

CLEVELAND METROPARKS Plant Community Assessment Program: Quality Control Form



Project Label:

PCAP

Plot No: 1274

Date Sampled: 8-1-2012 Lead: Eysenbach

Comment required if item answer is NO

| | | |
|--|--|--|
| Parking/Access outside of Park Boundaries: | Y <input checked="" type="radio"/> N <input type="radio"/> | If yes, write details in Comments section below |
| Field journals completed | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| Site sketch made on 1:3000 map? | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| Check cover page | X-axis Bearing of plot recorded | Y <input checked="" type="radio"/> N <input type="radio"/> |
| | GPS coords. Recorded | Y <input checked="" type="radio"/> N <input type="radio"/> |
| | North direction recorded | Y <input checked="" type="radio"/> N <input type="radio"/> |
| | Photographs taken? | Y <input checked="" type="radio"/> N <input type="radio"/> |
| Plot No., Date agreement on all pages? | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| Header data completed all pages? | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| Cover classes recorded in all Intensive modules | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| Browse Level By Species | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| Woody stem quality control check | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| Invasive plant quality control check | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| Ash trees mapped | Y <input checked="" type="radio"/> N <input type="radio"/> | N/A |
| Cover by Strata? (confirm cover type) | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| Soil samples collected with matching plot #. | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| Vouchers labeled on datasheet with initials and number | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| Vouchers labeled on collection bag | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| Pink flags removed | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| Data sheet QA before leaving site? | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| Common equipment returned to tub. | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| Data sheets scanned? | | Enter date to left <i>Se 8/3/12</i> |
| Final data sheets scanned? | | Enter date to left |
| Buffer Widths measured? | Y <input checked="" type="radio"/> N <input type="radio"/> | <i>KEL 7-3-12</i> |
| Web Soil Survey | Y <input checked="" type="radio"/> N <input type="radio"/> | <i>TK 7-27-12</i> |
| Voucher Location | Refrigerator | Y <input checked="" type="radio"/> N <input type="radio"/> |
| (# vouchers collected) | Press (#) | Enter number to left |
| <i>SRE 603</i> | Drier | Y <input checked="" type="radio"/> N <input type="radio"/> |
| | Identified | Y <input checked="" type="radio"/> N <input type="radio"/> |
| | Mounted | Y <input checked="" type="radio"/> N <input type="radio"/> |
| | Thrown away | Y <input checked="" type="radio"/> N <input type="radio"/> |

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. parkinglot, road) |
| | <input type="checkbox"/> Unsafe to sample (i.e. steep slope) |
| | <input type="checkbox"/> Other |

Additional Comments:

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Project Label: PCAP

Project Name: OHi2012

Plot No.: 1274

Gluecklund/Maunz

Page 2 of 2

MODIFIED NATURESERVE CLASS*

CODE (on separate form):

LO

Fit= Low Conf= Low

COMMUNITY NAME:

Forest
Majic Floodplain

HOMOGENEITY

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

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

Current Land Use: Park
Former Land Use: Wetland

DISTURBANCES

HYDROLOGIC REGIME*

| type* | severity** | yrs ago | % of plot | description |
|---------|------------|----------|------------|------------------------------|
| Human | <u>H</u> | <u>6</u> | <u>100</u> | <u>Herbicide Spray trash</u> |
| Natural | | | | |
| Fire | | | | |
| Cut | | | | |
| Animal | <u>H</u> | <u>0</u> | <u>100</u> | <u>Dear Browse</u> |
| Other | | | | |

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

Plot was along a small creek and a slope w/ some seepy areas in mod 1 and along the base of the slope that runs along the center line. All of the bush honeysuckle and barberry were sprayed w/in the last couple of years. Large standing dead bushes were found throughout the plot. There were also a lot of dead garlic mustard from earlier this year that are not reflected on the cover sheets because they were dead. A clear trail (or batwing) ran through the plot near the centerline. Browse was high on *Rosa multiflora*, Fringed loosestrife, and the buttercup. All of the sodas (probably more than I recorded b/c. couldn't tell the difference) were done for the year.

CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a
 Project Label: _____ Project name: Q1 H1 2012 Plot no.: 1274 Page 1 of 4

Total modules: 10

Intensive modules: 4 Plot configuration: 2x5

Plot area (ha): 0.1



Cleveland
Metroparks

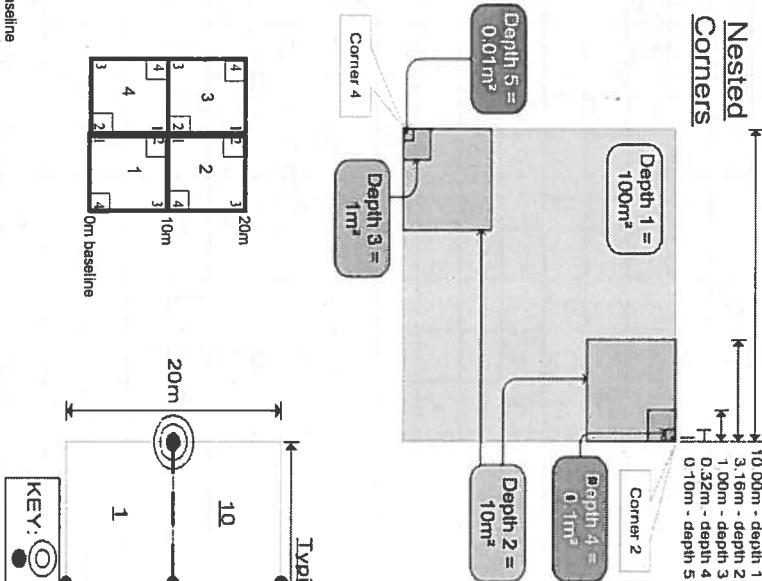
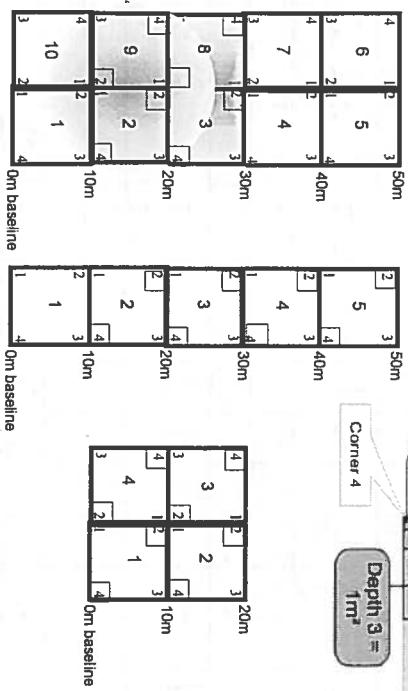
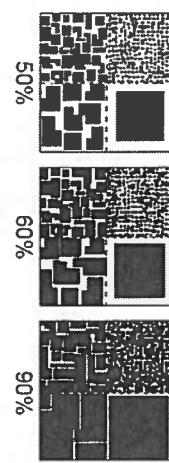
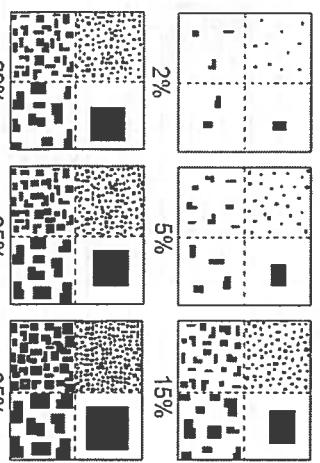
Br = Browse Level. Use cover classes to
describe amount of browse per species over
entire plot

