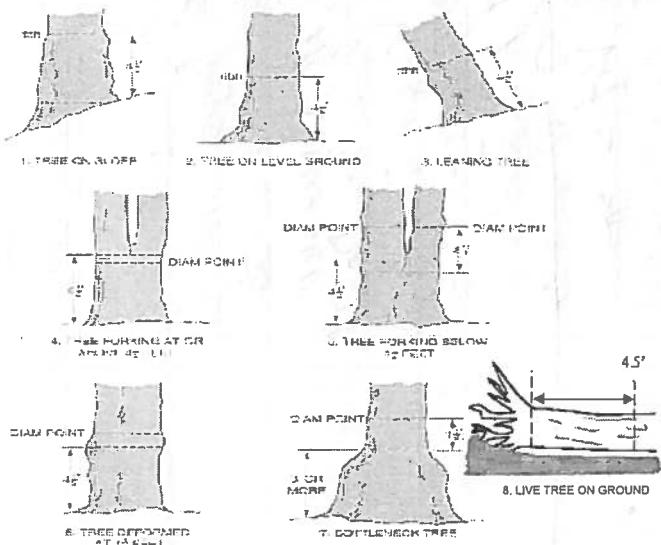
Project Name: DLMS 2012Plot No.: 1275Page: 3 of 3

© Cleveland Metroparks

Explain subsample (additional room on back):

| plot # | species | c. | voucher# | # stems 0-1.4m browsed | % sub sample | # shrub clumps | size class (cm) woody stems >1.4m | | | | | | | | | | | >40 (record each tree) |
|--------|--------------------------------|----|----------|------------------------------|-----------------|----------------------|-----------------------------------|---|---|---|---|---|---|---|---|----|----|------------------------|
| | | | | | | | 0-1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| 3 | <i>Fagus grandifolia</i> | | | | | | • | | | • | • | • | • | • | • | • | • | |
| 4 | <i>Carya ovata</i> | | | | | | | | | | | | | | | | | |
| 5 | <i>Acer rubrum</i> | | | | | | • | | | | | | | | | | | |
| 6 | <i>Fraxinus Dead</i> | | | | | | | | | | | | | | | | | |
| 7 | <i>Cassinia acuminata</i> | | | | | | | | | | | | | | | | | |
| 8 | <i>Liriodendron tulipifera</i> | | | • | | | | | | | | | | | | | | |
| 9 | <i>Acer saccharum</i> | | | | | | • | | | | | | | | | | | |
| 10 | <i>Fraxinus nigra</i> | | | | | | | | | | | | | | | | | |
| 11 | <i>Vitis sp</i> | | | | | | | | | | | | | | | | | |
| 12 | <i>Fraxinus sp</i> | | | • | | | | | | | | | | | | | | |
| 13 | <i>Lindera benzoin</i> | | | | | | • | | | | | | | | | | | |
| 14 | <i>Fraxinus sp</i> | | | | | | | • | | | | | | | | | | |
| 15 | <i>Fraxinus nigra</i> | | | | | | | | • | | | | | | | | | |
| 16 | <i>Fraxinus nigra</i> | | | | | | | | | • | | | | | | | | |
| 17 | <i>Acer rubrum</i> | | | | | | | | | | • | | | | | | | |
| 18 | <i>Acer saccharinum</i> | | | | | | | | | | | • | | | | | | |
| 19 | <i>Acer saccharinum</i> | | | | | | | | | | | | • | | | | | |
| 20 | <i>Fraxinus nigra</i> | | | | | | | | | | | | • | | | | | |
| 21 | <i>Lindera benzoin</i> | | | • | | | | | | | | | | | | | | |
| 22 | <i>Fraxinus nigra</i> | | | | | | | | | | | | | | | | | |
| 23 | <i>Fraxinus nigra</i> | | | | | | | | | | | | | | | | | |
| 24 | <i>Fraxinus nigra</i> | | | | | | | | | | | | | | | | | |
| 25 | <i>Fraxinus nigra</i> | | | | | | | | | | | | | | | | | |
| 26 | <i>Fraxinus nigra</i> | | | | | | | | | | | | | | | | | |
| 27 | <i>Rosa multiflora</i> | | | • | | | | | | | | | | | | | | |
| 28 | <i>Fraxinus sp</i> | | | • | | | | | | | | | | | | | | |

DBH Measurement Rules



Woody Stem Deer Browse

Record the number of stems/plants between 0.5-1.0 meters tall that exhibit evidence of this years deer browse.

Record using the tally system from 1 to 10



1



2



3



4



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CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



| Tier 1: Early detection/ Rapid response | | Presence | | | | GPS |
|--|-----------------------------|-------------|----|----------|----|-----|
| | | NE | SE | SW | NW | |
| <i>Microstegium vimineum</i> | Japanese stiltgrass | | | | | |
| <i>Ranunculus ficaria</i> | Lesser Celandine | | | | | |
| <i>Cynanchum louiseae</i> (vine) | Black Swallow-wort | | | | | |
| <i>Butomus umbellatus</i> (wetland) | Flowering Rush | | | | | |
| <i>Heracleum mantegazzianum</i> | Giant Hogweed | | | | | |
| Tier 2: Assess as Needed | | # of Plants | | comments | | |
| | | NE | SE | SW | NW | |
| <i>Acer platanoides</i> | Norway Maple | | | | | |
| <i>Ailanthus altissima</i> | Tree of Heaven | | | | | |
| <i>Lonicera japonica</i> (vine) | Japanese Honeysuckle | | | | | |
| <i>Lythrum salicaria</i> (wetland) | Purple Loosestrife | | | | | |
| <i>Aegopodium podagraria</i> (G-cover) | Bishop's Goutweed | | | | | |
| <i>Celastrus orbiculatus</i> (vine) | Asian Bittersweet | | | | | |
| <i>Torilis</i> sp. | Hedgeparsley | | | | | |
| <i>Conium maculatum</i> | Poison Hemlock | | | | | |
| <i>Rhamnus cathartica</i> | Common Buckthorn (shrub) | | | | | |
| <i>Berberis thunbergii</i> | Japanese Barberry (shrub) | 1 | | | 1 | |
| <i>Alnus glutinosa</i> | European Alder | | | | | |
| <i>Dipsacus laciniatus</i> | Cut-leaf Teasel | | | | | |
| <i>Elaeagnus umbellata</i> | Autumn Olive (shrub) | | | | | |
| <i>Lonicera maackii</i> | Amur Honeysuckle (shrub) | | | | | |
| <i>Euonymus fortunei</i> | Wintercreeper | | | | | |
| Tier 3: Presence is of Interest | | # of Plants | | comments | | |
| | | NE | SE | SW | NW | |
| <i>Convallaria majalis</i> (G-cover) | Lily of the Valley | | | | | |
| <i>Coronilla varia</i> (G-cover) | Crown Vetch | | | | | |
| <i>Eleutherococcus pentaphyllus</i> | Five-leaf Aralia (shrub) | | | | | |
| <i>Pachysandra terminalis</i> (G-cover) | Japanese Pachysandra | | | | | |
| <i>Philadelphus coronarius</i> | Mock Orange (shrub) | | | | | |
| <i>Pulmonaria officinalis</i> (G-cover) | Lungwort | | | | | |
| <i>Rubus phoenicolasius</i> | Wineberry | | | | | |
| <i>Iris pseudacorus</i> (wetland) | Yellow Flag Iris | | | | | |
| <i>Ornithogalum umbellatum</i> | Star of Bethlehem | | | | | |
| <i>Viburnum opulus</i> var. <i>opulus</i> | European Cranberry (shrub) | | | | | |
| <i>Viburnum plicatum</i> | Doublefile Viburnum (shrub) | | | | | |
| Tier 4: Widespread and abundant | | Presence | | comments | | |
| | | NE | SE | SW | NW | |
| <i>Alliaria petiolata</i> | Garlic Mustard | | 2 | 2 | | |
| <i>Ligustrum vulgare</i> | Common Privet (shrub) | | | | | |
| <i>L. morrowii</i> , <i>L. tatarica</i> | Bush Honeysuckles (shrub) | 3 | 3 | 2 | | |
| <i>Phalaris arundinacea</i> | Reed Canarygrass | | | | | |
| <i>Phragmites australis</i> (wetland) | Phragmites | | | | | |
| <i>Polygonum cuspidatum</i> | Japanese Knotweed | | | | | |
| <i>Frangula alnus</i> | Glossy Buckthorn (shrub) | 32 | 13 | 1 | 2 | |
| <i>Rosa multiflora</i> | Multiflora Rose (shrub) | 2 | 1 | 1 | 2 | |
| <i>Typha angustifolia</i> , <i>T. x glauca</i> | Cattails (wetland) | | | | | |
| <i>Cirsium arvense</i> | Canada thistle | | | | | |
| <i>Dipsacus fullonum</i> | Common Teasel | | | | | |
| <i>Hesperis matronalis</i> | Dame's Rocket | | | | | |
| <i>Vinca minor</i> (G-cover) | Periwinkle | | | | | |

