

CLEVELAND METROPARKS Plant Community Assessment Program: Quality Control Form



Project Label: PCAP Plot No: 3511 Date Sampled: 8/16/13 Lead: LANCE

Comment required if item answer is NO

Parking/Access outside of Park Boundaries:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	If yes, write details in Comments section below
Field journals completed	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Site sketch made on 1:3000 map?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Check cover page	X-axis Bearing of plot recorded	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
	GPS coords. Recorded	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
	North direction recorded	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
	Photographs taken?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Plot No., Date agreement on all pages?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Header data completed all pages?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Cover classes recorded in all Intensive modules	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Browse Level By Species	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Woody stem quality control check	<input checked="" type="checkbox"/> X <input type="checkbox"/> N	
Invasive plant quality control check	<input checked="" type="checkbox"/> X <input type="checkbox"/> N	
Ash trees mapped	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Cover by Strata? (confirm cover type)	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Soil samples collected with matching plot #.	<input checked="" type="checkbox"/> X <input type="checkbox"/> N	
Vouchers labeled on datasheet with initials and number	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Vouchers labeled on collection bag	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Pink flags removed	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Data sheet QA before leaving site?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Common equipment returned to tub.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Data sheets scanned?	CL 8-16-13	Enter date to left
Final data sheets scanned?		Enter date to left
Buffer Widths measured?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	CL 8-16-13
Web Soil Survey	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	CL 8-16-13
Voucher Location	Refrigerator	<input checked="" type="checkbox"/> X <input type="checkbox"/> N
(# vouchers collected)	Press (#)	Enter number to left
ACL 131- ACL 135	Drier	<input type="checkbox"/> Y <input type="checkbox"/> N
	Identified	<input type="checkbox"/> Y <input type="checkbox"/> N
	Mounted	<input type="checkbox"/> Y <input type="checkbox"/> N
	Thrown away	<input type="checkbox"/> Y <input type="checkbox"/> 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. parkinglot, road)
	<input type="checkbox"/> Unsafe to sample (i.e. steep slope)
	<input type="checkbox"/> Other

Additional Comments:

27 Feb 2000

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Page 1 of 2
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GENERAL INFORMATION		LOCATION																				
Project Label: PCAP		State: OH County: Cuyahoga																				
Project Name: 01 RR 2013		Quadrangle:																				
Plot Name: Deer Candy		Local Place Names: Rocky River Stables																				
Plot No.: 3511		Landowner: CMP																				
<input type="checkbox"/> Level 4 (no nested corners sampled) <input checked="" type="checkbox"/> Level 5 (nested corners sampled)		Data Confidentiality:																				
Date (mm/dd/yyyy): 08/06/2013		Check one: <input checked="" type="checkbox"/> Public data <input type="checkbox"/> Private Data																				
End date (if > 1 day): / /		<input type="checkbox"/> Fuzz 100m <input type="checkbox"/> Fuzz 250m <input type="checkbox"/> Fuzz 500m																				
Party		Reason:																				
A. Lance <i>A. Bonskouski</i> Plot leader C. DeVono Work Crew S. Eysenbach Assistant		If data not public why?																				
		Source of coordinates: <input type="checkbox"/> MAP <input checked="" type="checkbox"/> GPS																				
		Coordinate system: <u>Coord. Units</u> <input type="checkbox"/> Lat/long <input type="checkbox"/> UTM <input type="checkbox"/> StatePlane <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"/> ft min																				
PLOT NOT SAMPLED: <input type="checkbox"/> Other <input type="checkbox"/> Perv. water <input type="checkbox"/> Paved <input type="checkbox"/> Slope <input type="checkbox"/> Safety		Datum: <input checked="" type="checkbox"/> NAD83/WGS84 <input type="checkbox"/> NAD27 GPS location in plot x=0 to 5, y=-1.0,+1): x = 0 y = 0 (base of plot x=0, y=0) Latitude: 41°43'44.1" N Longitude: 81°84'14.8" W Coord. Accuracy: <input checked="" type="checkbox"/> m <input type="checkbox"/> ft GPS File Name: 3511A																				
Effort Level: <input checked="" type="checkbox"/> Very thorough <input type="checkbox"/> Accurate <input type="checkbox"/> Hurned		Plot size for cover data: 0.04 (hectares) X-axis Bearing of plot: [251] ° Depth: (1-5): 4																				
TAXONOMIC ACCURACY <table border="1"> <thead> <tr> <th></th> <th>high</th> <th>modera.</th> <th>low</th> <th>not samp</th> </tr> </thead> <tbody> <tr> <td>vascul.</td> <td><input checked="" type="checkbox"/></td> <td></td> <td><input checked="" type="checkbox"/></td> <td>n/a</td> </tr> <tr> <td>bryo</td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> </tr> <tr> <td>lichen</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				high	modera.	low	not samp	vascul.	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	n/a	bryo			<input checked="" type="checkbox"/>		lichen				
	high	modera.	low	not samp																		
vascul.	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	n/a																		
bryo			<input checked="" type="checkbox"/>																			
lichen																						
TAXONOMIC STANDARD Authority: G&C Pub Date: 1998 Minimum required fields in Bold and Underlined																						

Diagram: Plot origin (0,0) point

Key:
 ● GPS location → photo taken,
 ● location of permanent posts

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 - 2x2
 Location - Park at the Rocky River horse stables. Walk approx. 200 m behind the stables.

Rationale - GRTS point

Veg. Characteristics - Plot is located in a very wet area behind the Rocky River stables. Ash was the dominant canopy species (*F. pennsylvanica* in particular).