| Strata - Cov. entire plot | T | S | H | (F) | (A) | Br | Species | Estimate for each intensive module: | | | | | | | | | | | |
|---------------------------|-------|-----|-------|-----|-------|--------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | | | | | | | | mod | corner | mod | corner | mod | corner | mod | corner | mod | corner | mod | corner |
| | depth | cov | depth | cov | depth | cov | depth | cov | depth | cov | depth | cov | depth | cov | depth | cov | depth | cov | depth |
| 1 | 2 | 2 | 2 | 2 | 2 | 3 | 4 | 3 | 2 | 8 | 4 | 8 | 2 | 9 | 4 | 9 | 3 | R | R |
| 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 1 | 2 | 2 | 2 | 2 | 2 |
| 3 | 2 | 2 | 2 | 2 | 2 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 4 | 2 | 2 | 2 | 2 | 2 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 5 | 5 | 5 | 5 | 5 | 5 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 6 | 4 | 4 | 4 | 4 | 4 | Ulmus american | Ulmus american | Ulmus american | Ulmus american | Ulmus american | Ulmus american | Ulmus american | Ulmus american | Ulmus american | Ulmus american | Ulmus american | Ulmus american | Ulmus american | Ulmus american |
| 7 | 5 | 5 | 5 | 5 | 5 | Populus deltoides | Populus deltoides | Populus deltoides | Populus deltoides | Populus deltoides | Populus deltoides | Populus deltoides | Populus deltoides | Populus deltoides | Populus deltoides | Populus deltoides | Populus deltoides | Populus deltoides | Populus deltoides |
| 8 | 6 | 6 | 6 | 6 | 6 | Quercus rubra | Quercus rubra | Quercus rubra | Quercus rubra | Quercus rubra | Quercus rubra | Quercus rubra | Quercus rubra | Quercus rubra | Quercus rubra | Quercus rubra | Quercus rubra | Quercus rubra | Quercus rubra |
| 9 | 3 | 3 | 3 | 3 | 3 | Crataegus crusgalli | Crataegus crusgalli | Crataegus crusgalli | Crataegus crusgalli | Crataegus crusgalli | Crataegus crusgalli | Crataegus crusgalli | Crataegus crusgalli | Crataegus crusgalli | Crataegus crusgalli | Crataegus crusgalli | Crataegus crusgalli | Crataegus crusgalli | Crataegus crusgalli |
| 10 | 2 | 2 | 2 | 2 | 2 | Polystyphnum virginianum | Polystyphnum virginianum | Polystyphnum virginianum | Polystyphnum virginianum | Polystyphnum virginianum | Polystyphnum virginianum | Polystyphnum virginianum | Polystyphnum virginianum | Polystyphnum virginianum | Polystyphnum virginianum | Polystyphnum virginianum | Polystyphnum virginianum | Polystyphnum virginianum | Polystyphnum virginianum |
| 11 | 2 | 2 | 2 | 2 | 2 | Moss sp. | Moss sp. | Moss sp. | Moss sp. | Moss sp. | Moss sp. | Moss sp. | Moss sp. | Moss sp. | Moss sp. | Moss sp. | Moss sp. | Moss sp. | Moss sp. |
| 12 | 3 | 3 | 3 | 3 | 3 | Oxalis stricta | Oxalis stricta | Oxalis stricta | Oxalis stricta | Oxalis stricta | Oxalis stricta | Oxalis stricta | Oxalis stricta | Oxalis stricta | Oxalis stricta | Oxalis stricta | Oxalis stricta | Oxalis stricta | Oxalis stricta |
| 13 | 1 | 1 | 1 | 1 | 1 | Ranunculus hispida | Ranunculus hispida | Ranunculus hispida | Ranunculus hispida | Ranunculus hispida | Ranunculus hispida | Ranunculus hispida | Ranunculus hispida | Ranunculus hispida | Ranunculus hispida | Ranunculus hispida | Ranunculus hispida | Ranunculus hispida | |
| 14 | 2 | 2 | 2 | 2 | 2 | Toxicodendron radicans | Toxicodendron radicans | Toxicodendron radicans | Toxicodendron radicans | Toxicodendron radicans | Toxicodendron radicans | Toxicodendron radicans | Toxicodendron radicans | Toxicodendron radicans | Toxicodendron radicans | Toxicodendron radicans | Toxicodendron radicans | Toxicodendron radicans | |
| 15 | 1 | 1 | 1 | 1 | 1 | Impatiens sp. | Impatiens sp. | Impatiens sp. | Impatiens sp. | Impatiens sp. | Impatiens sp. | Impatiens sp. | Impatiens sp. | Impatiens sp. | Impatiens sp. | Impatiens sp. | Impatiens sp. | Impatiens sp. | Impatiens sp. |
| 16 | 2 | 2 | 2 | 2 | 2 | Aster lateriflorus | Aster lateriflorus | Aster lateriflorus | Aster lateriflorus | Aster lateriflorus | Aster lateriflorus | Aster lateriflorus | Aster lateriflorus | Aster lateriflorus | Aster lateriflorus | Aster lateriflorus | Aster lateriflorus | Aster lateriflorus | Aster lateriflorus |
| 17 | 2 | 2 | 2 | 2 | 2 | Lysimachia ciliata | Lysimachia ciliata | Lysimachia ciliata | Lysimachia ciliata | Lysimachia ciliata | Lysimachia ciliata | Lysimachia ciliata | Lysimachia ciliata | Lysimachia ciliata | Lysimachia ciliata | Lysimachia ciliata | Lysimachia ciliata | Lysimachia ciliata | |
| 18 | 3 | 3 | 3 | 3 | 3 | Scutellaria lateriflora | Scutellaria lateriflora | Scutellaria lateriflora | Scutellaria lateriflora | Scutellaria lateriflora | Scutellaria lateriflora | Scutellaria lateriflora | Scutellaria lateriflora | Scutellaria lateriflora | Scutellaria lateriflora | Scutellaria lateriflora | Scutellaria lateriflora | Scutellaria lateriflora | |
| 19 | 4 | 4 | 4 | 4 | 4 | Agromyza puriflora | Agromyza puriflora | Agromyza puriflora | Agromyza puriflora | Agromyza puriflora | Agromyza puriflora | Agromyza puriflora | Agromyza puriflora | Agromyza puriflora | Agromyza puriflora | Agromyza puriflora | Agromyza puriflora | Agromyza puriflora | |
| 20 | 2 | 2 | 2 | 2 | 2 | Lobelia virginica | Lobelia virginica | Lobelia virginica | Lobelia virginica | Lobelia virginica | Lobelia virginica | Lobelia virginica | Lobelia virginica | Lobelia virginica | Lobelia virginica | Lobelia virginica | Lobelia virginica | Lobelia virginica | |
| 21 | 1 | 1 | 1 | 1 | 1 | Glyceria striata | Glyceria striata | Glyceria striata | Glyceria striata | Glyceria striata | Glyceria striata | Glyceria striata | Glyceria striata | Glyceria striata | Glyceria striata | Glyceria striata | Glyceria striata | Glyceria striata | |
| 22 | 1 | 1 | 1 | 1 | 1 | Arcium sp. | Arcium sp. | Arcium sp. | Arcium sp. | Arcium sp. | Arcium sp. | Arcium sp. | Arcium sp. | Arcium sp. | Arcium sp. | Arcium sp. | Arcium sp. | Arcium sp. | |
| 23 | 2 | 2 | 2 | 2 | 2 | Carex sp. | Carex sp. | Carex sp. | Carex sp. | Carex sp. | Carex sp. | Carex sp. | Carex sp. | Carex sp. | Carex sp. | Carex sp. | Carex sp. | Carex sp. | |
| 24 | 2 | 2 | 2 | 2 | 2 | Galium triflorum | Galium triflorum | Galium triflorum | Galium triflorum | Galium triflorum | Galium triflorum | Galium triflorum | Galium triflorum | Galium triflorum | Galium triflorum | Galium triflorum | Galium triflorum | Galium triflorum | |
| 25 | 3 | 3 | 3 | 3 | 3 | Fraxinus sp. (seedlings) | Fraxinus sp. (seedlings) | Fraxinus sp. (seedlings) | Fraxinus sp. (seedlings) | Fraxinus sp. (seedlings) | Fraxinus sp. (seedlings) | Fraxinus sp. (seedlings) | Fraxinus sp. (seedlings) | Fraxinus sp. (seedlings) | Fraxinus sp. (seedlings) | Fraxinus sp. (seedlings) | Fraxinus sp. (seedlings) | Fraxinus sp. (seedlings) | |
| 26 | 4 | 4 | 4 | 4 | 4 | Grewia canadensis | Grewia canadensis | Grewia canadensis | Grewia canadensis | Grewia canadensis | Grewia canadensis | Grewia canadensis | Grewia canadensis | Grewia canadensis | Grewia canadensis | Grewia canadensis | Grewia canadensis | Grewia canadensis | |
| 27 | 10 | 10 | 10 | 10 | 10 | Ulmus sp. (seedling) | Ulmus sp. (seedling) | Ulmus sp. (seedling) | Ulmus sp. (seedling) | Ulmus sp. (seedling) | Ulmus sp. (seedling) | Ulmus sp. (seedling) | Ulmus sp. (seedling) | Ulmus sp. (seedling) | Ulmus sp. (seedling) | Ulmus sp. (seedling) | Ulmus sp. (seedling) | Ulmus sp. (seedling) | |

See
10-112

EXAMPLES OF PERCENT OF AREA COVERED

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



Nested Corners

| cover class | % cover | mid 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% | 0.850 |
| 10 | 95-100% | 0.975 |

BROWSE RATING NARRATIVE DESCRIPTION

LOW OR NONE: there is no measurable browse line

AND there are very few or no plants 1-m nested quadrat

and intensive module. In general, low values relate to

less than 10 percent, by numbers of stems browsed.

MEDIUM LOW values include evidence of browse at

about 10 percent of the stems with no significant impact

to plant reproduction evident. In this rating, plants are

browsed but preferential species are observed to be

reproducing in numbers that appear normal or near-

normal in comparison to low browse areas. For

example, trilliums may flower and fruit, but jewelweed

and arrowwood viburnum exhibit browse.

MEDIUM: browse affects greater than 10 percent and

less than 25 percent of stems in the 1 m² nested

quadrat and intensive module. A browse line is usually

not evident or obvious for all classes and species of

vegetation, but careful examination may show

preferential browse and/or browse lines for some species

of plants.

MEDIUM HIGH values include evidence of a browse line

and 25 percent of stems browsed with very little

vegetation regeneration evident. In this rating, for some

species of plants, reproduction does not appear to occur

or it is very severely limited.

HIGH: greater than 25 percent of the stems of plants in

the 1 m² nested quadrat and intensive module **AND** a

browse line is evident.

VERY HIGH values include extensive browse conditions,

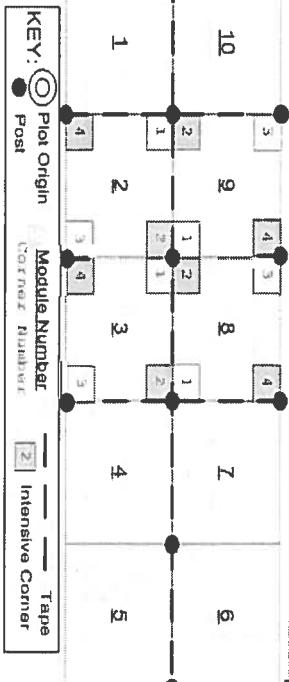
where the browse line is very evident **AND** almost all

seedlings and herbs are severely browsed or missing.

Browse line may be 5 to 6 feet in height with no or little

green growth beneath.

