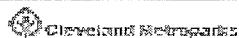


## CLEVELAND METROPARKS Plant Community Assessment Program: Quality Control Form



Project Label:

PCAP

Plot No: 114

Date Sampled: 7-11-11

Lead: Eysenbach

Comment required if item answer is NO

Parking/Access outside of Park Boundaries	Y <input checked="" type="radio"/>	If yes, write details in Comments section below	
Field journals completed	N <input type="radio"/>		
Site sketch made on 1:3000 map?	N <input type="radio"/>		
Check cover page	Y <input type="radio"/>		
X-axis Bearing of plot recorded	N <input type="radio"/>		
GPS coords Recorded	N <input type="radio"/>		
North direction recorded	N <input type="radio"/>		
Photographs taken?	N <input type="radio"/>		
Plot No., Date agreement on all pages?	N <input type="radio"/>		
Header data completed all pages?	N <input type="radio"/>		
Cover classes recorded in all intensive modules	N <input type="radio"/>		
Browse Level By Species	Y <input type="radio"/>		
Woody stem quality control check	N <input type="radio"/>		
Invasive plant quality control check	N <input type="radio"/>		
Ash trees mapped	N <input type="radio"/>		
Cover by Strata? (confirm cover type)	N <input type="radio"/>		
Soil samples collected with matching plot #.	N <input type="radio"/>		
Vouchers labeled on datasheet with initials and number	Y <input type="radio"/>		
Vouchers labeled on collection bag	N <input type="radio"/>		
Pink flags removed	Y <input type="radio"/>		
Data sheet QA before leaving site?	N <input type="radio"/>		
Common equipment returned to tub.	N <input type="radio"/>		
Data sheets scanned?	7/13/11	Enter date to left	
Final data sheets scanned?		Enter date to left	
Buffer Widths measured?	Y <input type="radio"/>		
Web Soil Survey	Y <input type="radio"/>		
Voucher Location	Refrigerator	Y N	
(# vouchers collected)	Press (#)		Enter number to left
	Drier	Y N	
	Identified	Y N	
	Mounted	Y N	
	Thrown away	Y N	

## GRTS point verification: Is plot sampleable?

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

## Additional Comments:



# CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Page 1 of 2

<b>GENERAL INFORMATION</b>		<b>LOCATION</b>																					
Project Label:	PCAP	State:	OH County: Cuyahoga																				
Project Name:	<u>013R2011</u>	Quadrangle:	<u>Northfield</u> SRF 10-13-1																				
Plot Name:	<u>Don't hurt the</u> <u>4.0050</u>	Local Place Names:	<u>Riverside Rd.</u> <u>Near CVNP Headquarters</u>																				
Plot No.:	<u>1141</u>	Landowner:	<u>CM</u>																				
<input type="checkbox"/> Level 4 (no nested corners sampled) <input checked="" type="checkbox"/> Level 5 (nested corners sampled)		X-axis Bearing of plot:	<u>298</u> °																				
Date (mm/dd/yyyy): <u>7/11/2011</u>		Data Confidentiality:																					
End date (if > 1 day): <u>/ /</u>		Check one: <input checked="" type="checkbox"/> Public data <input type="checkbox"/> Private Data																					
Party	Role**	<input type="checkbox"/> Fuzz 100m <input type="checkbox"/> Fuzz 250m <input type="checkbox"/> Fuzz 500m																					
<u>S. Giesebach</u>	<u>Plot leader</u>	 Diagram Key:  Plot origin (0,0) point  GPS location point  photo taken, with direction  location of permanent posts																					
<u>J. Lauterman</u>	<u>Asst. Plot</u>	Reason:																					
<u>J. Murphy</u>	<u>Soils</u>	If date not public why?																					
<u>M. Breit</u>	<u>Plotter</u>	Source of coordinates <input type="checkbox"/> MAP <input checked="" type="checkbox"/> GPS																					
<b>PLOT NOT SAMPLED:</b> <input type="checkbox"/> Perm. water <input type="checkbox"/> Paved <input type="checkbox"/> Slope <input type="checkbox"/> Safety		GPS location in plot x=0 to 5, y=-1,0,+1): $x = \bigcirc$ $y = \bigcirc$ (base of plot x=0, y=0)																					
<b>SAMPLING QUALITY*</b> <b>Effort Level:</b> <input type="checkbox"/> Very thorough <input type="checkbox"/> Accurate <input type="checkbox"/> Hurried		<b>Coordinate system:</b> <u>Coord. Units</u> <input checked="" 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"/> <b>Datum:</b> <input checked="" type="checkbox"/> NAD83/WGS84 <input type="checkbox"/> NAD27																					
<b>Latitude:</b> <u>41.28949</u> <b>Longitude:</b> <u>81.52743</u> <b>Coord. Accuracy:</b> <input checked="" type="checkbox"/> m <input type="checkbox"/> ft <input type="checkbox"/>		<b>Plot placement:</b> <input type="checkbox"/> Representative <input checked="" type="checkbox"/> RTS <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																					
<b>Layout:</b> <u>2x5</u> <b>Location:</b> Park at Utica Rd pull in. (Frisley Gravel) on West Side of River Valley Road. Walk 200 m west into field to find plot		<b>NOTES:</b> Include Layout (any unusual shape details), Location (directions and landscape context), Rationale (why here), and Veg Characterization (description of community, dominants, strata, BROWSE). Additional notes in space on back.																					
<b>Plot size for cover date:</b> <u>0.1</u> (hectares)		<b>Rationale:</b> BRTS pt.																					
<b>TAXONOMIC ACCURACY</b> <table border="1"> <tr> <td>high</td> <td>modera.</td> <td>low</td> <td>not samp</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></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><input checked="" type="checkbox"/></td> </tr> </table>				high	modera.	low	not samp	<input checked="" type="checkbox"/>				vascul.			n/a	bryo				lichen			<input checked="" type="checkbox"/>
high	modera.	low	not samp																				
<input checked="" type="checkbox"/>																							
vascul.			n/a																				
bryo																							
lichen			<input checked="" type="checkbox"/>																				
<b>TAXONOMIC STANDARD</b> <b>Authority:</b> <u>Gr&amp;C</u> Pub Date: <u>1998</u>																							
<small>** Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc.</small>																							
<small>*Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide</small>																							
<small>Minimum required fields in Bold and Underlined</small>																							

# CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Project Label: PCAP Project Name: CBR 201

Plot No.: 114 Page 2 of 2

© Cleveland Metroparks

<b>CLASSIFICATION</b>		<b>STAND SIZE</b>		<b>DISTURBANCES</b>	
(FIT = excellent, good, fair, poor; CONF = high, med, low)		Fit and Confidence		type* severity** yrs ago % of plot description	
<b>Hydrogeomorphic class (WETLANDS ONLY):</b>				<input type="checkbox"/> > 1,000 x plot size <input type="checkbox"/> Human <input type="checkbox"/> Natural <input type="checkbox"/> Fire <input type="checkbox"/> Cut <input type="checkbox"/> Animal <input type="checkbox"/> Other	
<input type="checkbox"/> DEPRESSION <input type="checkbox"/> IMPOUNDMENT <input type="checkbox"/> Beaver <input type="checkbox"/> Human <input type="checkbox"/> RIVERINE <input type="checkbox"/> Headwater <input type="checkbox"/> Mainstem <input type="checkbox"/> Channel <input type="checkbox"/> SLOPE (ground water hydrology or on a physical slope) <input type="checkbox"/> FRINGING <input type="checkbox"/> Reservoir <input type="checkbox"/> Natural Lake <input type="checkbox"/> COASTAL (specify subclass) <input type="checkbox"/> BOG (strongly, moderately, weekly ombrotrophic)		<input type="checkbox"/> Fit= <u>      </u> Conf= <u>      </u> <input type="checkbox"/> Fit= <u>      </u> Conf= <u>      </u>		<input type="checkbox"/> > 100 x plot size <input checked="" type="checkbox"/> 10-100 x plot size <input type="checkbox"/> 3-10 x plot size <input type="checkbox"/> 1-3 x plot size <input type="checkbox"/> < plot size	
<b>Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):</b>				<input type="checkbox"/> Current Land Use: <u>UNK - probably old field</u> <input type="checkbox"/> Former Land Use: <u>UNK - probably old field</u>	
<input type="checkbox"/> FOREST <input type="checkbox"/> swamp forest <input type="checkbox"/> bog forest <input type="checkbox"/> forest steep <input type="checkbox"/> EMERGENT <input type="checkbox"/> marsh <input type="checkbox"/> wet meadow <input type="checkbox"/> open bog <input type="checkbox"/> SHRUB <input type="checkbox"/> shrub swamp <input type="checkbox"/> tall sh. bog <input type="checkbox"/> tall sh. fen		<input type="checkbox"/> Fit= <u>      </u> Conf= <u>      </u> <input type="checkbox"/> Fit= <u>      </u> Conf= <u>      </u> <input type="checkbox"/> Fit= <u>      </u> Conf= <u>      </u>		<b>SALINITY*</b> <input type="checkbox"/> Upland (seldom flooded) <input checked="" type="checkbox"/> Intermittently/seasonally saturated <input type="checkbox"/> Saltwater <input type="checkbox"/> Fresh	
<b>MODIFIED NATURE RESERVE CLASS*</b>				<input type="checkbox"/> Intermittently flooded <input type="checkbox"/> Semipermanently flooded <input type="checkbox"/> Permanently flooded <input type="checkbox"/> Tidal/Seiche flooded daily <input type="checkbox"/> Tidal/Seiche flooded monthly <input type="checkbox"/> Tidal/Seiche flooded irregular (e.g. wind, storms)	
CODE (on separate form): <u>WOD</u>		<input type="checkbox"/> Fit= <u>      </u> Conf= <u>      </u>		<b>HYDROLOGIC REGIME*</b> <input type="checkbox"/> <b>Wetland (n/a)</b> (by default unless plot is a wetland) <input type="checkbox"/> Temporarily flooded <input type="checkbox"/> Unknown	
<b>COMMUNITY NAME:</b> <u>Atypical Succession Woodsy Shrub</u>		<b>HOMOGENEITY</b> <input checked="" type="checkbox"/> Homogeneous <input type="checkbox"/> Compositional trend across the plot <input type="checkbox"/> Conspicuous inclusions <input type="checkbox"/> Irregular/pattern mosaic			
		Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.) <p><i>Interesting plot. Sparse canopy of Ash with Crataegus and apple. Completely covered herb layer with lots of grasses and sedges. This was probably an old field succession area.</i></p>			

**CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet**

Plot no.: 1141

Page 1 of 3

Project Label: PCAP

Project name: OBR201

Intensive modules: 4

Plot configuration: 2x5

Plot area (ha): 0.1

Total modules: 10

Visual est. % open water entire site: 0

Visual est. %unveg. o.w. entire site: 0

Visual est. %invasives entire site: 8



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

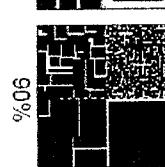
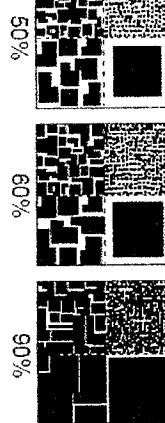
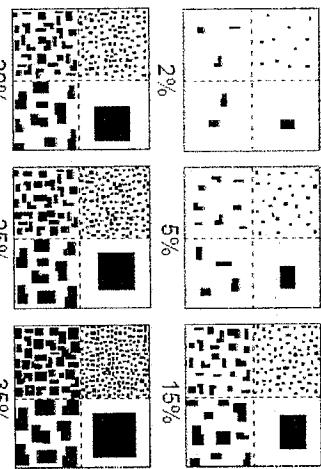
Strata - Cov. entire plot

