

CLEVELAND METROPARKS Plant Community Assessment Program: Quality Control Form



Project Label:

PCAP

Plot No: 1144

Date Sampled: 7/12/11

Lead: fysarbu

Comment required if item answer is NO

Parking/Access outside of Park Boundaries:	<input checked="" type="radio"/> Y <input type="radio"/> N	If yes, write details in Comments section below	
Field journals completed	<input checked="" type="radio"/> Y <input type="radio"/> N		
Site sketch made on 1:3000 map?	<input checked="" type="radio"/> Y <input type="radio"/> N		
Check cover page	X-axis Bearing of plot recorded	<input checked="" type="radio"/> Y <input type="radio"/> N	
	GPS coords Recorded	<input checked="" type="radio"/> Y <input type="radio"/> N	
	North direction recorded	<input checked="" type="radio"/> Y <input type="radio"/> N	
	Photographs taken?	<input checked="" type="radio"/> Y <input type="radio"/> N	
Plot No., Date agreement on all pages?	<input checked="" type="radio"/> Y <input type="radio"/> N		
Header data completed all pages?	<input checked="" type="radio"/> Y <input type="radio"/> N		
Cover classes recorded in all Intensive modules	<input checked="" type="radio"/> Y <input type="radio"/> N		
Browse Level By Species	<input checked="" type="radio"/> Y <input type="radio"/> N		
Woody stem quality control check	<input checked="" type="radio"/> Y <input type="radio"/> N		
Invasive plant quality control check	<input checked="" type="radio"/> Y <input type="radio"/> N		
Ash trees mapped	<input checked="" type="radio"/> Y <input type="radio"/> N		
Cover by Strata? (confirm cover type)	<input checked="" type="radio"/> Y <input type="radio"/> N		
Soil samples collected with matching plot #	<input checked="" type="radio"/> Y <input type="radio"/> N		
Vouchers labeled on datasheet with initials and number	<input checked="" type="radio"/> Y <input type="radio"/> N		
Vouchers labeled on collection bag	<input checked="" type="radio"/> Y <input type="radio"/> N		
Pink flags removed	<input checked="" type="radio"/> Y <input type="radio"/> N	Except back line not beos!	
Data sheet QA before leaving site?	<input checked="" type="radio"/> Y <input type="radio"/> N		
Common equipment returned to tub.	<input checked="" type="radio"/> Y <input type="radio"/> N		
Data sheets scanned?	<input checked="" type="radio"/> Y <input type="radio"/> N	7/15 Enter date to left	
Final data sheets scanned?	<input checked="" type="radio"/> Y <input type="radio"/> N	Enter date to left	
Buffer Widths measured?	<input checked="" type="radio"/> Y <input type="radio"/> N		
Web Soil Survey	<input checked="" type="radio"/> Y <input type="radio"/> N		
Voucher Location	Refrigerator	<input checked="" type="radio"/> Y <input type="radio"/> N	
(# vouchers collected)	Press (#)	<input checked="" type="radio"/> Y <input type="radio"/> N	Enter number to left
	Drier	<input checked="" type="radio"/> Y <input type="radio"/> N	
	Identified	<input checked="" type="radio"/> Y <input type="radio"/> N	
	Mounted	<input checked="" type="radio"/> Y <input type="radio"/> N	
	Thrown away	<input checked="" type="radio"/> Y <input type="radio"/> N	

GRTS point verification: Is plot sampleable?

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

Additional Comments:



CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Page 1 of 2

GENERAL INFORMATION		LOCATION	
Project Label: PCAP	State: OH County: Cuyahoga		
Project Name: <u>DISC 2011</u>	Quadrangle: Chagrin Falls		
Plot Name: <u>The String</u>			
Plot No.: <u>1144</u>			
<input type="checkbox"/> Level 4 (no nested corners sampled)			
<input checked="" type="checkbox"/> Level 5 (nested corners sampled)			
Date (mm/dd/yyyy): <u>7/12/2011</u>			
End date (if > 1 day): <u>/ /</u>			
Party			
Role**			
<u>S. Eysenbach</u> <input checked="" type="checkbox"/> Plot leader			
<u>J. Lantzman</u> <input checked="" type="checkbox"/> Plot ASST			
<u>M. Barth</u> <input checked="" type="checkbox"/> Salswood			
<u>J. Murphy</u>			
** Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc.			
PLOT NOT SAMPLED:			
<input type="checkbox"/> Other			
<input type="checkbox"/> Perm. water			
<input type="checkbox"/> Paved			
<input type="checkbox"/> Slope			
<input type="checkbox"/> Safety			
SAMPLING QUALITY*			
subjective evaluation of how much effort put into sampling. Hurned plots may still provide good data			
<input checked="" type="checkbox"/> Very thorough			
<input type="checkbox"/> Accurate			
<input type="checkbox"/> Hurned			
TAXONOMIC ACCURACY			
<input checked="" type="checkbox"/> high	<input type="checkbox"/> modera.	<input type="checkbox"/> low	<input type="checkbox"/> not samp
<input checked="" type="checkbox"/> vascul.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> n/a
<input type="checkbox"/> bryo	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> lichen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TAXONOMIC STANDARD			
Authority: G&C Pub Date: 1998			
<p>Minimum required fields in Bold and Underlined</p>			