Typical Plot:



CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a

Project Label:

PCAP

Project name: Oil Rig

Plot no.: 1247

Page 2 of 4

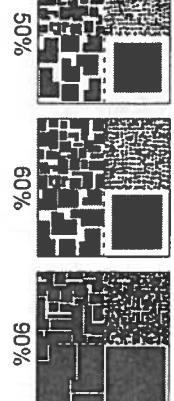
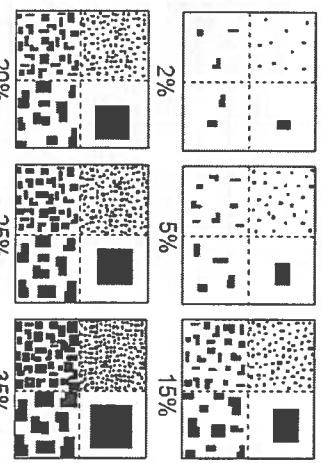
Total modules

Intensive modules:

Plot area (ha): 0.1

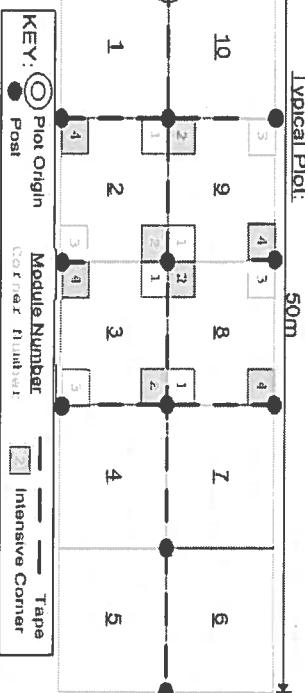
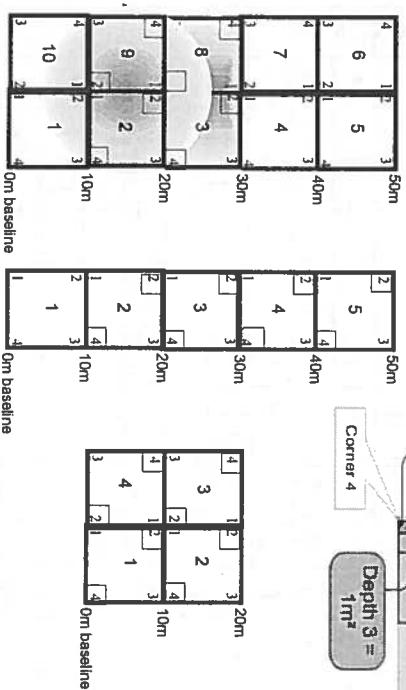
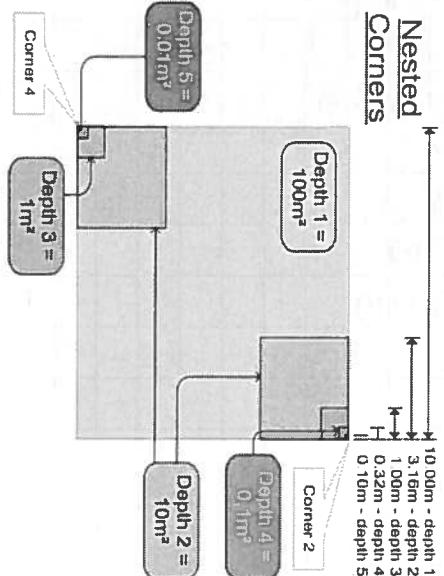
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| cover class | % cover | midpoint |
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Nested Corners



BROWSE RATING NARRATIVE DESCRIPTION

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

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

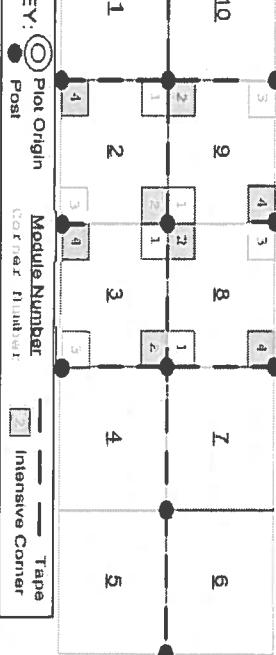
MEDIUM: browse affects greater than 10 percent and less than 25 percent of stems in the 1 m² nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of vegetation, but careful examination may show preferential browse and/or browse lines for some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

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

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

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

Typical Plot:



CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a

Project Label:

PCAP

Project name: DI 14; 2012

Plot no.: 1274

Page 3 of 4

Total modules:

一〇

Intensive modules:

8x5

Plot area (ha): 0.1

The logo for Cleveland Metroparks, featuring a stylized tree inside a circular frame with the text "Cleveland Metroparks" to the left.

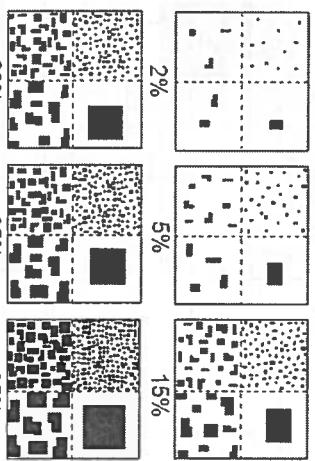
Br = Browse Level. Use cover classes to describe amount of browse per species over entire plot

Estimate for each intensive module:
%open water
%unvegetated open water

Kensit
SLT
10-1-12

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 by different sized objects.



| cover class | % cover | midpoint |
|-------------|-----------------|----------|
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| 5 | 5-10% | 0.075 |
| 6 | 10-25% | 0.175 |
| 7 | 25-50% | 0.375 |
| 8 | 50-75% | 0.625 |
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| 10 | 95-100% | 0.975 |

BROWSE RATING NARRATIVE DESCRIPTION
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to plant reproduction evident. In this rating plants are

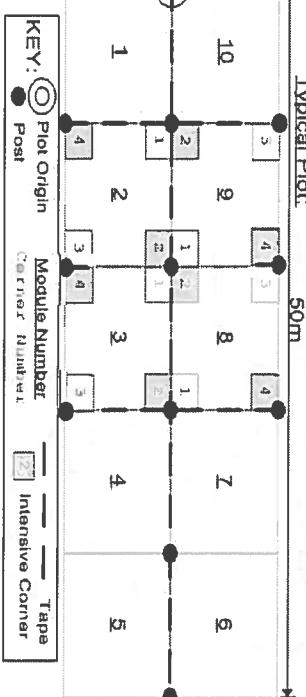
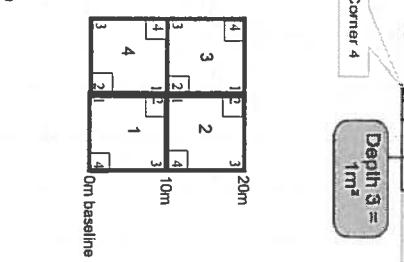
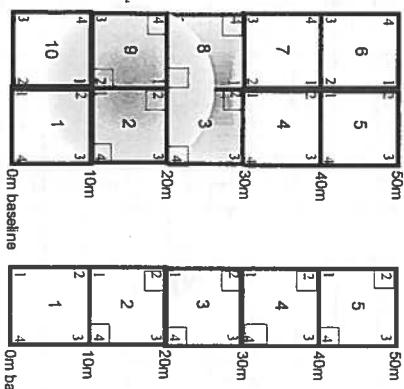
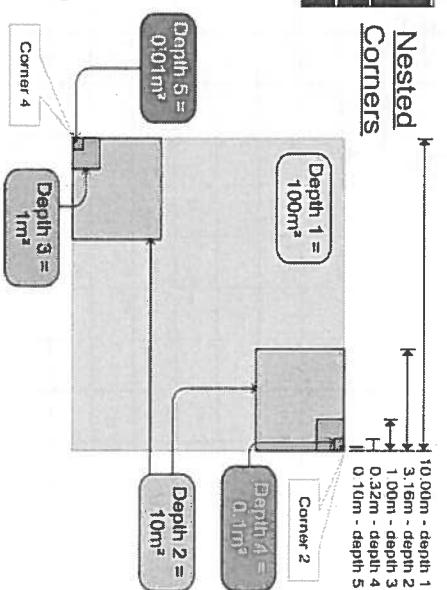
browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse areas. For example, trilliums may flower and fruit, but jewelweed and arrowwood viburnum exhibit browse.

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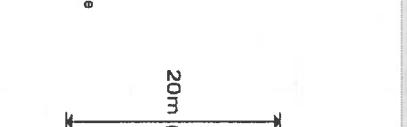
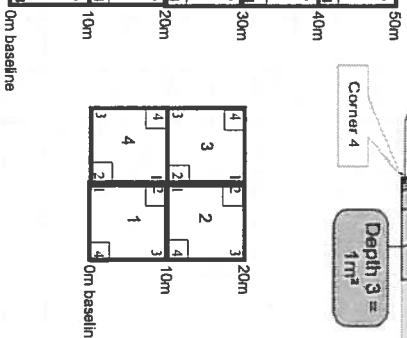
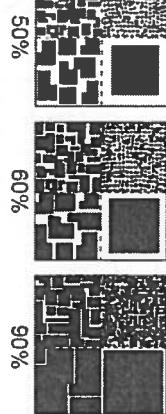
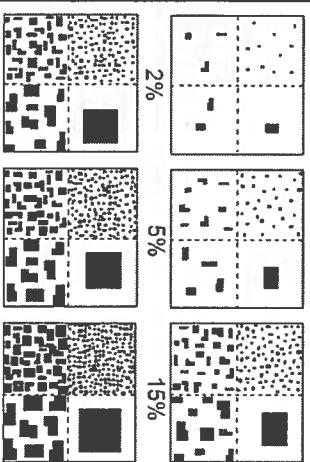
HIGH: greater than 25 percent of the stems of plants in

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.

