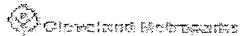


CLEVELAND METROPARKS Plant Community Assessment Program: Quality Control Form



Project Label: PCAP Plot No: 1195 Date Sampled: Aug 18 2011 Lead: D. STAYER

Comment required if item answer is NO

| | | |
|--|--|--|
| Parking/Access outside of Park Boundaries. | <input checked="" type="radio"/> Y <input type="radio"/> N | If yes, write details in Comments section below |
| Field journals completed | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Site sketch made on 1:3000 map? | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Check cover page | X-axis Bearing of plot recorded | <input checked="" type="radio"/> Y <input type="radio"/> N |
| | GPS coords Recorded | <input checked="" type="radio"/> Y <input type="radio"/> N |
| | North direction recorded | <input checked="" type="radio"/> Y <input type="radio"/> N |
| | Photographs taken? | <input checked="" type="radio"/> Y <input type="radio"/> N |
| Plot No., Date agreement on all pages? | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Header data completed all pages? | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Cover classes recorded in all Intensive modules | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Browse Level By Species | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Woody stem quality control check | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Invasive plant quality control check | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Ash trees mapped | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Cover by Strata? (confirm cover type) | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Soil samples collected with matching plot # | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Vouchers labeled on datasheet with initials and number | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Vouchers labeled on collection bag | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Pink flags removed | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Data sheet QA before leaving site? | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Common equipment returned to tub. | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Data sheets scanned? | | Enter date to left 8-23-11 |
| Final data sheets scanned? | | Enter date to left |
| Buffer Widths measured? | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Web Soil Survey | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Voucher Location | Refrigerator | <input checked="" type="radio"/> Y <input type="radio"/> N |
| (# vouchers collected) | Press (#) | Enter number to left |
| DS 250- 252 | Drier | <input checked="" type="radio"/> Y <input type="radio"/> N |
| | Identified | <input checked="" type="radio"/> Y <input type="radio"/> N |
| | Mounted | <input checked="" type="radio"/> Y <input type="radio"/> N |
| | Thrown away | <input checked="" type="radio"/> Y <input type="radio"/> 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:

Last plot of 2011!

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Page 1 of 2

GENERAL INFORMATION

Project Label: PCAP

Project Name: 01/02/2001

Plot Name: "SOMETHING WITH A BRIDGE"

Plot No.: 1195

Level 4 (no nested corners sampled)

Level 5 (nested corners sampled)

Date (mm/dd/yyyy): 08/22/2001

End date (if > 1 day): 08/22/2001

Party

Role**

Plot leader, BUTTER

If data not public why?

Source of coordinates: MAP GPS

GPS location in plot x=0 to 5, y=-1.0,+1:

x = 1 y = 0 (base of plot x=0, y=0)

Coordinate system:

Lat/Long UTM StatePlane

deg deg min

Other (specify) m ft

Datum: NAD83/WGS84 NAD27

Latitude: 41.48762

Longitude: 81.93641

Coord. Accuracy: m ft + .30

GPS File Name: 1195A

Plot size for cover data: 0.04 (hectares)

Stems not sampled on this plot

Stems present Plot size stems: 0.04 (ha)

Depth: (1-5): 4

Intensive modules: 2, 3, 8, 9, 12, 3, 4 (EDIT IF MODIFIED)

Camera No.: C3

Photo Nos.: C3 - 0646, 0647

Effort Level:

Very thorough

Accurate

Hurried

subjective evaluation of how much effort put into sampling. Hurried plots may still provide good data

TAXONOMIC ACCURACY

vascular: high moderate, low not sampled

bryo: n/a

lichen:

TAXONOMIC STANDARD

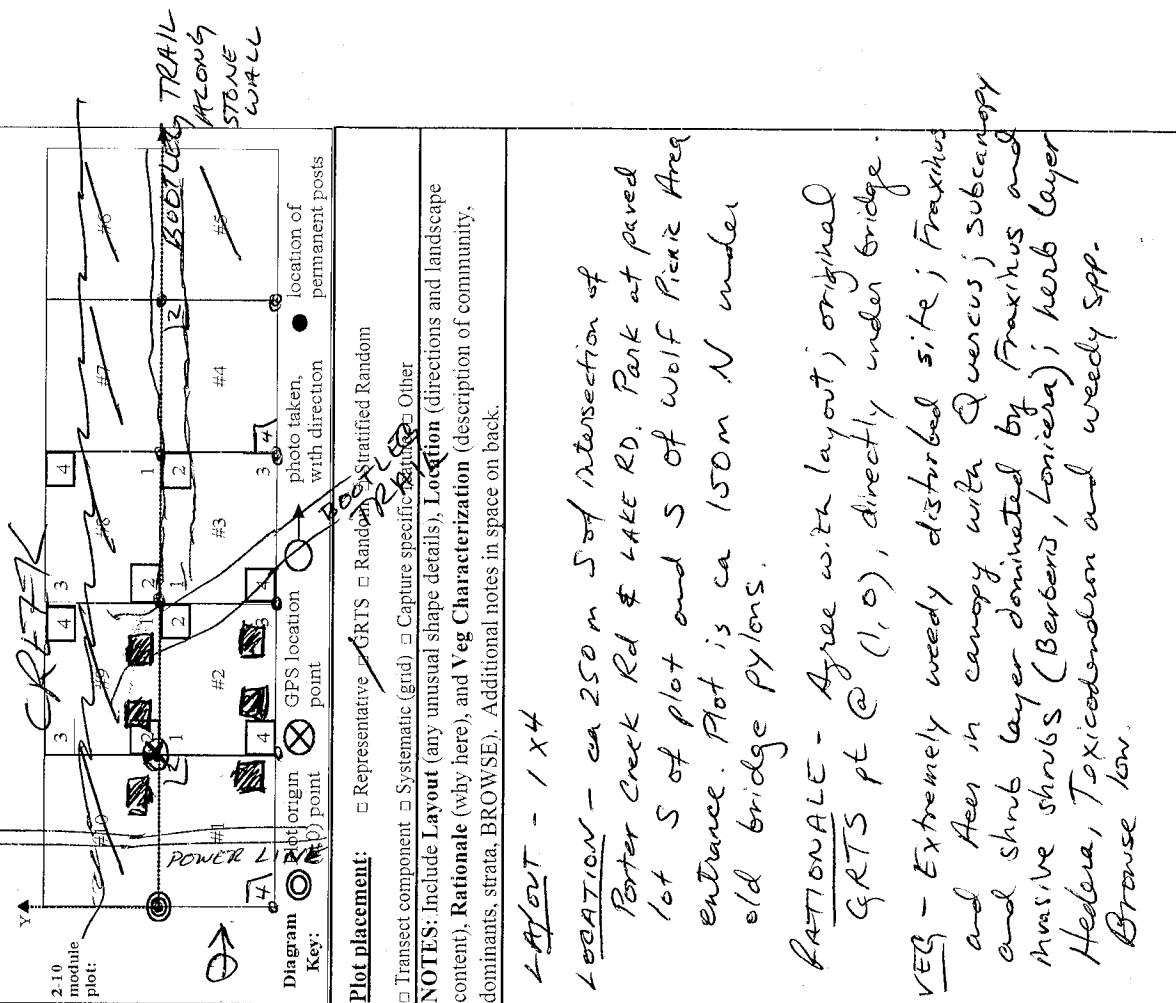
Authority: G&C Pub Date: 1998

Minimum required fields in Bold and Underlined

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

| LOCATION | |
|---|-------------------------------|
| <u>State:</u> OH | County: Cuyahoga |
| Quadrangle: NORTH CLEVELAND | |
| Local Place Names: VOLK PICNIC AREA | |
| Landowner: <u>ELKHORN METRO</u> | X-axis Bearing of plot: [40]° |
| Data Confidentiality: | |
| Check one: <input checked="" type="checkbox"/> Public data <input type="checkbox"/> Private Data | |
| <input type="checkbox"/> Fuzz 100m <input type="checkbox"/> Fuzz 250m <input type="checkbox"/> Fuzz 500m | |
| Reason: | |
| <input type="checkbox"/> If data not public why? | |
| <input type="checkbox"/> Source of coordinates <input type="checkbox"/> MAP <input checked="" type="checkbox"/> GPS | |
| GPS location in plot x=0 to 5, y=-1.0,+1: x = <u>1</u> y = <u>0</u> (base of plot x=0, y=0) | |
| <u>Coordinate system:</u> | |
| <input checked="" type="checkbox"/> Lat/Long <input type="checkbox"/> UTM <input type="checkbox"/> StatePlane | |
| <input type="checkbox"/> deg <input type="checkbox"/> deg min | |
| <input type="checkbox"/> Other (specify) <u>m <input type="checkbox"/> ft</u> | |
| <u>Datum:</u> <input checked="" type="checkbox"/> NAD83/WGS84 <input type="checkbox"/> NAD27 | |
| <u>Latitude:</u> 41.48762 | |
| <u>Longitude:</u> 81.93641 | |
| <u>Coord. Accuracy:</u> <input checked="" type="checkbox"/> m <input type="checkbox"/> ft <u>+ .30</u> | |
| <u>GPS File Name:</u> 1195A | |
| <u>Plot size for cover data:</u> 0.04 (hectares) | |
| <input type="checkbox"/> Stems not sampled on this plot | |
| <input type="checkbox"/> Stems present <u>Plot size stems: 0.04 (ha)</u> | |
| <u>Depth:</u> (1-5): <u>4</u> | |
| <u>Intensive modules:</u> 2, 3, 8, 9, 12, 3, 4 (EDIT IF MODIFIED) | |
| <u>Camera No.:</u> C3 | |
| <u>Photo Nos.:</u> C3 - 0646, 0647 | |

OVER



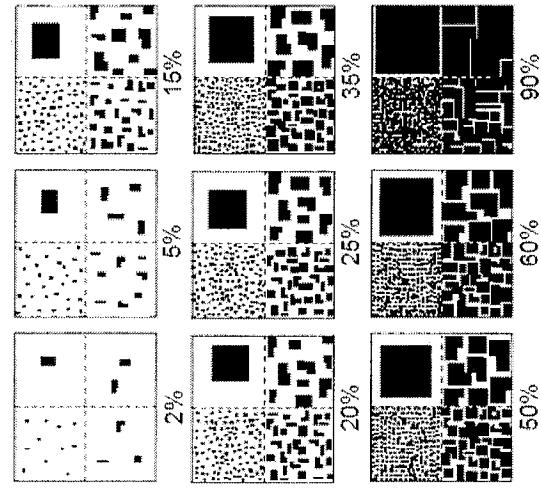
NOTES: Include Layout (any unusual shape details), Location (directions and landscape content), Rationale (why here), and Veg Characterization (description of community dominants, strata, BROWSE). Additional notes in space on back.

REASONS - Agree w/ the layout; original GRTS pt @ (1, 0), directly under bridge.