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

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Project Label: PCAP

Project Name: 015C2011

Plot No: 1144

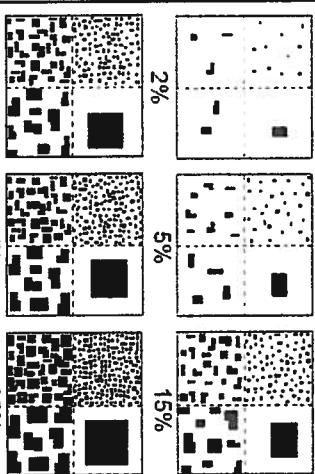
Metroparks

Page 2 of 2

CLASSIFICATION	STAND SIZE	DISTURBANCES			
		type*	severity**	yrs ago	% of plot
(FIT = excellent, good, fair, poor; CONF = high, med, low)	Fit and Confidence				
Hydrogeomorphic class (WETLANDS ONLY):					
□ DEPRESSION	Fit= <input type="checkbox"/> Conf= <input type="checkbox"/>	□ > 1,000 x plot size			
□ IMPOUNDMENT □ Beaver □ Human	Fit= <input type="checkbox"/> Conf= <input type="checkbox"/>	□ > 100 x plot size			
□ RIVERINE □ Headwater □ Mainstem □ Channel	Fit= <input type="checkbox"/> Conf= <input type="checkbox"/>	□ 10-100 x plot size			
□ SLOPE (ground water hydrology or on a physical slope)	Fit= <input type="checkbox"/> Conf= <input type="checkbox"/>	□ 3-10 x plot size			
□ FRINGING □ Reservoir □ Natural Lake	Fit= <input type="checkbox"/> Conf= <input type="checkbox"/>	□ 1-3 x plot size			
□ COASTAL (specify subclass)	Fit= <input type="checkbox"/> Conf= <input type="checkbox"/>	□ < plot size			
□ BOG (strongly, moderately, weekly ombrotrophic)	Fit= <input type="checkbox"/> Conf= <input type="checkbox"/>				
Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):					
□ FOREST □ swamp forest □ bog forest □ forest seep	Fit= <input type="checkbox"/> Conf= <input type="checkbox"/>				
□ EMERGENT □ marsh □ wet meadow □ open bog	Fit= <input type="checkbox"/> Conf= <input type="checkbox"/>				
□ SHRUB □ shrub swamp □ tall sh. bog □ tall sh. fen	Fit= <input type="checkbox"/> Conf= <input type="checkbox"/>				
MODIFIED NATURE RESERVE CLASS*					
CODE (on separate form): <input type="checkbox"/>	Fit= <input type="checkbox"/> Conf= <input type="checkbox"/>				
CODE (on separate form): <input type="checkbox"/>	Fit= <input type="checkbox"/> Conf= <input type="checkbox"/>				
HYDROLOGIC REGIME*					
□ Upland (n/a)	Fit= <input checked="" type="checkbox"/> Conf= <input type="checkbox"/>				
COMMUNITY NAME: <i>Beech Maple</i>					
but possibly just a mixed forest					
HOMOGENEITY					
Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)					
<p><input checked="" type="checkbox"/> Homogeneous</p> <p><input type="checkbox"/> Compositional trend across the plot</p> <p><input type="checkbox"/> Conspicuous inclusions</p> <p><input type="checkbox"/> Irregular/pattern mosaic</p>					
<p><i>Plot runs along a upland ravine slope. Very wet and mucky in certain mods. Interesting mix of trees - Beech-Maple with Lantana, cherry and unknown spp. Hard to classify. A lot of browse on the woody stems. Trees are mature at least 40 yrs</i></p>					

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.



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.

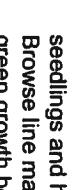
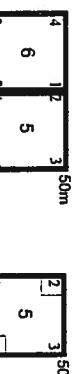
MEDIUM: browse affects greater than 10 percent and less than 25 percent of stems in the 1 m² nested quadrat and intensive module. A browse line is usually

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.



On baseline

0m baseline

1m baseline

2m baseline

3m baseline

4m baseline

5m baseline

6m baseline

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CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet

Page 2 of 3

Project Label: PCAP Project name: 015001 Plot no.: 1144

Total modules: 10 Intensive modules: 4 Plot configuration: 2x5

Visual est. % open water entire site: _____ Visual est. %unveg. o.w. entire site: _____

Visual est. %unveg. litter (bare litter) entire site: _____ Visual est. %invasives entire site: _____



Cleveland
Metroparks

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

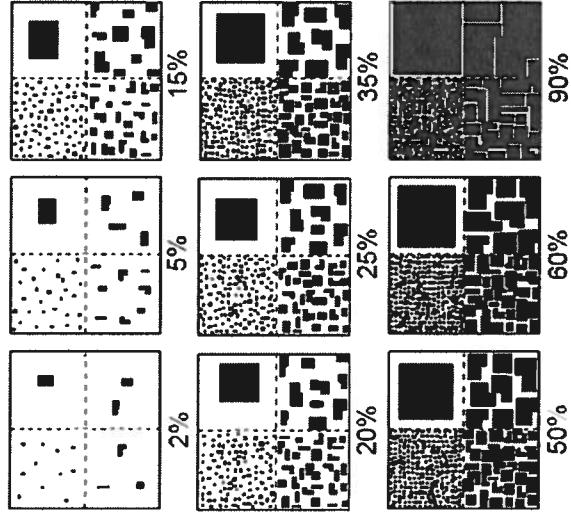
Estimate for the each				mod	corner																		
Intensive module:				depth	cov																		
%unvegetated open water				1		1		1		1		1		1		1		1		1		1	
%unveg. ground (bare soil)				1		1		1		1		1		1		1		1		1		1	
%unveg. litter (bare litter)				1		1		1		1		1		1		1		1		1		1	

Strata - Cov. entire plot

T	S	H	(F)	(A)	Br	Species	C	Voucher #	depth	cov												
4	2					<i>Fraxinus</i> seedlings		3	1	3	2	3	2	3	2	3	2	3	2	3	2	3
4	2					<i>Ostrya virginiana</i>		2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
2						<i>Salvinia</i> fernatum		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2						<i>Impatiens capensis</i>		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2						<i>Anisomeles triphyllum</i>		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2						<i>Acorus</i> seedlings		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2						<i>Carex hirtifolia</i>		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2						<i>Poa</i> <i>alsodes</i>		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1						<i>Carox</i> sp.		2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
1						<i>Rhus</i> <i>latifolia</i>		2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
1						<i>Symplocarpus</i> <i>foetidissimus</i>		2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
1						<i>Brachyelytrum</i> <i>erectum</i>		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1						<i>Cardamine</i> <i>diphylla</i>		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1						<i>Carex</i> <i>gracillima</i>		1	1	2	1	2	1	2	1	2	1	2	1	2	1	2
1						<i>Franseria</i> <i>alnus</i>		1	1	2	1	2	1	2	1	2	1	2	1	2	1	2
1						<i>Cornus</i> <i>florida</i>		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1						<i>Solidago</i> <i>flexicaulis</i>		2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
1						<i>Urtica</i>		4	3	4	3	4	3	4	3	4	3	4	3	4	3	4
1						<i>Corynium</i> <i>maculatum</i>		2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
3						<i>Agave</i> sp?		2	5	2	5	2	5	2	5	2	5	2	5	2	5	2
1						<i>Fragaria</i> <i>anacantha</i>		2	3	2	3	2	3	2	3	2	3	2	3	2	3	2
1						<i>Ulmus</i> <i>glabra</i>		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1						<i>Alliaria</i> <i>petiolata</i>		1	1	2	2	2	2	2	2	2	2	2	2	2	2	2
1						<i>Aster</i> <i>albus</i>		2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
1						<i>Saxifrage</i> <i>seodling</i>		2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
1						<i>Erythronium</i> <i>hircinum</i>		2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
1						<i>Platanthera</i> <i>canadense</i>		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

EXAMPLES OF PERCENT OF AREA COVERED

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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.