T	S	H	(F)	(A)	Br	Species	Estimate for each intensive module:																		
							mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	
							depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth
4	2	2	2	2	2	<i>Castanea</i> sp. CUS-gall	4	3	2	4	4	2	5	2	7	5	2	9	2	R	R				
5	5	5	5	5	5	<i>Liriodendron</i> Cristata	3	5	3	4	7	3	5	2	3	2	3	4	2	3	4				
6	5	5	5	5	5	<i>Glucaria</i> striata	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
7	5	5	5	5	5	<i>Toxicodendron</i> radicans	3	6	4	4	4	5	6	4	4	4	5	2	5	2					
8	4	4	4	4	4	<i>Loxosia</i> virginica	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
9	3	3	3	3	3	<i>Frangula</i> alnus	3	6	4	4	4	5	6	4	4	4	5	2	5	2					
10	2	2	2	2	2	<i>Quercus</i> Seedlings	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
11	3	3	3	3	3	<i>Prunus</i> sp. racemosa	3	3	2	4	3	5	2	3	2	3	2	2	2	3	2	3	2	3	
12	4	4	4	4	4	<i>Polystachys</i> virginiana	4	2	3	2	3	3	4	3	2	3	2	2	2	3	2	3	2	3	
13	2	2	2	2	2	<i>Fraxinus</i> seedling	4	2	3	2	3	3	4	3	2	3	2	2	2	3	2	3	2	3	
14	2	2	2	2	2	<i>Fraxinus</i> Virginiana	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15	2	2	2	2	2	<i>Grewia</i> carinata	4	2	2	3	2	3	3	2	3	2	2	2	2	2	2	2	2	2	
16	2	2	2	2	2	<i>Polygonum</i> Sagittatum	2	2	2	3	2	3	1	2	2	2	2	2	1	2	2	2	2	2	
17	6	6	6	6	6	<i>Viburnum</i> dentatum	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
18	6	6	6	6	6	<i>Lonicera</i> morrowii	2	1	2	1	2	1	3	1	2	1	2	1	2	1	2	1	2	1	
19	3	3	3	3	3	<i>Lysimachia</i> nemorosa	3	3	3	3	3	3	2	2	2	2	2	2	3	2	3	2	3		
20	9	9	9	9	9	<i>Anthoxanthum</i> odoratum	3	3	3	3	3	3	2	2	2	2	2	2	3	2	3	2	3		
21	1	1	1	1	1	<i>Poa</i> compressa	X	SRE 430+	4	10	4	4	9	4	4	10	4	4	10	4					
22	8	8	8	8	8	<i>Viburnum</i> opulus	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
23	2	2	2	2	2	<i>Aster</i> sp. heterophyllum	1	2	2	1	2	1	3	1	2	2	1	2	2	2	2	2	2		
24	2	2	2	2	2	<i>Sympetrum</i> vicinum	1	2	2	3	2	1	4	1	2	4	1	4	1	4	1	4	1		
25	5	5	5	5	5	<i>Yucca</i> whippleana	4	2	3	2	1	4	1	2	4	1	2	1	4	1	2	1	4		
26	1	1	1	1	1	<i>Acer</i> villosum	3	3	2	2	3	2	4	3	3	2	3	4	2	2	3	2	2		
27	3	3	3	3	3	<i>Acer</i> seedlings	X	SRE 430	2	2	1	1	2	4	2	4	2	2	1	2	2	2	2		
28	3	3	3	3	3	<i>Carix</i> radicans	3	6	2	1	2	4	7	8	1	4	7	8	1	2	2	2	2		

\* out of  
cluster size

#### EXAMPLES OF PERCENT OF AREA COVERED

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



#### Nested Corners

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

#### BROWSE RATING NARRATIVE DESCRIPTION

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

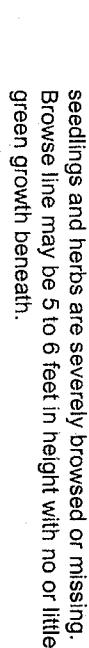
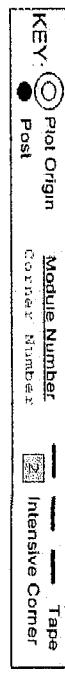
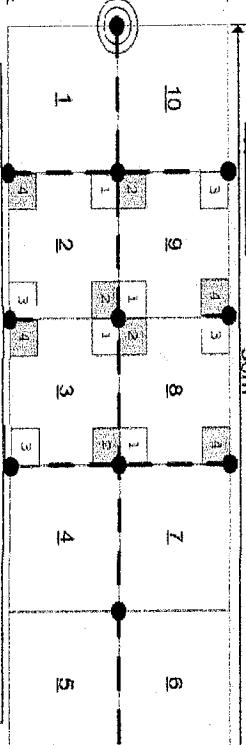
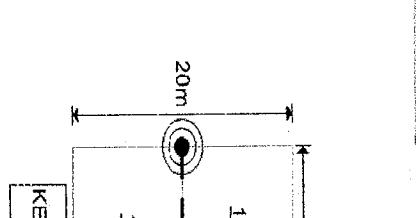
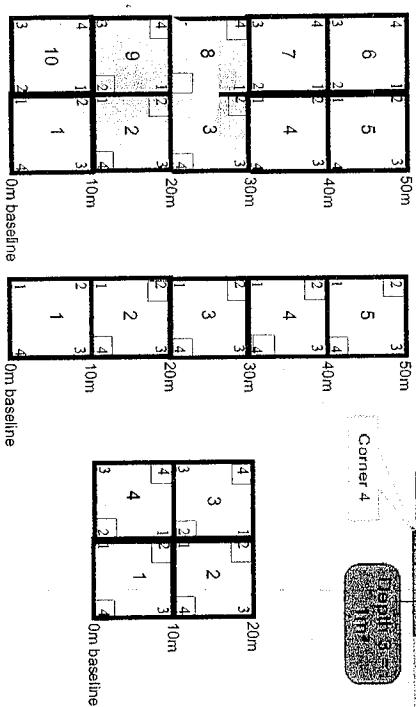
**MEDIUM LOW** values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse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

**MEDIUM:** browse affects greater than 10 percent and less than 25 percent of stems in the 1 m<sup>2</sup> 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 m<sup>2</sup> 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**

Project Label

四  
六

Project name: C

Plot no.: 191

Visual est. % open water entire site: \_\_\_\_\_ Visual est.

Visual est. %unveg.o.w. entire site:

Visual est. %invasives entire site: 28.3

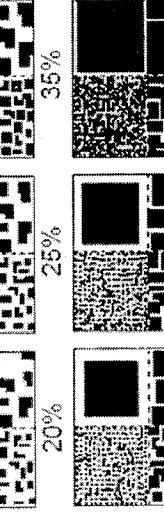
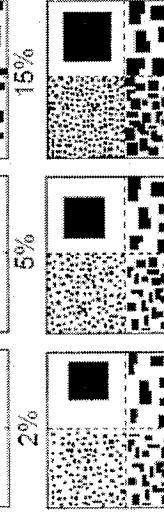
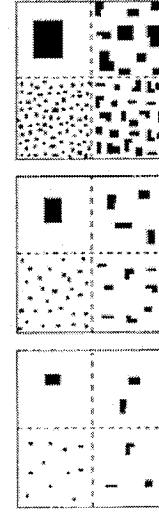
1. Science (air): 