REASONS - Agree w/ the layout; Fraxinus and Acer in canopy with Quercus; subcanopy and shrub layer dominated by Fraxinus and massive shrubs (Berberis, Loropetalum, Helexia, Toxicodendron and weedy spp.).
Bronze low.

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.



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.

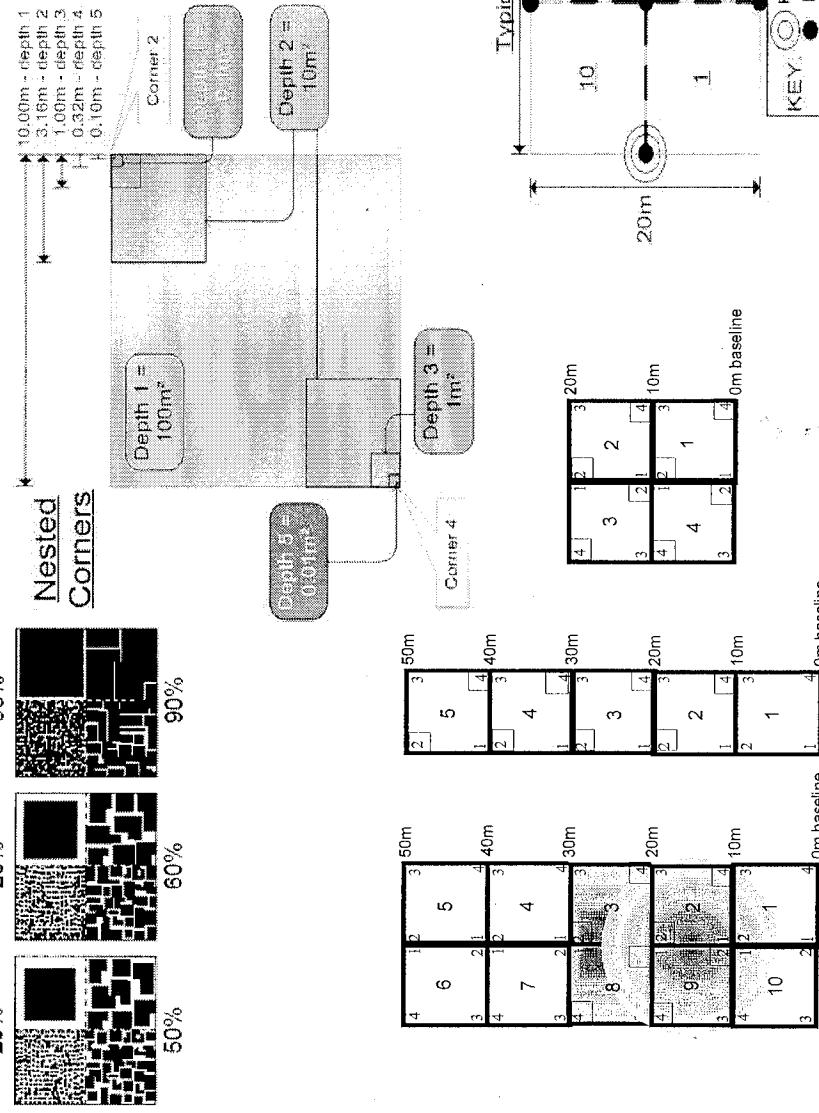
MEDIUM: browse affects greater than 10 percent and less than 25 percent of stems in the 1 m² nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of vegetation, but careful examination may show preferential browse and/or browse lines for some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

| cover class | % cover | midpoint |
|-------------|-----------------|----------|
| 1 | solitary or few | 0.0001 |
| 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 |



CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet

Page 2 of 4

Project name: 0146 204

Plot no. 1195

Project label: PCAP

Total marshes:

Visual est. % open water entire site:

Intensive modules:

Plot area (ha):

Plot configuration:

Visual est. % invasives entire site:



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

Estimate for each intensive module:

| mod | cover |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| depth | cov |

% unoccupied open water

1

% unoccupied bare soil

1

% unoccupied litter

1

depth cov

% open water entire site

1

% unoccupied bare soil

1

% unoccupied litter

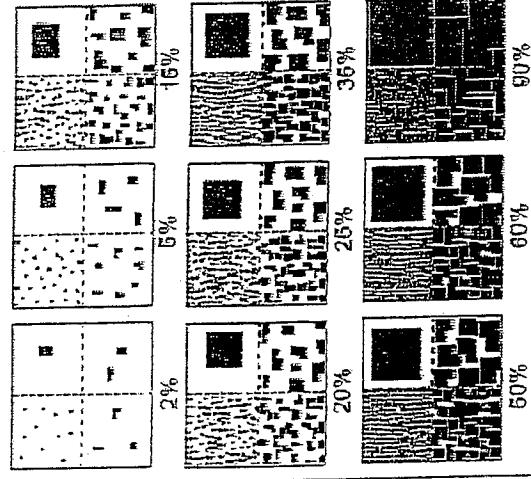
1

depth cov

| T | S | H | (F) | (A) | Br: | Species | G | Voucher # | mod | cover | mod | cover | mod | cover | mod | cover | mod | cover | |
|---|---|---|-----|-----|-----|----------------------------------|---|-----------|---------------|-------|-----|-------|-----|-------|-----|-------|-----|-------|--|
| 1 | 2 | | | | | <i>Juncus tenuis</i> | | | 1 | 2 | 2 | 2 | 3 | 4 | 2 | 4 | 4 | 2 | |
| 1 | | | | | | <i>Athyrium rhomboides</i> | | | 2 | 3 | 2 | 2 | 4 | 4 | 4 | 4 | 2 | 2 | |
| 1 | | | | | | <i>Asteraceae sp.</i> | | | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 1 | | | | | | <i>Digitalis ischaemum</i> | X | DS 247 | 2 | 1 | | | | | | | | | |
| 1 | | | | | | <i>Polygonia annua</i> | X | DS 248 | 2 | 1 | | | | | | | | | |
| 1 | | | | | | <i>Medicago lupulina</i> | | | 2 | 1 | | | | | | | | | |
| 1 | | | | | | <i>Phytolacca americana</i> | | | 2 | 1 | | | | | | | | | |
| 1 | | | | | | <i>Melissa officinalis</i> | | | 2 | 1 | | | | | | | | | |
| 1 | | | | | | <i>Lakokawa dicot</i> | | | tree seedling | 2 | 1 | 2 | | | | | | | |
| 1 | | | | | | <i>Erythronium americanum</i> | | | 2 | 1 | | | | | | | | | |
| 1 | | | | | | <i>Taxodium officinale</i> | | | 2 | 1 | | | | | | | | | |
| 1 | | | | | | <i>Kalmia dentatum</i> | | | 1 | 1 | | | | | | | | | |
| 1 | | | | | | <i>Berberis Thunbergii</i> | | | 1 | 3 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 5 | 2 | | | | | <i>Ulmus americana</i> | | | 1 | 2 | 1 | 1 | 6 | 3 | 4 | 1 | 2 | | |
| 1 | | | | | | <i>Pilea pumila</i> | | | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | | |
| 2 | | | | | | <i>Leersia virginica</i> | | | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | | | |
| 1 | | | | | | <i>Polygonum cuspidatum</i> | | | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | | | |
| 1 | 2 | | | | | <i>Polygonum hydropiperoides</i> | X | DS 249 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | | |
| 1 | | | | | | <i>Tompsonia capensis</i> | | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | | |
| 1 | | | | | | <i>Frechiera hieracifolia</i> | | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | | |
| 1 | | | | | | <i>Moss sp.</i> | | | 1 | 1 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | | |
| 1 | | | | | | <i>Carex sp. (bladet)</i> | | | 1 | 2 | 1 | 3 | 1 | 2 | 1 | 2 | 1 | | |
| 1 | | | | | | <i>Catalpa speciosa</i> | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 3 | 1 | | | | | <i>Crataegus sp.</i> | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 1 | | | | | | <i>Viola sp.</i> | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |

EXAMPLES OF PERCENT OF AREA COVERED

The following graphic set illustrates various data elements to contrary "Amount" or "Quantity". (Ex. Within any given link, each quadrant contains the same total area covered, just different visual objects).



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.

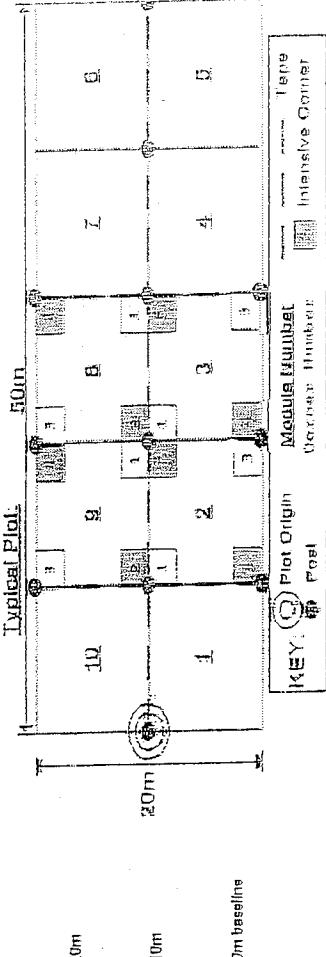
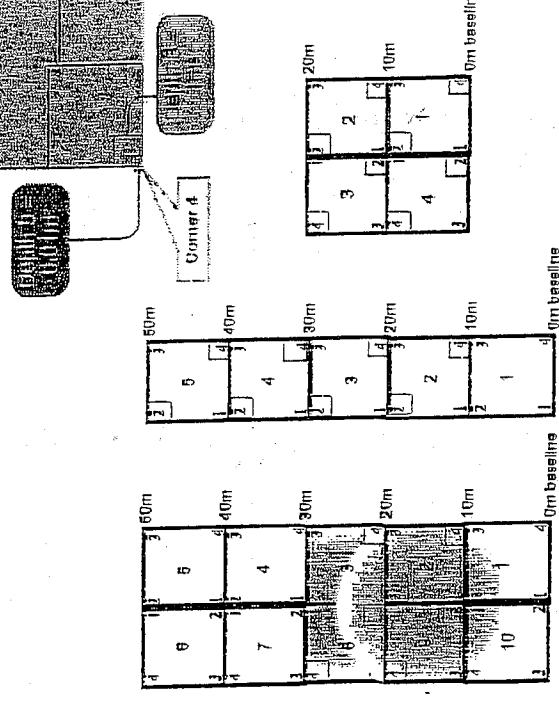
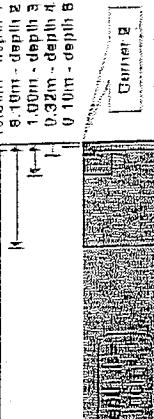
MEDIUM: browse affects greater than 10 percent and less than 25 percent of stems in the 1-m² nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of plants.