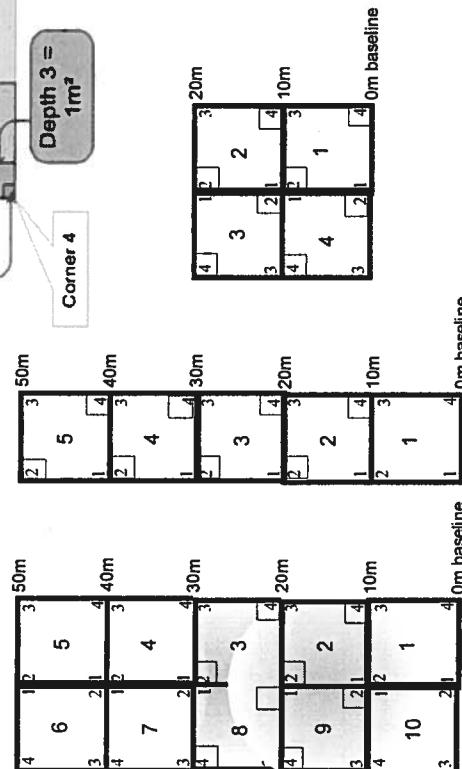
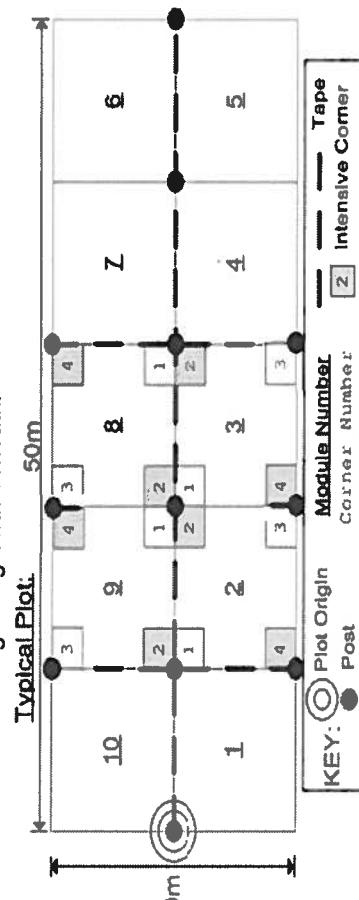
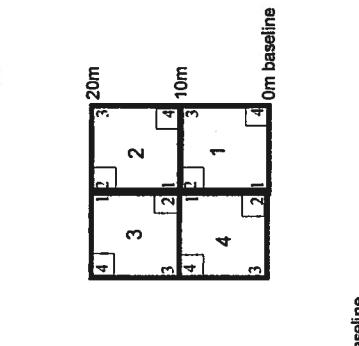
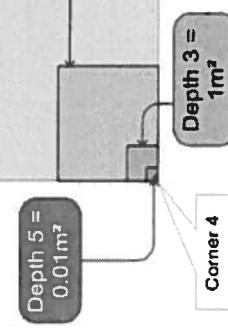
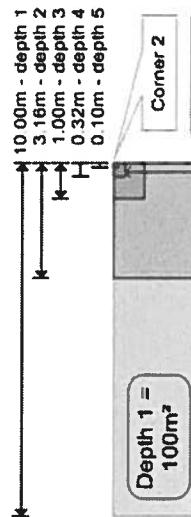
MEDIUM LOW values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse areas.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

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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.



0m baseline

0m baseline

0m baseline

0m baseline

CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet

Project Label

PCAP

1

Project name: DISC 2013

Plot no.: 145

Total modules: 10

Intensive modules: 4 Plot configuration: 2x5

Plot area (ha): 0.1

Visual est. % Open

water entire site.

st. %u00d6v.g.o.w. entire site.

Visual est. % invasives entire site

**Cleveland
Metroparks**

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

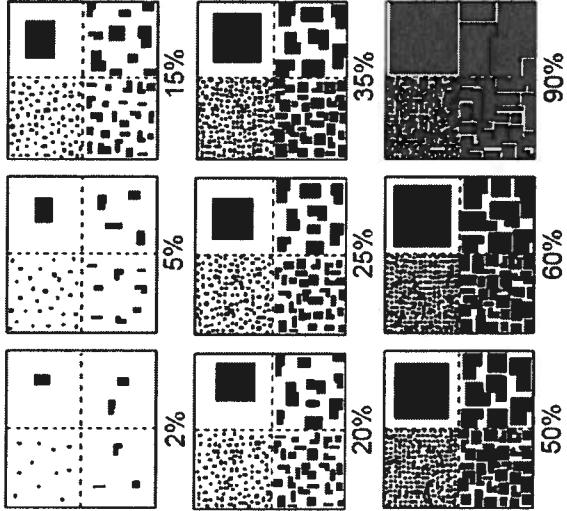
Strata - Cov. entire plot					
T	S	H	(F)	(A)	B
7-6					
1					

Species
<i>Acer rubrum</i> 350

DNA is
spliced
back
into
one
long
mRNA

EXAMPLES OF PERCENT OF AREA COVERED

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



BROWSE RATING NARRATIVE DESCRIPTION

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

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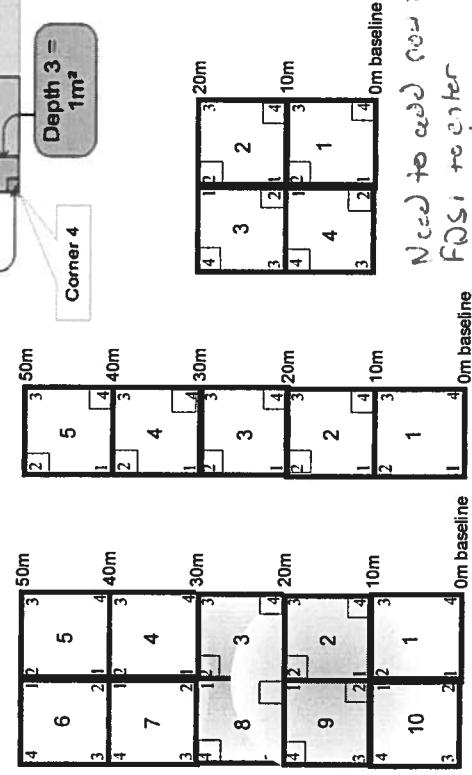
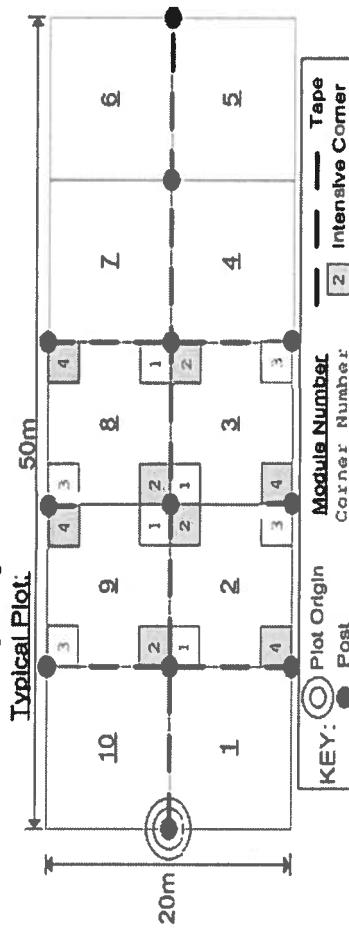
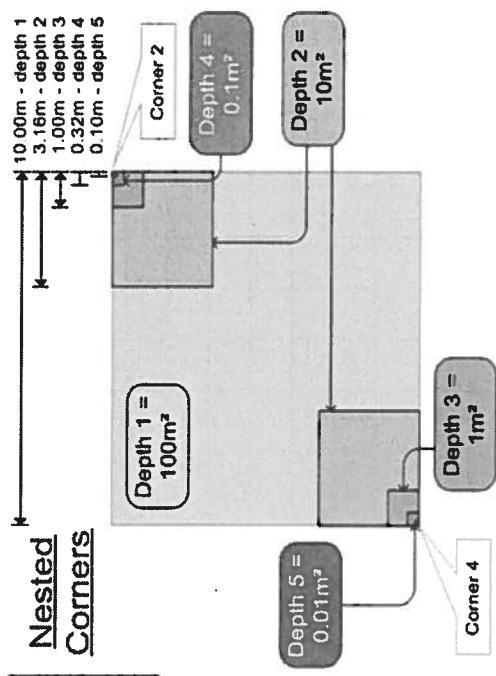
browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse areas. For example, trilliums may flower and fruit, but jewelweed and arrowwood viburnum exhibit browse.