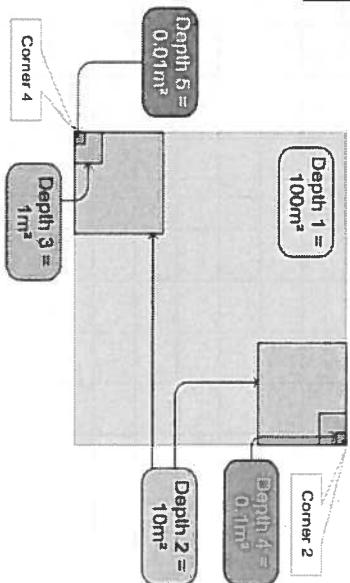


EXAMPLES OF PERCENT OF AREA COVERED

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



Nested Corners



| 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 |

BROWSE RATING NARRATIVE DESCRIPTION

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

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

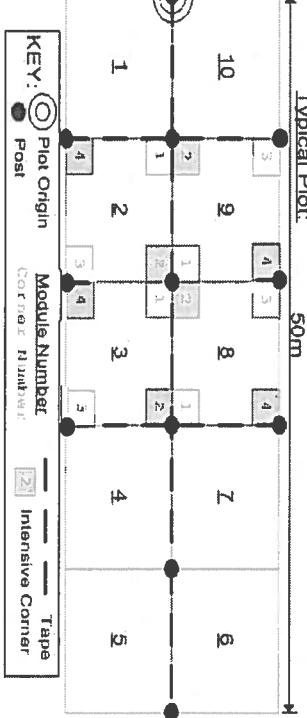
MEDIUM: browse affects greater than 10 percent and less than 25 percent of stems in the 1 m² nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of vegetation, but careful examination may show preferential browse and/or browse lines for some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

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

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

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

Typical Plot:



CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: OH-2012

Plot No.: 1234

Page: 1 of 4

Cleveland Metroparks

Explain subsample (additional room on back):

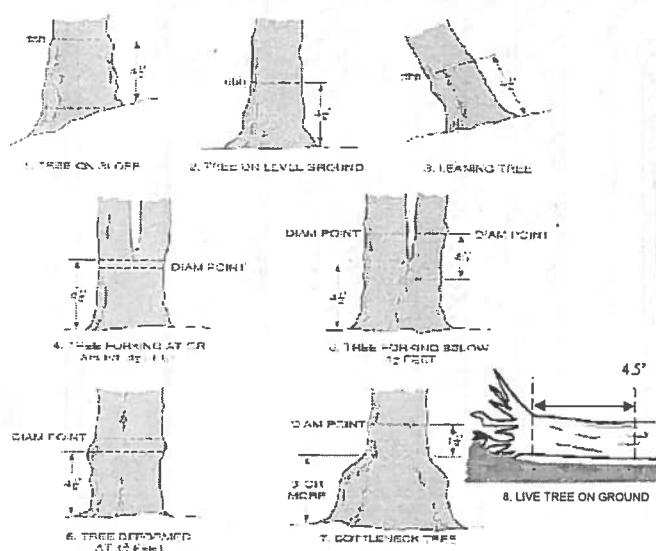
| mod # | species | c | voucher# | # stems 0-1.4m browsed | % sub sample | # shrub clumps | size class (cm) woody stems >1.4m | | | | | | | | | | | >40 (record each tree) |
|-------|-----------------------------------|---|----------|------------------------------|-----------------|----------------------|-----------------------------------|---|---|---|---|---|---|---|---|----|----|------------------------|
| | | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| 1 | <i>Prunus pensylvanica</i> | | | • | | | | | | • | | | | | | | | |
| 1 | <i>Fraxinus sp.</i> | | | • | | | | | • | • | | | | | | | | |
| 1 | <i>Ulmus americana</i> | | | | | | | | • | | | | | | | | | |
| 1 | <i>Styrax americanus</i> | | | | | | | | • | | | | | | | | | |
| 1 | <i>Prunus pensylvanica</i> | | | | | | | | • | | | | | | | | | |
| 1 | <i>Fraxinus sp.</i> | | | | | | | | • | | | | | | | | | |
| 1 | <i>Cornus rugosa</i> | | | • | | | | | • | | | | | | | | | |
| 1 | <i>Lindera benzoin</i> | | | | | | • | | • | | | | | | | | | |
| 1 | <i>Pathamiaus sp.</i> | | | | | | | • | | | | | | | | | | |
| 1 | <i>Fraxinus pennsylvanica</i> sp. | | | | | | | | • | | | | | | | | | |
| 1 | <i>Amelanchier alnifolia</i> | | | | | | | | • | | | | | | | | | |
| 1 | <i>Rosa multiflora</i> | | | • | | | | | • | | | | | | | | | |
| 2 | <i>Liquidambar styraciflua</i> | | | • | | | | | • | | | | | | | | | |
| 2 | <i>Fraxinus sp.</i> | | | | | | | | • | | | | | | | | | |
| 2 | <i>Quercus rubra</i> | | | | | | | | • | | | | | | | | | |
| 2 | <i>Crataegus sp.</i> | | | | | | | | • | | | | | | | | | |
| 2 | <i>Ulmus americana</i> | | | | | | | | • | | | | | | | | | |
| 2 | <i>Styrax americanus</i> | | | | | | | | • | | | | | | | | | |
| 2 | <i>Fraxinus pennsylvanica</i> sp. | | | | | | | | • | | | | | | | | | |
| 2 | <i>Carpinus caroliniana</i> | | | • | | | | | • | | | | | | | | | |
| 2 | <i>Prunus pensylvanica</i> | | | • | | | | | • | | | | | | | | | |
| 3 | <i>Fraxinus nigra</i> | | | | | | | | • | | | | | | | | | |
| 3 | <i>Fraxinus americana</i> sp. | | | | | | | | • | | | | | | | | | |
| 3 | <i>Crataegus sp.</i> | | | | | | | | • | | | | | | | | | |

combined SL

combined SL

8-17-12

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

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A

B

C

D

E

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CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

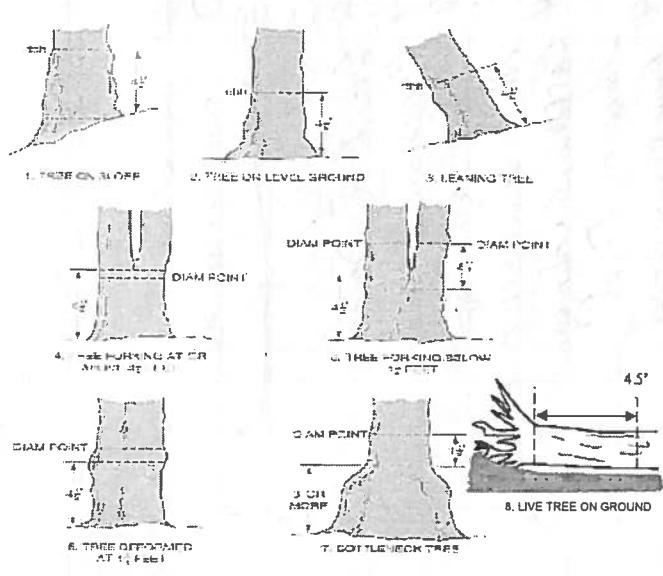
Project Label: PCAPProject Name: 01 H-2012Plot No.: 1224Page: 2of 4 Cleveland Metroparks

Explain subsample (additional room on back):

combined (on Pg. 1)
SE

| mod # | species | voucher# | # stems 0-1.4m or super sample | # shrub clumps | size class (cm) woody stems >1.4m | | | | | | | | | | | >40 (record each tree) |
|-------|-----------------------------|----------|---|----------------------|-----------------------------------|---|---|---|---|---|---|---|---|----|----|------------------------|
| | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| 3 | <i>Corylus cornuta</i> | | | | | | | | | | | | | | | |
| 3 | <i>Rhus typhina</i> sp. | | | | | | | | | | | | | | | |
| 3 | <i>Staph. Decid</i> | | | | | | | | | | | | | | | |
| 4 | <i>Ulmus americana</i> | | | | | | | | | | | | | | | |
| 4 | <i>Citrus us</i> sp | | | | | | | | | | | | | | | |
| 4 | <i>Acer saccharum</i> | | | | | | | | | | | | | | | |
| 4 | <i>Carpinus caroliniana</i> | | | | | | | | | | | | | | | |
| 4 | <i>Sib. Elm</i> | | | | | | | | | | | | | | | |
| 4 | <i>Quercus rubra</i> | | | | | | | | | | | | | | | |
| 4 | <i>Taxus canadensis</i> | | | | | | | | | | | | | | | |
| 4 | <i>Rosa multiflora</i> | | | | | | | | | | | | | | | |
| 4 | <i>Lindera benzoin</i> | | | | | | | | | | | | | | | |
| 4 | <i>Fraxinus sp.</i> | | | | | | | | | | | | | | | |
| 5 | <i>Prunus pensylvanica</i> | | | | | | | | | | | | | | | |
| 5 | <i>Pear</i> | | | | | | | | | | | | | | | |
| 5 | <i>Betula lutea</i> | | | | | | | | | | | | | | | |
| 5 | <i>Betula nigra</i> | | | | | | | | | | | | | | | |
| 5 | <i>Fraxinus sp.</i> | | | | | | | | | | | | | | | |
| 5 | <i>Staph. Decid</i> | | | | | | | | | | | | | | | |
| 5 | <i>Citrus us</i> sp. | | | | | | | | | | | | | | | |
| 5 | <i>Lindera benzoin</i> | | | | | | | | | | | | | | | |
| 6 | <i>Acer nigrum</i> | | | | | | | | | | | | | | | |
| 6 | <i>Staph. Decid</i> | | | | | | | | | | | | | | | |
| 6 | <i>Fraxinus sp.</i> | | | | | | | | | | | | | | | |

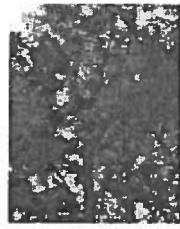
DBH Measurement Rules



Woody Stem Deer Browse

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

Record using the tally system from 1 to 10



1



2



3



4



5

ASH CANOPY CONDITION

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A



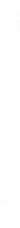
B



C



D



E

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CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

01/11/2012

Plot No.: 1274

Page: 1

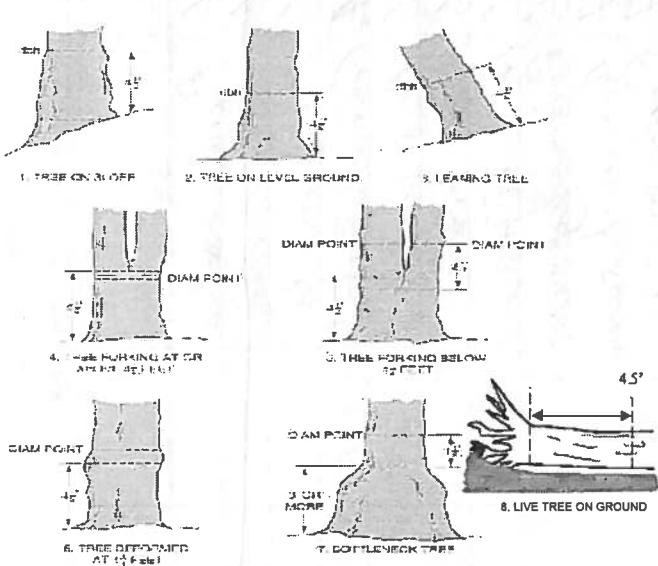
100

Explain subsampling (addition on back)