Bur elder, basswood, and buckeye also present. Ash and one sour cherry, as well as spicebush, noted throughout the shrub →

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

OVER

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Page 2 of 2

Project Label: PCAP Plot No.: 3511

Project Name: 01 RR 2013



MODIFIED NATUREERVE CLASS*

CODE (on separate form):

M-10

COMMUNITY NAME:

Mixed Swamp Forest

HOMOGENEITY

Homogeneous

Compositional trend across the plot

Irregular/pattern mosaic

Conspicuous inclusions

Fit= Conf=

PCAP

HYDROLOGIC REGIME*

by default unless plot is a wetland)

SALINITY*

Saltwater

Brackish

Fresh

Upland (n/a)

- Upland (seldom flooded)
- Intermittently/frequently saturated (seldom flooded)
- Permanently/Semipermanent, saturated (dry <1/yr, seldom flooded)
- Occasionally flooded (<1/yr)
- Temporarily flooded (e.g. wind, storms)
- Unknown

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

layer. Herbs included an abundance of a *Polygonum* sp., a variety of sedges, *Glyceria striata*, and *Leersia oryzoides*. False nettle, mad dog skullcap, and *Lindernia palustris* also were noted.

Browse was extensive throughout the plot.

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

Current Land Use: PARK

Former Land Use: UNKNOWN

DISTURBANCES					
	type*	severity**	yrs ago	% of plot	description
Human					
Natural					
Fire					
Cut					
Animal	H	0 100% browse			
Other					

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

Project Label: **PCAP**

Project name: **OLR 2013**

Page **1** of **3**

Total modules: **4**

Intensive modules: **4** Plot configuration: **2x2**

Plot area (ha): **.04**



**Cleveland
Metroparks**

**thin
wings**

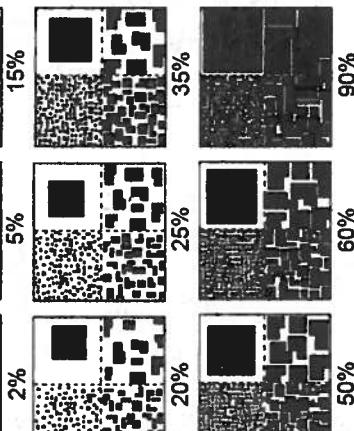
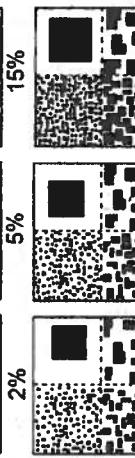
Br = Browse Level. Use cover classes to describe amount of browse per species over entire plot

Strata - Cov. entire plot

T	S	H	(F)(A)	Br	Species	c	Voucher #	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	
6	5				<i>Fraxinus saccharinum</i>	10		4	8	2																
6	5				<i>F. pennsylvanica</i>	8		3	11-13	4	6	4	3	4	2	2	2	2	2	2	4	4	4	4	4	4
6	5				<i>Polygonatum multiflorum</i>	5																				
6	3				<i>Bidens sp.</i>	6		3	5	2																
6	5				<i>Moss sp.</i>	8																				
6	5				<i>Acer negundo</i>	7		4	3	2	2	6	3	3	2	2	2	2	2	2	5	4	4	4	4	
6	5				<i>Carex sp. #1</i>	8		X	ACU 132	6	7	6	4	2	6	4	2	6	4	3	5	4	4	4		
6	5				<i>Carex sp. #2</i>	7																				
6	5				<i>Lysimachia nummularia</i>	7																				
5	6				<i>Fraxinus sp. seedling</i>	8		4	2	5	4	4	4	2	6	3	4	4	4	4	4	4	4	4		
5	6				<i>Cinnamomum camphora</i>	9																				
5	6				<i>Glycercia striata</i>	10		X	ACU 133	4	3	2	3	4	6	3	2	2	6	4	5	4	4			
5	6				<i>Rosa multiflora</i>	9																				
5	6				<i>Isocoma officinalis</i>	10																				
5	6				<i>Gem sp.</i>	9																				
5	6				<i>Polygonatum virginianum</i>	10																				
5	6				<i>Ulmus americana</i>	10																				
5	6				<i>Carpinus cordiformis</i>	10																				
7					<i>Fraxinus sp.</i>	7																				
6	2				<i>Heuchera ovaloides</i>	7																				
6	2				<i>Connarus sp.</i>	10																				
6	2				<i>Toxicodendron radicans</i>	10																				
6	2				<i>Lindera benzoin</i>	8																				
3					<i>Ludwigia palustris</i>	3																				

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 quadrat contains the same total area covered, just different sized objects.