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.

| Cover class | % cover | mild point |
|-------------|-----------------|------------|
| 1 | solitary or few | 0.0001 |
| 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% | 0.860 |
| 10 | 95-100% | 0.975 |



CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet

Total evaporation

VOLUME 25 NUMBER 1

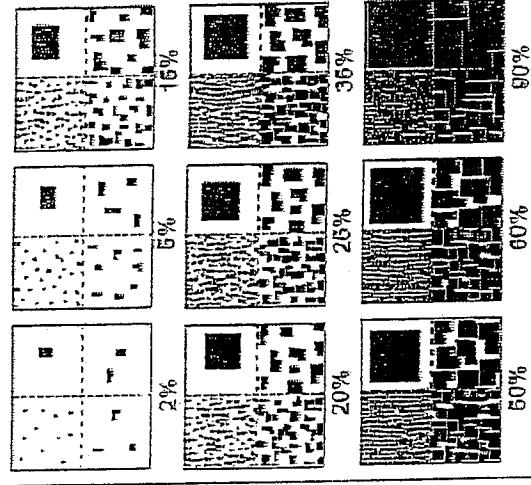
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Visual est. %Invasives en la sierra

total area (ha) _____

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 plot, both quadrant corners lie within that area covered, but different sized objects.



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.

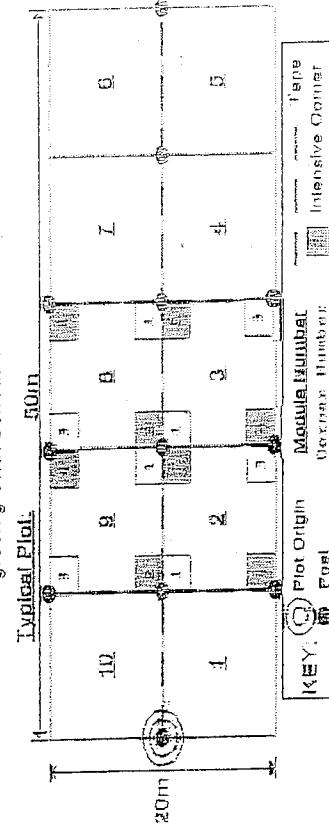
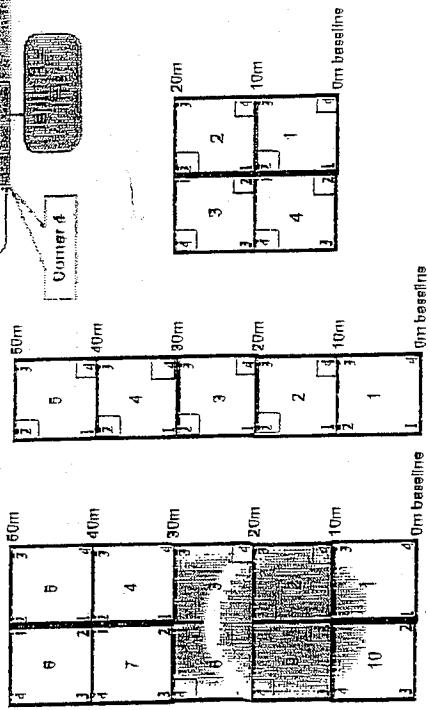
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CLEVELAND METROPARKS Plant Community Assessment Program Species Count Data Sheet

Total modules

ESTUARIES 1993

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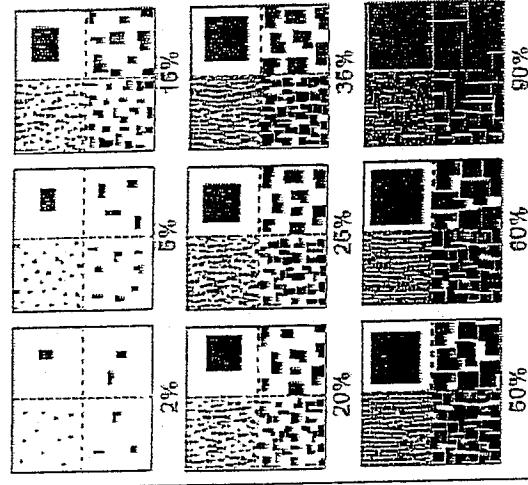
Project name: 01/14/2011
ensive modules: 4 Plot config

Plot no. 1195

Plot area (km²)

EXAMPLES OF PERCENT OF AREA COVERED

The following graphic can be used for various data elements to survey Anugut or "Quality". NOTE: Within any given plot, depth quadrat counts in the same plot area covered, just different sized objects.



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.

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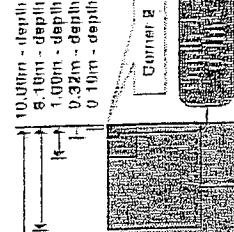
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HIGH: greater than 25 percent of the stems of plants in the 1 m² nested quadrat and intensive module AND a browse line is evident.

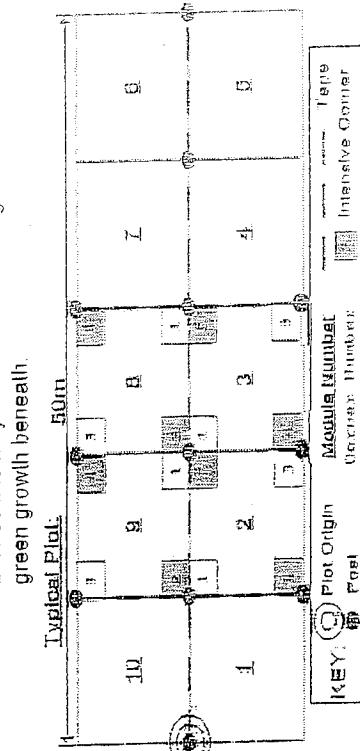
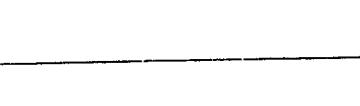
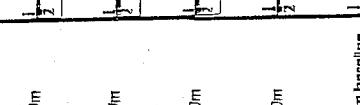
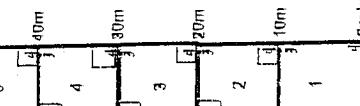
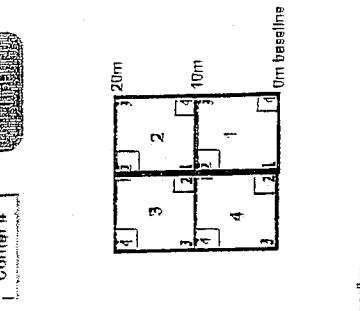
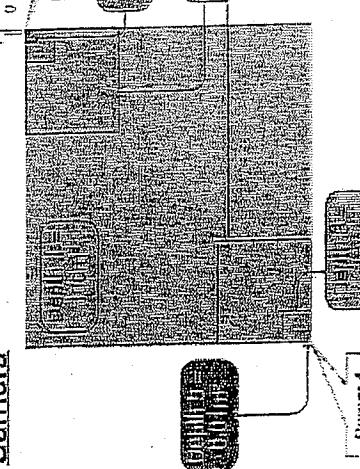
VERY HIGH values include extensive browse conditions, where the browse line is very evident AND almost all seedlings and herbs are severely browsed or missing.

Browse line may be 5 to 6 feet in height with no or little green growth beneath.

| cover class | % cover | midthread |
|-------------|-----------------|-----------|
| 1 | solitary or few | 0.0001 |
| 2 | 0-1% | 0.000 |
| 3 | 1-2% | 0.015 |
| 4 | 2-5% | 0.030 |
| 5 | 5-10% | 0.075 |
| 6 | 10-25% | 0.175 |
| 7 | 25-50% | 0.375 |
| 8 | 50-75% | 0.925 |
| 9 | 75-90% | 0.650 |
| 10 | 95-100% | 0.975 |



Nested Corners



0m baseline

10m baseline

20m baseline

30m baseline

40m baseline

50m baseline

KEY: (C) Plot Origin Post

Module Number

Coverage Number

Intensive Corner

CLEVELAND NATURAL PLANT COMMUNITY ASSESSMENT NATURAL PLANT DATA SHEET

Project Label: PCAP

Project Name: OH HI 2011

Plot No.: 1195

Page: 1 of 3

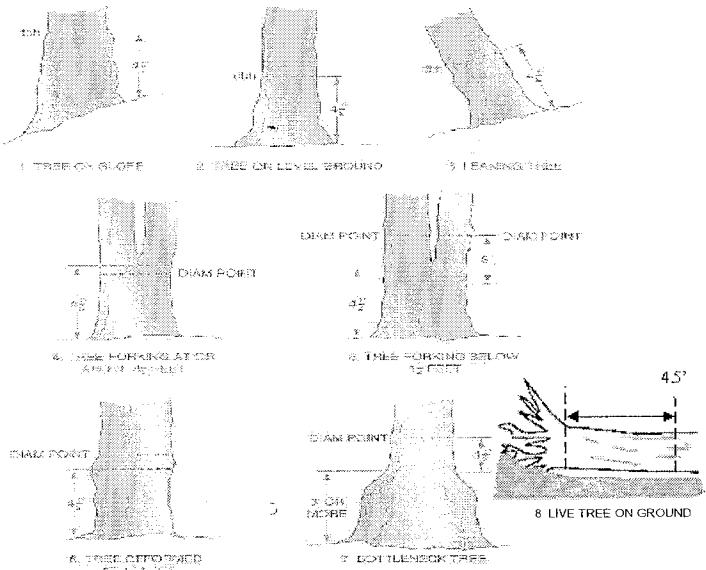
Gardening Megastore

Explain subsample (additional room on back):

24

| mod # | species | c voucher# | # stems 0.5-1m browsed | % sub or super sample | # shrub clumps | size class (cm) woody stems >1m | | | | | 7 | 8 | 9 | 10 | 11 |
|-------|-------------------------------|------------|------------------------------|-----------------------------|----------------------|---------------------------------|-------------|-------------|------------|-------------|---|---|---|----|------------------------|
| | | | | | | 1 0<1 | 2 1-<2.5 | 3 2.5-<5 | 4 5-<10 | 5 10-<15 | | | | | |
| 1 | <i>Fraxinus americana</i> | | * | | | | | | | | | | | | >40 (record each tree) |
| 1 | <i>Rosa multiflora</i> | | | | | X | X | X | X | X | | | | | |
| 1 | <i>Lonicera morrowii</i> | | | | | | | | | | | | | | |
| 1 | <i>Zanthoxylum americanum</i> | | | | | | | | | | | | | | |
| 1 | <i>Ligustrum vulgare</i> | | | | | | | | | | | | | | |
| 1 | <i>Betula nigra</i> | | | | | | | | | | | | | | |
| 1 | <i>Ulmus americana</i> | | | | | | | | | | | | | | |
| 1 | <i>Fragaria alans</i> | | | | | | | | | | | | | | |
| 1 | Standing Dead | | | | | | | | | | | | | | |
| 1 | <i>Vitis riparia</i> | | | | | | | | | | | | | | |
| 1 | <i>Ostrya virginiana</i> | | | | | | | | | | | | | | |
| 1 | <i>Prunus Serotina</i> | | | | | | | | | | | | | | |
| 1 | <i>Toxicodendron radicans</i> | | | | | | | | | | | | | | |
| 1 | <i>Acer platanoides</i> | | | | | | | | | | | | | | |
| 1 | <i>Acer saccharum</i> | | | | | | | | | | | | | | |
| 1 | <i>Fraxinus pennsylvanica</i> | | | | | | | | | | | | | | |
| 2 | <i>Ostrya virginiana</i> | | | | | | | | | | | | | | |
| 2 | <i>Fraxinus americana</i> | | | | | | | | | | | | | | |
| 2 | Standing Dead | | | | | | | | | | | | | | |
| 2 | <i>Acer saccharum</i> | | | | | | | | | | | | | | |
| 2 | <i>Cornus foemina</i> | | | | | | | | | | | | | | |
| 2 | <i>Acer rubrum</i> | | | | | | | | | | | | | | |
| 2 | <i>Prunus serotina</i> | | | | | | | | | | | | | | |
| 2 | <i>Ulmus americana</i> | | | | | | | | | | | | | | |