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

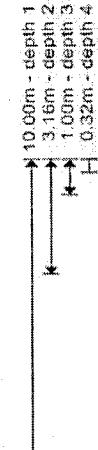
1603

#### 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



Nested Corners



Depth 1 = 100m<sup>2</sup>



Depth 2 = 1m<sup>2</sup>



Depth 3 = 0.01m<sup>2</sup>



Depth 4 = 0.0001m<sup>2</sup>



0m baseline

#### 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.

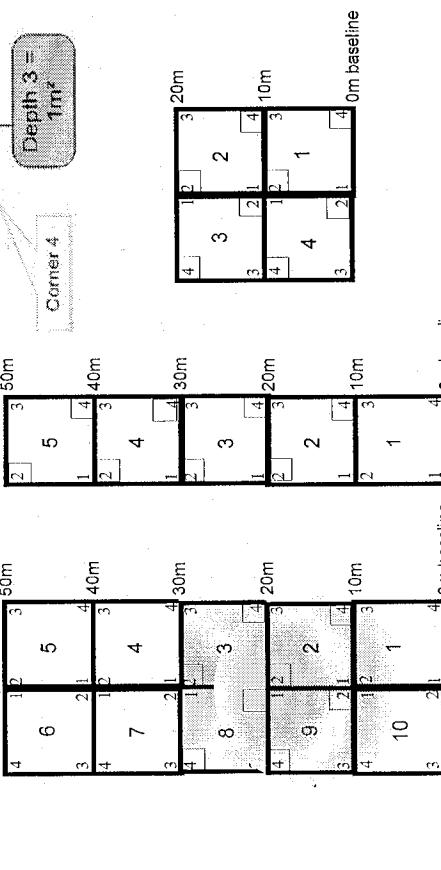
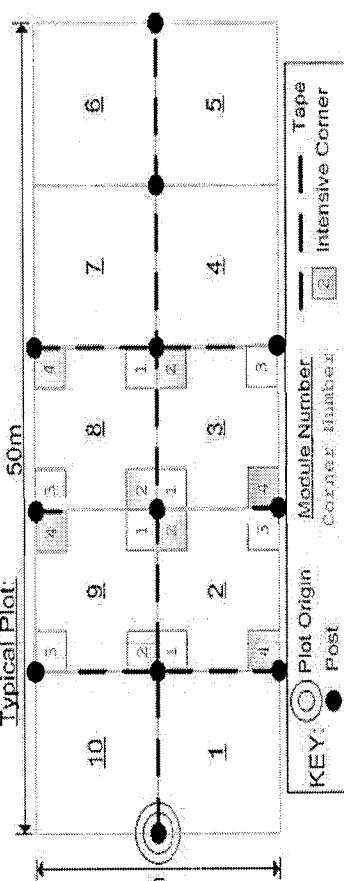
**MEDIUM LOW** values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse 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 m<sup>2</sup> 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 m<sup>2</sup> nested quadrat and intensive module AND a browse line is evident.

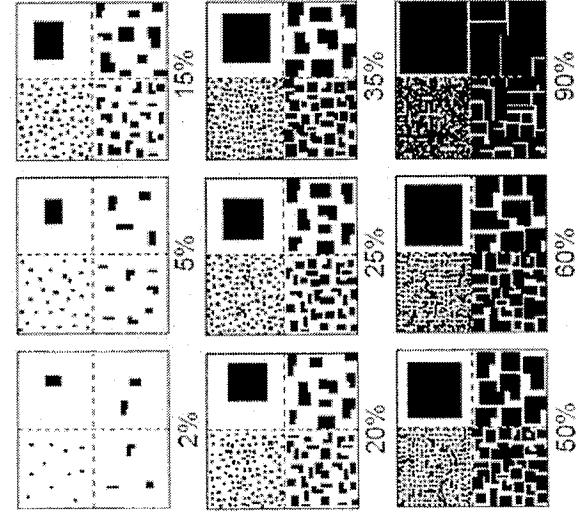
**VERY HIGH** values include extensive browse conditions, where the browse line is very evident AND almost all seedlings and herbs are severely browsed or missing. Browse line may be 5 to 6 feet in height with no or little green growth beneath.





#### EXAMPLES OF PERCENT OF AREA COVERED

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



#### BROWSE RATING NARRATIVE DESCRIPTION

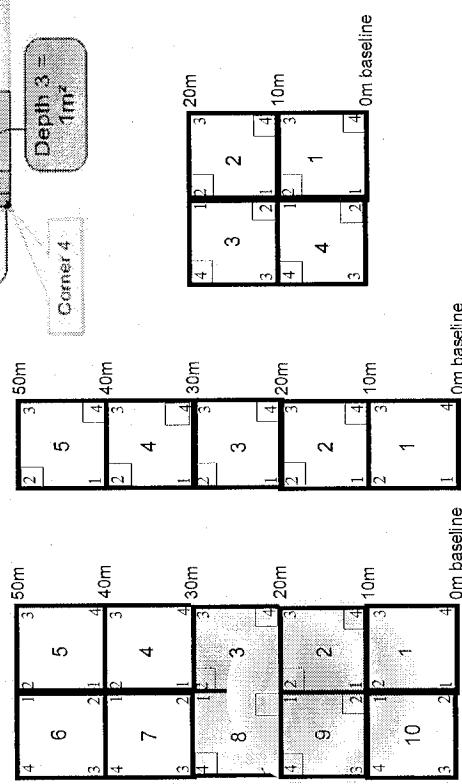
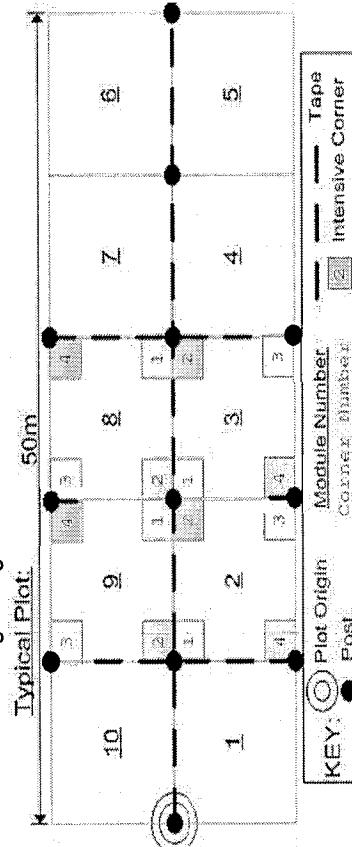
**LOW OR NONE:** there is no measurable browse line AND there are very few or no plants 1-m nested quadrat and intensive module. In general, low values relate to less than 10 percent, by numbers of stems browsed.