Note: For Ground-cover plants record "stem #" but in comment field describe # of colonies and patch size (S,M, L)

CLEVELAND METROPARKS Emerald Ash Borer - *Fraxinus* Sheet

Project Label: PCAP

Project Name: DIMS2012

INTENSIVE MODULES ONLY

TREES $\geq 10\text{CM ONLY}$

Page: 1 of 2

Prof No.: 1275

Date: 2/27/12

No Sampling Required

| Tree Module ID. | Species | Dead c | Voucher # | DBH (cm) | Ht @ DBH | Ash condition | ASH Only | | |
|-----------------------|---------|-----------|-----------|-------------|-------------|------------------|----------------|-----------------|----------------------|
| | | | | | | | *Dead holes | # Exit holes | Epicormic present |
| 1 | NO ASH | | | | | | | | |
| 2 | | | | | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
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| 22 | | | | | | | | | |
| 23 | | | | | | | | | |
| 24 | | | | | | | | | |
| 25 | | | | | | | | | |

Baseline

*** Change intensive module numbers when necessary

9

8

2

3

Map all ash trees $\geq 10\text{cm}$ in each module using Tree ID number

* If Ash Condition scores 5 (dead) provide breakup score (A-E)

Count EAB exit holes $1.25\text{cm}^2 \times \geq 1.5\text{in}$

Woodpecker and epicormic marked present (1) or absent (0)

STANDING BIOMASS (required for emergent wetlands) collected in 0.1 m clip plots (32x32 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. C' = check when collected

| Module # | C? | Corner | Corner |
|----------|----|--------|--------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| CLASSIFICATION | |
|--|---------------------|
| LFI = excellent & Fi and Confidence | |
| Hydrogeomorphic class (WETLANDS ONLY): | |
| <input type="checkbox"/> DEPRESSION | Fi=_____ Conf=_____ |
| <input type="checkbox"/> IMPOUNDMENT | Fi=_____ Conf=_____ |
| <input type="checkbox"/> RIVERINE | Fi=_____ Conf=_____ |
| <input type="checkbox"/> Headwater | Fi=_____ Conf=_____ |
| <input type="checkbox"/> Mainstem | Fi=_____ Conf=_____ |
| <input type="checkbox"/> Channel | Fi=_____ Conf=_____ |
| <input type="checkbox"/> SLOPE (ground water hydrology or on a physical slope) | Fi=_____ Conf=_____ |
| <input type="checkbox"/> FRINGING | Fi=_____ Conf=_____ |
| <input type="checkbox"/> Reservoir | Fi=_____ Conf=_____ |
| <input type="checkbox"/> Natural Lake | Fi=_____ Conf=_____ |
| <input type="checkbox"/> COASTAL (specify subclst) | Fi=_____ Conf=_____ |
| <input type="checkbox"/> BOG (strongly, moderately, weekly ombrotrophic) | Fi=_____ Conf=_____ |
| Ohio EPA VIBI Plant Community Class (WETLANDS ONLY): | |
| <input type="checkbox"/> FOREST | Fi=_____ Conf=_____ |
| <input type="checkbox"/> swamp forest | Fi=_____ Conf=_____ |
| <input type="checkbox"/> bog forest | Fi=_____ Conf=_____ |
| <input type="checkbox"/> wet meadow | Fi=_____ Conf=_____ |
| <input type="checkbox"/> open bog | Fi=_____ Conf=_____ |
| <input type="checkbox"/> EMERGENT | Fi=_____ Conf=_____ |
| <input type="checkbox"/> shrub swamp | Fi=_____ Conf=_____ |
| <input type="checkbox"/> tall sh. bog | Fi=_____ Conf=_____ |
| <input type="checkbox"/> tall sh. fen | Fi=_____ Conf=_____ |

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

Ranks for microhabitat features. Select one or select two and average the score. NOTE: If mod falls on a slope automatically gets ranked based on steepness (1-3) to begin + any features present

Slope 1 = slight elevational grade across module (flill)

Slope 2 = falls on slope ~20°

Slope 3 = maximum steepness that can be safely sampled ~45°

0 feature is absent or functionally absent from the wetland

3 feature is present in the wetland in very small amounts or more common, of low quality

7 feature is present in moderate amounts, but not of highest quality or in small amounts of highest quality

10 feature is present in moderate or greater amounts and of highest quality

c.w.d. - count for pieces with minimum 1m length

| no. of tussocks | no. of hummocks | no. macro depressions | c.w.d. (2-12 cm) | c.w.d. (12-40cm) | c.w.d. >40 cm | microhab interspers. | microhab |
|-----------------|-------------------|-----------------------|------------------|------------------|---------------|----------------------|----------|
| depth 3 | uplands (Tip-Ups) | | | | | | |
| depth 2 | | | | | | | |
| depth 1 | | | | | | | |
| 1x1m | 3.16x3.16m | 10x10m | 10x10m | 10x10m | 10x10m | SLOPE | |
| (count) | (count) | (count) | (count) | (count) | (count) | (rank) | (rank) |

| CROWN COVER (DENSIMETER) Make 4 readings per module facing N, S, E, W. Place dot count in corresponding space. (4 dots per grid square) | | | | | | |
|---|----|---|----|---|--|--|
| Module | N | S | E | W | | |
| 2 | 2 | 0 | 3 | 0 | | |
| 3 | 1 | 0 | 1 | 1 | | |
| 8 | 0 | 0 | 0 | 0 | | |
| 9 | 13 | 3 | 10 | 3 | | |

NOTE: tussock and hummocks are counted in BOTH nested quadrats but counts are aggregated.

COVER BY STRATA

| STRATUM | GENERAL FORM |
|------------------------------|---|
| Tree (generally >5 m) | Tree (overstory), very tall shrubs*, liana, epiphyte) |
| Shrub (generally 0.5 to 5 m) | Tree (sapling), shrub, liana, epiphyte) |
| Herb (Field) | Herb, dwarf-shrub**, tree (seedling***) |
| Floating | Floating |
| Aquatic (submerged) | Submerged |

*Very tall shrubs are sometimes included in the tree stratum

**Can also include seedlings of shrubs, i.e. all shrubs <0.5m

***Tree seedlings are often defined as up to 1.4 m height or as <2.5 cm DBH in which case they would span the herb and shrub layers.