BROWSE RATING NARRATIVE DESCRIPTION

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

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

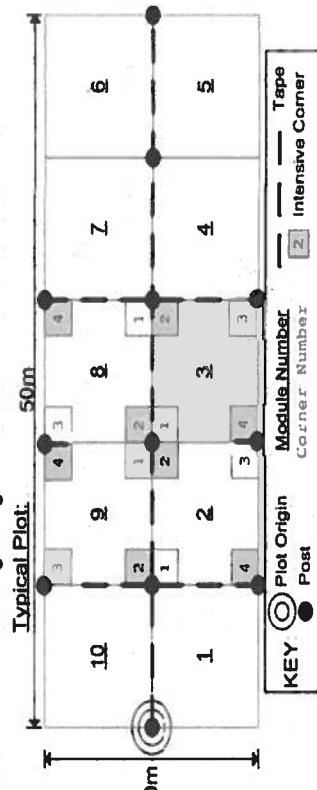
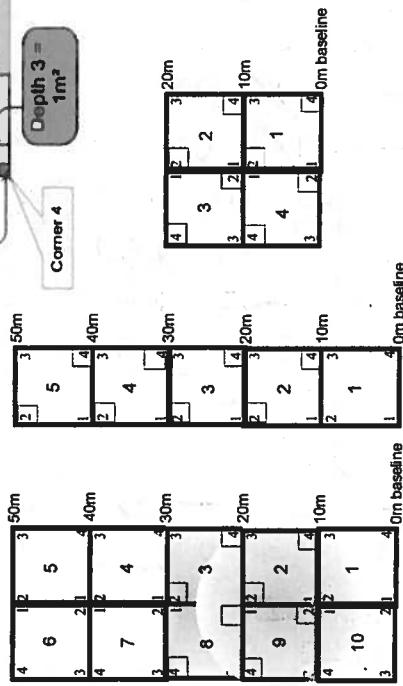
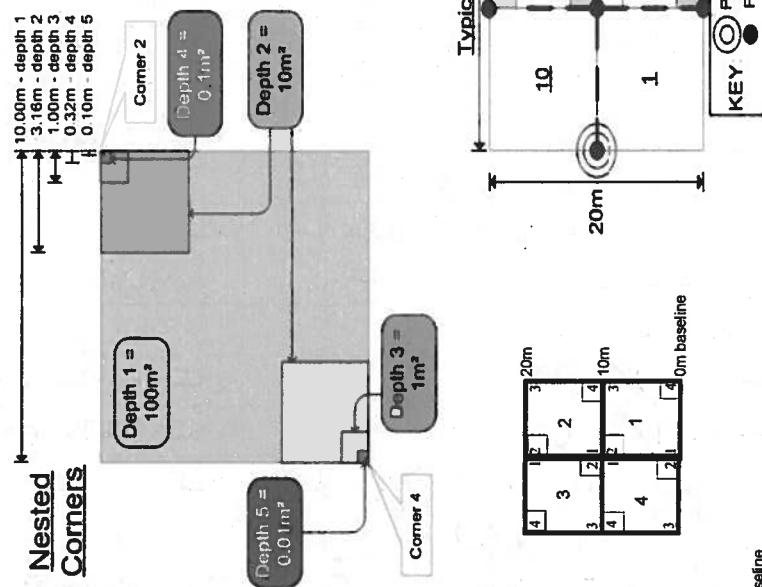
MEDIUM: browse affects greater than 10 percent and less than 25 percent of stems in the 1 m² nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of vegetation, but careful examination may show preferential browse and/or browse lines for some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

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

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

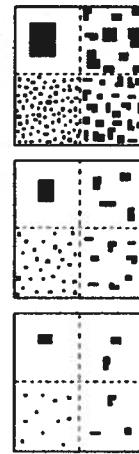
VERY HIGH values include extensive browse conditions, where the browse line is very evident AND almost all seedlings and herbs are severely browsed or missing. Browse line may be 5 to 6 feet in height with no or little green growth benefit.

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

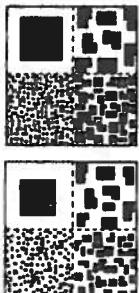


EXAMPLES OF PERCENT OF AREA COVERED

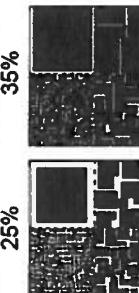
The following graphic can be used for various data elements to convey "Amount" or "Quantity". NOTE: Within any given box, each quadrant contains the same total area covered, just different sized objects.



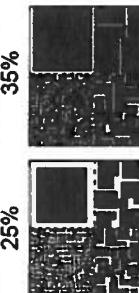
2%



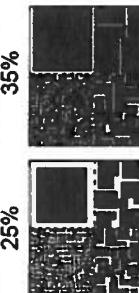
5%



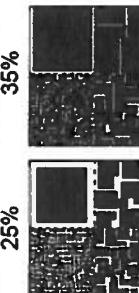
15%



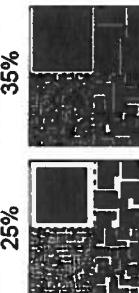
20%



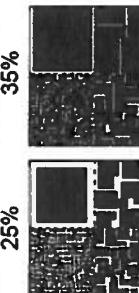
35%



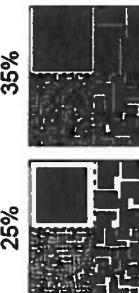
50%



60%



90%



100%

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.

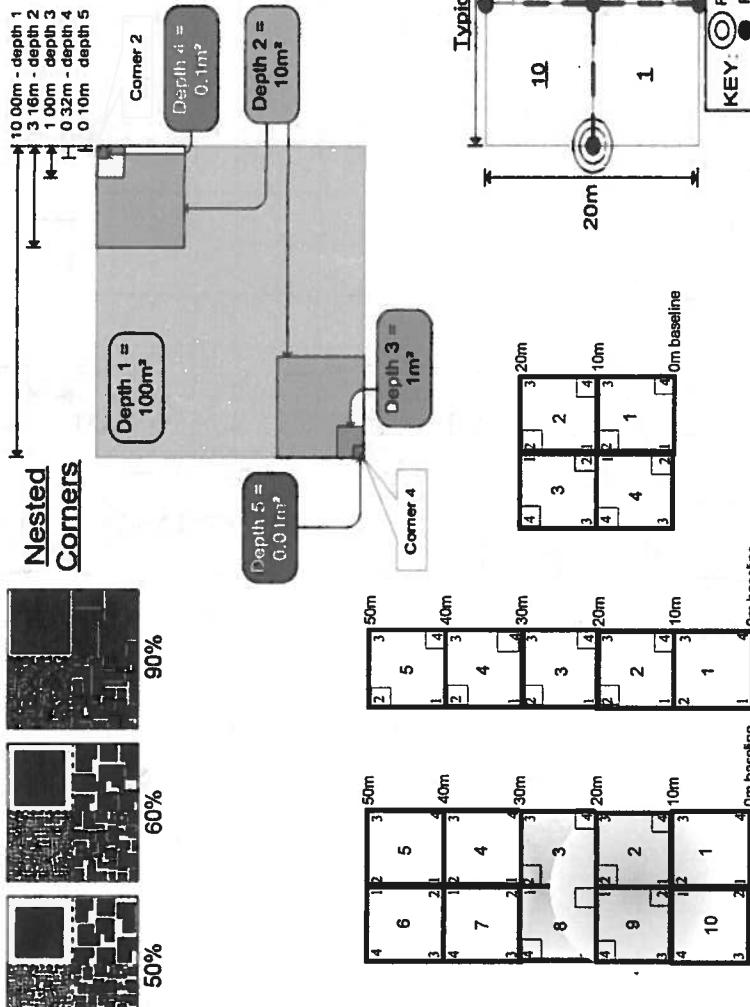
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MEDIUM HIGH values include evidence of a browse line and 25 percent of stems browsed with very little vegetation regeneration evident. In this rating, for some species of plants, reproduction does not appear to occur or it is very severely limited.