**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 m<sup>2</sup> nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of 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 m<sup>2</sup> 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 Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: OIBR 2011

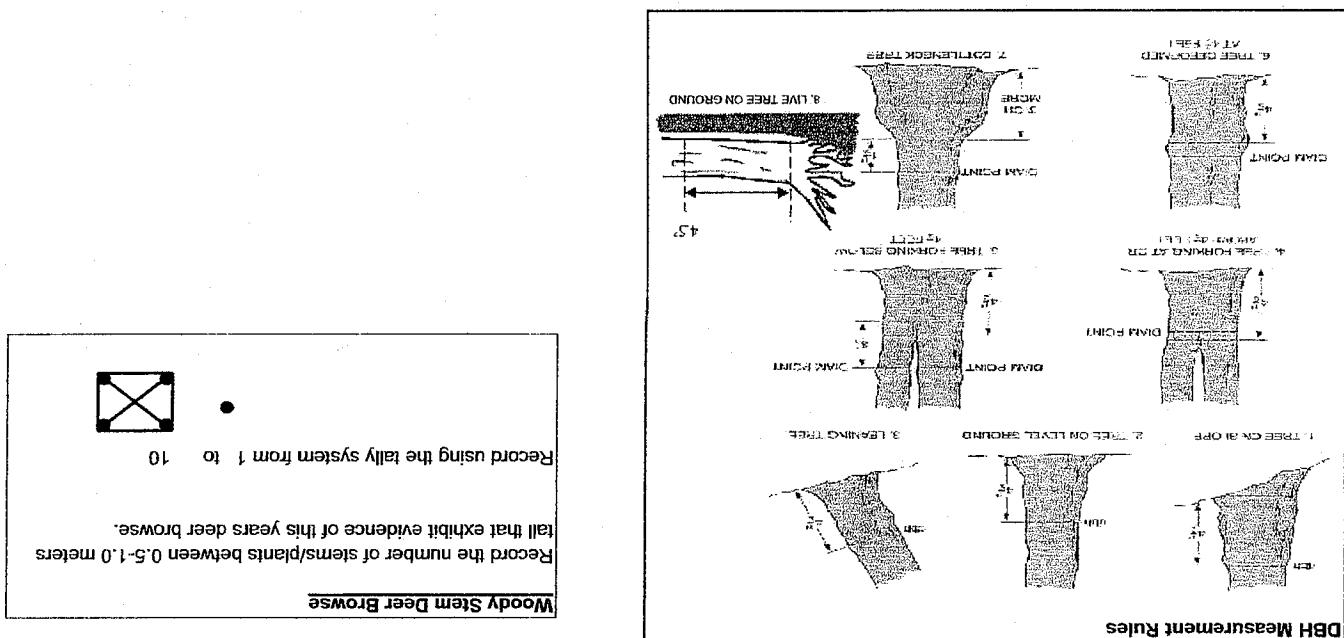
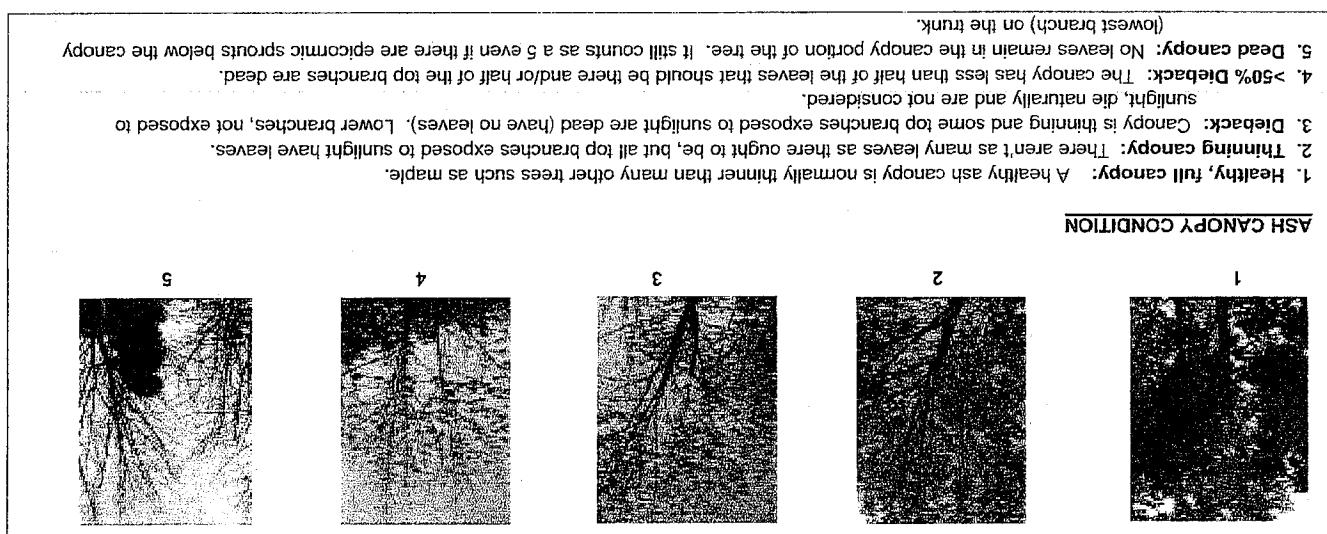
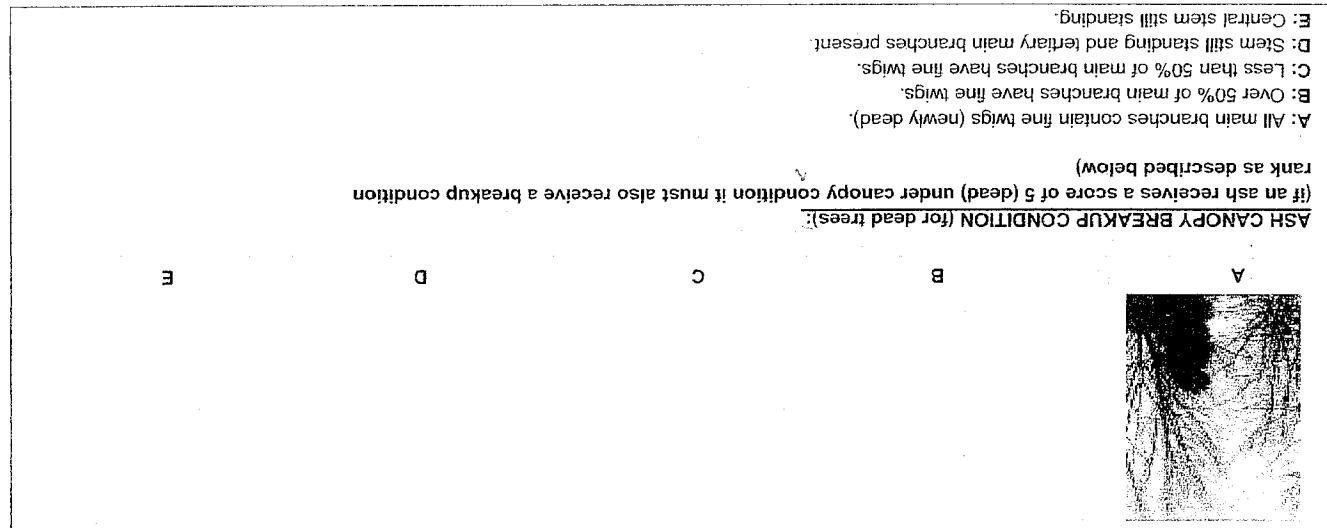
Plot No.: 1141