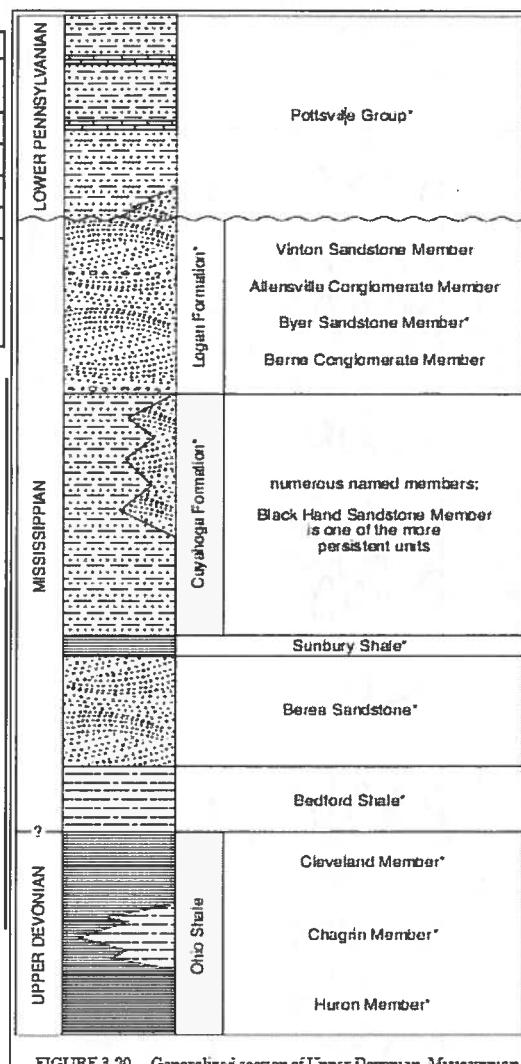
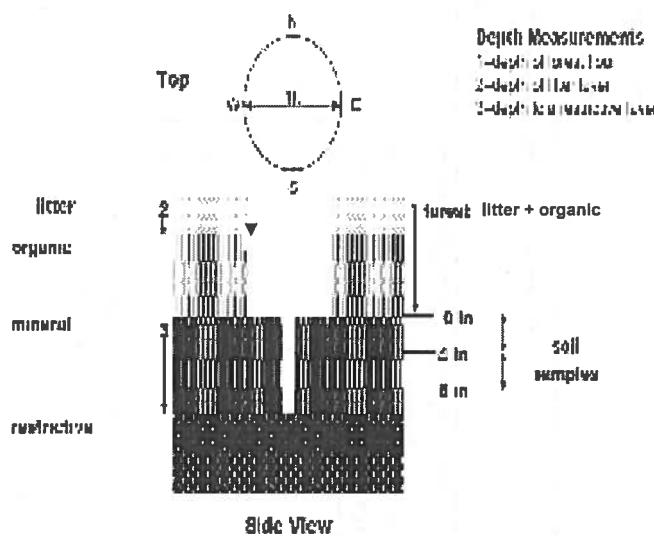


FIGURE 3-20.—Generalized section of Upper Devonian, Mississippian, and Lower Pennsylvanian formations in northeastern Ohio. Asterisks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses indicated are proportional. The term "Waverly" is used in the older literature to refer to Mississippian rocks in Ohio. Some geologists use the European term "Carboniferous," which encompasses the Mississippian and Pennsylvanian Periods of the U.S. Many units have been named within the Cuyahoga Formation, but most units are local and cannot be traced over great distances. The Black Hand Member is a spectacular massive sandstone that is fairly widespread but discontinuous. See Hyde (1953), Hoover (1960), and Collins (1969) for more information on Mississippian rocks in Ohio. See figure 3-1 for explanation of rock types.

SOIL PIT DESCRIPTION: Excavate 20 cm plug with shovel. Describe using Munsell chart, visual exam, texture, and odor.

Soil pit module # 8 (one per entire plot)

| | | |
|-------|------------------|-----------|
| 5 cm | matrix color | 10 YR 2/2 |
| | moisture color | N/A |
| | %moisture | 0 |
| | oxid roots | 0 |
| | texture* | 1 |
| | redox features** | Y |
| | hyd cond*** | 1 S (1) D |
| 20 cm | matrix color | 2,5 Y 3/2 |
| | moisture color | 10 YR 6/2 |
| | %moisture | 50 |
| | oxid roots | 0 |
| | texture* | 2 |
| | redox features** | Y |
| | hyd cond*** | 1 S M D |

SOIL SAMPLES Standard procedure: collect a soil sample of the top 10 cm of soil from center of each intensive module and composite the sample

| Soil Collection Module | | Horizon (A, B, C) |
|------------------------|-----------|-------------------|
| 2,3,8,9 | composted | A |
| | | |
| | | |
| | | |

Soil Series/Type: MGA, Mahon, 104 in
 Soil Series Source: Ohio Soil Survey
 Landform type: Lake plain, Till plains

| Depth to Rest Layer: | 280 inches |
|----------------------|------------|
| Parent Material: | Till |
| | |
| | |
| | |

| | |
|----------------------|--------------------------|
| Excessively dry | <input type="checkbox"/> |
| Well drained | <input type="checkbox"/> |
| Somewhat poorly dr | <input type="checkbox"/> |
| Very poorly dr | <input type="checkbox"/> |
| Impenetrable surface | <input type="checkbox"/> |

TK 7-27-12

Soil pit module # 8 (one per entire plot)

SOIL DEPTH MEASUREMENT: Measure to the nearest 0.1 cm in center of intensive modules. If >30.5 cm, record as >30

*refer to texture classes on reverse side
 **e.g. hydrogen sulfide odor, greying, etc.
 *** Circle one:
 I=Inundated S=Saturated M=moist D=dry

Notes: Include evidence of earthworms (worms, castings, middens)

no worms

| mod# | 1 litter+ organic depth (cm) | 2 litter depth (cm) | water depth (cm) | depth sat |
|------|------------------------------|---------------------|------------------|-----------|
| 2 | 1.5 | 1.5 | 0 | >30 |
| 3 | 1.2 | 1.2 | 0 | >30 |
| 8 | 1.0 | 1.0 | 0 | >30 |
| 9 | 1.1 | 1.1 | 0 | >30 |

COVER BY STRATA
 estimate using midpoints of 5, ex: 3, 8, 13 %

| Strata | Height Range (m) | Total Cover (%) |
|------------------------|------------------|-----------------|
| Tree | 5 - X | 83 |
| Shrub | 0.5 - S | 28 |
| Herb | X - 0.5 | 13 |
| (Floating)* (Aquatic)* | - | — |

| | |
|-------------------------------------|--------------------|
| <input type="checkbox"/> | >600 x plot size |
| <input type="checkbox"/> | > 100 x plot size |
| <input checked="" type="checkbox"/> | 10-100 x plot size |
| <input type="checkbox"/> | 3-10 x plot size |
| <input type="checkbox"/> | 1-3 x plot size |
| <input type="checkbox"/> | < plot size |

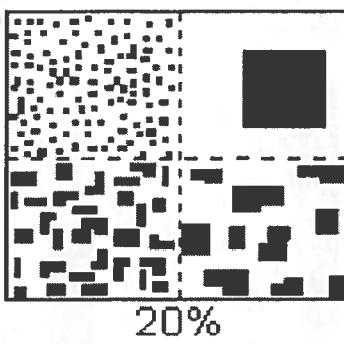
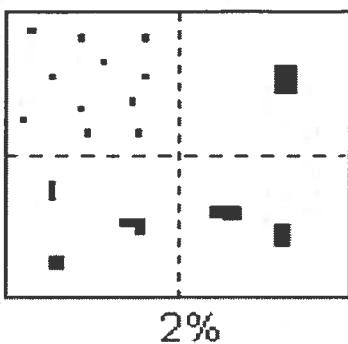
*rooted and floating or slightly emersed

**submersed, most plant mass below surface

SEE BACK OF PAGE FOR 'TYPICAL' STRATA DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE.

PERCENT MOTTLES (USE CLASS CODES):

| Class | Code Conv. | Code NASIS | Criteria: % of Surface Area Covered |
|--------|---------------|---------------|--|
| Few | f | # | < 2 |
| Common | c | # | 2 to < 20 |
| Many | m | # | ≥ 20 |



SOIL TEXTURE: Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper; the sample should be wet enough that all of the particles are saturated but excess water does not freely flow from the sample when squeezed. Attempt to roll the sample into a ball. If the soil will not stay in a ball and has a grainy texture, the texture is either sandy or coarse sandy. If the soil does form a ball, squeeze the sample between your fingers and attempt to form a self-supporting ribbon. Samples which form both a ball and a ribbon should be coded as clayey; samples which form a ball but not a ribbon should be coded as loamy.