DBH Measurement Rules



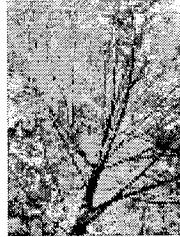
Woody Stem Deer Browse

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

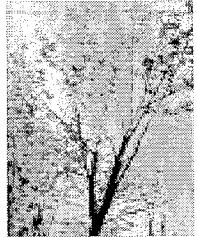
Record using the tally system from 1 to 10



1



2



3



4



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: 61 HU 2&11

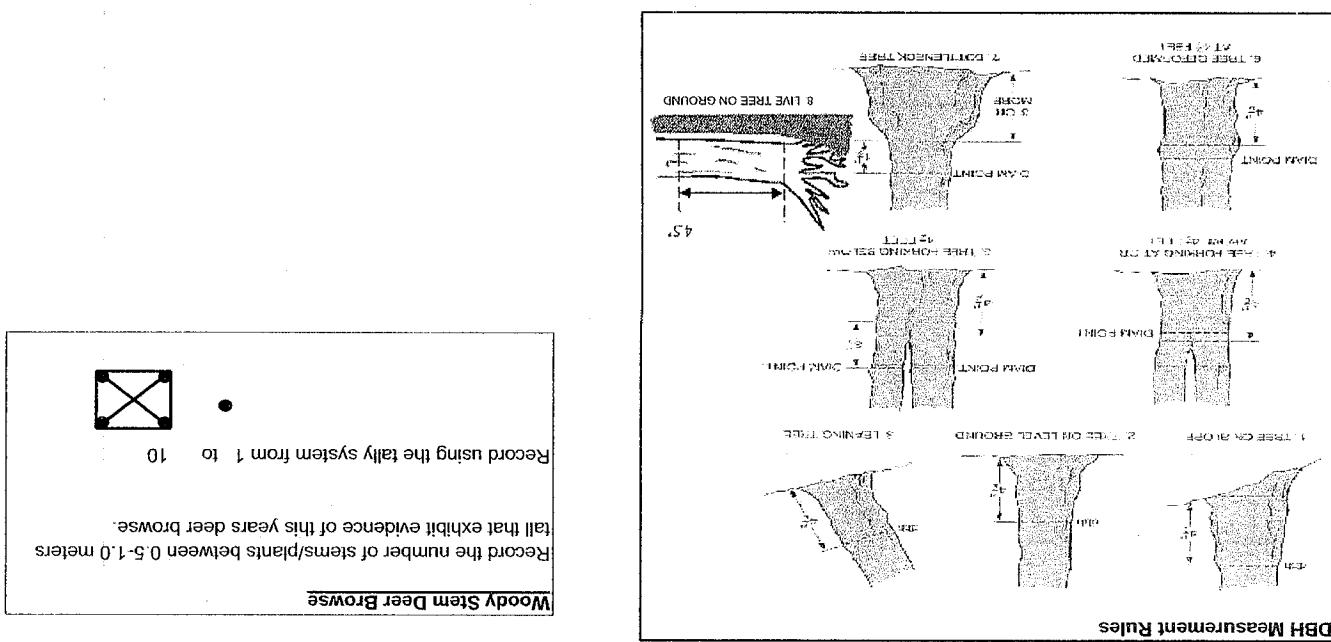
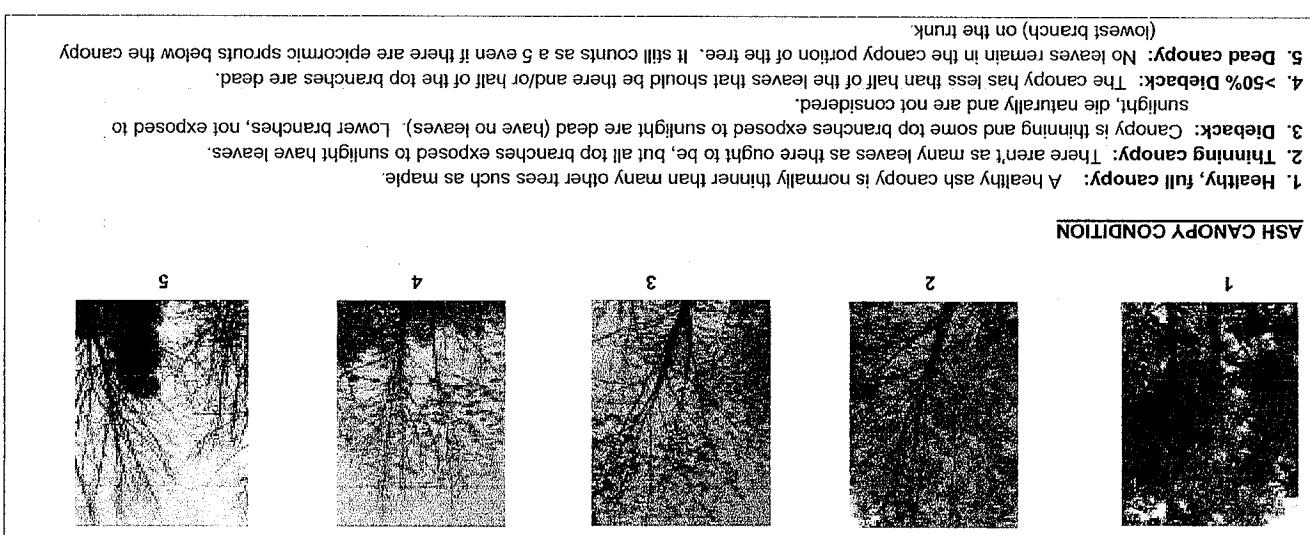
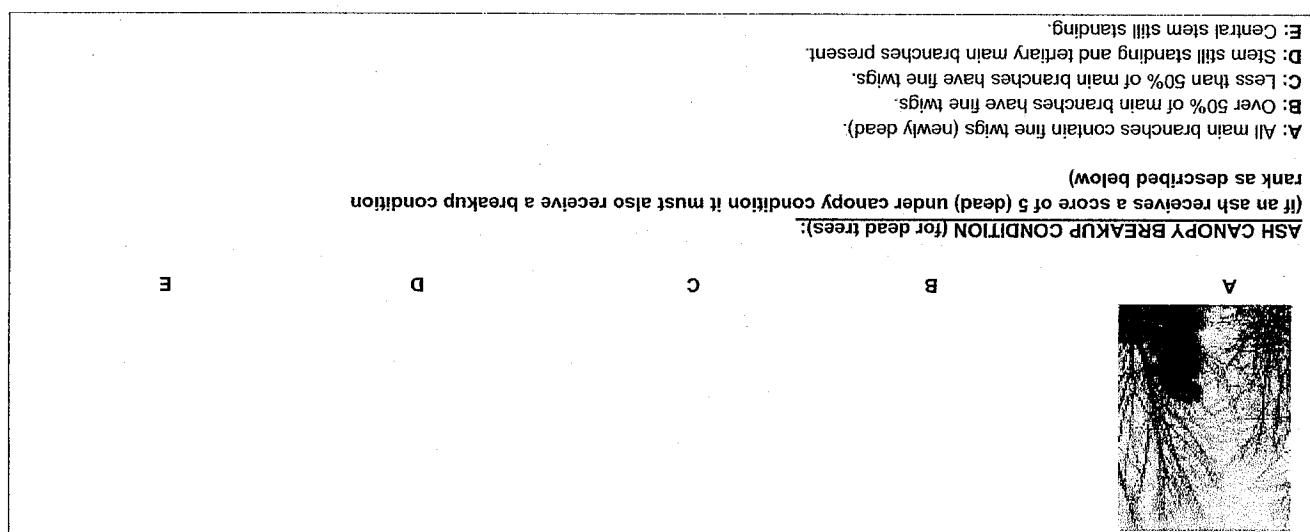
Plot No.: 1195

Page: 2 of 3



Explain subsample (additional room on back):

| mod # | species | c voucher# | # stems 0.5-1m browsed | % sub or super sample | # shrub clumps | size class (cm) woody stems > 1m | | | | | | | | | | 11 >40 (record each tree) |
|-------|------------------------------------|---------------|------------------------------|-----------------------------|----------------------|----------------------------------|---|---|---|---|---|---|---|---|----|------------------------------|
| | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| 2 | <i>Rosa multiflora</i> | | | | * | | | | | | | | | | | |
| 2 | <i>Berberis thunbergii</i> | | | | 2 | | | | | | | | | | | |
| 2 | <i>Prunus cerasus</i> | | | | | | | | | | | | | | | |
| 2 | <i>Lonicera morrowii</i> | | | | 1 | | | | | | | | | | | |
| 2 | <i>Fragaria ananassa</i> | | | | | | | | | | | | | | | |
| 3 | <i>Fraxinus sp.</i> | | | | | | | | | | | | | | | |
| 3 | <i>Larix laricina</i> | | | | | | | | | | | | | | | |
| 3 | <i>Toxicodendron radicans</i> | | | | | | | | | | | | | | | |
| 3 | <i>Berberis thunbergii</i> | | | | | | | | | | | | | | | |
| 3 | <i>Rosa multiflora</i> | | | | | | | | | | | | | | | |
| 3 | <i>Fragaria ananassa</i> | | | | | | | | | | | | | | | |
| 3 | <i>Smilax rotundifolia</i> | | | | | | | | | | | | | | | |
| 3 | <i>Lonicera japonica</i> | | | | | | | | | | | | | | | |
| 3 | <i>Rubus allegheniensis</i> | | | | | | | | | | | | | | | |
| 3 | <i>Acer rubrum</i> | | | | | | | | | | | | | | | |
| 3 | <i>Quercus rubra</i> | | | | | | | | | | | | | | | |
| 3 | <i>Parthenocissus quinquefolia</i> | | | | | | | | | | | | | | | |
| 3 | <i>Sassafras albidum</i> | | | | | | | | | | | | | | | |
| 3 | <i>Crataegus sp.</i> | | | | | | | | | | | | | | | |
| 3 | <i>Prunus cerasus</i> | | | | | | | | | | | | | | | |
| 3 | <i>Acer saccharinum</i> | | | | | | | | | | | | | | | |
| 3 | <i>Prunus serotina</i> | | | | | | | | | | | | | | | |
| 3 | next page const. data | | | | | | | | | | | | | | | |



CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

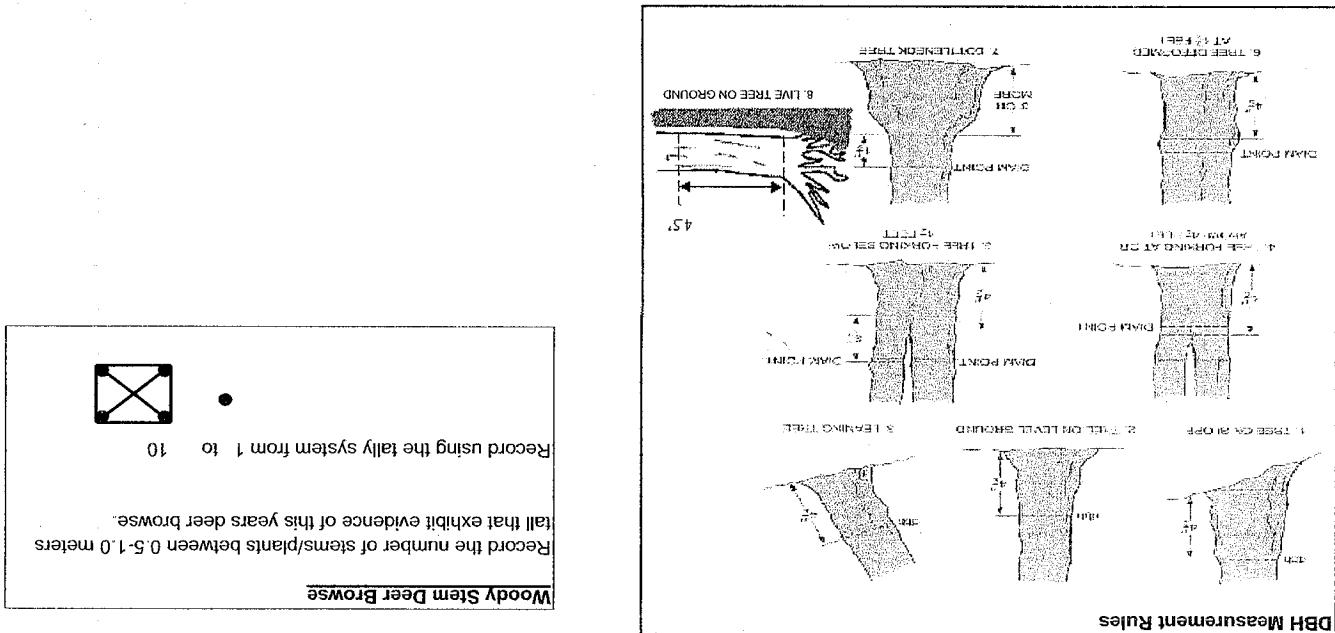
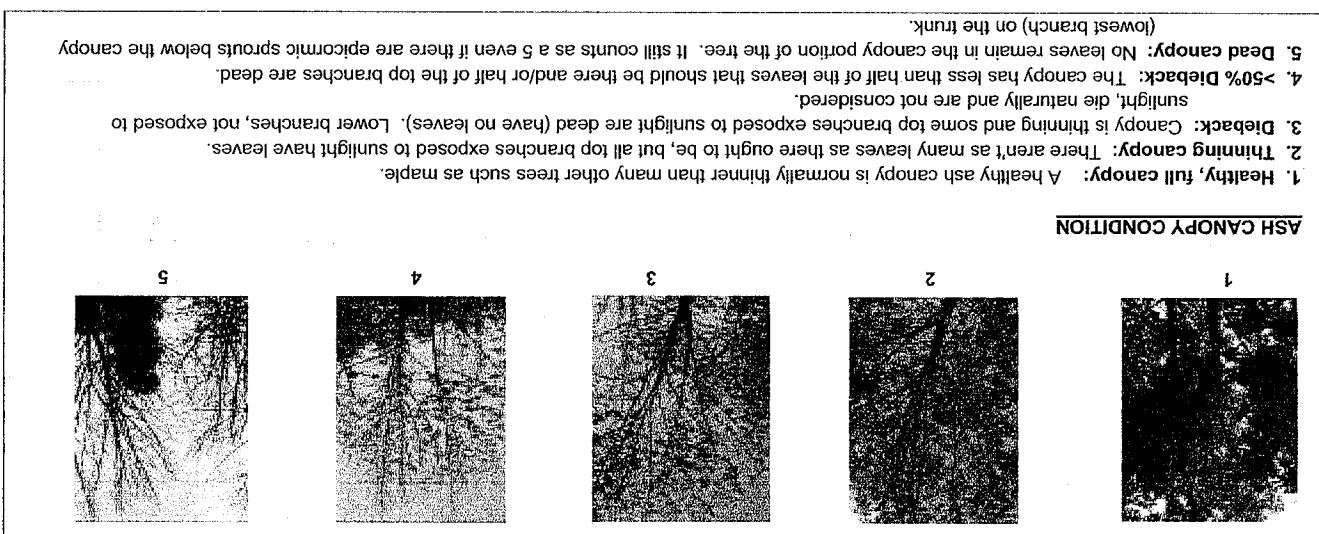
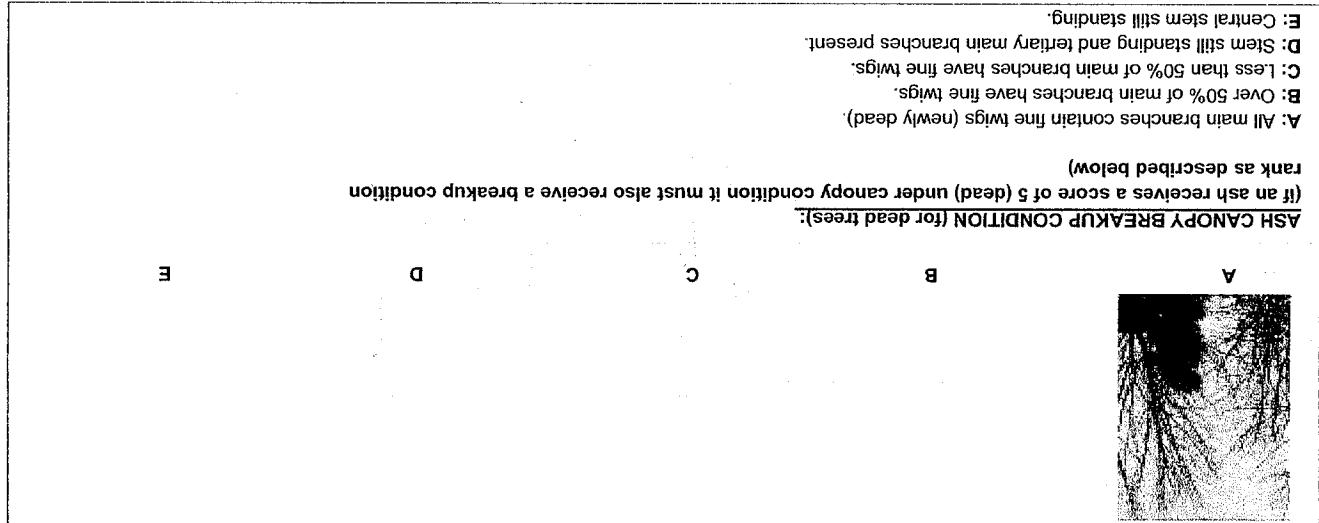
Project Name: 01 Hu201

Plot No.: 1193

Page: 3 of 3

Explain subsample (additional room on back)

Plot No.: 1145 Page: 3 of 3



CLEVELAND METROPARKS Emerald Ash Borer - Fraxinus Sheet

Project Label: PCAP

INTENSIVE MODULES ONLY TREES \geq 10CM ONLY
Plot No.: 1195 Date: 21 May 2011

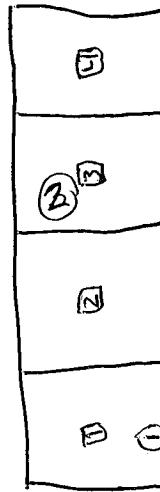
Page: 1 of 2

| Tree Module | Tree ID. | Species | DBH (cm) | Voucher # | DBH (cm) | Ht @ DBH | Ash condition | # Dead condition | # Exit holes | Epicormic present | Woodpecker holes |
|-------------|----------|--------------------|----------|-----------|----------|----------|---------------|------------------|--------------|-------------------|------------------|
| 1 | 1 | Fraxinus americana | 14.4 | 1.31 | 4 | 1.31 | dead | 0 | 0 | 1 | 0 |
| 3 | 2 | Fraxinus sp. | 9 | 1.37 | 4 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 3 | | | | | | | | | | |
| | 4 | | | | | | | | | | |
| | 5 | | | | | | | | | | |
| | 6 | | | | | | | | | | |
| | 7 | | | | | | | | | | |
| | 8 | | | | | | | | | | |
| | 9 | | | | | | | | | | |
| | 10 | | | | | | | | | | |
| | 11 | | | | | | | | | | |
| | 12 | | | | | | | | | | |
| | 13 | | | | | | | | | | |
| | 14 | | | | | | | | | | |
| | 15 | | | | | | | | | | |
| | 16 | | | | | | | | | | |
| | 17 | | | | | | | | | | |
| | 18 | | | | | | | | | | |
| | 19 | | | | | | | | | | |
| | 20 | | | | | | | | | | |
| | 21 | | | | | | | | | | |
| | 22 | | | | | | | | | | |
| | 23 | | | | | | | | | | |
| | 24 | | | | | | | | | | |
| | 25 | | | | | | | | | | |

*** Change intensive module numbers when necessary

Baseline

| |
|----|
| 8 |
| 9 |
| 10 |
| 11 |
| 12 |
| 13 |
| 14 |
| 15 |
| 16 |
| 17 |
| 18 |
| 19 |
| 20 |
| 21 |
| 22 |
| 23 |
| 24 |
| 25 |

Map all ash trees \geq 10cm in each module using Tree ID number

- * If Ash Condition scores 5 (dead) provide breakup score (A-E)
- Count EAB exit holes $1.25\text{m}^2 \times 21.5\text{m}$
- Woodpecker and epicormic marked present (1) or absent (0)