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 of plants.

cover class	% cover	midpoint
1	solitary or few	0.0001
2	0-1%	0.005
3	1-2%	0.015
4	2-5%	0.035
5	5-10%	0.075
6	10-25%	0.175
7	25-50%	0.375
8	50-75%	0.625
9	75-95%	0.850
10	95-100%	0.975



CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: D\SC\ZOL

Plot No.: 1144

Page: 1 of 2

 Cleveland Metroparks

Explain subsample (additional room on back):

mod #	species	c	voucher#	# stems 0.5-1m browsed	% sub sample	# shrub clumps	size class (cm) woody stems >1m										# (record each tree)
							1 0-<1	2 1-<2.5	3 2.5-<5	4 5-<10	5 10.-<15	6 15.-<20	7 20.-<25	8 25.-<30	9 30.-<35	10 35.-<40	
1	<i>Acer rubrum</i>																
1	<i>Acer saccharinum</i>																
-	<i>Betula Borealis</i> Lintz. see ^{F3811} SUE 445																
-	1 Standing dead																
-	<i>Platanus occidentalis</i>																
-	<i>Carya ovata</i>																
-	<i>Crataegus</i> sp																
-	<i>Liquidambar</i> beddoei																
-	<i>Zelkova serrata</i>																
-	<i>Crataegus</i> sp																
-	2 Standing dead																
-	<i>Corprisus Virginicus</i>																
-	<i>Liquidambar</i> volubile																
-	2 <i>Ficus grandifolia</i>																
-	<i>Carya ovata</i>																
-	<i>Lindera benzoin</i>																
-	<i>Fagus grandifolia</i>																
-	3 <i>Styrax</i> Dead																
-	<i>Carpinus caroliniana</i>																
-	<i>Corpus Florida</i>																
-	<i>Hemlock</i> v. <i>gigantea</i>																
-	<i>Carya ovata</i>																
-	<i>Acer saccharum</i>																

ASIAN CANCER BREAKDOWN CONDITION FOR DEAD TEES:

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

rank as described below)

4



1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as maple.

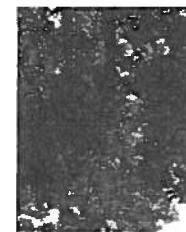
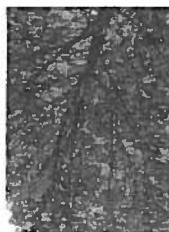
12. Thinning canopy: There aren't as many leaves as there ought to be, but all top branches exposed to sunlight have leaves.

13. Diseback: Canopy is thinning and some top branches exposed to sunlight are dead (have no leaves). Lower branches exposed to sunlight and some not diseased.

14. >50% Diseback: The canopy has less than half of the leaves that should be there and/or half of the top branches are dead.

15. Dead canopy: No leaves remain in the canopy portion of the tree. It still counts as 5 even if there are epicormic sprouts below the canopy (lowest branch) on the trunk.

ASH CANOPY CONDITION



	
<p>Record using the tally system from 1 to 10</p>	<p>Record the number of stems/plants between 0.5-1.0 meters tall that exhibit evidence of this year's deer browse.</p>
<p>Woody Stem Deer Browse</p>	

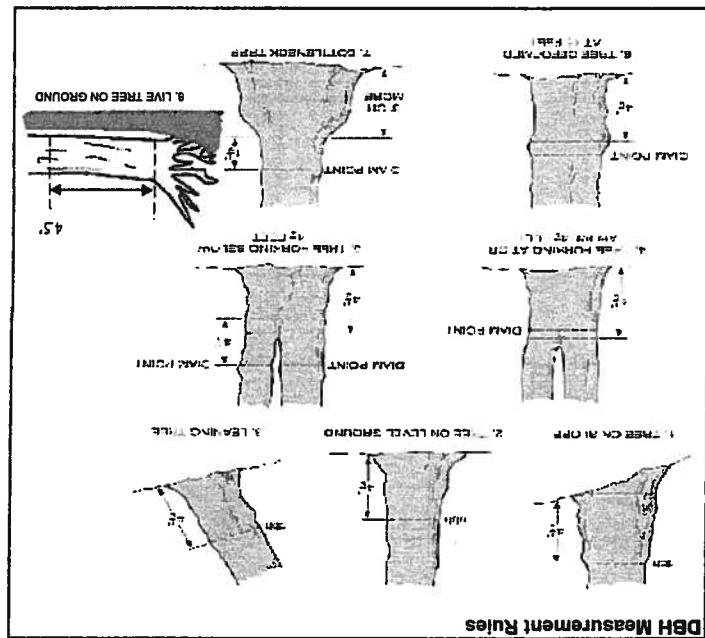


01

Record using the tally system from 1 to 10

Records the number of stems/plants between 0.5-1.0 metres tall that exhibit evidence of this year's deer browse.

Measurement Rules



CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAPProject Name: Q\SC2011Plot No.: 1144Page: 2 of 3

Cleveland Metroparks

Explain subsample (additional room on back):

mod #	species	c	voucher#	# stems 0.5-1m browsed	% sub sample	# shrub clumps	size class (cm) woody stems > 1m										10 >40 (record each tree)
							1 0-1	2 1-2.5	3 2.5-5	4 5-10	5 10-15	6 15-20	7 20-25	8 25-30	9 30-35	10 35-40	
- 3	<i>Ostrya virginiana</i>						4	4	4	4	4	4	4	4	4	4	
- 3	<i>Lobelia peruviana</i>						50%	12	12	12	12	12	12	12	12	12	
- 4	<i>Acer Saccharum</i>						2	2	2	2	2	2	2	2	2	2	
- 4	<i>Bonasus serotina</i>						2	2	2	2	2	2	2	2	2	2	
- 4	<i>Carpinus caroliniana</i>						2	2	2	2	2	2	2	2	2	2	
- 4	<i>Salix nigra</i>						2	2	2	2	2	2	2	2	2	2	
- 4	<i>Ostrya virginiana</i>						2	2	2	2	2	2	2	2	2	2	
- 5	<i>Acer saccharinum</i>						12	12	12	12	12	12	12	12	12	12	
- 6	<i>Standleya scandens</i>						2	2	2	2	2	2	2	2	2	2	
- 6	<i>Acer saccharinum</i>						2	2	2	2	2	2	2	2	2	2	
- 6	<i>Fraxinus americana</i>						2	2	2	2	2	2	2	2	2	2	
- 6	<i>Fraxinus americana</i>						2	2	2	2	2	2	2	2	2	2	
- 6	<i>Prunus pensylvanica</i>						2	2	2	2	2	2	2	2	2	2	
- 6	<i>Populus tremuloides</i>						2	2	2	2	2	2	2	2	2	2	
- 6	<i>Leptandra floridana</i>						2	2	2	2	2	2	2	2	2	2	
- 7	<i>Fagus grandifolia</i>						2	2	2	2	2	2	2	2	2	2	
- 7	<i>Hypericum Bistabile</i> ^{SEE SIRE 445}						2	2	2	2	2	2	2	2	2	2	
- 7	<i>Acer saccharinum</i>						2	2	2	2	2	2	2	2	2	2	
- 7	<i>Prunus pensylvanica</i>						2	2	2	2	2	2	2	2	2	2	
- 7	<i>Acer rubrum</i>						2	2	2	2	2	2	2	2	2	2	
- 8	<i>Salix nigra</i>						2	2	2	2	2	2	2	2	2	2	
- 8	<i>Acer saccharinum</i>						2	2	2	2	2	2	2	2	2	2	
- 8	<i>Fraxinus americana</i>						2	2	2	2	2	2	2	2	2	2	
- 8	<i>Fraxinus americana</i>						2	2	2	2	2	2	2	2	2	2	
- 8	<i>Carpinus caroliniana</i>						2	2	2	2	2	2	2	2	2	2	
- 8	<i>Acer rubrum</i>						2	2	2	2	2	2	2	2	2	2	

ASH CANOPY BREAKUP CONDITION (for dead trees): (if an ash receives a score of 5 (dead) under canopy condition it must also receive a breakup condition

68



1. **Herbivory, full canopy:** A healthy ash canopy is normally thinner than many other trees such as maple.