100

| mod # | species | C | voucher# | # stems 0-1.4m browsed | % sub or super sample | # shrub clumps | size class (cm) woody stems > 1.4m |
|-------|-----------------------------|---|----------|------------------------------|-----------------------------|----------------------|------------------------------------|
| 6 | <i>Prunus scripta</i> | | | | | 1 | 1 |
| 6 | <i>Prunus serotina</i> | | | | | 1 | 2 |
| 6 | <i>Carya ovata</i> | | | | | 1 | 2.5-5 |
| 6 | <i>Coronilla glauca</i> | | | | | 1 | 5-10 |
| 6 | <i>Acer saccharum</i> | | | | | 1 | 10-15 |
| 6 | <i>Pinus nigra</i> | | | | | 1 | 15-20 |
| 6 | <i>Comandra missouri</i> | | | | | 1 | 20-25 |
| 6 | <i>Rubus allegheniensis</i> | | | | | 1 | 25-30 |
| 7 | <i>Acer saccharum</i> | | | | | 1 | 30-35 |
| 7 | <i>Pinus nigra</i> | | | | | 1 | 35-40 |
| 7 | <i>Cotinus spp</i> | | | | | 1 | 40 |
| 7 | <i>Ulmus americana</i> | | | | | 1 | 40 |
| 7 | <i>Prunus serotina</i> | | | | | 1 | 40 |
| 7 | <i>Spiraea dumosa</i> | | | | | 1 | 40 |
| 8 | <i>Acer saccharum</i> | | | | | 1 | 40 |
| 8 | <i>Ulmus americana</i> | | | | | 1 | 40 |
| 8 | <i>Prunus nigra</i> | | | | | 1 | 40 |
| 8 | <i>Ulmus rubra</i> | | | | | 1 | 40 |
| 8 | <i>Prunus nigra</i> | | | | | 1 | 40 |
| 8 | <i>Styrax obassia</i> | | | | | 1 | 40 |
| 8 | <i>Fraxinus spp</i> | | | | | 1 | 40 |
| 8 | <i>Rubus allegheniensis</i> | | | | | 1 | 40 |
| 9 | <i>Acer nigrum</i> | | | | | 1 | 40 |
| 9 | <i>Vitis riparia</i> | | | | | 1 | 40 |
| 9 | <i>Runus serotina</i> | | | | | 1 | 40 |

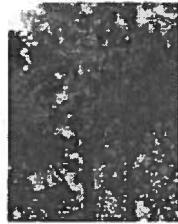
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1



2



3



4



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B



C



D



E

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CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

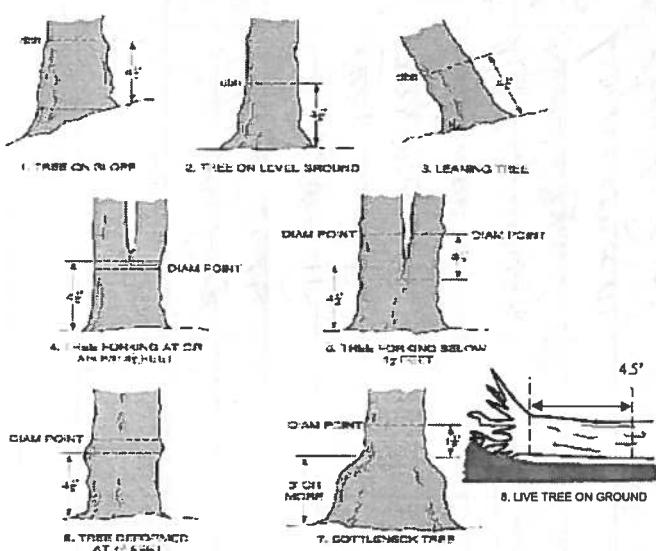
Project Label: PCAPProject Name: 014 2012Plot No.: 1274Page: 4 of 4

Cleveland Metroparks

Explain subsample (additional room on back):

| mod # | species | c | voucher# | # stems 0-1.4m browsed | % sub sample | # shrub clumps | size class (cm) woody stems >1.4m | | | | | | | | | | | >40 (record each tree) |
|-------|-----------------------------|---|----------|------------------------------|-----------------|----------------------|-----------------------------------|---|---|---|---|---|---|---|---|---|----|------------------------|
| | | | | | | | 0-<1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| 9 | <i>Stonning Brook</i> | | | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 9 | <i>Ulmus americana</i> | | | | | | | | | | | | | | | | | |
| 9 | <i>Cotinus coggygria</i> | | | | | | | | | | | | | | | | | |
| 9 | <i>Acer saccharinum</i> | | | | | | | | | | | | | | | | | |
| 9 | <i>Fraxinus sp.</i> | | | | | | | | | | | | | | | | | |
| 9 | <i>Prunus pensylvanica</i> | | | | | | | | | | | | | | | | | |
| | <i>Alnus americana</i> | | | | | | | | | | | | | | | | | |
| | <i>Rubus allegheniensis</i> | | | | | | | | | | | | | | | | | |
| 9 | <i>Lindera benzoin</i> | | | | | | | | | | | | | | | | | |
| 10 | <i>Stenocarpus</i> | | | | | | | | | | | | | | | | | |
| 10 | <i>Ulmus americana</i> | | | | | | | | | | | | | | | | | |
| 10 | <i>Cathartesia sp.</i> | | | | | | | | | | | | | | | | | |
| 10 | <i>Fraxinus saccharinum</i> | | | | | | | | | | | | | | | | | |
| 10 | <i>Nits riparia</i> | | | | | | | | | | | | | | | | | |
| 10 | <i>Crataegus subm</i> | | | | | | | | | | | | | | | | | |
| 10 | <i>Prunus nigra</i> | | | | | | | | | | | | | | | | | |
| 10 | <i>Artemesia vulgaris</i> | | | | | | | | | | | | | | | | | |
| 10 | <i>Lyonia ferruginea</i> | | | 5 | | | | | | | | | | | | | | |
| 10 | <i>Rubus occidentalis</i> | | | 1 | | | | | | | | | | | | | | |
| 10 | <i>Rosa multiflora</i> | | | | | | | | | | | | | | | | | |
| 10 | <i>Rubus allegheniensis</i> | | | | | | | | | | | | | | | | | |

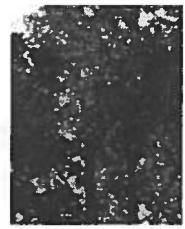
DBH Measurement Rules



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1



2



3



4



5

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A



B



C



D



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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)

5 cm
 matrix color 10 YR 3/2
 moilie color N/A

*%moilie 0
 oxid roots Y N

texture* 1
 redox features** Y N

hydr. cond.*** 1 S M O
 matrix color 10 YR 3/2
 moilie color N/A

%moilie 0
 oxid roots Y N

texture* 1
 redox features** Y N

hydr. cond.*** 1 S M O
 matrix color 10 YR 3/2
 moilie color N/A

%moilie 0
 oxid roots Y N

texture* 1
 redox features** Y N

hydr. cond.*** 1 S M O
 matrix color 10 YR 3/2
 moilie color N/A

%moilie 0
 oxid roots Y N

texture* 1
 redox features** Y N

hydr. cond.*** 1 S M O
 matrix color 10 YR 3/2
 moilie color N/A

%moilie 0
 oxid roots Y N

texture* 1
 redox features** Y N

hydr. cond. *** 1 S M O
 matrix color 10 YR 3/2
 moilie color N/A

%moilie 0
 oxid roots Y N

texture* 1
 redox features** Y N

hydr. cond. *** 1 S M O
 matrix color 10 YR 3/2
 moilie color N/A

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

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

Soil Series/Type Craigie Silt loam
 Soil Series Source: Ohio Soil Survey

Landform type: Flood Plains
 Depth to rest. Layer: 780 inches

Parent Material: Alluvium

Depth to bedrock: 780 inches

| EARTH SURFACE & GROUND COVER | |
|------------------------------|-----------------------|
| Underlying Earth Surface* | Ground Cover |
| (Sum = 100%) | Percent (Each ≤ 100%) |
| Histsol | <u>0</u> |
| Mineral Soil | <u>99</u> |
| Gravel-Cobble* | <u>1</u> |
| Boulder** | <u>0</u> |
| Bedrock | <u>0</u> |
| *Gravel-Cobble = 1/16-10" | Water |
| **Boulder = > 10 in | Bare Soil |
| ***>5 cm in diameter | Road/Trail |
| ****<5 cm in diameter | Other |

| TRAIL INFORMATION: | |
|---|----------|
| Record type and cover for each | |
| Type | % Cover |
| <input type="checkbox"/> All Purpose | |
| <input type="checkbox"/> Bridle | |
| <input type="checkbox"/> Hiking sanctioned | |
| <input type="checkbox"/> Bootleg unsanctioned | |
| <input type="checkbox"/> Gravel | |
| <input checked="" type="checkbox"/> Deer | |
| <input type="checkbox"/> <u>2</u> | <u>5</u> |

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

STAND SIZE

Strata Height Range (m)

Tree 2.5 93

Shrub 0.5 - 5 8

Herb 0 - 0.5 43

(F)loating* - -

(Aquatic)* - -

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

*refer to texture classes on reverse side
 ** e.g. hydrogen sulfide odor, gleying, etc.
 *** Circle one:
 I=Inundated S=saturated M=moist D=dry
 Notes: include evidence of earthworms (worms, castings, middens)