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



| Tier 1: Early detection/ Rapid response | | Presence | | | | GPS |
|---|-----------------------------|-------------|----|----------|----|----------|
| | | NE | SE | SW | NW | |
| Microstegium vimineum | Japanese stiltgrass | | | | | |
| Ranunculus ficaria | Lesser Celandine | | | | | |
| Cynanchum louiseae (vine) | Black Swallow-wort | | | | | |
| Butomus umbellatus (wetland) | Flowering Rush | | | | | |
| Heracleum mantegazzianum | Giant Hogweed | | | | | |
| Tier 2: Assess as Needed | | # of Plants | | comments | | |
| | | NE | SE | SW | NW | |
| Acer platanoides | Norway Maple | 1 | 3 | | | |
| Ailanthus altissima | Tree of Heaven | | | | 1 | |
| Lonicera japonica (vine) | Japanese Honeysuckle | 3 | 5 | 5 | 5 | |
| Lythrum salicaria (wetland) | Purple Loosestrife | | | | | |
| Aegopodium podagraria (G-cover) | Bishop's Goutweed | | | | | |
| Celastrus orbiculatus (vine) | Asian Bittersweet | | | | | |
| Torilis sp. | Hedgeparsley | | | | | |
| Conium maculatum | Poison Hemlock | | | | | |
| Rhamnus cathartica | Common Buckthorn (shrub) | | | | | |
| Berberis thunbergii | Japanese Barberry (shrub) | 4 | 2 | 1 | 1 | |
| Alnus glutinosa | European Alder | | | | | |
| Dipsacus laciniatus | Cut-leaf Teasel | | | | | |
| Elaeagnus umbellata | Autumn Olive (shrub) | | | | | |
| Lonicera maackii | Amur Honeysuckle (shrub) | | 1 | | | |
| Euonymus fortunei | Wintercreeper | 2 | 2 | 4 | | |
| Tier 3: Presence is of interest | | # of Plants | | comments | | |
| | | NE | SE | SW | NW | |
| Convallaria majalis (G-cover) | Lily of the Valley | 2 | | | | |
| Coronilla varia (G-cover) | Crown Vetch | | | | | |
| Eleutherococcus pentaphyllus | Five-leaf Aralia (shrub) | | | | | |
| Pachysandra terminalis (G-cover) | Japanese Pachysandra | | | | | |
| Philadelphus coronarius | Mock Orange (shrub) | | | | | |
| Pulmonaria officinalis (G-cover) | Lungwort | | | | | |
| Rubus phoenicolasmus | Wineberry | 1 | 1 | | | |
| Iris pseudacorus (wetland) | Yellow Flag Iris | | | | | |
| Ornithogalum umbellatum | Star of Bethlehem | | | | | |
| Viburnum opulus var. opulus | European Cranberry (shrub) | 2 | 1 | 1 | 2 | |
| Viburnum plicatum | Doublefile Viburnum (shrub) | 1 | | | | |
| Tier 4: Widespread and abundant | | Presence | | | | comments |
| | | NE | SE | SW | NW | |
| Alliaria petiolata | Garlic Mustard | X | X | X | X | |
| Ligustrum vulgare | Common Privet (shrub) | X | X | X | X | |
| L. morrowii, L. tatarica | Bush Honeysuckles (shrub) | X | X | X | X | |
| Phalaris arundinacea | Reed Canarygrass | | | | | |
| Phragmites australis (wetland) | Phragmites | | | | | |
| Polygonum cuspidatum | Japanese Knotweed | | | | | |
| Frangula alnus | Glossy Buckthorn (shrub) | X | X | X | X | |
| Rosa multiflora | Multiflora Rose (shrub) | X | X | X | X | |
| Typha angustifolia, T. x.glaucia | Cattails (wetland) | | | | | |
| Cirsium arvense | Canada thistle | | | X | | |
| Dipsacus fullonum | Common Teasel | | | | | |
| Hesperis matronalis | Dame's Rocket | | | | | |
| Vinca minor (G-cover) | Periwinkle | X | X | | | |

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

| COVER BY STRATA % estimate using midpoints of 5 x 3, 8, 13, 18% | | | |
|--|-------------------|-----------------|--|
| Strata | Height Range (in) | Total Cover (%) | |
| Tree | 5.0 - | 88 | |
| Shrub | 0.5 - 5.0 | 78 | |
| Herb | 0.0 - 0.5 | 63 | |
| (Floating)* | 0 - | | |
| (Aquatic)** | - | | |
| * rooted and floating or slightly emersed ** submerged, most plant mass below surface | | | |
| SEE BACK OF PAGE FOR "TYPICAL" | | | |
| STRATA DESCRIPTIONS, STRATA CAN VARY BY COVER TYPE. | | | |

Remember: In a standard 2x5 plot each module = 10% cover

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)

Slope 1 = slight elevation grade across module (hill)

Slope 2 = falls on slope >20°

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

0 feature is absent or functionally absent (Golf Course Flat)

1

2

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

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

5 feature is present in greater amounts and of highest quality

6 feature is absent or functionally absent (Golf Course Flat)

7 feature is absent or functionally absent (Golf Course Flat)

8 feature is absent or functionally absent (Golf Course Flat)

9 feature is absent or functionally absent (Golf Course Flat)

10 feature is absent or functionally absent (Golf Course Flat)

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

| mod# | corner | (count) | no of | no of | c.w.d. | c.w.d. | depth 1 | depth 1 | >40 cm | microhab. | interspers. | slope | At aspect | N | TSI* |
|------|--------|---------|----------|----------|-----------|-----------|---------|---------|--------|-----------|-------------|-------|-----------|---|------|
| | | | tussocks | hummocks | (2-12 cm) | (12-40cm) | | | | | | | | | |
| 1 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | | | | |
| 2 | 0 | 0 | 0 | 0 | 2 | 13 | 3 | 1 | 2 | 3 | 1 | | | | |
| 3 | 0 | 0 | 0 | 0 | 2 | 9 | 0 | 0 | 3 | 1 | | | | | |
| 4 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | | | | | |

NOTE: Tussocks and hummocks are counted in BOTH nested quadrat corners but counts are aggregated.

macro depressions = macrotopographic depressions with module. These may extend into other modules and be counted again.

c.w.d. = coarse woody debris

microhab. interspers. = overall ranking of plot microtopographic interspersion complexity using scale below

"TRAIL INFORMATION: If trail falls in plot record type and cover for each

Type

%Cover

| Strata | Height Range (in) | Total Cover (%) |
|-------------|-------------------|-----------------|
| Tree | 5.0 - | 88 |
| Shrub | 0.5 - 5.0 | 78 |
| Herb | 0.0 - 0.5 | 63 |
| (Floating)* | 0 - | |
| (Aquatic)** | - | |

| | | | |
|---------------------------------|---------|------------------------|---------|
| Sum = 100% | percent | (Each $\leq 100\%$) | percent |
| Histosol | | Coarse Woody Debris*** | 15 |
| Mineral Soil | 99 | Fine Woody Debris*** | 12 |
| Gravel-Cobble* | 1 | Litter | 60 |
| Boulder** | | Duff (fern + Humus) | 0 |
| Bedrock | | Bryophyte-Lichen | 1 |
| • Gravel-Cobble = 1/16 to 10 in | | Water | — |
| •• Boulder = > 10 in | | Bare Soil | 10 |
| ••>5 cm in diameter | | Road/Trail | 5 |
| **** <6 cm in diameter | | Other | 10 |

bridge pylons, trash

| Module | N | S | E | W |
|--------|---|----|----|---|
| 1 | 4 | 13 | 18 | 3 |
| 2 | 0 | 1 | 0 | 0 |
| 3 | 4 | 1 | 1 | 4 |
| 4 | 0 | 0 | 0 | 1 |

"CROWN COVER (DENSIMETER) Make 4 readings per module facing N, S, E, W. Place dot count in corresponding space. (4 dots per grid square)

MCNAB INDICES (degrees) + for up - for down
(FILLED OUT USING GIS PROGRAM - DO NOT FILL OUT IN FIELD)

| LF1* | TSI** |
|--------------|-------|
| At aspect | N |
| ~45 degrees | NE |
| +90 degrees | E |
| +135 degrees | SE |
| +180 degrees | S |
| +225 degrees | SW |
| +270 degrees | W |
| +315 degrees | NW |

* Landform Index (position within landscape)

** Terrain Shape Index (site microtopographic shape)

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.

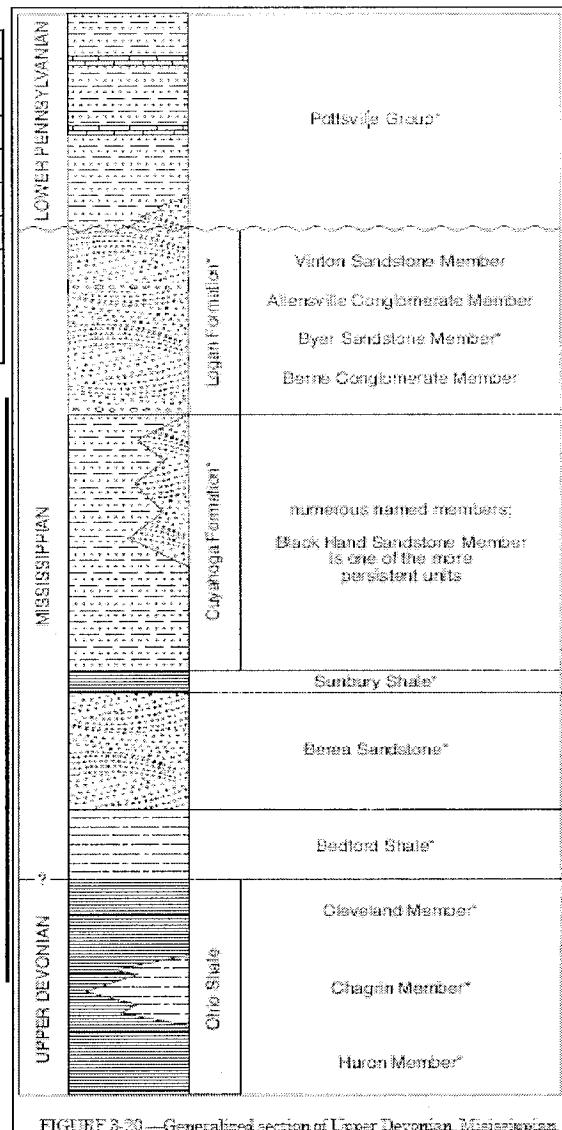
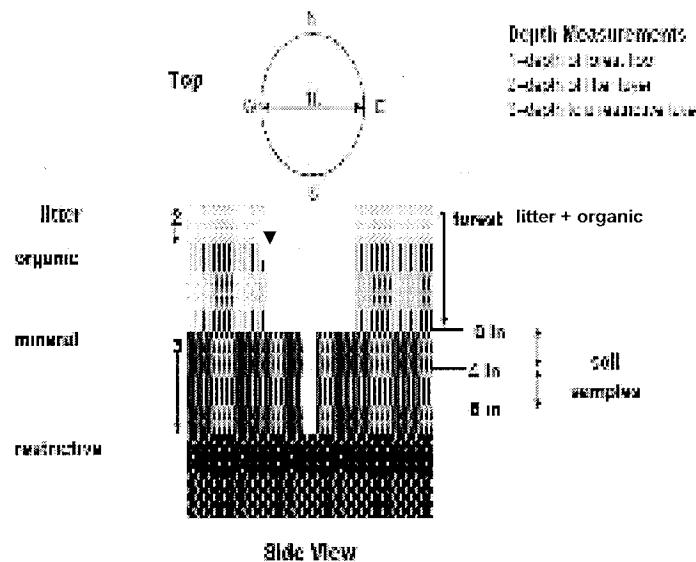


FIGURE 3-20.—Generalized section of Upper Devonian, Mississippian, and Lower Pennsylvanian formations in northeastern Ohio. Asterisks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses 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 (1955), Hoover (1969), and Collins (1979) for more information on Mississippian rocks in Ohio. See figure 3-18 for explanation of rock types.