Page: 1 of 3

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										11 >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	
1	<i>Crataegus</i> sp.																
1	<i>Crataegus crus-galli</i>																
1	<i>Vitis riparia</i>																
1	<i>Fraxinus americana</i>																
1	<i>Rosa multiflora</i>																
1	Standing dead																
2	<i>Crataegus crus-galli</i>																
2	<i>Crataegus</i> sp.																
2	Standing dead																
2	<i>Rosa multiflora</i>																
3	<i>Crataegus</i> sp.																
3	<i>Vitis riparia</i>																
3	<i>Crataegus crus-galli</i>																
3	<i>Pyrus</i> sp. Malus																
3	Standing dead																
3	<i>Rosa multiflora</i>																
4	<i>Fraxinus americana</i>																
4	<i>Vitis riparia</i>																
4	<i>Pyrus</i> sp. Malus																
4	Standing dead																
4	<i>Rosa multiflora</i>																
4	<i>Ionicella monroviae</i>																
4	<i>Crataegus</i> sp.																

JEM  
7/11/11



CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: Q1B, 2011

Plot No.: 1041

Page: 2 of 3

Cleveland Metroparks

Explain subsample (additional room on back):

mod #	species	c voucher#	browsed	# stems 0.5-1m or super sample	% sub shrub	# clumps	size class (cm) woody stems > 1m									11 >40 (record each tree)
							1	2	3	4	5	6	7	8	9	
5	<i>Crataegus crus-galli</i>						•	•	•	•	•	•	•	•	•	
5	<i>Fraxinus sp. american</i>															
5	standing dead						•	•	•	•	•					
5	<i>Acer rubrum</i>															
5	<i>Pinus sylvestris</i>							•	•							
5	<i>Cornus florida</i>			••				••	••							
5	<i>Rosa multiflora</i>						•									
5	<i>Ligustrum vulgare</i>															
5	<i>Vitis riparia</i>			••			••	••	••							
6	<i>Cornus florida</i>			••			•	•	•							
6	<i>Vitis riparia</i>			••			•	•	•							
6	<i>Crataegus crus-galli</i>															
6	<i>Pinus sylvestris</i>															
6	<i>Crataegus sp.</i>															
7	<i>Rosa multiflora</i>							••	••							
7	standing dead															
7	<i>Rosa multiflora</i>	SRP#-11	••	••												
7	<i>Cornus florida</i>	SRP#-113	••													
7	<i>Vitis riparia</i>															
7	<i>Crataegus crus-galli</i>															
7	<i>Crataegus sp.</i>															
7	<i>Pyrus sp. Malus</i>															
8	<i>Fraxinus americana</i>															
8	<i>Rosa multiflora</i>		••													

ASH CANOPY BREAKUP CONDITION (for dead trees):				
A	B	C	D	E
(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.				

ASH CANOPY CONDITION				
1	2	3	4	5
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 some top branches exposed to sunlight have leaves. 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.				

DBH Measurement Rules	
 Record using the tally system from 1 to 10	<p>Diagram illustrating DBH measurement rules:</p> <ul style="list-style-type: none"> <li>1. Tree on live ground</li> <li>2. Tree on living ground</li> <li>3. Living tree</li> <li>4. Tree leaning 30 degrees</li> <li>5. Tree leaning 45 degrees</li> <li>6. Tree leaning 60 degrees</li> <li>7. Cut under tree</li> <li>8. Live tree on ground</li> <li>9. Dead point</li> <li>10. Dead point</li> <li>11. Dead point</li> <li>12. Dead point</li> <li>13. Dead point</li> <li>14. Dead point</li> <li>15. Dead point</li> <li>16. Dead point</li> <li>17. Dead point</li> <li>18. Dead point</li> <li>19. Dead point</li> <li>20. Dead point</li> <li>21. Dead point</li> <li>22. Dead point</li> <li>23. Dead point</li> <li>24. Dead point</li> <li>25. Dead point</li> <li>26. Dead point</li> <li>27. Dead point</li> <li>28. Dead point</li> <li>29. Dead point</li> <li>30. Dead point</li> <li>31. Dead point</li> <li>32. Dead point</li> <li>33. Dead point</li> <li>34. Dead point</li> <li>35. Dead point</li> <li>36. Dead point</li> <li>37. Dead point</li> <li>38. Dead point</li> <li>39. Dead point</li> <li>40. Dead point</li> <li>41. Dead point</li> <li>42. Dead point</li> <li>43. Dead point</li> <li>44. Dead point</li> <li>45. Dead point</li> <li>46. Dead point</li> <li>47. Dead point</li> <li>48. Dead point</li> <li>49. Dead point</li> <li>50. Dead point</li> <li>51. Dead point</li> <li>52. Dead point</li> <li>53. Dead point</li> <li>54. Dead point</li> <li>55. Dead point</li> <li>56. Dead point</li> <li>57. Dead point</li> <li>58. Dead point</li> <li>59. Dead point</li> <li>60. Dead point</li> <li>61. Dead point</li> <li>62. Dead point</li> <li>63. Dead point</li> <li>64. Dead point</li> <li>65. Dead point</li> <li>66. Dead point</li> <li>67. Dead point</li> <li>68. Dead point</li> <li>69. Dead point</li> <li>70. Dead point</li> <li>71. Dead point</li> <li>72. Dead point</li> <li>73. Dead point</li> <li>74. Dead point</li> <li>75. Dead point</li> <li>76. Dead point</li> <li>77. Dead point</li> <li>78. Dead point</li> <li>79. Dead point</li> <li>80. Dead point</li> <li>81. Dead point</li> <li>82. Dead point</li> <li>83. Dead point</li> <li>84. Dead point</li> <li>85. Dead point</li> <li>86. Dead point</li> <li>87. Dead point</li> <li>88. Dead point</li> <li>89. Dead point</li> <li>90. Dead point</li> <li>91. Dead point</li> <li>92. Dead point</li> <li>93. Dead point</li> <li>94. Dead point</li> <li>95. Dead point</li> <li>96. Dead point</li> <li>97. Dead point</li> <li>98. Dead point</li> <li>99. Dead point</li> <li>100. Dead point</li> </ul>
Record the number of stems/plants between 0.5-1.0 meters tall that exhibit evidence of this year's deer browse. Record using the tally system from 1 to 10	
 Woody Stem Deer Browse	

**CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet**

Project Label: PCAP

Project Name: QBY-2011

Plot No.: 1141

Page: 3 of 3

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										11 >40 (record each tree)
						1	2	3	4	5	6	7	8	9	10	
8	<i>Crataegus</i> sp.					•	•	•	•	•	•	•				
8	Standing dead															
8	<i>Crataegus crus-galli</i>															
8	<i>Pyrus</i> sp. <del>Malus</del>	Q-13-11 SRE														
9	<i>Rubus occidentalis</i>															
9	<i>Crataegus</i> sp.															
9	<i>Crataegus crus-galli</i>															
9	Standing dead															
9	<i>Rosa multiflora</i>															
10	<i>Rosa multiflora</i>															
10	<i>Crataegus</i> sp.															
10	<i>Fraxinus americana</i>															
10	<i>Vitis riparia</i>															
10	<i>Crataegus crus-galli</i>															
10	Standing dead															



CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



**Tier 1: Early detection/ Rapid response**

<i>Microstegium vimineum</i>	Japanese stiltgrass	NE	SE	SW	NW
<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				

Presence
X: yes

**Tier 2: Assess as Needed**

<i>Acer platanoides</i>	Norway Maple	NE	SE	SW	NW
<i>Ailanthus altissima</i>	Tree of Heaven				
<i>Lonicera japonica</i> (vine)	Japanese Honeysuckle				
<i>Lythrum salicaria</i> (wetland)	Purple Loosestrife				
<i>Aegopodium podagraria</i> (G-cover)	Bishop's Goutweed				
<i>Celastrus orbiculatus</i> (vine)	Asian Bittersweet				
<i>Torilis</i> sp.	Hedgeparsley				
<i>Conium maculatum</i>	Poison Hemlock				
<i>Rhamnus cathartica</i>	Common Buckthorn (shrub)				
<i>Berberis thunbergii</i>	Japanese Barberry (shrub)	X		I <sup>a</sup>	I <sup>b</sup>
<i>Alnus glutinosa</i>	European Alder	I			
<i>Dipsacus laciniatus</i>	Cut-leaf Teasel				
<i>Elaeagnus umbellata</i>	Autumn Olive (shrub)				
<i>Lonicera maackii</i>	Amur Honeysuckle (shrub)		I <sup>a</sup>		
<i>Euonymus fortunei</i>	Wintercreeper				

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

**Tier 3: Presence is of Interest**

<i>Convallaria majalis</i> (G-cover)	Lily of the Valley	NE	SE	SW	NW
<i>Coronilla varia</i> (G-cover)	Crown Vetch				
<i>Eleutherococcus pentaphyllus</i>	Five-leaf Aralia (shrub)				
<i>Pachysandra terminalis</i> (G-cover)	Japanese Pachysandra				
<i>Philadelphus coronarius</i>	Mock Orange (shrub)				
<i>Pulmonaria officinalis</i> (G-cover)	Lungwort				
<i>Rubus phoenicolasius</i>	Wineberry				
<i>Iris pseudacorus</i> (wetland)	Yellow Flag Iris				
<i>Ornithogalum umbellatum</i>	Star of Bethlehem				
<i>Viburnum opulus</i> var. <i>opulus</i>	European Cranberry (shrub)			I <sup>a</sup>	
<i>Viburnum plicatum</i>	Doublefile Viburnum (shrub)				

# of Plants
-------------

**Tier 4: Widespread and abundant**

<i>Alliaria petiolata</i>	Garlic Mustard	X		X	X
<i>Ligustrum vulgare</i>	Common Privet (shrub)	X	X	X	X
<i>L. morrowii</i> , <i>L. tatarica</i>	Bush Honeysuckles (shrub)	X	X		X
<i>Phalaris arundinacea</i>	Reed Canarygrass		X		
<i>Phragmites australis</i> (wetland)	Phragmites				
<i>Polygonum cuspidatum</i>	Japanese Knotweed				
<i>Frangula alnus</i>	Glossy Buckthorn (shrub)	X	X	X	X
<i>Rosa multiflora</i>	Multiflora Rose (shrub)	X	X	X	X
<i>Typha angustifolia</i> , <i>T. x glauca</i>	Cattails (wetland)				
<i>Cirsium arvense</i>	Canada thistle		X		
<i>Dipsacus fullonum</i>	Common Teasel				
<i>Hesperis matronalis</i>	Dame's Rocket				
<i>Vinca minor</i> (G-cover)	Periwinkle				

Presence
X: yes

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

CLEVELAND METROPARKS Emerald Ash Borer - *Fraxinus* Sheet

Project Label: PCAP

Project Name: DB/2011

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

Plot No.: 14 (

Date: 7/11/11 )

Baseline

Module	Tree ID.	Species	ped	c	Voucher #	DBH (cm)	Ht @ DBH	Ash condition	ASH Only		
									*Dead condition	# Exit holes	*Epicormic present
8	1	<i>Fraxinus americana</i>				31.0	137	2	0	0	0
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
	13										
	14										
	15										
	16										
	17										
	18										
	19										
	20										
	21										
	22										
	23										
	24										
	25										

\*\*\* Change intensive module numbers when necessary


Baseline

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

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

COVER BY STRATA <sup>1</sup> (% estimate using midpoints of ex. 3, 8, 13, 18%)	
Height Range - (m)	Total Cover (%)
Tree 5 - 8	22
Shrub 0.5 - 5	3
Herb X - 0.5	98
Floating* -	
(Aquatic) ** -	
• rooted and floating or slightly emerged	
** submersed, most plant mass below surface	
SEE BACK OF PAGE FOR "TYPICAL" STRATA DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE.	