0= Organic

1= Loamy

2= Clayey

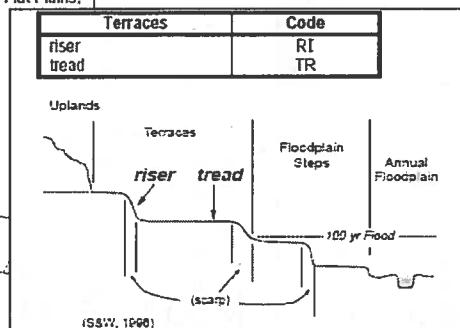
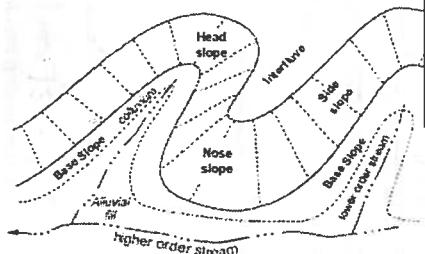
3= Sandy

4= Coarse Sand

9= Not measured - make plot note

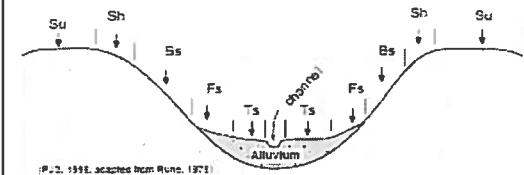
Geomorphic Component - Three-dimensional descriptors of parts of landforms or microfeatures that are best applied to areas. Unique descriptors are available for Hills, Terraces, Mountains, and Flat Plains; e.g., (for Hills) nose slope or NS.

| Hills | Code PDP | Code NASIS |
|------------|-------------|---------------|
| interfluve | IF | IF |
| head slope | HS | HS |
| nose slope | NS | NS |
| side slope | SS | SS |
| base slope | -- | BS |



Hillslope - Profile Position (Hillslope Position In PDP) - Two-dimensional descriptors of parts of line segments (i.e., slope position) along a transect that runs up and down the slope; e.g., backslope or BS. This is best applied to transects or points, not areas.

| Position | Code |
|-----------|------|
| summit | SU |
| shoulder | SH |
| backslope | BS |
| footslope | FS |
| toeslope | TS |



HYDROLOGIC REGIME Modified from Grossman et al 1998. (Frequency and duration of flooding.)

UPLAND: Not a wetland. Very rarely flooded.

INTERMITTENTLY/SEASONALLY SATURATED: Dry at least once per year. Surface water is seldom present, but substrate is saturated to surface for extended periods during the growing season.

PERMANENTLY/SEMPERMANENTLY SATURATED: Dry less than once per year. Surface water is seldom present, but substrate is saturated to surface for extended periods during the growing season. Equivalent to Cowardin's Saturated modifier.

OCCASIONALLY FLOODED: Surface water can be present for brief periods during growing season, but not in most years. Often characterizes flood-plain upper terraces.

TEMPORARILY FLOODED: Surface water present for brief periods during growing season, but water table usually lies well below soil surface. Often characterizes flood-plain levees and lower terraces. Equivalent to Cowardin's Temporary modifier.

INTERMITTENTLY FLOODED : Substrate is usually exposed, but surface water can be present for variable periods without detectable seasonal periodicity. Inundation is not predictable to a given season and is dependent upon highly localized rain storms. This modifier was developed for use in the arid West for water regimes of Playa lakes, intermittent streams, and dry washes but can be used in other parts of the U.S. where appropriate. This modifier can be applied to both wetland and non-wetland situations. Equivalent to Cowardin's Intermittently Flooded modifier.

SEMPERMANENTLY FLOODED (exposed <1/year): Surface water persists throughout the growing season in most years. Land surface is normally saturated when water level drops below soil surface. Includes Cowardin's Intermittently Exposed and Semipermanently Flooded modifiers.

PERMANENTLY FLOODED: Water covers the land surface at all times of the year in all years. Equivalent to Cowardin's "permanently flooded".

UNKNOWN: The hydrologic regime cannot be determined from the available information.

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAPMS1275

DATE: 7/27/2012

| | | | | |
|--|--|------------------------------|------------------------------|--|
| Location: O AA Center O N O S O E O W | Fill in bubble(s) if plot(s) could not be sampled and flag → | | | |
| | <input type="radio"/> Plot 1 | <input type="radio"/> Plot 2 | <input type="radio"/> Plot 3 | |

Buffer Natural Cover Strata

Fill in bubbles for all that apply. Canopy Type: D = Deciduous; E = Evergreen. Leaf Type: B = Broadleaf; N = Needle Leaf. Absent: No tree canopy.

Strata Section: Fill in appropriate cover class bubble for each strata type for each plot. 0 = Absent; 1 = Sparse(<10%); 2=Moderate(10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (>75%)

| Buffer Plot 1 | Canopy Type: <input type="radio"/> D <input type="radio"/> E | | Absent: <input type="radio"/> | Buffer Plot 2 | Canopy Type: <input type="radio"/> D <input type="radio"/> E | | Absent: <input type="radio"/> | Buffer Plot 3 | Canopy Type: <input type="radio"/> D <input type="radio"/> E | | Absent: <input type="radio"/> | | | | | | | | |
|---------------------------------------|--|------------------------------------|------------------------------------|------------------------------------|--|--------------------------|---------------------------------------|------------------------------------|--|------------------------------------|------------------------------------|------------------------------------|--------------------------|---------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------|-------------------------|
| | Leaf Type: <input type="radio"/> B <input type="radio"/> N | | Flag | | Leaf Type: <input type="radio"/> B <input type="radio"/> N | | Flag | | Leaf Type: <input type="radio"/> B <input type="radio"/> N | | Flag | | | | | | | | |
| Big Trees (>0.3m DBH) | <input type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input checked="" type="radio"/> 4 | | Big Trees (>0.3m DBH) | <input type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input checked="" type="radio"/> 4 | | Big Trees (>0.3m DBH) | <input type="radio"/> 0 | <input checked="" type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 |
| Small Trees (<0.3m DBH) | <input type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input checked="" type="radio"/> 4 | | Small Trees (<0.3m DBH) | <input type="radio"/> 0 | <input type="radio"/> 1 | <input checked="" type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | Small Trees (<0.3m DBH) | <input type="radio"/> 0 | <input type="radio"/> 1 | <input checked="" type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 |
| Woody Shrubs, Saplings (0.5m-5m HIGH) | <input type="radio"/> 0 | <input type="radio"/> 1 | <input checked="" type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | Woody Shrubs, Saplings (0.5m-5m HIGH) | <input type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input checked="" type="radio"/> 4 | | Woody Shrubs, Saplings (0.5m-5m HIGH) | <input type="radio"/> 0 | <input type="radio"/> 1 | <input checked="" type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 |
| Woody Shrubs, Saplings (<0.5m HIGH) | <input type="radio"/> 0 | <input checked="" type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | Woody Shrubs, Saplings (<0.5m HIGH) | <input type="radio"/> 0 | <input checked="" type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | Woody Shrubs, Saplings (<0.5m HIGH) | <input type="radio"/> 0 | <input checked="" type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 |
| Herbs, Forbs and Grasses | <input checked="" type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | Herbs, Forbs and Grasses | <input type="radio"/> 0 | <input checked="" type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | Herbs, Forbs and Grasses | <input type="radio"/> 0 | <input type="radio"/> 1 | <input checked="" type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | |
| Bare ground | <input checked="" type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | Bare ground | <input type="radio"/> 0 | <input checked="" type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | Bare ground | <input type="radio"/> 0 | <input checked="" type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | |
| Litter, duff | <input type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input checked="" type="radio"/> 3 | | Litter, duff | <input type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input checked="" type="radio"/> 4 | | Litter, duff | <input type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | |
| Rock | <input checked="" type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | Rock | <input type="radio"/> 0 | <input checked="" type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | Rock | <input type="radio"/> 0 | <input type="radio"/> 1 | <input checked="" type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | |
| Water | <input checked="" type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | Water | <input type="radio"/> 0 | <input checked="" type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | Water | <input type="radio"/> 0 | <input checked="" type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | |
| Submerged Vegetation | <input checked="" type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | Submerged Vegetation | <input checked="" type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | Submerged Vegetation | <input checked="" type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | |