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet

Project label: PCAP Project Name: OH 2e 11

Plot No.: 1195

STANDING BIOMASS (required for emergent wetlands):

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

Soil pit module # 3 (one per entire plot)

| | Soil Collection Module | Horizon (A, B, C) |
|-------------------|------------------------|-------------------|
| 5 cm matrix color | 10 YR 3/3 | |
| motte color | - | 2389 composited |
| %anotille | - | 12.34 |
| oxid roots | Y | N |
| texture* | 2 | |
| redox features** | Y | D |
| hydr. cond.*** | I S | A D |
| matrix color | 10YR 6/4 | |
| motte color | - | |
| %anotille | - | |
| oxid roots | Y | D |
| texture* | 2 | |
| redox features** | Y | D |
| hydr. cond.*** | I S | M D |
| matrix color | 10YR 6/4 | |
| motte color | - | |
| %anotille | - | |
| oxid roots | Y | D |
| texture* | 2 | |
| redox features** | Y | D |
| hydr. cond.*** | I S | M D |

* refer to texture classes on reverse side

** e.g. hydrogen sulfide odor, gleying, etc.

*** Circle one:

I=indundated S=saturated M=moist D=dry

Notes: Include evidence of earthworms

(worms, castings, midden)

- worms found at

5cm

** e.g. hydrogen sulfide odor, gleying, etc.

*** Circle one:

I=indundated S=saturated M=moist D=dry

Notes: Include evidence of earthworms

(worms, castings, midden)

Excessively drained

Somewhat excessively

Well drained

Moderately well dr.

Somewhat poorly dr.

Poorly dr.

Very poorly dr.

Impenetrable surface

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 pit module # 3 (one per entire plot)

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

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

| mod# | 1 litter + organic depth (cm) | 2 litter depth (cm) | 3 restrict. depth (cm) | water (cm) | depth sat soil (cm) |
|------|-------------------------------|---------------------|------------------------|------------|---------------------|
| 1 | 0.0 | 0.0 | 108.0 | 0 | >30 |
| 2 | 0.75 | 0.75 | 52.0 | 0 | >30 |
| 3 | 0.25 | 0.25 | 46.0 | 0 | >30 |
| 4 | 3.75 | 3.75 | 33.0 | 0 | >30 |

Length of soil probe = 125 cm

* Use Web Soil Survey for #3 Restrictive layer dept.

Depth to restrictive feature
20-40 in

Top 10 cm

1. litter + organic

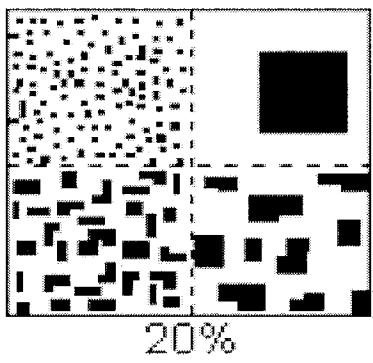
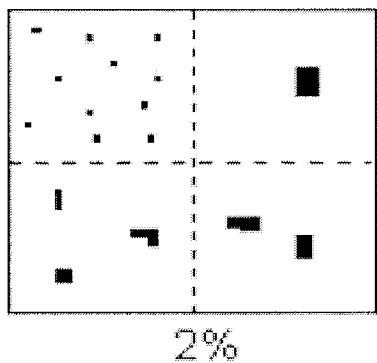
mineral restrict. surface

sat soil

depth

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

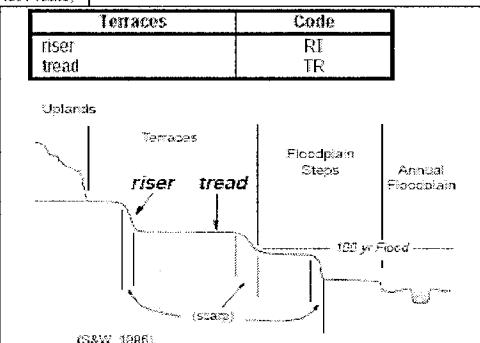
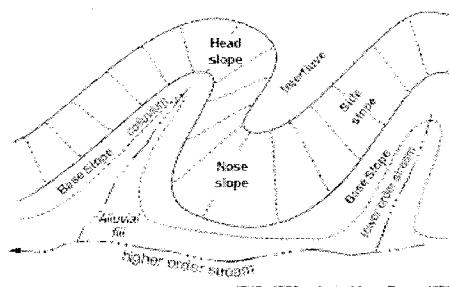
3= Sandy

4= Coarse Sand

9= Not measured - make plot note

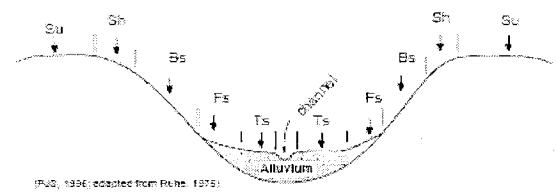
Geomorphic Component - Three-dimensional descriptors of parts of landforms or microfeatures that are best applied to areas. Unique descriptors are available for Hills, Terraces, Mountains, and Flat Plains; e.g., (for Hills) nose slope or NS.

| 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/SEMIPERMANENTLY 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.

SEMIPERMANENTLY 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:

PCAP 1195 HU

DATE: 08/22/2011

Location:

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: 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 checked="" type="radio"/> | <input type="radio"/> | <input checked="" 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"/> |
| Small Trees (<0.3m DBH) | <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"/> | <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 type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Woody Shrubs, Saplings (<0.5m 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"/> |
| Herbs, Forbs and Grasses | <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"/> |
| 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 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"/> |
| Rock | <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"/> |
| 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"/> |
| Submerged Vegetation | <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"/> |

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 | | | | Flag |
|---------------------------------|----------------------------------|-----------------------|-----------------------|--|-----------------------|-----------------------|-----------------------|--|-----------------------|-----------------------|-----------------------|------|
| Fill bubble if present - Plot | 1 | 2 | 3 | Fill bubble if present - Plot | 1 | 2 | 3 | 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/Roof 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 checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | Impervious surface input (SHEET FLOW) | <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 | | | | | | | | Flag |
|----------------------------------|-----------------------|-----------------------|-----------------------|--|----------------------------------|-----------------------|-----------------------|---|-----------------------|-----------------------|-----------------------|------|
| Fill bubble if present - Plot | 1 | 2 | 3 | Fill bubble if present - Plot | 1 | 2 | 3 | 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 <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., P1,F2, etc. = misc. flags assigned by each field crew.

2428168304

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

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

Reviewed by (initials):

Site ID:

DATE:

12 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"/> | | 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

4.1.4.8.7.10.10

Longitude West

8.1 9.3.6.3.8

Use Decimal Degrees: NAD83

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID:

PCAP 1195 HU

DATE: 08/22/2011

Location:

O AACenter 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"/> | Buffer Plot 2 | Canopy Type: <input checked="" type="radio"/> D <input type="radio"/> E | | Absent: <input type="radio"/> | Buffer Plot 3 | Canopy Type: <input checked="" type="radio"/> D <input type="radio"/> E | | Absent: <input type="radio"/> |
|---------------------------------------|---|----------------------------------|----------------------------------|----------------------------------|---|-----------------------|-------------------------------|-----------------------|---|----------------------------------|-------------------------------|
| | Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N | | | | Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N | | | | Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N | | |
| Big Trees (>0.3m DBH) | <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 checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Small Trees (<0.3m DBH) | <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 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 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 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"/> |
| 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 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"/> |
| Litter, duff | <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"/> | <input type="radio"/> |
| Rock | <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"/> |
| 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 | | | | Flag |
|---------------------------------|----------------------------------|----------------------------------|-----------------------|--|----------------------------------|----------------------------------|-----------------------|--|-----------------------|-----------------------|-----------------------|------|
| Fill bubble if present - Plot | 1 | 2 | 3 | Fill bubble if present - Plot | 1 | 2 | 3 | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
| Road - gravel | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Ditches, Channelization | <input checked="" type="radio"/> | <input checked="" 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/Soil 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/Roof 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 checked="" type="radio"/> | <input checked="" 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 checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | Impervious Surface Input (SHEET FLOW) | <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 | | | | | | | | Flag |
|----------------------------------|-----------------------|-----------------------|-----------------------|--|----------------------------------|----------------------------------|-----------------------|---|----------------------------------|----------------------------------|-----------------------|------|
| Fill bubble if present - Plot | 1 | 2 | 3 | Fill bubble if present - Plot | 1 | 2 | 3 | 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 checked="" 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 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 <1" 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.