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.



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

Project Label: PCAP

Project name: 01 RR 2013

Page 3 of 3

Total modules:

4

Intensive modules:

4

Plot configuration:

2x2

Plot area (ha):

.04



Cleveland
Metroparks

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

Strata - Cov. entire plot

Estimate for each intensive module:

%open water

%unvegetated open water

1

1

%unveg. ground (bare soil)

1

1

%unveg. litter (bare litter)

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

mod corner mod corner

depth cov depth cov depth cov depth cov depth cov depth cov depth cov

R R

cov depth cov depth cov depth cov

mod corner mod corner mod corner

mod corner

Oxalis stricta

Solidago canadensis

Juncus tenuis

Erechtites hieracifolia

Carex sp. 4

Anemone trifolium var. fragillimum

3 2

10 Ligustrum vulgare

1 1

2 2

4 1

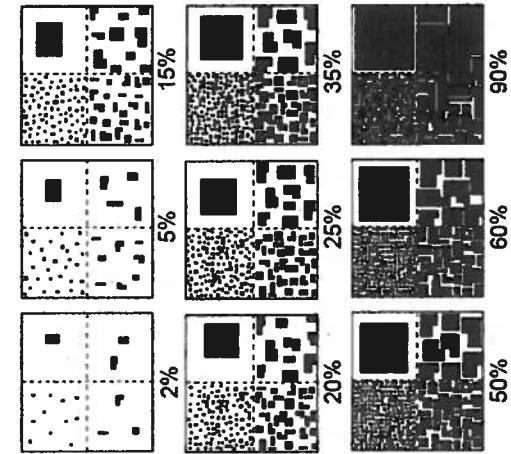
2 1

1 3

3

EXAMPLES OF PERCENT OF AREA COVERED

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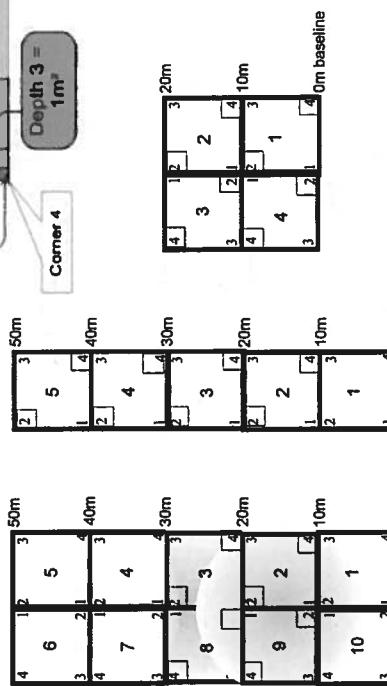
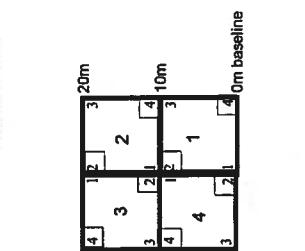
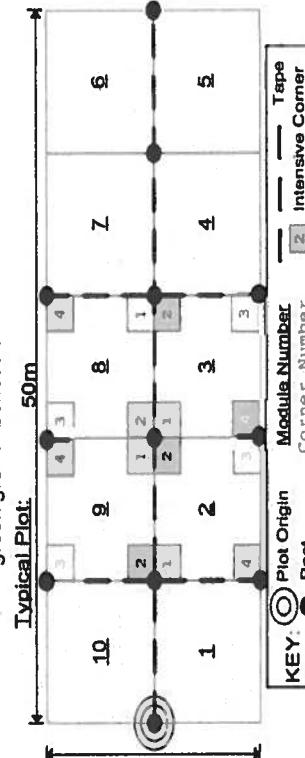
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VERY HIGH values include extensive browse conditions, where the browse line is very evident AND almost all seedlings and herbs are severely browsed or missing. Browse line may be 5 to 6 feet in height with no or little green growth beneath.



CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: O\RS\2013 Plot No.: 3511

Page: 1

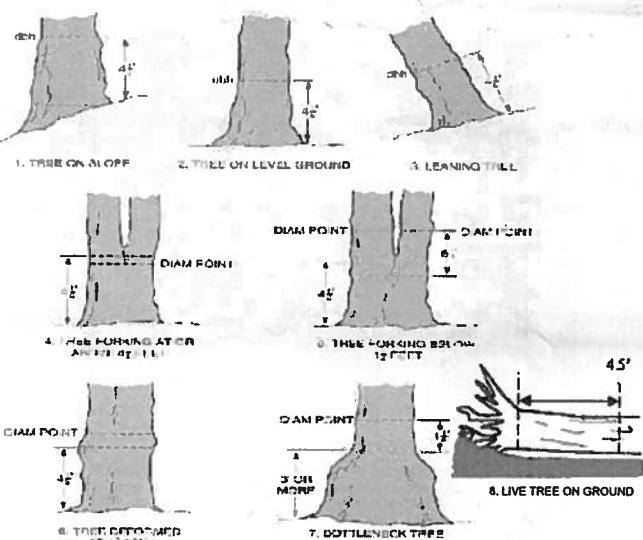
of 2

Explain subsample (additional room on back):