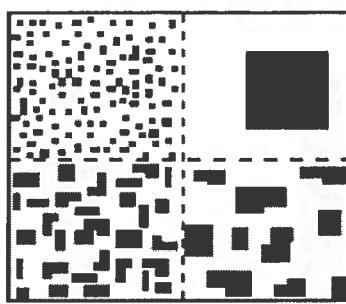
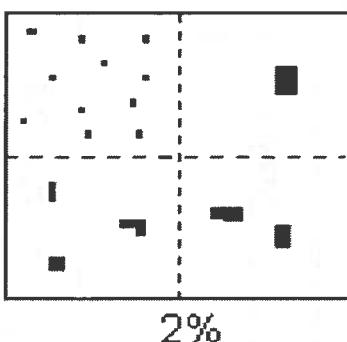
no worms

no castings

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

PERCENT MOTTLES (USE CLASS CODES):

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



2%

20%

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

0= Organic

1= Loamy

2= Clayey

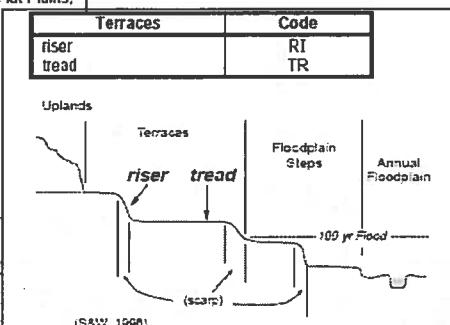
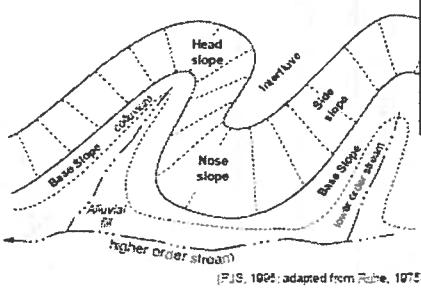
3= Sandy

4= Coarse Sand

9= Not measured - make plot note

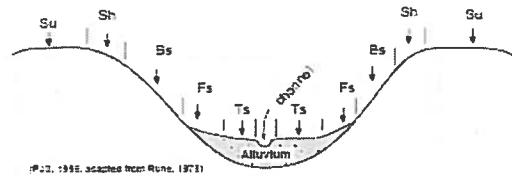
Geomorphic Component - Three-dimensional descriptors of parts of landforms or microfeatures that are best applied to areas. Unique descriptors are available for Hills, Terraces, Mountains, and Flat Plains; e.g., (for Hills) nose slope or NS.

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



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

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



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

UPLAND: Not a wetland. Very rarely flooded.

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

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

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

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

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

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

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

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

STANDING BIOMASS (required for emergent wetlands) collected in 0, 1, or 2 clip plots (32x32 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. C* = check when collected.

| Module # | C7 | Corner | Corner |
|----------|----|--------|--------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

CLASSIFICATION

(F1* = excellent, F2* and Confidence

Hydrogeomorphic class (WETLANDS ONLY):

| | | |
|---|-----------|-------------|
| <input type="checkbox"/> DEPRESSION | F1= _____ | Conf= _____ |
| <input type="checkbox"/> IMPOUNDMENT <input type="checkbox"/> Beaver <input type="checkbox"/> Human | F1= _____ | Conf= _____ |
| <input type="checkbox"/> RIVERINE <input type="checkbox"/> Headwater <input type="checkbox"/> Mainstem <input type="checkbox"/> Channel | F1= _____ | Conf= _____ |
| <input type="checkbox"/> SLOPE (ground water hydrology or on a physical slope) | F1= _____ | Conf= _____ |
| <input type="checkbox"/> FRINGING <input type="checkbox"/> Reservoir <input type="checkbox"/> Natural Lake | F1= _____ | Conf= _____ |
| <input type="checkbox"/> COASTAL (specify subclass) | F1= _____ | Conf= _____ |
| <input type="checkbox"/> BOG (strongly, moderately, weakly ombrotrophic) | F1= _____ | Conf= _____ |
| <input type="checkbox"/> FOREST <input type="checkbox"/> swamp forest <input type="checkbox"/> bog forest <input type="checkbox"/> forest steep | F1= _____ | Conf= _____ |
| <input type="checkbox"/> EMERGENT <input type="checkbox"/> marsh <input type="checkbox"/> wet meadow <input type="checkbox"/> open bog | F1= _____ | Conf= _____ |
| <input type="checkbox"/> SHRUB <input type="checkbox"/> shrub swamp <input type="checkbox"/> tall sh. bog <input type="checkbox"/> tall sh. fen | F1= _____ | Conf= _____ |

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

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

Slope 1 = slight elevational grade across module (hill)

Slope 2 = falls on slope >20°

Slope 3 = maximum steepness that can be safely sampled ~15°

0 feature is absent or functionally absent from the wetland

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

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

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

| C.w.d. - count for pieces with minimum 1m length | | | | | | | |
|--|-----------------|-----------------------|-----------------|-----------------|--------------------|-----------|-----------|
| no. of tussocks | no. of hummocks | no. macro depressions | c.w.d (2-12 cm) | c.w.d (12-40cm) | >40 cm interspers. | microhab. | microhab. |
| 2 | 0 | 0 | 15 | 1 | 0 | 2 | 1 |
| 3 | 0 | 0 | 9 | 0 | 0 | 0 | 0 |
| 8 | 0 | 0 | 7 | 0 | 0 | 1 | 0 |
| 9 | 0 | 0 | 10 | 0 | 0 | 2 | 3 |
| 10 | 0 | 0 | 4 | 0 | 0 | 2 | 3 |
| 12 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 43 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 46 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 47 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 49 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 51 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 52 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 53 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 55 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 56 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 57 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 58 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 60 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 61 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 64 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 65 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 66 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 68 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 69 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 70 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 71 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 72 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 73 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 74 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 76 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 77 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 78 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 79 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 80 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 81 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 82 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 83 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 84 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 86 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 91 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 92 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 96 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 97 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 98 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 99 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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

CROWN COVER (DENSIMETER) Make 4

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

| Module | N | S | E | W |
|--------|---|---|---|---|
| 2 | 0 | 0 | 0 | 0 |
| 3 | 1 | 0 | 0 | 0 |
| 8 | 0 | 1 | 0 | 0 |
| 9 | 0 | 3 | 0 | 0 |
| 10 | 0 | 0 | 0 | 0 |
| 11 | 0 | 0 | 0 | 0 |
| 12 | 0 | 0 | 0 | 0 |
| 13 | 0 | 0 | 0 | 0 |
| 14 | 0 | 0 | 0 | 0 |
| 15 | 0 | 0 | 0 | 0 |
| 16 | 0 | 0 | 0 | 0 |
| 17 | 0 | 0 | 0 | 0 |
| 18 | 0 | 0 | 0 | 0 |
| 19 | 0 | 0 | 0 | 0 |
| 20 | 0 | 0 | 0 | 0 |
| 21 | 0 | 0 | 0 | 0 |
| 22 | 0 | 0 | 0 | 0 |
| 23 | 0 | 0 | 0 | 0 |
| 24 | 0 | 0 | 0 | 0 |
| 25 | 0 | 0 | 0 | 0 |
| 26 | 0 | 0 | 0 | 0 |
| 27 | 0 | 0 | 0 | 0 |
| 28 | 0 | 0 | 0 | 0 |
| 29 | 0 | 0 | 0 | 0 |
| 30 | 0 | 0 | 0 | 0 |
| 31 | 0 | 0 | 0 | 0 |
| 32 | 0 | 0 | 0 | 0 |
| 33 | 0 | 0 | 0 | 0 |
| 34 | 0 | 0 | 0 | 0 |
| 35 | 0 | 0 | 0 | 0 |
| 36 | 0 | 0 | 0 | 0 |
| 37 | 0 | 0 | 0 | 0 |
| 38 | 0 | 0 | 0 | 0 |
| 39 | 0 | 0 | 0 | 0 |
| 40 | 0 | 0 | 0 | 0 |
| 41 | 0 | 0 | 0 | 0 |
| 42 | 0 | 0 | 0 | 0 |
| 43 | 0 | 0 | 0 | 0 |
| 44 | 0 | 0 | 0 | 0 |
| 45 | 0 | 0 | 0 | 0 |
| 46 | 0 | 0 | 0 | 0 |
| 47 | 0 | 0 | 0 | 0 |
| 48 | 0 | 0 | 0 | 0 |
| 49 | 0 | 0 | 0 | 0 |
| 50 | 0 | 0 | 0 | 0 |
| 51 | 0 | 0 | 0 | 0 |
| 52 | 0 | 0 | 0 | 0 |
| 53 | 0 | 0 | 0 | 0 |
| 54 | 0 | 0 | 0 | 0 |
| 55 | 0 | 0 | 0 | 0 |
| 56 | 0 | 0 | 0 | 0 |
| 57 | 0 | 0 | 0 | 0 |
| 58 | 0 | 0 | 0 | 0 |
| 59 | 0 | 0 | 0 | 0 |
| 60 | 0 | 0 | 0 | 0 |
| 61 | 0 | 0 | 0 | 0 |
| 62 | 0 | 0 | 0 | 0 |
| 63 | 0 | 0 | 0 | 0 |
| 64 | 0 | 0 | 0 | 0 |
| 65 | 0 | 0 | 0 | 0 |
| 66 | 0 | 0 | 0 | 0 |
| 67 | 0 | 0 | 0 | 0 |
| 68 | 0 | 0 | 0 | 0 |
| 69 | 0 | 0 | 0 | 0 |
| 70 | 0 | 0 | 0 | 0 |
| 71 | 0 | 0 | 0 | 0 |
| 72 | 0 | 0 | 0 | 0 |
| 73 | 0 | 0 | 0 | 0 |
| 74 | 0 | 0 | 0 | 0 |
| 75 | 0 | 0 | 0 | 0 |
| 76 | 0 | 0 | 0 | 0 |
| 77 | 0 | 0 | 0 | 0 |
| 78 | 0 | 0 | 0 | 0 |
| 79 | 0 | 0 | 0 | 0 |
| 80 | 0 | 0 | 0 | 0 |
| 81 | 0 | 0 | 0 | 0 |
| 82 | 0 | 0 | 0 | 0 |
| 83 | 0 | 0 | 0 | 0 |
| 84 | 0 | 0 | 0 | 0 |
| 85 | 0 | 0 | 0 | 0 |
| 86 | 0 | 0 | 0 | 0 |
| 87 | 0 | 0 | 0 | 0 |
| 88 | 0 | 0 | 0 | 0 |
| 89 | 0 | 0 | 0 | 0 |
| 90 | 0 | 0 | 0 | 0 |
| 91 | 0 | 0 | 0 | 0 |
| 92 | 0 | 0 | 0 | 0 |
| 93 | 0 | 0 | 0 | 0 |
| 94 | 0 | 0 | 0 | 0 |
| 95 | 0 | 0 | 0 | 0 |
| 96 | 0 | 0 | 0 | 0 |
| 97 | 0 | 0 | 0 | 0 |
| 98 | 0 | 0 | 0 | 0 |
| 99 | 0 | 0 | 0 | 0 |
| 100 | 0 | 0 | 0 | 0 |

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.