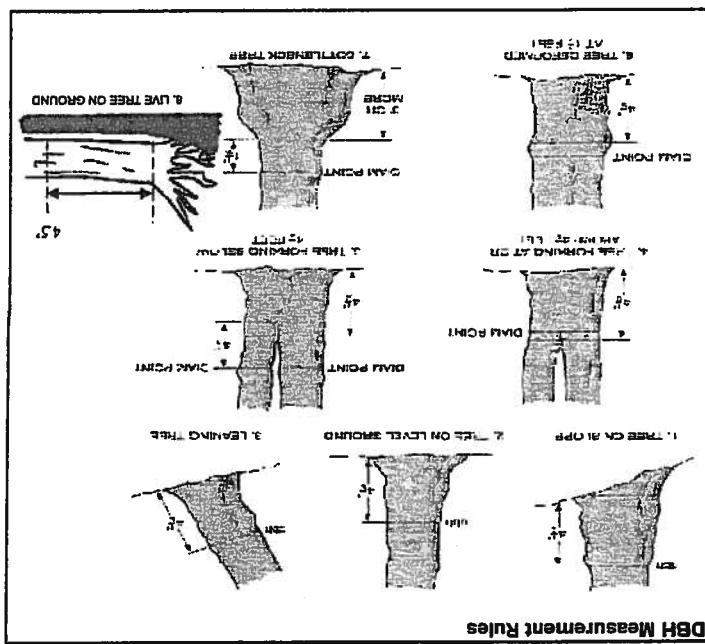
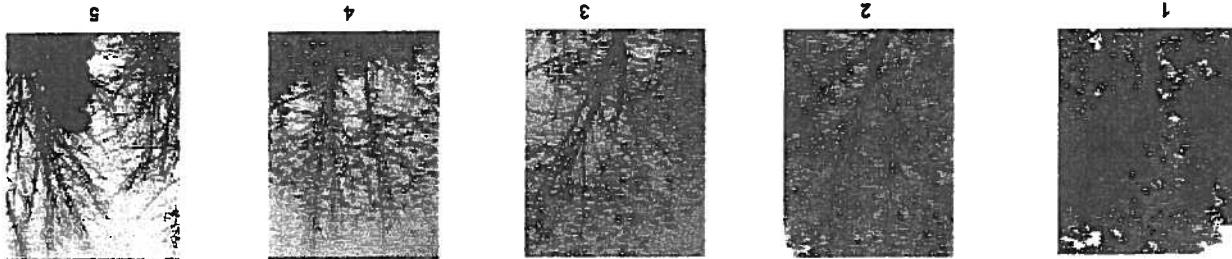
2. **Thinning canopy:** There aren't as many leaves as there ought to be, but all top branches exposed to sunlight have leaves.

3. **Dieback:** Canopy is thinning and some top branches exposed to sunlight are dead (have no leaves). Lower branches, not exposed to sunlight, die naturally and are not considered.

4. **>50% Dieback:** The canopy has less than half of the leaves that should be there and/or half of the top branches are dead.

5. **Dead canopy:** No leaves remain in the canopy portion of the tree. It still counts as a 5 even if there are epicormic sprouts below the canopy (lowest branch) on the trunk.

ASH CANOPY CONDITION



Record using the tally system from 1 to 10

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

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAPProject Name: 015C2011Plot No.: 1144Page: 3 of 3

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Explain subsample (additional room on back):

mod #	species	c	voucher#	# stems 0.5-1m browsed	% sub sample	# shrub clumps	size class (cm) woody stems >1m	1	2	3	4	5	6	7	8	9	10	11
- 8	Ulmus tree <i>Betula lutea</i> sp SRE 445 (251)																	
- 8	<i>Ostrya virginiana</i>																	
- 8	<i>Ulmus americana</i>																	
- 9	<i>Fagus grandifolia</i>																	
- 9	<i>Coronis cornifolia</i>																	
- 9	Standing dead																	
- 9	<i>Tilia americana</i>																	
- 9	<i>Citrus aurantium</i> sp																	
- 9	<i>Acer saccharum</i>																	
- 9	<i>Acer rubrum</i>																	
- 9	<i>Lindera benzoin</i>																	
- 10	<i>Acer saccharinum</i>																	
- 10	<i>Acer rubrum</i>																	
- 10	<i>Craibiodus sp.</i>																	
- 16	<i>Prunus pensylvanica</i>																	
- 10	Standing dead																	
- 10	<i>Acer platanoides</i>																	
- 10	<i>Fagus grandifolia</i>																	
- 10	<i>Ulmus americana</i>																	

Tier 1: Early detection/Rapid response		Presence				GPS
		NE	SE	SW	NW	
<i>Microstegium vimineum</i>	Japanese stiltgrass					
<i>Ranunculus ficaria</i>	Lesser Celandine					
<i>Cynanchum louiseae</i> (vine)	Black Swallow-wort					
<i>Butomus umbellatus</i> (wetland)	Flowering Rush					
<i>Heracleum mantegazzianum</i>	Giant Hogweed					
Tier 2: Assess as Needed		# of Plants			comments	
		NE	SE	SW	NW	
<i>Acer platanoides</i>	Norway Maple				1	
<i>Ailanthus altissima</i>	Tree of Heaven					
<i>Lonicera japonica</i> (vine)	Japanese Honeysuckle					
<i>Lythrum salicaria</i> (wetland)	Purple Loosestrife					
<i>Aegopodium podagraria</i> (G-cover)	Bishop's Goutweed					
<i>Celastrus orbiculatus</i> (vine)	Asian Bittersweet			1	1	
Torilis sp.	Hedgeparsley					
<i>Conium maculatum</i>	Poison Hemlock					
<i>Rhamnus cathartica</i>	Common Buckthorn (shrub)					
<i>Berberis thunbergii</i>	Japanese Barberry (shrub)	1	1	1	3	
<i>Alnus glutinosa</i>	European Alder					
<i>Dipsacus laciniatus</i>	Cut-leaf Teasel					
<i>Elaeagnus umbellata</i>	Autumn Olive (shrub)					
<i>Lonicera maackii</i>	Amur Honeysuckle (shrub)					
<i>Euonymus fortunei</i>	Wintercreeper					
Tier 3: Presence is of Interest		# of Plants			comments	
		NE	SE	SW	NW	
<i>Convallaria majalis</i> (G-cover)	Lily of the Valley					
<i>Coronilla varia</i> (G-cover)	Crown Vetch					
<i>Eleutherococcus pentaphyllus</i>	Five-leaf Aralia (shrub)					
<i>Pachysandra terminalis</i> (G-cover)	Japanese Pachysandra					
<i>Philadelphus coronarius</i>	Mock Orange (shrub)					
<i>Pulmonaria officinalis</i> (G-cover)	Lungwort					
<i>Rubus phoenicolasius</i>	Wineberry					
<i>Iris pseudacorus</i> (wetland)	Yellow Flag Iris					
<i>Ornithogalum umbellatum</i>	Star of Bethlehem					
<i>Viburnum opulus</i> var. <i>opulus</i>	European Cranberry (shrub)	1				
<i>Viburnum plicatum</i>	Doublefile Viburnum (shrub)					
Tier 4: Widespread and abundant		Presence			comments	
		NE	SE	SW	NW	
<i>Alliaria petiolata</i>	Garlic Mustard	X	X	X		
<i>Ligustrum vulgare</i>	Common Privet (shrub)			X	X	
<i>L. morrowii</i> , <i>L. tatarica</i>	Bush Honeysuckles (shrub)					
<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)				X	
<i>Rosa multiflora</i>	Multiflora Rose (shrub)		X			
<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	X		X		
<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)