Stressor Presence/Absence - Confirm that a filled data bubble indicates presence and an unfilled bubble indicates absence by filling this bubble.

| Residential and Urban Stressors | | | | Hydrology Stressors | | | | Agricultural & Rural Stressors | | | | | | |
|---------------------------------|-----------------------|-----------------------|----------------------------------|---------------------|--|-----------------------|----------------------------------|--------------------------------|------|--|-----------------------|-----------------------|-----------------------|------|
| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
| Road - gravel | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Ditches, Channelization | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Pasture/Hay | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Road - two lane | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Dike/Dam/Road/RR Bed (IMPEDE FLOW) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Range | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Road - four lane | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Water Level Control Structure | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Row Crops | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Parking Lot/Pavement | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Excavation, Dredging | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Fallow Field (RECENT-RESTING ROW CROP FIELD) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Golf Course | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Fill/Spoil Banks | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Fallow Field (OLD - GRASS, SHRUBS, TREES) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Lawn/Park | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Freshly Deposited Sediment (UNVEGETATED) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Nursery | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Suburban Residential | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Soil Loss/Root Exposure | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | | Dairy | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Urban/Multifamily | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Wall/Riprap | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Orchard | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Landfill | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Inlets, Outlets | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Confined Animal Feeding | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Dumping | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Point Source/Pipe (EFFLUENT OR STORMWATER) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Rural Residential | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Trash | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | | Impervious surface input (SHEETFLOW) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Gravel Pit | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Irrigation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |

| Industrial Development Stressors | | | | Habitat/Vegetation Stressors | | | | | | | | | | |
|----------------------------------|-----------------------|-----------------------|-----------------------|------------------------------|--|-----------------------|-----------------------|----------------------------------|------|---|----------------------------------|-----------------------|-----------------------|----------------------------------|
| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
| Oil Drilling | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Forest Clear Cut | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Herbicide Use | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Gas Wells | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Forest Selective Cut | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Mowing/Shrub Cutting | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Mine (surface) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Tree Plantation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Trails | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |
| Mine (underground) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Tree Canopy Herbivory (INSECT) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Soil Compaction (ANIMAL OR HUMAN) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Military | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Shrub Layer Browsed (WILD OR DOMESTIC) | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | | Offroad vehicle damage | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Highly Grazed Grasses (OVERALL <3" HIGH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Soil erosion (FROM WIND, WATER, OR OVERUSE) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Recently Burned Forest Canopy | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Recently Burned Grassland (BLACKENED) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |

Flag codes: K = No measurement made, U = Suspect measurement., F1,F2, etc. = misc. flags assigned by each field crew.
Explain all flags in comment section on the back of this form

2428168304

FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)

Reviewed by (initial): _____

Site ID: PCAPMS1275

DATE: 7/27/2012

- Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble

| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
|-------------------------------|-----------------------|-----------------------|----------------------------------|------|-------------------------------|-----------------------|-----------------------|-----------------------|------|-------------------------------|-----------------------|-----------------------|----------------------------------|------|
| Eurasian Watermilfoil | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Purple Loosestrife | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Johnson Grass | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Water hyacinth | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Knotweed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Kudzu | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Yellow Floating Heart | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Japanese Knotweed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Multiflora Rose | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | |
| Giant Salvinia | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Perennial Pepperweed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Common Buckthorn | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Garlic Mustard | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | | Giant Reed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Himalayan Blackberry | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Poison Hemlock | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Cheatgrass | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Tamarisk | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Mile-A-Minute Weed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Reed Canary Grass | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Birdsfoot Trefoil | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Common Reed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Canada Thistle | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Leafy Spurge | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |

PLOT COORDINATES

Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble.

If Buffer Plot 3 can not be accessed, take the coordinates at the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plots are centered on the Buffer Transects and the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" bubble, fill in the flag box, and describe where the coordinates were taken and why in the comment section below. The coordinates of the nearest practicable location can be either placed as close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot.

Location of coordinates (choose one):

Flag

AA CENTER ON3 OS3 E3 W3 Nearest practicable location (flag and comment below)

Latitude North 41.29993

Longitude West - 81.80837

Use Decimal Degrees: NAD83

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial): _____

Site ID: PCAPMS1275

DATE: 7/27/2012

| | |
|--|--|
| Location: AA Center ON OS OE OW | Fill in bubble(s) if plot(s) could not be sampled and flag → |
| <input type="radio"/> Plot 1 <input type="radio"/> Plot 2 <input type="radio"/> Plot 3 | |

Buffer Natural Cover Strata

Fill in bubbles for all that apply. Canopy Type: D = Deciduous; E = Evergreen. Leaf Type: B = Broadleaf; N = Needle Leaf. Absent: No tree canopy. Strata Section: Fill in appropriate cover class bubble for each strata type for each plot. 0 = Absent; 1 = Sparse(<10%); 2=Moderate(10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (>75%)

| Buffer Plot 1 | Canopy Type: D E | | Absent: <input type="radio"/> | Buffer Plot 2 | Canopy Type: D E | | Absent: <input type="radio"/> | Buffer Plot 3 | Canopy Type: D E | | Absent: <input type="radio"/> | | | |
|---------------------------------------|----------------------------------|----------------------------------|----------------------------------|-----------------------|----------------------------------|------------------------------|-------------------------------|-----------------------|--------------------------------|------------------------------|-------------------------------|------|--|--|
| | Leaf Type: B N | | | | Flag | Leaf Type: B N | | | Flag | Leaf Type: B N | | Flag | | |
| | | | | | | | | | | | | | | |
| Big Trees (>0.3m DBH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | | |
| Small Trees (<0.3m DBH) | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | | |
| Woody Shrubs, Saplings (0.5m-5m HIGH) | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | | |
| Woody Shrubs, Saplings (<0.5m HIGH) | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | | |
| Herbs, Forbs and Grasses | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | | |
| Bare ground | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | | |
| Litter, duff | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | | |
| Rock | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | | |
| Water | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | | |
| Submerged Vegetation | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | | |

Stressor Presence/Absence - Confirm that a filled data bubble indicates presence and an unfilled bubble indicates absence by filling this bubble.

| Residential and Urban Stressors | | | | Hydrology Stressors | | | | Agricultural & Rural Stressors | | | | | | |
|---------------------------------|-----------------------|-----------------------|-----------------------|---------------------|--|-----------------------|-----------------------|--------------------------------|------|--|-----------------------|-----------------------|-----------------------|------|
| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
| Road - gravel | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Ditches, Channelization | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Pasture/Hay | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Road - two lane | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Dike/Dam/Road/RR Bed (IMPEDE FLOW) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Range | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Road - four lane | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Water Level Control Structure | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Row Crops | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Parking Lot/Pavement | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Excavation, Dredging | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Fallow Field (RECENT-RESTING ROW CROP FIELD) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Golf Course | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Fill/Spoil Banks | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Fallow Field (OLD - GRASS, SHRUBS, TREES) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Lawn/Park | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Freshly Deposited Sediment (UNVEGETATED) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Nursery | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Suburban Residential | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Soil Loss/Root Exposure | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Dairy | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Urban/Multifamily | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Wall/Riprap | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Orchard | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Landfill | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Inlets, Outlets | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Confined Animal Feeding | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Dumping | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Point Source/Pipe (EFFLUENT OR STORMWATER) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Rural Residential | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Trash | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Impervious surface input (SHEETFLOW) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Gravel Pit | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Irrigation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |

| Industrial Development Stressors | | | | Habitat/Vegetation Stressors | | | | | | | | | | |
|----------------------------------|-----------------------|-----------------------|-----------------------|------------------------------|--|----------------------------------|-----------------------|-----------------------|------|---|-----------------------|-----------------------|-----------------------|------|
| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
| Oil Drilling | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Forest Clear Cut | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Herbicide Use | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Gas Wells | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Forest Selective Cut | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Mowing/Shrub Cutting | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Mine (surface) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Tree Plantation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Trails | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Mine (underground) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Tree Canopy Herbivory (INSECT) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Soil Compaction (ANIMAL OR HUMAN) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Military | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Shrub Layer Browsed (WILD OR DOMESTIC) | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Offroad vehicle damage | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Highly Grazed Grasses (OVERALL < HIGH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Soil erosion (FROM WIND, WATER, OR OVERUSE) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Recently Burned Forest Canopy | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Recently Burned Grassland (BLACKENED) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |