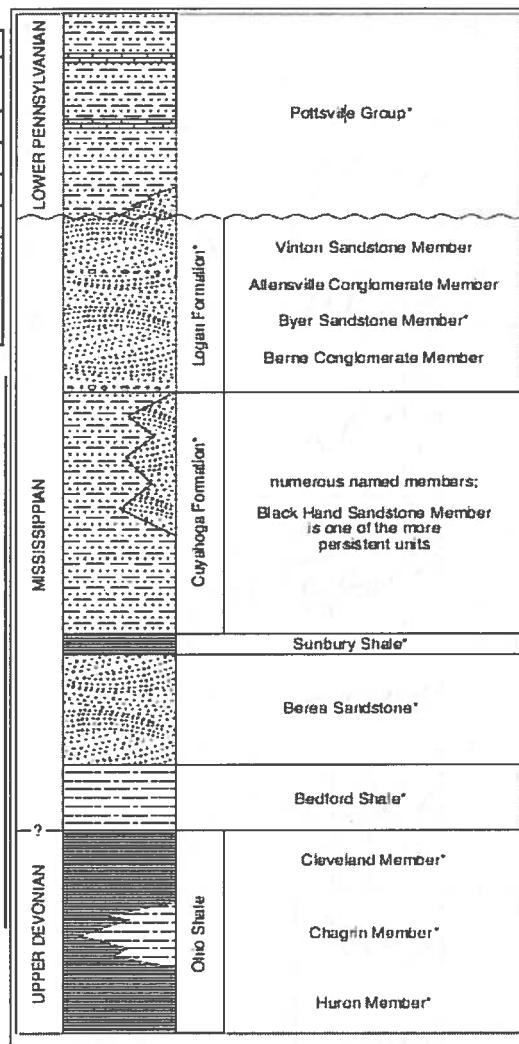
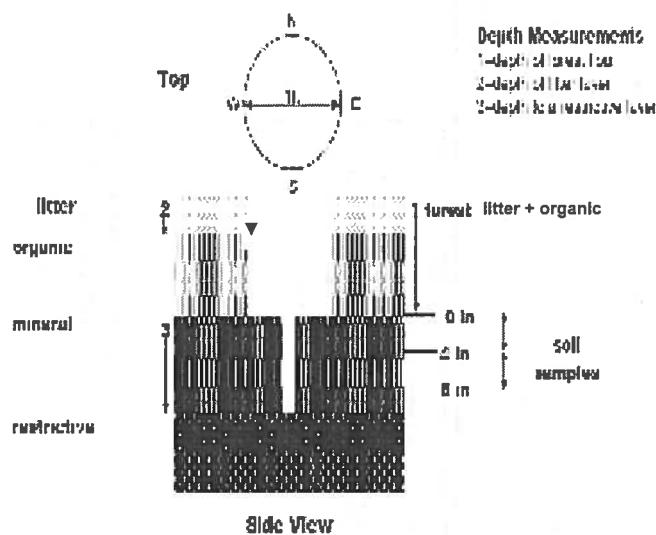


FIGURE 3-20.—Generalized section of Upper Devonian, Mississippian, and Lower Pennsylvanian formations in northeastern Ohio. Asterisks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses indicated are proportional. The term "Wavy" 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 Hyds (1953), Hoover (1960), and Collins (1979) for more information on Mississippian rocks in Ohio. See figure 3-13 for explanation of rock types.

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



| Tier 1: Early detection/ Rapid response | | Presence | | | | GPS | Presence |
|--|-----------------------------|-------------|----|----|----|----------|--------------|
| | | NE | SE | SW | NW | | |
| <i>Microstegium vimineum</i> | Japanese stiltgrass | | | | | | |
| <i>Ranunculus ficaria</i> | Lesser Celandine | | | | | | |
| <i>Cynanchum louiseae</i> (vine) | Black Swallow-wort | | | | | | |
| <i>Butomus umbellatus</i> (wetland) | Flowering Rush | | | | | | |
| <i>Heracleum mantegazzianum</i> | Giant Hogweed | | | | | | |
| Tier 2: Assess as Needed | | # of Plants | | | | comments | # of Plants |
| | | NE | SE | SW | NW | | |
| <i>Acer platanoides</i> | Norway Maple | | | | | | 1: 1-10 |
| <i>Ailanthus altissima</i> | Tree of Heaven | | | | | | 2: 11-50 |
| <i>Lonicera japonica</i> (vine) | Japanese Honeysuckle | | | | | | 3: 51-100 |
| <i>Lythrum salicaria</i> (wetland) | Purple Loosestrife | | | | | | 4: 101-1,000 |
| <i>Aegopodium podagraria</i> (G-cover) | Bishop's Goutweed | | | | | | 5: >1,000 |
| <i>Celastrus orbiculatus</i> (vine) | Asian Bittersweet | | | | | | |
| <i>Torilis</i> sp. | Hedgeparsley | | | | | | |
| <i>Conium maculatum</i> | Poison Hemlock | | | | | | |
| <i>Rhamnus cathartica</i> | Common Buckthorn (shrub) | | | | | | |
| <i>Berberis thunbergii</i> | Japanese Barberry (shrub) | | | | | | |
| <i>Alnus glutinosa</i> | European Alder | | | | | | |
| <i>Dipsacus laciniatus</i> | Cut-leaf Teasel | | | | | | |
| <i>Elaeagnus umbellata</i> | Autumn Olive (shrub) | | | | | | |
| <i>Lonicera maackii</i> | Amur Honeysuckle (shrub) | | | | | | |
| <i>Euonymus fortunei</i> | Wintercreeper | | | | | | |
| Tier 3: Presence is of Interest | | # of Plants | | | | comments | # of Plants |
| | | NE | SE | SW | NW | | |
| <i>Convallaria majalis</i> (G-cover) | Lily of the Valley | | | | | | 1: 1-10 |
| <i>Coronilla varia</i> (G-cover) | Crown Vetch | | | | | | 2: 11-50 |
| <i>Eleutherococcus pentaphyllus</i> | Five-leaf Aralia (shrub) | | | | | | 3: 51-100 |
| <i>Pachysandra terminalis</i> (G-cover) | Japanese Pachysandra | | | | | | 4: 101-1,000 |
| <i>Philadelphus coronarius</i> | Mock Orange (shrub) | | | | | | 5: >1,000 |
| <i>Pulmonaria officinalis</i> (G-cover) | Lungwort | | | | | | |
| <i>Rubus phoenicolasius</i> | Wineberry | | | | | | |
| <i>Iris pseudacorus</i> (wetland) | Yellow Flag Iris | | | | | | |
| <i>Ornithogalum umbellatum</i> | Star of Bethlehem | | | | | | |
| <i>Viburnum opulus</i> var. <i>opulus</i> | European Cranberry (shrub) | | | | 1 | | |
| <i>Viburnum plicatum</i> | Doublefile Viburnum (shrub) | | | | | | |
| Tier 4: Widespread and abundant | | Presence | | | | comments | Presence |
| | | NE | SE | SW | NW | | |
| <i>Alliaria petiolata</i> | Garlic Mustard | 4 | 2 | 1 | 1 | | |
| <i>Ligustrum vulgare</i> | Common Privet (shrub) | | | 2 | 1 | | |
| <i>L. morrowii</i> , <i>L. tatarica</i> | Bush Honeysuckles (shrub) | 4 | 3 | 4 | 5 | | |
| <i>Phalaris arundinacea</i> | Reed Canarygrass | | | | | | |
| <i>Phragmites australis</i> (wetland) | Phragmites | | | | | | |
| <i>Polygonum cuspidatum</i> | Japanese Knotweed | | | | | | |
| <i>Frangula alnus</i> | Glossy Buckthorn (shrub) | | | | | | |
| <i>Rosa multiflora</i> | Multiflora Rose (shrub) | 3 | 2 | 2 | 1 | | |
| <i>Typha angustifolia</i> , <i>T. x glauca</i> | Cattails (wetland) | | | | | | |
| <i>Cirsium arvense</i> | Canada thistle | | | | | | |
| <i>Dipsacus fullonum</i> | Common Teasel | | | | | | |
| <i>Hesperis matronalis</i> | Dame's Rocket | | | | | | |
| <i>Vinca minor</i> (G-cover) | Periwinkle | | | | | | |