Presence

X: yes

of Plants

1:	1-10
2:	11-50
3:	51-100
4:	101-1,000
5:	>1,000

of Plants

1:	1-10
2:	11-50
3:	51-100
4:	101-1,000
5:	>1,000

Presence

X: yes

CLEVELAND METROPARKS Emerald Ash Borer - *Fraxinus* Sheet

Project Label: PCAP

INTENSIVE MODULES ONLY

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

Project Name: 015C201

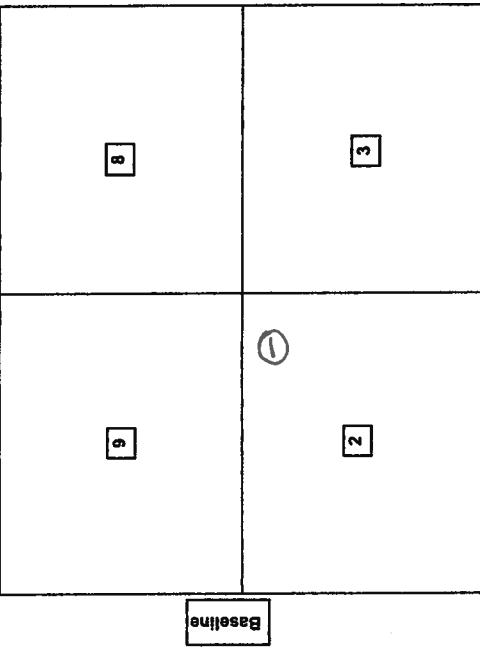
Plot No.: 1144

Date: 7/12/2011

Page: 1 of 2

ASH Only									
Tree Module ID.	Species	Pass	Pass	Voucher #	DBH (cm)	H @ DBH	Ash condition	Dead condition	Woodpecker holes
2 1	Fraxinus americana				242	3		YES	No
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
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19									
20									
21									
22									
23									
24									
25									

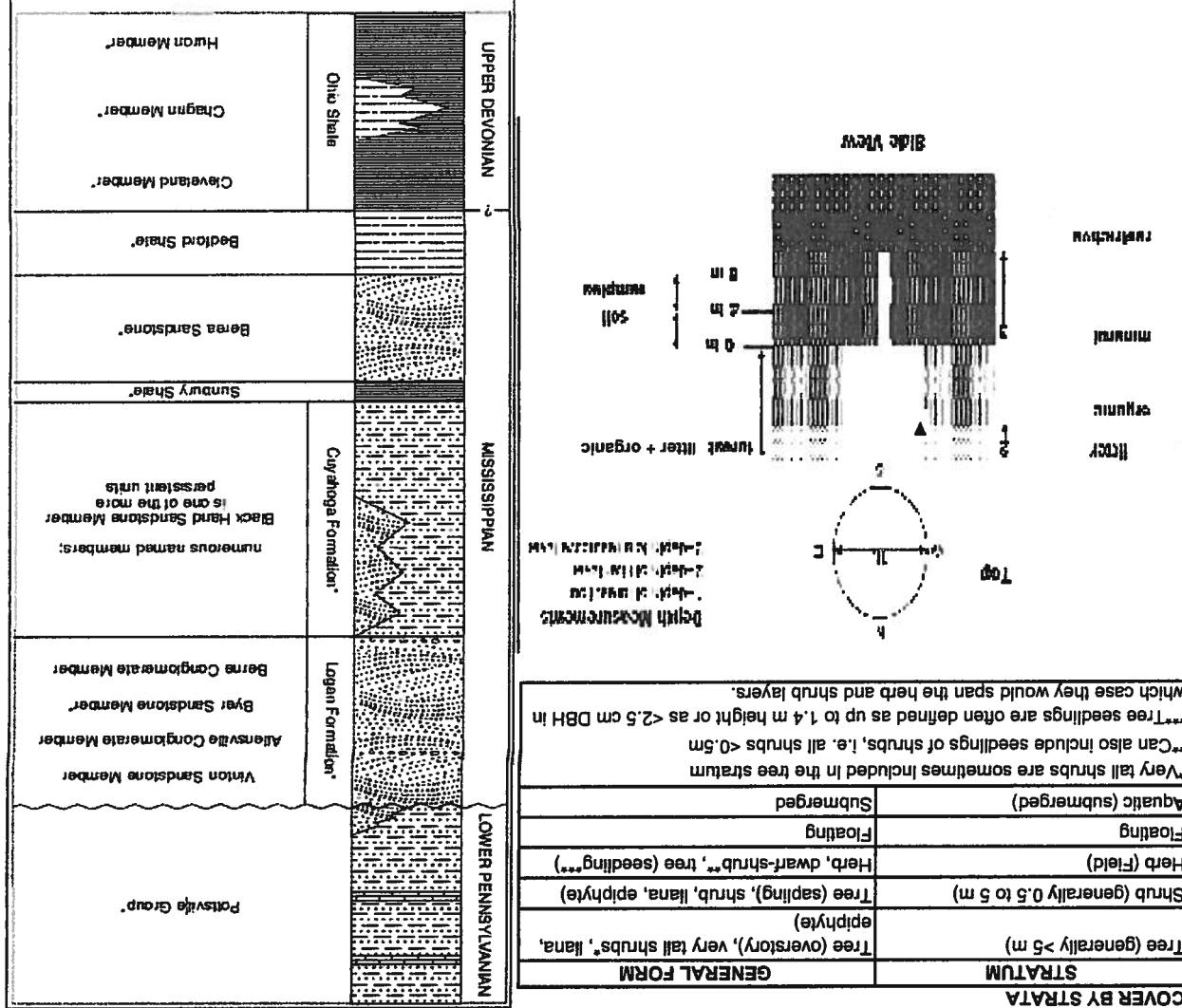
*** Change intensive module numbers when necessary

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 $1.25\text{m}^2 \times 21.5\text{m}$
- Woodpecker and epicormic marked present (1) or absent (0)

Cojed not enter values for DBH & Epicormic present
 - Excel sheet edited not allow values to be entered - M3 t/r

FIGURE 3-B.—Geological section of Upper Devonian limestone, Lower Mississippian, and Lower Pennsylvanian, showing the thickness of the limestone and the thickness of the dolomitic dolomite.