Flag codes: K = No measurement made, U = Suspect measurement., F1,F2, etc. = misc. flags assigned by each field crew.
Explain all flags in comment section on the back of this form

2428168304

FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)

Reviewed by (initials): _____

Site ID: PCAPMS1275

DATE: 7/27/2017

• Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble

| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
|-------------------------------|-----------------------|-----------------------|-----------------------|------|-------------------------------|-----------------------|-----------------------|-----------------------|------|-------------------------------|-----------------------|-----------------------|-----------------------|------|
| Eurasian Watermilfoil | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Purple Loosestrife | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Johnson Grass | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Water hyacinth | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Knotweed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Kudzu | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Yellow Floating Heart | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Japanese Knotweed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Multiflora Rose | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Giant Salvinia | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Perennial Pepperweed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Common Buckthorn | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Garlic Mustard | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Giant Reed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Himalayan Blackberry | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Poison Hemlock | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Cheatgrass | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Tamarisk | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Mile-A-Minute Weed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Reed Canary Grass | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Birdsfoot Trefoil | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Common Reed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Canada Thistle | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Leafy Spurge | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| | | | | | | | | | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |

PLOT COORDINATES

Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble.

If Buffer Plot 3 can not be accessed, take the coordinates at the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plots are centered on the Buffer Transects and the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" bubble, fill in the flag box, and describe where the coordinates were taken and why in the comment section below. The coordinates of the nearest practicable location can be either placed as close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot.

Location of coordinates (choose one):

Flag

AA CENTER ON3 OS3 E3 W3 Nearest practicable location (flag and comment below)

Latitude North 41.29976 Longitude West -81.80285

Use Decimal Degrees; NAD83

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAPMS1275

DATE: 3/27/2012

| | |
|--|--|
| Location: O AA Center O N O S O E O W | Fill in bubble(s) if plot(s) could not be sampled and flag → |
| | O Plot 1 O Plot 2 O Plot 3 |

Buffer Natural Cover Strata

Fill in bubbles for all that apply: Canopy Type: D = Deciduous; E = Evergreen. Leaf Type: B = Broadleaf; N = Needle Leaf. Absent: No tree canopy.

Strata Section: Fill in appropriate cover class bubble for each strata type for each plot. 0 = Absent; 1 = Sparse(<10%); 2=Moderate(10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (>75%)

| Buffer Plot 1 | Canopy Type: <input checked="" type="radio"/> D <input type="radio"/> E | | Absent: <input type="radio"/> 0 | Buffer Plot 2 | Canopy Type: <input type="radio"/> D <input type="radio"/> E | | Absent: <input type="radio"/> 0 | Buffer Plot 3 | Canopy Type: <input type="radio"/> D <input type="radio"/> E | | Absent: <input type="radio"/> 0 | | | | | | | | | |
|---------------------------------------|---|------------------------------------|---------------------------------|------------------------------------|--|---|---------------------------------------|------------------------------------|--|---|---------------------------------|------------------------------------|-------------------------|---------------------------------------|------------------------------------|------------------------------------|-------------------------|------------------------------------|------------------------------------|-------------------------|
| | Leaf Type: <input type="radio"/> B <input checked="" type="radio"/> N | | | | Flag | Leaf Type: <input type="radio"/> B <input checked="" type="radio"/> N | | | Flag | Leaf Type: <input type="radio"/> B <input checked="" type="radio"/> N | | Flag | | | | | | | | |
| Big Trees (>0.3m DBH) | <input type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | | <input checked="" type="radio"/> 4 | | Big Trees (>0.3m DBH) | | <input type="radio"/> 0 | <input type="radio"/> 1 | | <input type="radio"/> 2 | <input type="radio"/> 3 | <input checked="" type="radio"/> 4 | | Big Trees (>0.3m DBH) | <input type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 |
| Small Trees (<0.3m DBH) | <input type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input checked="" type="radio"/> 4 | | Small Trees (<0.3m DBH) | <input checked="" type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | Small Trees (<0.3m DBH) | <input type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input checked="" type="radio"/> 4 | |
| Woody Shrubs, Saplings (0.5m-5m HIGH) | <input type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input checked="" type="radio"/> 3 | <input type="radio"/> 4 | | Woody Shrubs, Saplings (0.5m-5m HIGH) | <input type="radio"/> 0 | <input type="radio"/> 1 | <input checked="" type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | Woody Shrubs, Saplings (0.5m-5m HIGH) | <input type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input checked="" type="radio"/> 3 | <input type="radio"/> 4 | |
| Woody Shrubs, Saplings (<0.5m HIGH) | <input type="radio"/> 0 | <input checked="" type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | Woody Shrubs, Saplings (<0.5m HIGH) | <input type="radio"/> 0 | <input checked="" type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | Woody Shrubs, Saplings (<0.5m HIGH) | <input type="radio"/> 0 | <input checked="" type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | |
| Herbs, Forbs and Grasses | <input type="radio"/> 0 | <input checked="" type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | Herbs, Forbs and Grasses | <input type="radio"/> 0 | <input checked="" type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | Herbs, Forbs and Grasses | <input type="radio"/> 0 | <input checked="" type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | |
| Bare ground | <input type="radio"/> 0 | <input checked="" type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | Bare ground | <input type="radio"/> 0 | <input checked="" type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | Bare ground | <input type="radio"/> 0 | <input checked="" type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | |
| Litter, duff | <input type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input checked="" type="radio"/> 4 | | Litter, duff | <input type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input checked="" type="radio"/> 4 | | Litter, duff | <input type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input checked="" type="radio"/> 4 | |
| Rock | <input checked="" type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | Rock | <input checked="" type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | Rock | <input checked="" type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | |
| Water | <input checked="" type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | Water | <input checked="" type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | Water | <input checked="" type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | |
| Submerged Vegetation | <input checked="" type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | Submerged Vegetation | <input checked="" type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | Submerged Vegetation | <input checked="" type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | |

Stressor Presence/Absence - Confirm that a filled data bubble indicates presence and an unfilled bubble indicates absence by filling this bubble.

| Residential and Urban Stressors | | | | Hydrology Stressors | | | | Agricultural & Rural Stressors | | | | | | |
|---------------------------------|-------------------------|-------------------------|-------------------------|---------------------|--|-------------------------|-------------------------|--------------------------------|------|--|-------------------------|-------------------------|-------------------------|------|
| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
| Road - gravel | <input type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 0 | | Ditches, Channelization | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Pasture/Hay | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | |
| Road - two lane | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Dike/Dam/Road/RR Bed (IMPEDE FLOW) | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Range | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | |
| Road - four lane | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Water Level Control Structure | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Row Crops | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | |
| Parking Lot/Pavement | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Excavation, Dredging | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Fallow Field (RECENT-RESTING ROW CROP FIELD) | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | |
| Golf Course | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Fill/Spoil Banks | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Fallow Field (OLD - GRASS, SHRUBS, TREES) | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | |
| Lawn/Park | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Freshly Deposited Sediment (UNVEGETATED) | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Nursery | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | |
| Suburban Residential | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Soil Loss/Root Exposure | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Dairy | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | |
| Urban/Multifamily | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Wall/Riprap | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Orchard | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | |
| Landfill | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Inlets, Outlets | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Confined Animal Feeding | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | |
| Dumping | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Point Source/Pipe (EFFLUENT OR STORMWATER) | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Rural Residential | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | |
| Trash | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Impervious surface input (SHEETFLOW) | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Gravel Pit | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | |
| Other: _____ | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Other: _____ | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Irrigation | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | |
| Other: _____ | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Other: _____ | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Other: _____ | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | |

| Industrial Development Stressors | | | | Habitat/Vegetation Stressors | | | | | | | | | | |
|----------------------------------|-------------------------|-------------------------|-------------------------|------------------------------|--|------------------------------------|-------------------------|-------------------------|------|---|------------------------------------|-------------------------|-------------------------|------|
| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
| Oil Drilling | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Forest Clear Cut | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Herbicide Use | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | |
| Gas Wells | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Forest Selective Cut | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Mowing/Shrub Cutting | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | |
| Mine (surface) | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Tree Plantation | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Trails | <input checked="" type="radio"/> 1 | <input type="radio"/> 0 | <input type="radio"/> 0 | |
| Mine (underground) | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Tree Canopy Herbivory (INSECT) | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Soil Compaction (ANIMAL OR HUMAN) | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | |
| Military | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Shrub Layer Browsed (WILD OR DOMESTIC) | <input checked="" type="radio"/> 1 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Offroad vehicle damage | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | |
| Other: _____ | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Highly Grazed Grasses (OVERALL \geq 3' HIGH) | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Soil erosion (FROM WIND, WATER, OR OVERUSE) | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | |
| Other: _____ | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Recently Burned Forest Canopy | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Other: _____ | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | |
| Other: _____ | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Recently Burned Grassland (BLACKENED) | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | | Other: _____ | <input type="radio"/> 0 | <input type="radio"/> 0 | <input type="radio"/> 0 | |

Flag codes: K = No measurement made, U = Suspect measurement., F1,F2, etc. = misc. flags assigned by each field crew.

Explain all flags in comment section on the back of this form

2428168304

FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)

Reviewed by (initial): _____

Site ID: PCAPMS1275

DATE: 7/27/2012

- Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble

| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
|-------------------------------|-----------------------|-----------------------|-----------------------|------|-------------------------------|-----------------------|-----------------------|-----------------------|------|-------------------------------|-----------------------|-----------------------|-----------------------|------|
| Eurasian Watermilfoil | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Purple Loosestrife | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Johnson Grass | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Water hyacinth | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Knotweed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Kudzu | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Yellow Floating Heart | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Japanese Knotweed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Multiflora Rose | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Giant Salvinia | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Perennial Pepperweed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Common Buckthorn | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Garlic Mustard | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Giant Reed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Himalayan Blackberry | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Poison Hemlock | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Cheatgrass | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Tamarisk | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Mile-A-Minute Weed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Reed Canary Grass | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Birdsfoot Trefoil | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Common Reed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Canada Thistle | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Leafy Spurge | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| | | | | | | | | | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |

PLOT COORDINATES

Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble.

If Buffer Plot 3 can not be accessed, take the coordinates at the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plots are centered on the Buffer Transects and the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" bubble, fill in the flag box, and describe where the coordinates were taken and why in the comment section below. The coordinates of the nearest practicable location can be either placed as close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot.

Location of coordinates (choose one):

Flag

AA CENTER N3 S3 E3 W3 Nearest practicable location (flag and comment below)

Latitude North 91° 29' 842

Longitude West - 81.80248

Use Decimal Degrees; NAD83

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAP MS 1275

DATE: 07/27/2012

| Location: <u>O AA Center O N O S O E O W</u> | | | | | | Fill in bubble(s) if plot(s) could not be sampled and flag → | | | | | |
|--|--|--|------------------------------|--|--|--|--|--|------------------------------|--|--|
| | | | <input type="radio"/> Plot 1 | | | <input type="radio"/> Plot 2 | | | <input type="radio"/> Plot 3 | | |

Buffer Natural Cover Strata

Fill in bubbles for all that apply: Canopy Type: D = Deciduous; E = Evergreen. Leaf Type: B = Broadleaf; N = Needle Leaf. Absent: No tree canopy.

Strata Section: Fill in appropriate cover class bubble for each strata type for each plot. 0 = Absent; 1 = Sparse(<10%); 2=Moderate(10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (>75%)

| Buffer Plot 1 | Canopy Type: <input type="radio"/> D <input type="radio"/> E | | Absent: <input type="radio"/> | Buffer Plot 2 | Canopy Type: <input type="radio"/> D <input type="radio"/> E | | Absent: <input type="radio"/> | Buffer Plot 3 | Canopy Type: <input type="radio"/> D <input type="radio"/> E | | Absent: <input type="radio"/> |
|---------------------------------------|--|------------------------------------|------------------------------------|-------------------------|--|-----------------------|------------------------------------|------------------------------------|--|------------------------------------|------------------------------------|
| | Leaf Type: <input type="radio"/> B <input type="radio"/> N | | | | Leaf Type: <input type="radio"/> B <input type="radio"/> N | | | | Leaf Type: <input type="radio"/> B <input type="radio"/> N | | |
| Big Trees (>0.3m DBH) | <input type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> |
| Small Trees (<0.3m DBH) | <input type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> |
| Woody Shrubs, Saplings (0.5m-5m HIGH) | <input type="radio"/> 0 | <input type="radio"/> 1 | <input checked="" type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> |
| Woody Shrubs, Saplings (<0.5m HIGH) | <input type="radio"/> 0 | <input checked="" type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> |
| Herbs, Forbs and Grasses | <input type="radio"/> 0 | <input type="radio"/> 1 | <input checked="" type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> 0 | <input checked="" type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> |
| Bare ground | <input type="radio"/> 0 | <input checked="" type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> 0 | <input type="radio"/> 1 | <input checked="" type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> |
| Litter, duff | <input type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input checked="" type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input checked="" type="radio"/> 3 | <input checked="" type="radio"/> 4 |
| Rock | <input type="radio"/> 0 | <input checked="" type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | <input type="radio"/> | <input checked="" type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> |
| Water | <input checked="" type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | <input type="radio"/> | <input checked="" type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> |
| Submerged Vegetation | <input checked="" type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | <input type="radio"/> | <input checked="" type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> |

Stressor Presence/Absence - Confirm that a filled data bubble indicates presence and an unfilled bubble indicates absence by filling this bubble.

| Residential and Urban Stressors | | | | Hydrology Stressors | | | | Agricultural & Rural Stressors | | | | | | |
|---------------------------------|----------------------------------|-----------------------|-----------------------|-----------------------|--|-----------------------|-----------------------|----------------------------------|-----------------------|--|-----------------------|-----------------------|-----------------------|-----------------------|
| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
| Road - gravel | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Ditches, Channelization | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Pasture/Hay | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Road - two lane | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Dike/Dam/Road/RR Bed (IMPEDE FLOW) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Range | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Road - four lane | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Water Level Control Structure | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Row Crops | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Parking Lot/Pavement | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Excavation, Dredging | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Fallow Field (RECENT-RESTING ROW CROP FIELD) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Golf Course | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Fill/Soil Banks | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Fallow Field (OLD - GRASS, SHRUBS, TREES) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Lawn/Park | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Freshly Deposited Sediment (UNVEGETATED) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Nursery | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Suburban Residential | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Soil Loss/Root Exposure | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | Dairy | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Urban/Multifamily | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Wall/Riprap | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Orchard | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Landfill | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Inlets, Outlets | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Confined Animal Feeding | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Dumping | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Point Source/Pipe (EFFLUENT OR STORMWATER) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Rural Residential | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Trash | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Impervious surface input (SHEETFLOW) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Gravel Pit | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Irrigation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| Industrial Development Stressors | | | | Habitat/Vegetation Stressors | | | | | | | | | | |
|----------------------------------|-----------------------|-----------------------|-----------------------|------------------------------|--|----------------------------------|----------------------------------|-----------------------|-----------------------|---|----------------------------------|-----------------------|-----------------------|-----------------------|
| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
| Oil Drilling | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Forest Clear Cut | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Herbicide Use | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Gas Wells | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Forest Selective Cut | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Mowing/Shrub Cutting | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mine (surface) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Tree Plantation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Trails | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mine (underground) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Tree Canopy Herbivory (INSECT) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Soil Compaction (ANIMAL OR HUMAN) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Military | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Shrub Layer Browsed (WILD OR DOMESTIC) | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | Offroad vehicle damage | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Highly Grazed Grasses (OVERALL <3" HIGH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Soil erosion (FROM WIND, WATER, OR OVERUSE) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Recently Burned Forest Canopy | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Recently Burned Grassland (BLACKENED) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Flag codes: K = No measurement made, U = Suspect measurement., F1,F2, etc. = misc. flags assigned by each field crew.