mod #	species	c	voucher#	# stems 0-1.4m browsed	% sub or super sample	# shrub clumps	size class (cm) woody stems >1.4m										
							1	2	3	4	5	6	7	8	9	10	>40 (record each tree)
0-1<1	1-2<2.5	2.5-<5	5-<10	10-<15	15-<20	20-<25	25-<30	30-<35	35-<40	11							
1	<i>Fraxinus sp.</i>								X	*							
1	<i>Fraxinus pennsylvanica</i>								*								
1	<i>Acer saccharinum</i>																
1	<i>Ulmus americana</i>																
1	<i>Acer negundo</i>			:													
1	Standing dead																
1	Mutis fls																
1	<i>Rosa multiflora</i>			:													
1	<i>Lindera benzoin</i>			:													
1	<i>Cornus Florida</i>			:													
2	<i>Acer negundo</i>			:													
2	Standing dead			:													
2	<i>Aesculus glabra</i>			:													
2	<i>Sambucus canadensis</i>			:													
2	<i>Lindera benzoin</i>			:													
2	<i>Vitis riparia</i>			:													
2	<i>Ulmus americana</i>			:													
2	<i>Fraxinus pennsylvanica</i>			:													
2	<i>Carya cordiformis</i>			:													
3	<i>Tilia americana</i>			:													
3	<i>Lindera benzoin</i>			X													
3	<i>Acer negundo</i>			:													
3	<i>Carya cordiformis</i>			:													
3	Standing dead			:													



DBH Measurement Rules



Woody Stem Deer Browse

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

Record using the tally system from 1 to 10



1



2



3



4



5

ASH CANOPY CONDITION

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



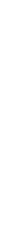
A



B



C



D



E

ASH CANOPY BREAKUP CONDITION (for dead trees):

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

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

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: OPRR 2013

Plot No.: 3511

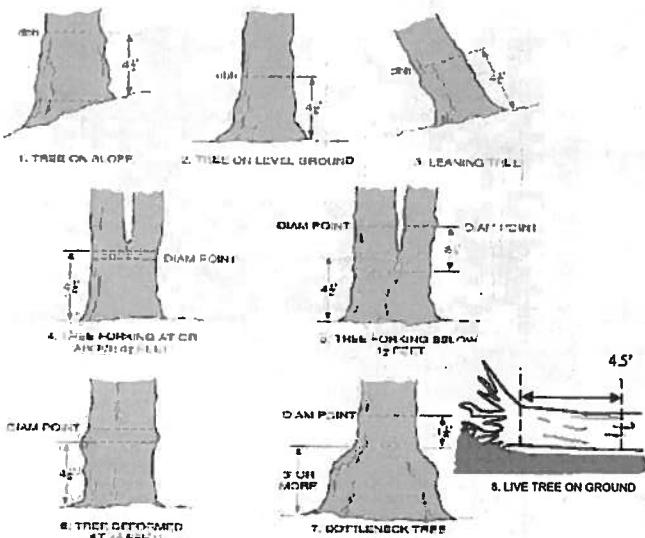
Page: 2 of 2

Explain subsample (additional room on back):

mod #	species	c voucher#	# stems 0-1.4m browsed	% sub or super sample	# shrub clumps	size class (cm) woody stems >1.4m										>40 (record each tree)
						1	2	3	4	5	6	7	8	9	10	
3-2	<i>Prunus pensylvanica</i>															
3-2	<i>Aesculus glabra</i>															
3-2	<i>Fraxinus sp.</i>															
3-2	<i>Rosa multiflora</i>															
3-2	<i>Vitis riparia</i>															
3	<i>Fraxinus pennsylvanica</i>															
3	<i>Cornus flava</i> sp.															
3	<i>Rubus pensylvanicus</i>															
3	<i>Quercus sp.</i>															
4	<i>Rosa multiflora</i>															
4	<i>Fragaria ananassa</i>															
4	<i>Staphylinus</i>															
4	<i>Lindera benzoin</i>															
4	<i>Loropetalum chinense</i> sp.															
4	<i>Ostrya virginiana</i>															
4	<i>Fraxinus sp.</i>															

64.8

DBH Measurement Rules



Woody Stem Deer Browse

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

Record using the tally system from 1 to 10



1



2



3



4



5

ASH CANOPY CONDITION

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



A

B

C

D

E

ASH CANOPY BREAKUP CONDITION (for dead trees):

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

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

CLEVELAND METROPARKS Emerald Ash Borer - Fraxinus Sheet

Project Label: PCAP

Project Name: 202013

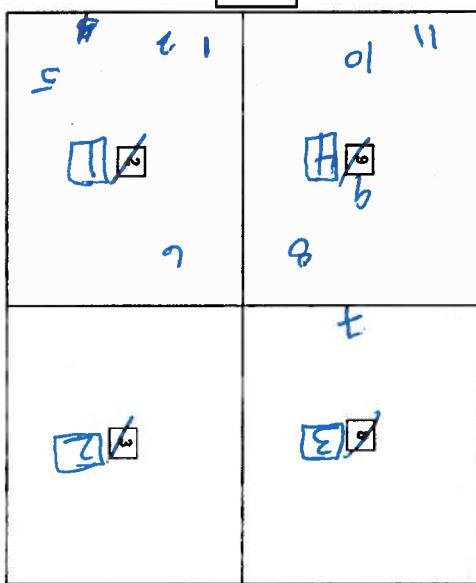
INTENSIVE MODULES ONLY TREES ≥ 10CM ONLY
Plot No.: 3511 Date: 8/6/13

Page: 1 of 2

Module Module ID.	Tree Species	Dead c	Voucher #	DBH (cm)	HT @ DBH	Ash condition	# Dead holes	ASH ONLY		
								*Dead holes	Epicormic present	Woodpecker holes
1	Fraxinus sp.		P14	19.4	1	Q	Q			1
2	Fraxinus sp.		29.7	1		Q	Q			
3	Fraxinus sp.		8.0							
4	Fraxinus sp.		10.5							
5	Fraxinus pensylvanica	53	15.3	3		Q	Q			1
6	Fraxinus sp.		18.1			Q	Q			
7	Fraxinus sp.		47.8			Q	Q			
8	Fraxinus pensylvanica	119	1			Q	Q			
9	Fraxinus pensylvanica	30.2	2			Q	1			
10	Fraxinus sp.	27.5	2			Q	Q			
11	Fraxinus pensylvanica	152	2			Q	Q			
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										