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

CLEVELAND METROPARKS Emerald Ash Borer - *Fraxinus* Sheet

Project Label: PCAP

Project Name: DI H, 2012

INTENSIVE MODULES ONLY TREES $\geq 10\text{CM}$ ONLY Plot No.: 1274 Date: 8/1/12Page: 1 of 2
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| Module ID | Tree ID | Species | Dead c | Voucher # | DBH (cm) | HT @ DBH | Ash condition | "Dead holes" | # Exit holes | ASH Only | |
|--------------|--------------|---------|-----------|-----------|-------------|-------------|------------------|-----------------|-----------------|----------------------|---------------------|
| | | | | | | | | | | Epicornic present | Woodpecker holes |
| 1 | Fraxinus sp. | | | | 10.5 | | 1 | 0 | 0 | | |
| 2 | | | | | | | | | | | |
| 3 | | | | | | | | | | | |
| 4 | | | | | | | | | | | |
| 5 | | | | | | | | | | | |
| 6 | | | | | | | | | | | |
| 7 | | | | | | | | | | | |
| 8 | | | | | | | | | | | |
| 9 | | | | | | | | | | | |
| 10 | | | | | | | | | | | |
| 11 | | | | | | | | | | | |
| 12 | | | | | | | | | | | |
| 13 | | | | | | | | | | | |
| 14 | | | | | | | | | | | |
| 15 | | | | | | | | | | | |
| 16 | | | | | | | | | | | |
| 17 | | | | | | | | | | | |
| 18 | | | | | | | | | | | |
| 19 | | | | | | | | | | | |
| 20 | | | | | | | | | | | |
| 21 | | | | | | | | | | | |
| 22 | | | | | | | | | | | |
| 23 | | | | | | | | | | | |
| 24 | | | | | | | | | | | |
| 25 | | | | | | | | | | | |

Rowish
ID-1-12
SKE

N

*** Change intensive module numbers when necessary

Baseline

| | | |
|---|---|---|
| 9 | 8 | 3 |
|---|---|---|

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

* If Ash Condition scores 5 (dead) provide breakup score (A-E)
 Count EAB exit holes $1.25\text{m}^2 \times \geq 1.5\text{mm}$
 Woodpecker and epicormic marked present (1) or absent (0)

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAP HI 1274

DATE: 08/01/2012

Location:

O AA Center O N O S O E O W

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

O Plot 1 O Plot 2 O Plot 3

Buffer Natural Cover Strata

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

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

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

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 | 0 | 0 | 0 | | Ditches, Channelization | 0 | 0 | 0 | | Pasture/Hay | 0 | 0 | 0 | | |
| Road - two lane | 0 | 0 | 0 | | Dike/Dam/Road/RR Bed (IMPEDE FLOW) | 0 | 0 | 0 | | Range | 0 | 0 | 0 | | |
| Road - four lane | 0 | 0 | 0 | | Water Level Control Structure | 0 | 0 | 0 | | Row Crops | 0 | 0 | 0 | | |
| Parking Lot/Pavement | 0 | 0 | 0 | | Excavation, Dredging | 0 | 0 | 0 | | Fallow Field (RECENT-RESTING ROW CROP FIELD) | 0 | 0 | 0 | | |
| Golf Course | 0 | 0 | 0 | | Fill/Spoil Banks | 0 | 0 | 0 | | Fallow Field (OLD - GRASS, SHRUBS, TREES) | 0 | 0 | 0 | | |
| Lawn/Park | 0 | 0 | 0 | | Freshly Deposited Sediment (UNVEGETATED) | 0 | 0 | 0 | | Nursery | 0 | 0 | 0 | | |
| Suburban Residential | 0 | 0 | 0 | | Soil Loss/Root Exposure | 0 | 0 | 0 | / | Dairy | 0 | 0 | 0 | | |
| Urban/Multifamily | 0 | 0 | 0 | | Wall/Riprap | 0 | 0 | 0 | | Orchard | 0 | 0 | 0 | | |
| Landfill | 0 | 0 | 0 | | Inlets, Outlets | 0 | 0 | 0 | | Confined Animal Feeding | 0 | 0 | 0 | | |
| Dumping | 0 | 0 | 0 | | Point Source/Pipe (EFFLUENT OR STORMWATER) | 0 | 0 | 0 | | Rural Residential | 0 | 0 | 0 | | |
| Trash | 0 | 0 | 0 | | Impervious surface input (SHEETFLOW) | 0 | 0 | 0 | | Gravel Pit | 0 | 0 | 0 | | |
| Other: _____ | 0 | 0 | 0 | | Other: _____ | 0 | 0 | 0 | | Irrigation | 0 | 0 | 0 | | |
| Other: _____ | 0 | 0 | 0 | | Other: _____ | 0 | 0 | 0 | | Other: _____ | 0 | 0 | 0 | | |
| Industrial Development Stressors | | | | Habitat/Vegetation Stressors | | | | | | | | | | | |
| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | |
| Oil Drilling | 0 | 0 | 0 | | Forest Clear Cut | 0 | 0 | 0 | | Herbicide Use | 0 | 0 | 0 | | |
| Gas Wells | 0 | 0 | 0 | | Forest Selective Cut | 0 | 0 | 0 | | Mowing/Shrub Cutting | 0 | 0 | 0 | | |
| Mine (surface) | 0 | 0 | 0 | | Tree Plantation | 0 | 0 | 0 | | Trails | 0 | 0 | 0 | | |
| Mine (underground) | 0 | 0 | 0 | | Tree Canopy Herbivory (INSECT) | 0 | 0 | 0 | | Soil Compaction (ANIMAL OR HUMAN) | 0 | 0 | 0 | | |
| Military | 0 | 0 | 0 | | Shrub Layer Browsed (WILD OR DOMESTIC) | 0 | 0 | 0 | | Offroad vehicle damage | 0 | 0 | 0 | | |
| Other: _____ | 0 | 0 | 0 | | Highly Grazed Grasses (OVERALL <3" HIGH) | 0 | 0 | 0 | | Soil erosion (FROM WIND, WATER, OR OVERUSE) | 0 | 0 | 0 | | |
| Other: _____ | 0 | 0 | 0 | | Recently Burned Forest Canopy | 0 | 0 | 0 | | Other: _____ | 0 | 0 | 0 | | |
| Other: _____ | 0 | 0 | 0 | | Recently Burned Grassland (BLACKENED) | 0 | 0 | 0 | | Other: _____ | 0 | 0 | 0 | | |

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

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

2428168304

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

Reviewed by (initial): _____

Site ID: PCAP Hi 1274

DATE: 08/01/2012

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

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

PLOT COORDINATES

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

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

Location of coordinates (choose one):

Flag

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

Latitude North 41 21 22.9

Longitude West 081.70741

Use Decimal Degrees: NAD83

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAP HI 1274

DATE: 08 / 01 / 2012

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

Buffer Natural Cover Strata

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

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

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

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

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

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

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

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

2428168304

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

Reviewed by (initial): _____

Site ID: PCAP HI 1274

DATE: 08/01/2012

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

| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
|-------------------------------|-----------------------|-----------------------|-----------------------|------|-------------------------------|-----------------------|-----------------------|-----------------------|------|-------------------------------|----------------------------------|----------------------------------|----------------------------------|------|
| Eurasian Watermilfoil | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Purple Loosestrife | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Johnson Grass | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Water hyacinth | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Knotweed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Kudzu | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Yellow Floating Heart | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Japanese Knotweed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Multiflora Rose | <input checked="" type="radio"/> | <input 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 41.21355 Longitude West 081.70943

Use Decimal Degrees: NAD83

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAP HI 1274

DATE: 08/01/2017

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

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

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

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

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

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

2428168304

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

Reviewed by (initial): _____

Site ID: PLAP Hi 1274

DATE: 08/01/2012

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

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

PLOT COORDINATES

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

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

Location of coordinates (choose one):

Flag

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

Latitude North 41.21283 Longitude West 081.71048

Use Decimal Degrees: NAD83

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAP Hi 1274

DATE: 08/01/2012

Location:

O AA Center O N O S O E O W

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

O Plot 1 O Plot 2 O Plot 3

Buffer Natural Cover Strata

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

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

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

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

| Residential and Urban Stressors | | | | Hydrology Stressors | | | | Agricultural & Rural Stressors | | | | | | | |
|---------------------------------|---|---|---|---------------------|--|--|---|--------------------------------|------|--|--|---|---|------|--|
| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | |
| Road - gravel | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Ditches, Channelization | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Pasture/Hay | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Road - two lane | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Dike/Dam/Road/RR Bed (IMPEDE FLOW) | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Range | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Road - four lane | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Water Level Control Structure | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Row Crops | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Parking Lot/Pavement | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4 | | | | Excavation, Dredging | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Fallow Field (RECENT-RESTING ROW CROP FIELD) | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Golf Course | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Fill/Spoil Banks | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Fallow Field (OLD - GRASS, SHRUBS, TREES) | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Lawn/Park | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Freshly Deposited Sediment (UNVEGETATED) | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Nursery | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Suburban Residential | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Soil Loss/Root Exposure | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Dairy | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Urban/Multifamily | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Wall/Riprap | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Orchard | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Landfill | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Inlets, Outlets | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Confined Animal Feeding | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Dumping | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Point Source/Pipe (EFFLUENT OR STORMWATER) | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Rural Residential | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Trash | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Impervious surface Input (SHEETFLOW) | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Gravel Pit | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Other: _____ | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Other: _____ | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Irrigation | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Other: _____ | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Other: _____ | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Other: _____ | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input 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"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Forest Clear Cut | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Herbicide Use | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Gas Wells | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Forest Selective Cut | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Mowing/Shrub Cutting | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4 | | | | |
| Mine (surface) | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Tree Plantation | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Trails | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Mine (underground) | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Tree Canopy Herbivory (INSECT) | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Soil Compaction (ANIMAL OR HUMAN) | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Military | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Shrub Layer Browsed (WILD OR DOMESTIC) | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Offroad vehicle damage | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Other: _____ | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Highly Grazed Grasses (OVERALL <3 HIGH) | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Soil erosion (FROM WIND, WATER, OR OVERUSE) | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Other: _____ | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Recently Burned Forest Canopy | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Other: _____ | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | |
| Other: _____ | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Recently Burned Grassland (BLACKENED) | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | | | Other: _____ | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input 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

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

Reviewed by (initial): _____

Site ID: PCAP Hi 1274

DATE: 08/01/2012

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

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

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° 21' 35"

Longitude West 081.76902

Use Decimal Degrees: NAD83

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAP Hi 1274

DATE: 08/01/2012

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

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

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

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

2428168304

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

Reviewed by (Initials): _____

Site ID: PCAP HI 1274

DATE: 08/01/2012

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

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

PLOT COORDINATES

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

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

Location of coordinates (choose one):

Flag

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

Latitude North 41° 21' 30"

Longitude West 081.70905

Use Decimal Degrees: NAD83

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

7966623548