Explain all flags in comment section on the back of this form

2428168304

FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)

Reviewed by (initial): _____

Site ID: PCAP Ms 1275

DATE: 07 / 27 / 2012

Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble

| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
|-------------------------------|-----------------------|-----------------------|-----------------------|------|-------------------------------|-----------------------|-----------------------|-----------------------|------|-------------------------------|----------------------------------|-----------------------|-----------------------|------|
| Eurasian Watermilfoil | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Purple Loosestrife | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Johnson Grass | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Water hyacinth | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Knotweed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Kudzu | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Yellow Floating Heart | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Japanese Knotweed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Multiflora Rose | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Giant Salvinia | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Perennial Pepperweed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Common Buckthorn | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Garlic Mustard | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Giant Reed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Himalayan Blackberry | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Poison Hemlock | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Cheatgrass | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Tamarisk | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Mile-A-Minute Weed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Reed Canary Grass | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Birdsfoot Trefoil | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Common Reed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Canada Thistle | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Leafy Spurge | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| | | | | | | | | | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |

PLOT COORDINATES

Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble.

If Buffer Plot 3 can not be accessed, take the coordinates at the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plots are centered on the Buffer Transects and the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" bubble, fill in the flag box, and describe where the coordinates were taken and why in the comment section below. The coordinates of the nearest practicable location can be either placed as close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot.

Location of coordinates (choose one):

Flag

AA CENTER N3 S3 E3 W3 Nearest practicable location (flag and comment below)

Latitude North 41.29951

Longitude West

81.80447

Use Decimal Degrees: NAD83

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAP MS 1275

DATE: 07/27/2012

| Location: <u>O AA Center N S O E O W</u> | | | | | | Fill in bubble(s) if plot(s) could not be sampled and flag → | | | | | |
|--|--|--|-----------------|--|--|--|--|--|-----------------|--|--|
| | | | <u>O Plot 1</u> | | | <u>O Plot 2</u> | | | <u>O Plot 3</u> | | |

Buffer Natural Cover Strata

Fill in bubbles for all that apply. Canopy Type: D = Deciduous, E = Evergreen. Leaf Type: B = Broadleaf, N = Needle Leaf. Absent: No tree canopy.

Strata Section: Fill in appropriate cover class bubble for each strata type for each plot. 0 = Absent; 1 = Sparse(<10%); 2=Moderate(10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (>75%)

| Buffer Plot 1 | Canopy Type: <u>D</u> <u>E</u> | | Absent: <input type="radio"/> | Buffer Plot 2 | Canopy Type: <u>D</u> <u>E</u> | | Absent: <input type="radio"/> | Buffer Plot 3 | Canopy Type: <u>D</u> <u>E</u> | | Absent: <input type="radio"/> |
|---------------------------------------|----------------------------------|----------------------------------|----------------------------------|-----------------------|--------------------------------|----------------------------------|-------------------------------|-----------------------|----------------------------------|----------------------------------|-------------------------------|
| | Leaf Type: <u>B</u> <u>N</u> | | | | Leaf Type: <u>B</u> <u>N</u> | | | | Leaf Type: <u>B</u> <u>N</u> | | |
| Big Trees (>0.3m DBH) | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |
| Small Trees (<0.3m DBH) | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |
| Woody Shrubs, Saplings (0.5m-5m HIGH) | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |
| Woody Shrubs, Saplings (<0.5m HIGH) | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |
| Herbs, Forbs and Grasses | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Bare ground | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |
| Litter, duff | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |
| Rock | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Water | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Submerged Vegetation | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Stressor Presence/Absence - Confirm that a filled data bubble indicates presence and an unfilled bubble indicates absence by filling this bubble.

| Residential and Urban Stressors | | | | Hydrology Stressors | | | | Agricultural & Rural Stressors | | | | | | |
|---------------------------------|-----------------------|-----------------------|-----------------------|---------------------|--|-----------------------|-----------------------|--------------------------------|------|--|-----------------------|-----------------------|-----------------------|------|
| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
| Road - gravel | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Ditches, Channelization | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Pasture/Hay | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Road - two lane | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Dike/Dam/Road/RR Bed (IMPEDE FLOW) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Range | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Road - four lane | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Water Level Control Structure | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Row Crops | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Parking Lot/Pavement | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Excavation, Dredging | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Fallow Field (RECENT-RESTING ROW CROP FIELD) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Golf Course | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Fill/Spoil Banks | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Fallow Field (OLD - GRASS, SHRUBS, TREES) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Lawn/Park | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Freshly Deposited Sediment (UNVEGETATED) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Nursery | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Suburban Residential | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Soil Loss/Root Exposure | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Dairy | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Urban/Multifamily | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Wall/Riprap | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Orchard | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Landfill | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Inlets, Outlets | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Confined Animal Feeding | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Dumping | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Point Source/Pipe (EFFLUENT OR STORMWATER) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Rural Residential | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Trash | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Impervious surface input (SHEETFLOW) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Gravel Pit | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Irrigation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |

| Industrial Development Stressors | | | | Habitat/Vegetation Stressors | | | | | | | | | | |
|----------------------------------|-----------------------|-----------------------|-----------------------|------------------------------|--|----------------------------------|----------------------------------|----------------------------------|------|---|----------------------------------|-----------------------|-----------------------|-----------------------|
| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
| Oil Drilling | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Forest Clear Cut | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Herbicide Use | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Gas Wells | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Forest Selective Cut | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Mowing/Shrub Cutting | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Mine (surface) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Tree Plantation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Trails | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mine (underground) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Tree Canopy Herbivory (INSECT) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Soil Compaction (ANIMAL OR HUMAN) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Military | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Shrub Layer Browsed (WILD OR DOMESTIC) | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | | Offroad vehicle damage | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Highly Grazed Grasses (OVERALL <3' HIGH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Soil erosion (FROM WIND, WATER, OR OVERUSE) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Recently Burned Forest Canopy | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Recently Burned Grassland (BLACKENED) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |

Flag codes: K = No measurement made, U = Suspect measurement., F1,F2, etc. = misc. flags assigned by each field crew.

Explain all flags in comment section on the back of this form

2428168304

FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)

Reviewed by (initials): _____

Site ID: PCAP MS 1275

DATE: 07/27/2012

• Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble

| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
|-------------------------------|-----------------------|-----------------------|-----------------------|------|-------------------------------|-----------------------|-----------------------|-----------------------|------|-------------------------------|-----------------------|-----------------------|-----------------------|------|
| Eurasian Watermilfoil | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Purple Loosestrife | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Johnson Grass | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Water hyacinth | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Knotweed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Kudzu | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Yellow Floating Heart | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Japanese Knotweed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Multiflora Rose | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Giant Salvinia | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Perennial Pepperweed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Common Buckthorn | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Garlic Mustard | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Giant Reed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Himalayan Blackberry | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Poison Hemlock | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Cheatgrass | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Tamarisk | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Mile-A-Minute Weed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Reed Canary Grass | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Birdsfoot Trefoil | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Common Reed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Canada Thistle | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Leafy Spurge | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| | | | | | | | | | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |

PLOT COORDINATES

Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble.

If Buffer Plot 3 can not be accessed, take the coordinates at the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plots are centered on the Buffer Transects and the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" bubble, fill in the flag box, and describe where the coordinates were taken and why in the comment section below. The coordinates of the nearest practicable location can be either placed as close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot.

Location of coordinates (choose one):

Flag

AA CENTER N3 S3 E3 W3 Nearest practicable location (flag and comment below)

Latitude North 41.30100

Longitude West

81.80283

Use Decimal Degrees: NAD83