Baseline

*** Change intensive module numbers when necessary



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

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

Count EAB exit holes 1.25mm x 21.5m

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

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey


Tier 1: Early detection/ Rapid response		Presence				GPS	Presence X: yes
		NE	SE	SW	NW		
<i>Microstegium vimineum</i>	Japanese stiltgrass						
<i>Ranunculus ficaria</i>	Lesser Celandine						
<i>Cynanchum louiseae</i> (vine)	Black Swallow-wort						
<i>Butomus umbellatus</i> (wetland)	Flowering Rush						
<i>Heracleum mantegazzianum</i>	Giant Hogweed						
Tier 2: Assess as Needed		# of Plants		comments			# of Plants 1: 1-10 2: 11-50. 3: 51-100 4: 101-1,000 5: >1,000
		NE	SE	SW	NW		
<i>Acer platanoides</i>	Norway Maple						
<i>Ailanthus altissima</i>	Tree of Heaven						
<i>Lonicera japonica</i> (vine)	Japanese Honeysuckle						
<i>Lythrum salicaria</i> (wetland)	Purple Loosestrife						
<i>Aegopodium podagraria</i> (G-cover)	Bishop's Goutweed						
<i>Celastrus orbiculatus</i> (vine)	Asian Bittersweet						
Torilis sp.	Hedgeparsley						
<i>Conium maculatum</i>	Poison Hemlock						
<i>Rhamnus cathartica</i>	Common Buckthorn (shrub)						
<i>Berberis thunbergii</i>	Japanese Barberry (shrub)					2 2	
<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)			2	1		
<i>Euonymus fortunei</i>	Wintercreeper						
Tier 3: Presence is of Interest		# of Plants		comments			# of Plants 1: 1-10 2: 11-50. 3: 51-100 4: 101-1,000 5: >1,000
		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>opus</i>	European Cranberry (shrub)						
<i>Viburnum plicatum</i>	Doublefile Viburnum (shrub)						
Tier 4: Widespread and abundant		Presence		comments			# of Plants 1: 1-10 2: 11-50. 3: 51-100 4: 101-1,000 5: >1,000
		NE	SE	SW	NW		
<i>Alliaria petiolata</i>	Garlic Mustard						
<i>Ligustrum vulgare</i>	Common Privet (shrub)	1	2	2	1		
<i>L. morrowii</i> , <i>L. tatarica</i>	Bush Honeysuckles (shrub)	3	3				
<i>Phalaris arundinacea</i>	Reed Canarygrass	3		2			
<i>Phragmites australis</i> (wetland)	Phragmites						
<i>Polygonum cuspidatum</i>	Japanese Knotweed						
<i>Frangula alnus</i>	Glossy Buckthorn (shrub)						
<i>Rosa multiflora</i>	Multiflora Rose (shrub)	2	3	3	2		
<i>Typha angustifolia</i> , <i>T. x glauca</i>	Cattails (wetland)						
<i>Cirsium arvense</i>	Canada thistle						
<i>Dipsacus fullonum</i>	Common Teasel						
<i>Hesperis matronalis</i>	Dame's Rocket						
<i>Vinca minor</i> (G-cover)	Periwinkle		4			2 medium Patches on slope	

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

CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover and Earth Surface

Project Label: PCAP

Project Name: CIRK2013

Plot No.: 3511

✓ Cleveland Metroparks

Page: 1 of 1

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 VBIKE score calculation. C7=check when collected

Module #	C7 Corner	Corner

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

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

Slope 1 = slight elevational grade across module (flat)

Slope 2 = fall on slope -20°

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

0 feature is absent or functionally absent from the wetland

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

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

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

C.W.d. - Count for pieces with minimum 1m length

no. of tussocks	no. of hummocks	# no. macro. depressions	c.w.d (2-12 cm)	c.w.d (12-40cm)	>40 cm	microhab. interspers.	microhab.
depth 3	depth 1	depth 1	depth 1	depth 1	depth 1	depth 1	SLOPE
1xm	3 (0.3-1.6m)	10x10m	10x10m	10x10m	10x10m	10x10m	10x10m

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

CLASSIFICATION

(Ex = excellent, F=Fair and Confidence

Hydrogeomorphic class (WETLANDS ONLY)

DEFRESSION	Fit _____	Conf. _____	Fit _____	Conf. _____
IMPOUNDMENT □ Beaver □ Human	Fit _____	Conf. _____	Fit _____	Conf. _____
DETERMINANT □ Headwater □ Mainstem □ Channel	Fit _____	Conf. _____	Fit _____	Conf. _____
SLOPE (ground water hydrology or on a physical slope)	Fit _____	Conf. _____	+90 degrees	E
FRINGING □ Reservoir □ Natural Lake	Fit _____	Conf. _____	+135 degrees	SE
COASTAL (specify subsites)	Fit _____	Conf. _____	+180 degrees	S
BOG (strongly, moderately, weakly ombrotrophic)	Fit _____	Conf. _____	+225 degrees	SW
FOREST □ Swamp forest □ bog forest □ forest steep	Fit _____	Conf. _____	+270 degrees	W
EMERGENT □ marsh □ wet meadow □ open bog	Fit _____	Conf. _____	+315 degrees	NW
SHRUB □ shrub swamp □ tall sh. bog □ tall sh. fen	Fit _____	Conf. _____	...Terrain Shape Index (position within landscape)	

LFI = angle of horizon. TSI is angle of local slopes. For TSI measure recorder eye to eye of person standing ~10 m away.

MGNA-B INDICES (degrees) + for up - for down

[FILLED OUT USING GIS PROGRAM - DO NOT FILL OUT IN FIELD]

Module	N	S	E	W	LFI*		TSI**
					At aspect	N	NE
1	21	18	22	36			
2	31	50	16	45			
3	14	12	31	24			
4	30	44	25	26			

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

Module	corner	(count)	(count)	(count)	(count)	(rank)	(rank)
1	O	38	5	0	45	0	0
2	O	0	1	0	4	0	0
3	10	1	12	3	6	0	0
4	12	0	10	1	5	0	0

COVER BY STRATA

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

*Very tall shrubs are sometimes included in the tree stratum
**Can also include seedlings of shrubs, i.e. all shrubs <0.5m
***Tree seedlings are often defined as up to 1.4 m height or as <2.5 cm DBH in which case they would span the herb and shrub layers.