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



Project label: PCAP Project Name: 11/15/2011

Plot No.: 114/1

Page: 1 of 1

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

Soil pit module # 8 (one per entire plot)

5 cm	matrix color	10 YR 2/2
	mottle color	—
	%mottle	—
	oxid roots	Y (N)
	texture*	1
	redox features**	Y (N)
	hydr. cond. ***	I S (M) D
20 cm	matrix color	10 YR 3/4
	mottle color	—
	%mottle	—
	oxid roots	Y (N)
	texture*	3
	redox features**	Y (N)
	hydr. cond. ***	I S (M) D

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

Soil Description/notes:

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

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

Module #	C?	Corner	Corner

Web Soil Survey Information:	
Soil Series/Type:	Geauga-Mentor Silt loam
Soil Series Source:	Ohio Soil Survey
Landform type:	Terрасы
Parent Material:	Lacustrine deposits

DRAINAGE*

Parent Material:

Lacustrine

deposits

Landform type:

Terрасы

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAP SC 1144

DATE: 07/12/2011

Location:	Fill in bubble(s) if plot(s) could not be sampled and flag →										
<input checked="" type="radio"/> AA Center	<input type="radio"/> N	<input type="radio"/> S	<input type="radio"/> E	<input type="radio"/> W	<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 checked="" type="radio"/> D <input type="radio"/> E		Absent: <input type="radio"/> 0	Buffer Plot 2	Canopy Type: <input type="radio"/> D <input checked="" type="radio"/> E		Absent: <input type="radio"/> 0	Buffer Plot 3	Canopy Type: <input type="radio"/> C <input checked="" type="radio"/> D		Absent: <input type="radio"/> 0				
	Leaf Type: <input type="radio"/> B <input checked="" type="radio"/> N	Flag			Leaf Type: <input type="radio"/> B <input checked="" type="radio"/> N	Flag			Leaf Type: <input type="radio"/> B <input checked="" type="radio"/> N	Flag					
Big Trees (>0.3m DBH)	<input type="radio"/> 0	<input type="radio"/> 1	<input checked="" type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input checked="" type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input checked="" 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 checked="" type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 0	<input type="radio"/> 1	<input checked="" type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<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	<input type="radio"/> 0	<input type="radio"/> 1	<input checked="" type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 0	<input type="radio"/> 1	<input checked="" type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4
Woody Shrubs, Saplings (<0.5m HIGH)	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input checked="" type="radio"/> 3	<input type="radio"/> 4	<input 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 checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 0	<input 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	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4
Litter, duff	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input checked="" type="radio"/> 4	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4
Rock	<input checked="" type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input 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	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input 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	<input type="radio"/> 0	<input type="radio"/> 1	<input checked="" type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4

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

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

Industrial Development Stressors				Habitat/Vegetation Stressors										
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag
Oil Drilling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Forest Clear Cut	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Herbicide Use	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Gas Wells	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Forest Selective Cut	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Mowing/Shrub Cutting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mine (surface)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Tree Plantation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Trails	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mine (underground)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Tree Canopy Herbivory (INSECT)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Soil Compaction (ANIMAL OR HUMAN)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Military	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Shrub Layer Browsed (WILD OR DOMESTIC)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Offroad vehicle damage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Highly Grazed Grasses (OVERALL <5" HIGH)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Soil erosion (FROM WIND, WATER OR OVERUSE)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Recently Burned Forest Canopy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Recently Burned Grassland (BLACKENED)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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

2428168304

Flag	Comments																																																
Latitude North 41 • 43 9 5 2 Longitude West 81 • 40 1 4 1 																																																	
Use Decimal Degrees; NAD83																																																	
Location of coordinates (choose one): <input checked="" type="radio"/> AA CENTER <input type="radio"/> N3 <input type="radio"/> S3 <input type="radio"/> E3 <input type="radio"/> W3 <input type="radio"/> Nearest practicable location (flag and comment below)																																																	
Flag																																																	
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.																																																	
PLOT COORDINATES																																																	
Eurasian Watermilfoil	<input type="radio"/>	Purple Loosestrife	<input type="radio"/>	Johnson Grass	<input type="radio"/>	Kudzu	<input type="radio"/>	Mulitiflora Rose	<input type="radio"/>	Common Buckthorn	<input type="radio"/>	Chenopodium	<input type="radio"/>	Yellow Knobweed	<input type="radio"/>	Giant Reed	<input type="radio"/>	Japanese Knotweed	<input type="radio"/>	Perennial Pepperweed	<input type="radio"/>	Giant Svalinaria	<input type="radio"/>	Garlic Mustard	<input type="radio"/>	Poison Hemlock	<input type="radio"/>	Mile-A-Minute Weed	<input type="radio"/>	Birdsfoot Trefoil	<input type="radio"/>	Reed Canary Grass	<input type="radio"/>	Other	<input type="radio"/>	Common Reed	<input type="radio"/>	Leaky Spurge	<input type="radio"/>	Other	<input type="radio"/>	Canadian Thistle	<input type="radio"/>	Other	<input type="radio"/>	Latitude North	<input type="radio"/>	Longitude West	<input type="radio"/>
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																																																	
• Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble																																																	
Site ID: PCP SC 1144 DATE: 07/12/2011																																																	
FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back) Retrieved by (initials): _____																																																	

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAP 1144 SC

DATE: 07/12/2011

Location:

○ AA Center ○ N ○ S ○ E ○ W

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

○ Plot 1 ○ Plot 2 ○ Plot 3

1

Buffer Natural Cover Strata

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

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

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

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

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

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

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

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

2428168304

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial): _____

Site ID: PCAP SC 1144

DATE: 0 7 / 1 2 / 2 0 1 1

Location:

O AA Center O N O S O E O W

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

O Plot 1 O Plot 2 O Plot 3

/

Buffer Natural Cover Strata

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

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

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

PLOT COORDINATES											
Comments											
Flag	Use Decimal Degrees; NAD83										
Latitude North 41.43943 Longitude West 81.40243											
Location of coordinates (choose one):											
2	AA CENTER <input type="radio"/> N3 <input type="radio"/> S3 <input type="radio"/> E3 <input type="radio"/> W3 <input checked="" type="radio"/> Nearest practicable location (flag and comment below)										
Flag											
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.											
PLOTS are centred on the Buffer Transects and the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" bubble. Fill in the 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 last accessible Buffer Plot.											
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 centred on the Buffer Transects and the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" bubble. Fill in the 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 last accessible Buffer Plot.											
PLOT COORDINATES											
Eurasian Wallmilloi	<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 Svalinia	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Pennant Pepperweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Common Buckthorn	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Garlic Mustard	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Giant Reed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Himalayan Blackberry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Poison Hemlock	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Chenopodium	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Tamask	<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"/>	Leaffy Spurge	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
③ Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble											
Fill bubble if present - Plot 1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Flag	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Fill bubble if present - Plot 1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
④ Formatted data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble											
Site ID: 400 SC 1144 DATE: 07/12/2011											
Reviewed by (initials): _____											
FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)											

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID:

PCAP 1144 SC

DATE: 07/12/2011

Location:

AA Center N S E W

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

Plot 1 Plot 2 Plot 3

Buffer Natural Cover Strata

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

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

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

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

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

1 Beating trail running up the ridge from a tributary of the Chagrin R.

Flag Comments

Use Decimal Degrees; NAD83

Latitude North 41.439466 Longitude West 81.34984

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

Flag

Location of coordinates (choose one):

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.

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.