2428168304

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

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

Reviewed by (initial):

Site ID:

DATE:

✓ 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: <i>Berberis</i> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" 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 48796 Longitude West 81 93469

Use Decimal Degrees: NAD83

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial): _____

Site ID:

DCDP 1195 H4

DATE: 0.8/22/2011

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: D E | | | | Absent: O | Buffer Plot 2 | Canopy Type: D E | | | | Absent: O | Buffer Plot 3 | Canopy Type: D E | | | | Absent: O | | | | | | | |
|---------------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|---------------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|--------------------------|-------------------------|---------------------------------------|-------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| | Leaf Type: B N | | Flag | | | | Leaf Type: B N | | Flag | | | | | Leaf Type: B N | | Flag | | | | | | | | |
| Big Trees (>0.3m DBH) | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | Big Trees (>0.3m DBH) | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | Big Trees (>0.3m DBH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | | |
| Small Trees (<0.3m DBH) | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input checked="" type="radio"/> | Small Trees (<0.3m DBH) | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | Small Trees (<0.3m DBH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | | |
| Woody Shrubs, Saplings (0.5m-5m HIGH) | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | Woody Shrubs, Saplings (0.5m-5m HIGH) | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | Woody Shrubs, Saplings (0.5m-5m HIGH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | |
| Woody Shrubs, Saplings (<0.5m HIGH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | Woody Shrubs, Saplings (<0.5m HIGH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | Woody Shrubs, Saplings (<0.5m HIGH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | |
| Herbs, Forbs and Grasses | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | Herbs, Forbs and Grasses | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | Herbs, Forbs and Grasses | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | | | |
| Bare ground | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> 1 | <input type="radio"/> 2 | <input checked="" type="radio"/> | <input type="radio"/> 4 | Bare ground | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | Bare ground | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | | | |
| Litter, duff | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | Litter, duff | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> 1 | <input type="radio"/> 2 | <input checked="" type="radio"/> | <input type="radio"/> 4 | Litter, duff | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | | |
| Rock | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | Rock | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | Rock | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | | |
| Water | <input checked="" type="radio"/> | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | Water | <input checked="" type="radio"/> | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | Water | <input checked="" type="radio"/> | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | Water | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 |
| Submerged Vegetation | <input checked="" type="radio"/> | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | Submerged Vegetation | <input checked="" type="radio"/> | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | Submerged Vegetation | <input type="radio"/> | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | Submerged Vegetation | <input type="radio"/> | <input type="radio"/> | <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"/> | O | Ditches, Channelization | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Pasture/Hay | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Road - two lane | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Dike/Dam/Road/RR Bed (IMPEDE FLOW) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Range | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Road - four lane | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Water Level Control Structure | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Row Crops | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Parking Lot/Pavement | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Excavation, Dredging | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Fallow Field (RECENT RESTING ROW CROP FIELD) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Golf Course | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Fill/Spoil Banks | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Fallow Field (OLD - GRASS, SHRUBS, TREES) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Lawn/Park | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Freshly Deposited Sediment (UNVEGETATED) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Nursery | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Suburban Residential | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Soil Loss/Roof Exposure | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | O | Dairy | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Urban/Multifamily | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Wall/Riprap | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Orchard | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Landfill | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Inlets, Outlets | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Confined Animal Feeding | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Dumping | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Point Source/Pipe (EFFLUENT OR STORMWATER) | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | O | Rural Residential | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Trash | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | O | Impervious Surface Input (SHEET FLOW) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Gravel Pit | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Other: | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Other: | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Irrigation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Other: | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Other: | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Other: | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | <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"/> | O | Forest Clear Cut | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Herbicide Use | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Gas Wells | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Forest Selective Cut | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Mowing/Shrub Cutting | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mine (surface) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Tree Plantation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Trails | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mine (underground) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Tree Canopy Herbivory (INSECT) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Soil Compaction (ANIMAL OR HUMAN) | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | O | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Military | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Shrub Layer Browsed (WILD OR DOMESTIC) | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Offroad vehicle damage | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Other: | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Highly Grazed Grasses (OVERALL <1" HIGH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Soil erosion (FROM WIND, WATER, OR OVERUSE) | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | O | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Other: | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Recently Burned Forest Canopy | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Other: | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Other: | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Recently Burned Grassland (BLACKENED) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | Other: | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | O | <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:

DATE:

☒ 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 checked="" 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 checked="" 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: <u><i>Hedera helix</i></u> | <input type="radio"/> | <input checked="" 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)

1

Latitude North 41 14 8831

Longitude West 81 93 65 7

Use Decimal Degrees: NAD83

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial): _____

Site ID:

PCAP 1195HU

DATE: 08/22/2011

Location:

 AA Center N S E W

Fill in bubble(s) if plot(s) could not be sampled and flag

 Plot 1 Plot 2 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"/> | Buffer Plot 2 | Canopy Type: <input type="radio"/> D <input checked="" type="radio"/> E | | Absent: <input type="radio"/> | Buffer Plot 3 | Canopy Type: <input type="radio"/> D <input checked="" type="radio"/> E | | Absent: <input type="radio"/> |
|---------------------------------------|---|------|-------------------------------|---------------------------------------|---|------|-------------------------------|---------------------------------------|--|------|-------------------------------|
| | Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N | Flag | | | Leaf Type: <input type="radio"/> B <input checked="" type="radio"/> N | Flag | | | Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N | Flag | |
| Big Trees (>0.3m DBH) | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5 | | | Big Trees (>0.3m DBH) | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | Big Trees (>0.3m DBH) | <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"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | Small Trees (<0.3m DBH) | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5 | | | Small Trees (<0.3m DBH) | <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"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | Woody Shrubs, Saplings (0.5m-5m HIGH) | <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"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | |
| Woody Shrubs, Saplings (<0.5m HIGH) | <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"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | Woody Shrubs, Saplings (<0.5m HIGH) | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | |
| Herbs, Forbs and Grasses | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | Herbs, Forbs and Grasses | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | Herbs, Forbs and Grasses | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | |
| Bare ground | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | Bare ground | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | Bare ground | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | |
| Litter, duff | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | Litter, duff | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | Litter, duff | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | |
| Rock | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | Rock | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | Rock | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | |
| Water | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | Water | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | Water | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | |
| Submerged Vegetation | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | Submerged Vegetation | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | Submerged Vegetation | <input type="radio"/> 1 <input checked="" 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"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Ditches, Channelization | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Pasture/Hay | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Road - two lane | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Dike/Dam/Road/RR Bed (IMPEDE FLOW) | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Range | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Road - four lane | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Water Level Control Structure | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Row Crops | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Parking Lot/Pavement | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Excavation, Dredging | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Fallow Field (RECENT-RESTING ROW CROP FIELD) | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Golf Course | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Fill/Spoil Banks | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Fallow Field (OLD - GRASS, SHRUBS, TREES) | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Lawn/Park | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Freshly Deposited Sediment (UNVEGETATED) | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Nursery | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Suburban Residential | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Soil Loss/Roof Exposure | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Dairy | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Urban/Multifamily | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Wall/Riprap | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Orchard | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Landfill | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Inlets, Outlets | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Confined Animal Feeding | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Dumping | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Point Source/Pipe (EFFLUENT OR STORMWATER) | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Rural Residential | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Trash | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Impervious surface input (SHEET FLOW) | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Gravel Pit | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Other: Children's Fort | <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Other: _____ | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Irrigation | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Other: _____ | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Other: _____ | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Other: _____ | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |

| 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"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Forest Clear Cut | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Herbicide Use | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Gas Wells | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Forest Selective Cut | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Mowing/Shrub Cutting | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Mine (surface) | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Tree Plantation | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Traits | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Mine (underground) | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Tree Canopy Herbivory (INSECT) | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Soil Compaction (ANIMAL OR HUMAN) | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Military | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Shrub Layer Browsed (WILD OR DOMESTIC) | <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Offroad vehicle damage | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Other: _____ | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Highly Grazed Grasses (OVERALL < 10% HIGH) | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Soil erosion (FROM WIND, WATER, OR OVERUSE) | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Other: _____ | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Recently Burned Forest Canopy | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Other: _____ | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Other: _____ | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Recently Burned Grassland (BLACKENED) | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Other: _____ | <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |

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

Buffer Sample Plots 05/27/2011

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

Reviewed by (initials):

Site ID:

DATE:

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 checked="" 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 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 N3 S3 E3 W3 Nearest practicable location (flag and comment below)

Latitude North

4.1 4.8.7.0.6

Longitude West

8.1 9.3.7.9.7

Use Decimal Degrees: NAD83

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial): _____

Site ID: PCAP Hu 1195

DATE: 08 / 22 / 2011

Location:

Fill in bubble(s) if plot(s) could not be sampled and flag →

 AA Center N S O E OW Plot 1 Plot 2 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"/> | Buffer Plot 2 | Canopy Type: <input type="radio"/> D <input checked="" type="radio"/> E | | Absent: <input checked="" type="radio"/> | Buffer Plot 3 | Canopy Type: <input type="radio"/> D <input type="radio"/> E | | Absent: <input type="radio"/> |
|---------------------------------------|---|----------------------------------|----------------------------------|-----------------------|---|-----------------------|--|-----------------------|--|-----------------------|----------------------------------|
| | Leaf Type: <input checked="" 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"/> | <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 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 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 checked="" type="radio"/> |
| Bare ground | <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"/> |
| Litter, duff | <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"/> |
| Rock | <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"/> |
| 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 | | | | Flag |
|---------------------------------|----------------------------------|----------------------------------|----------------------------------|--|----------------------------------|-----------------------|-----------------------|--|-----------------------|-----------------------|-----------------------|------|
| Fill bubble if present - Plot | 1 | 2 | 3 | Fill bubble if present - Plot | 1 | 2 | 3 | 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 checked="" type="radio"/> | <input checked="" 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/Soil 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 checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" 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/Roof Exposure | <input checked="" 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 (SHEET FLOW) | <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 | | | | | | | | Flag |
|----------------------------------|-----------------------|-----------------------|-----------------------|--|-----------------------|-----------------------|-----------------------|---|----------------------------------|----------------------------------|----------------------------------|------|
| Fill bubble if present - Plot | 1 | 2 | 3 | Fill bubble if present - Plot | 1 | 2 | 3 | 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 checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" 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 checked="" 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 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 <1% HIGH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Soil erosion (FROM WIND, WATER, OR OVERUSE) | <input checked="" 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

Buffer Sample Plots 105/27/2011

Loniceria japonica + more
RosaceaeLigustrum ovalifolium
Evonymus fortuneiFrangula alnus
BirchGarlic mustard
Acetosella vulgaris
Rubus phoenicolasius

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

Reviewed by (initials):

Site ID:

DATE:

☛ 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"/> | |

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 48 10 26

Longitude West 81 93629

Use Decimal Degrees: NAD83

| Flag | Comments |
|------|---|
| F1 | Plot falls in Porter Creek Rd (paved surface) |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

Buffer Sample Points - Targeted Alien Species 05/27/2011

7966623548

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Page 1 of 2

GENERAL INFORMATION

Project Label: PCAP

Project Name:

Plot Name:

Plot No.: 1145

Level 4 (no nested corners sampled)

Level 5 (nested corners sampled)

Date (mm/dd/yyyy): / /

End date (if > 1 day): / /

Party

Role^{*,*}

Plot leader

Local Place Names:

Landowner:

X-axis Bearing of plot: [240] °

Y-axis Bearing of plot: [240] °

Check one: Public data Private Data

Reason:

If data not public why?

Source of coordinates MAP GPS

GPS location in plot x=0 to 5, y=1,1,0,+1):

x = _____ y = _____ (base of plot x=0, y=0)

Coordinate system:

Other

Lat/Long UTM StatePlane

Other (specify) ■ deg deg min

Datum: ■ NAD83/WGS84 NAD27

Longitude: 81.93641

Latitude: 41.48762

Plot size for cover data: 0.04 (hectares)

Plot size for stems: 0.04 (ha)

Stems present

Depth: (1-5):

Intensive modules: 2, 3, ~~4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14~~ (EDIT IF MODIFIED)

Camera No.: _____

Photo Nos.: _____

Authority: G&C Pub Date: 1998

Minimum required fields in Bold and Underlined

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

OVER

Park in lot along Porter Creek Rd. South of
Plot

See if you can find the coon skull under the lots
on NW side of road &
(Dec) coon smells bad but it cured Jems hiccups

BPU Scale = 4:5