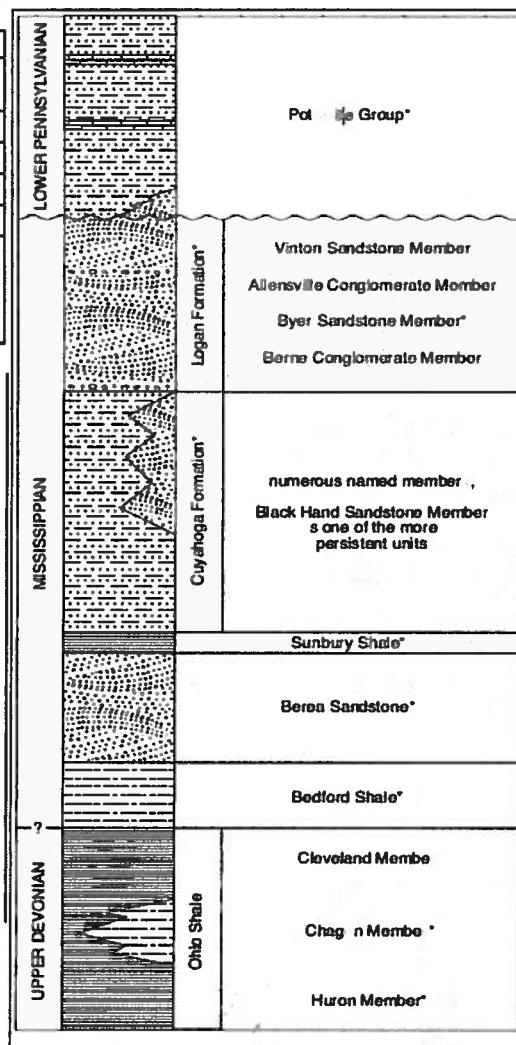
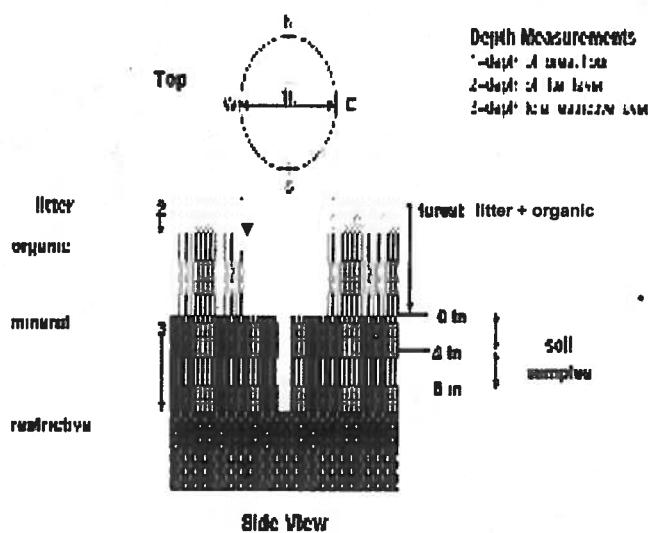


FIGURE 3-20—Generalized section of Upper Devonian, Mississippian, and Lower Pennsylvanian formations in northeastern Ohio. Asterisks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses indicated are proportional. The term "Wavyly" is used in the older literature to refer to Mississippian rocks in Ohio. Some geologists use the European term "Carboniferous," which encompasses the Mississippian and Pennsylvanian Periods of the U.S. Many units have been named within the Cuyahoga Formation, but most units are local and cannot be traced over great distances. The Black Hand Member is a spectacular massive sandstone that is fairly widespread but discontinuous. See Hyde (1953), Hoover (1960), and Collins (1979) for more information on Mississippian rocks in Ohio. See figure 18 for explanation of rock types.

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet 6a
 Project label: PCAP Project Name: DIRR2013

Plot No.: 3511

Page: 1 of 1

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

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

Soil pit module # <u>2</u> (one per entire plot)	
5 cm	matrix color <u>2.5 YR 5/1</u>
moisture color	<u>7.5 YR 5/8</u>
%smote	<u>30</u>
oxidants	<u>2</u>
texture*	<u>2</u>
redox features**	<u>(Y)</u> N
hydr. cond.***	<u>1 S (M) D</u>
20 cm	matrix color <u>2.5 YR 4/2</u>
moisture color	<u>5/6</u>
oxidants	<u>2</u> <u>(Y)</u> N
texture*	<u>2</u>
redox features**	<u>(Y)</u> N
hydr. cond. ***	<u>1 S (M) D</u>

Soil Collection Module Horizon (A, B, C)	
1,2,3 ⁴	composted
Web Soil Survey Information:	
Soil Series/Type	<u>Cherry Creek Silty</u>
Soil Series Source:	Ohio Soil Survey
Landform type:	<u>Flood plains</u>
Depth to rest. Layer:	<u>10 to 20 inches</u> <u>10cm</u>
Parent Material:	<u>Alluvium</u>
DRAINAGE*	
Excessively dr.	<input type="checkbox"/>
Well drained	<input type="checkbox"/>
Somewhat poorly dr.	<input type="checkbox"/>
Very poorly dr.	<input type="checkbox"/>
Impenetrable surface	<input type="checkbox"/>

EARTH SURFACE & GROUND COVER	
Underlying Earth Surface*	Ground Cover
(Sum = 100%)	percent
Histsol	<u>02</u>
Mineral Soil	<u>100%</u>
Gravel/Cobble*	<u>0%</u>
Boulder**	<u>0%</u>
Bedrock	<u>0%</u>
Water	<u>0%</u>
Bare Soil	<u>5%</u>
Road/Trail	<u>0%</u>
Other	<u>0%</u>