LOT COORDINATES

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"/>	Muliflora Rose	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Giant Salvinia	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Premnaia 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"/>
Potion Hemlock	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Chenopodium	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Tamansk	<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"/>

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

Site ID: _____ DATE: _____

Reviewed by (initials): _____

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

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial): _____

Site ID: PCAP SC 1144

DATE: 07/12/2011

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

Buffer Natural Cover Strata

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

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

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

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

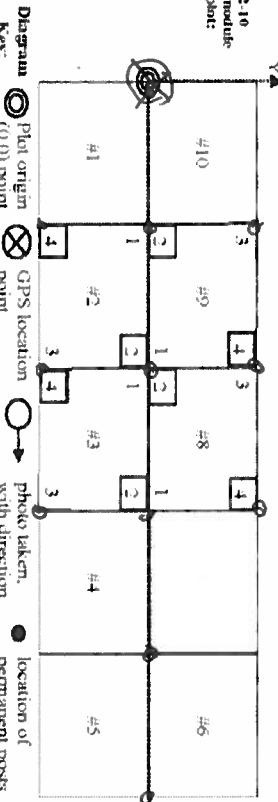
Industrial Development Stressors				Habitat/Vegetation Stressors											
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	
Oil Drilling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Forest Clear Cut	<input 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 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 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

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.											
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 Buffer Transects were taken and why in the comment section below. The coordinates of the nearest practicable location can be either placed to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot.											
Location of coordinates (choose one):											
<input type="checkbox"/> AA CENTER <input type="checkbox"/> N3 <input type="checkbox"/> S3 <input type="checkbox"/> E3 <input type="checkbox"/> W3 <input type="checkbox"/> Nearest practicable location (flag and comment below)											
Latitude: North 41 Longitude: West 061 46 10.8 Use Decimal Degrees; NAD83											
Flag											
Comments											
Buffer Sample Points - Targeted Alien Species 05/27/2011											
Eurasian Watermilfoil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Purple Loosestrife	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Flag	Fill bubble if present - Plot 1	2	3
Water Hyacinth	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Knotweed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Kudzu	<input type="checkbox"/>	0	0
Yellow Floating Heart	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Japanese Knotweed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Muliflora Rose	<input type="checkbox"/>	0	0
Giant Salvinia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Perennital Pepperweed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Common Buckthorn	<input type="checkbox"/>	0	0
Garlic Mustard	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Giant Reed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Himalayan Blackberry	<input type="checkbox"/>	0	0
Poison Hemlock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Chenopodium	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tamnisk	<input type="checkbox"/>	0	0
Mile-A-Minute Weed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Reed Canary Grass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	0	0
Birdsfoot Trefoil	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Common Reed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	0	0
Canada Thistle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Leaffy Spurge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	0	0
● Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence; by filling in this bubble											
Site ID: _____ / _____ / _____ / _____ / _____ DATE: _____											
Reviewed by (initials): _____											
FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)											

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

GENERAL INFORMATION		LOCATION																
<u>Project Label:</u>	PCAP																	
<u>Project Name:</u>	015C & 016																	
<u>Plot Name:</u>	Plot No.: 1144																	
		<input type="checkbox"/> Level 4 (no nested corners sampled)																
		<input checked="" type="checkbox"/> Level 5 (nested corners sampled)																
<u>Date (mm/dd/yyyy):</u>	/ / /																	
<u>End date (if > 1 day):</u>	/ / /																	
<u>Party</u>	<u>Role**</u>																	
Plot leader																		
** Roles: Co-leader, Ass't. Guide, Owner, Taxonomist, etc.																		
PLOT NOT SAMPLED:																		
<input type="checkbox"/> Pemi. water <input type="checkbox"/> Paved <input type="checkbox"/> Slope <input type="checkbox"/> Safety																		
SAMPLING QUALITY*																		
subjective evaluation of how much effort put into sampling. Hurnried plots may still provide good data																		
TAXONOMIC ACCURACY																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; text-align: center;">high</td> <td style="width: 25%; text-align: center;">modera.</td> <td style="width: 25%; text-align: center;">low</td> <td style="width: 25%; text-align: center;">not samp</td> </tr> <tr> <td>vascul.</td> <td></td> <td></td> <td>n/a</td> </tr> <tr> <td>bryo</td> <td></td> <td></td> <td></td> </tr> <tr> <td>lichen</td> <td></td> <td></td> <td></td> </tr> </table>			high	modera.	low	not samp	vascul.			n/a	bryo				lichen			
high	modera.	low	not samp															
vascul.			n/a															
bryo																		
lichen																		
LOCATION <input type="checkbox"/> Landowner: CM <input type="checkbox"/> X-axis Bearing of plot: [145] ° <input type="checkbox"/> Data Confidentiality: <input type="checkbox"/> Check one: <input type="checkbox"/> Public data <input type="checkbox"/> Private Data <input type="checkbox"/> Fuzz 100m <input type="checkbox"/> Fuzz 250m <input type="checkbox"/> Fuzz 500m																		
Reason: If data not public why? <input type="checkbox"/> Source of coordinates <input type="checkbox"/> MAP <input checked="" type="checkbox"/> GPS GPS location in plot x=0 to 5, y=-1.0,+1): x = <input type="checkbox"/> 0 y = <input type="checkbox"/> 0 (base of plot x=0, y=0)																		
Coordinate system: <u>Lat/Long</u> <input type="checkbox"/> UTM <input type="checkbox"/> StatePlane <u>Coord. Units</u> <input checked="" type="checkbox"/> deg <input type="checkbox"/> deg min <input type="checkbox"/> Other (specify) <input checked="" type="checkbox"/> m <input type="checkbox"/> ft <input type="checkbox"/>																		
Datum: <input checked="" type="checkbox"/> NAD83/WGS84 <input type="checkbox"/> NAD27 Latitude: 41.43919 Longitude: -81.4045																		
GPS File Name: 1144A Plot size for cover data: <input type="checkbox"/> 0.1 (hectares) <input type="checkbox"/> Stems not sampled on this plot <input type="checkbox"/> Stems absent																		
Plot placement: <input type="checkbox"/> Representative <input type="checkbox"/> GRTS <input type="checkbox"/> Random <input type="checkbox"/> Stratified Random <input type="checkbox"/> Transect component <input type="checkbox"/> Systematic (grid) <input type="checkbox"/> Capture specific feature <input type="checkbox"/> Other																		
NOTES: Include Layout (any unusual shape details), Location (directions and landscape content), Rationale (why here), and Veg Characterization (description of community, dominants, strata, BROWSE). Additional notes in space on back.																		
Layout: 2 x 5 																		
Plot description: Plot at Chargin Rd parking lot out of the intersection of Chargin-River Rd and Chargin Rd. Walk along road and take sidewalk over the bridge. Head northeast to plot. (Map indicates a trail but it is not marked) Plot is up from small stream near a CM boundary marker. <p>Rationale: GRTS pt fall near CM Boundary. We could not go North since it was not CM property. There was a white pine stand to west/south near that was not where the GRTS pt fall</p>																		
Photo Notes: Stream and rubs south east up the swale. Plot is up from small <p style="text-align: right;">OVER</p>																		

Minimum required fields in Bold and Underlined

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

Park at Chargin Rd. parking area (North side of Chargin Rd)
See map. Walk along Chargin Rd + take sidewalk on
bridge to cross the river. Plot is Northeast. of road.