TRAIL INFORMATION:	
record type and cover for each	
Type	<u>None</u>
%Cover	
<input type="checkbox"/> All Purpose	
<input type="checkbox"/> Bridle	
<input type="checkbox"/> Hiking sanctioned	
<input type="checkbox"/> Bootleg unsanctioned	
<input type="checkbox"/> Gravel	
<input type="checkbox"/> Deer	

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

STAND SIZE	
Strata	Height Range (m)
Tree	<u>5</u> - <u>7.3</u> <u>20</u>
Shrub	<u>0.5</u> - <u>2.3</u> <u>20</u>
Herb	<u>0</u> - <u>.5</u> <u>9.3</u> <u>20</u>
(Floating)*	-
(Aquatic)*	-

SOIL DEPTH MEASUREMENT: Measure to the nearest 0.1 cm in center of intensive modules. If >30.5 cm, record as >30	
1 liter†	organic depth (cm)
2 liter	water depth (cm)
depth sat	soil (cm)
mod#	

STAND SIZE	
Strata	Height Range (m)
Tree	<u>5</u> - <u>7.3</u> <u>20</u>
Shrub	<u>0.5</u> - <u>2.3</u> <u>20</u>
Herb	<u>0</u> - <u>.5</u> <u>9.3</u> <u>20</u>
(Floating)*	-
(Aquatic)*	-

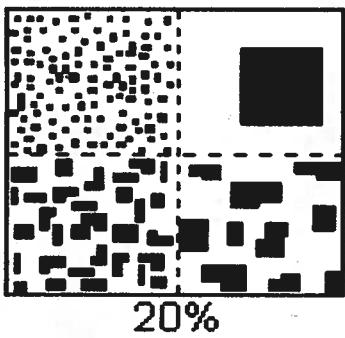
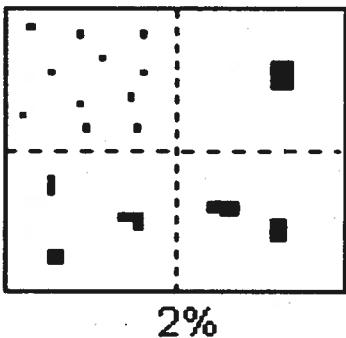
SEE BACK OF PAGE FOR "TYPICAL" STRATA DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE.

*rooted and floating or slightly emersed

**submersed, most plant mass below surface

PERCENT MOTTLES (USE CLASS CODES):

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



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

0= Organic

1= Loamy

2= Clayey

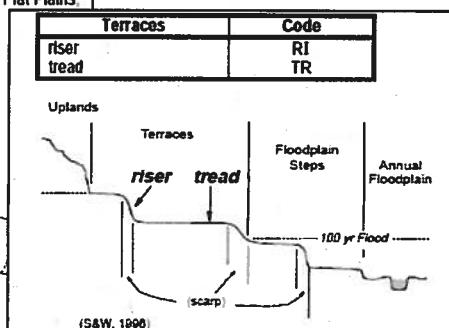
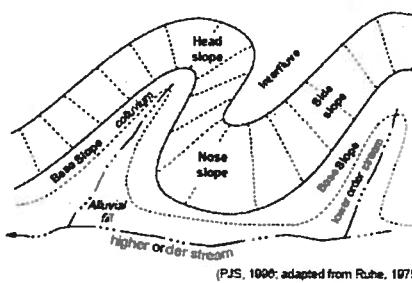
3= Sandy

4= Coarse Sand

9= Not measured - make plot note

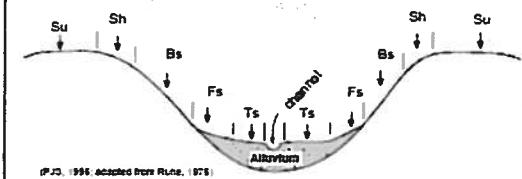
Geomorphic Component - Three-dimensional descriptors of parts of landforms or microfeatures that are best applied to areas. Unique descriptors are available for Hills, Terraces, Mountains, and Flat Plains: e.g., (for Hills) nose slope or NS.

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



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

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



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

UPLAND: Not a wetland. Very rarely flooded.

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

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

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

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

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

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

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

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

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

Reviewed by (Initial): _____

Site ID: PCAP RR 3511

DATE: 08/06/2013

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

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

PLOT COORDINATES

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

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

Location of coordinates (choose one):

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

Flag

Latitude North 41.43426

Longitude West 081.84042

Use Decimal Degrees; NAD83

Flag	Comments

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

Reviewed by (Initial): _____

Site ID: PCAP RR 3511DATE: 08/06/2013

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

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

PLOT COORDINATES

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

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Location of coordinates (choose one):

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

Flag

2Latitude North 41.43451 Longitude West 081.84262

Use Decimal Degrees; NAD83

Flag	Comments
1	Baseline of BP2 is at edge of bridge trail
2	Buffer Plot 2 ends e. Rocky River

7966623548

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

Reviewed by (Initial): _____

Site ID: PCAP RR 3511

DATE: 08/06/2013

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

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

PLOT COORDINATES

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

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Location of coordinates (choose one):

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

Flag

Latitude North

41 43325

Longitude West

081 84147

Use Decimal Degrees; NAD83

Flag	Comments

7966623548

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

Reviewed by (Initials): _____

Site ID: PCAPERZ511DATE: 08/06/2013

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

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

PLOT COORDINATES

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Location of coordinates (choose one):

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

Flag

Latitude North

41.43528

Longitude West

81.84180

Use Decimal Degrees; NAD83

Flag	Comments

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

Reviewed by (Initials): _____

Site ID: Pcarp851

DATE: 08/06/2013

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

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

PLOT COORDINATES

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

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

Location of coordinates (choose one):

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

Flag

Latitude North 41.43440

Longitude West 81.84152

Use Decimal Degrees; NAD83

Flag	Comments
<input checked="" type="checkbox"/>	AA Center was at 10 m mark on center line (plot was a 2x2)

7966623548