EARTH SURFACE & GROUND COVER	
Underlying Earth Surface* (Sum = 100%)	Ground Cover
Percent (Each $\leq 100\%$ )	Percent
Fistosol 0	Coarse Woody Debris*** 8
Mineral Soil 100	Fine Woody Debris**** 3
Gravel/Cobbles* 0	Litter 0
Boulders** 0	Duff (Fern. + Humus) 0
Bedrock 0	Bryophyte-Lichen 3
• Gravel/Cobbles = 1/16 to 10 in	Water 0
• Boulder > 10 in	Bare Soil 3
*** 5 cm in diameter	Road/Trail 0
**** <5 cm in diameter	Other 0

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

#### MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

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

Slope 1 = slight elevational grade across module (hill)

Slope 2 = fails on slope ~20°

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

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

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

7 feature is present in moderate or greater amounts and 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.	c.w.d.	c.w.d.	microhab.	microhab.
depth 3		(2-12 cm)	(12-40 cm)	>40 cm	interspers.		
depth 2		depth 1	depth 1	depth 1	SLOPE		
1x1m	3.16x3.16m	10x10m	10x10m	10x10m	10x10m		
mod#	corner	(count)	(count)	(count)	(rank)		
2	24	0	0	9	0	1	0
3	24	0	0	5	0	1	0
8	24	0	0	82	9	0	1
9	24	0	0	5	0	0	1

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

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

c.w.d. = coarse woody debris

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

TRAIL INFORMATION: If trail fails in plot record type and cover for each			
Type	% Cover	+ NO HOLE	
<input type="checkbox"/> All Purpose			
<input type="checkbox"/> Bridle			
<input type="checkbox"/> Hiking sanctioned			
<input type="checkbox"/> Boulders unsanctioned			
<input type="checkbox"/> Gravel			
<input type="checkbox"/> Deer			

#### CROWN COVER (DENSITOMETER): Make 4 readings per module facing N, S, E, W. Place 4 dots per grid square

Module	N	S	E	W
2	6	3	3	5
3	2	4	8	1
8	10	4	9	4
9	5	7	4	9

#### MCNAB INDICES (degrees) + for up - for down

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

#### LFI\* TSI\*\*

LFI is angle of

lft to the

horizon. TSI is

angles formed

by local slopes.

For TSI measure angle

from recorder's

eye to eye of

person standing

~10 m away.

AT aspect

N

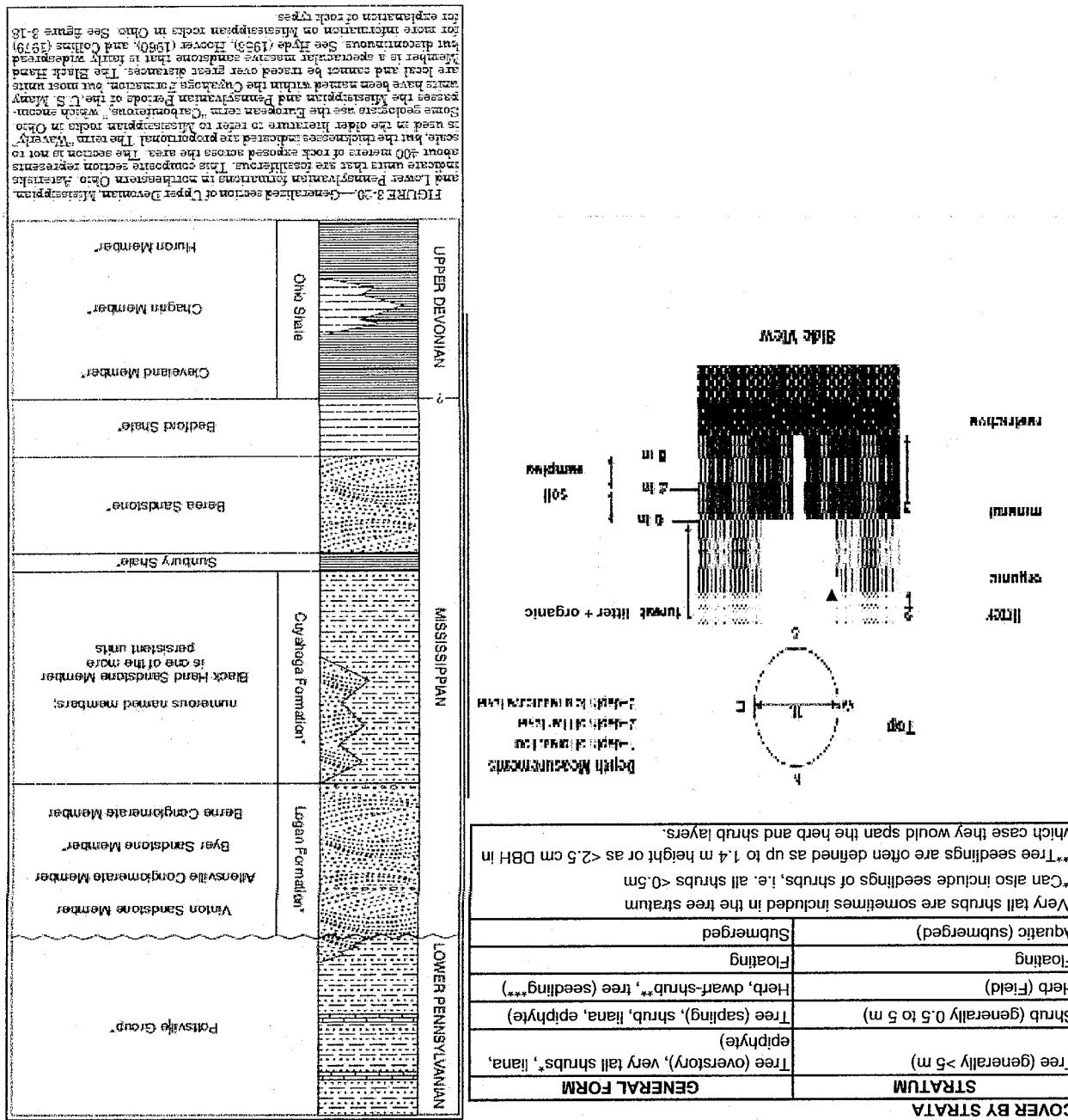
E

W

S

+45 degrees

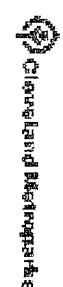
NE



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

**Project label:** PCAP    **Project Name:** DiBir 2011

**Plot No.:** 1141



**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 #** 3 (one per entire plot)

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

20 cm	matrix color	10 YR 3/2
motte color	—	
%smottle	—	
oxid roots	Y	(N)
texture*	1	
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. C2=check when collected

Module #	C?	Corner	Corner

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

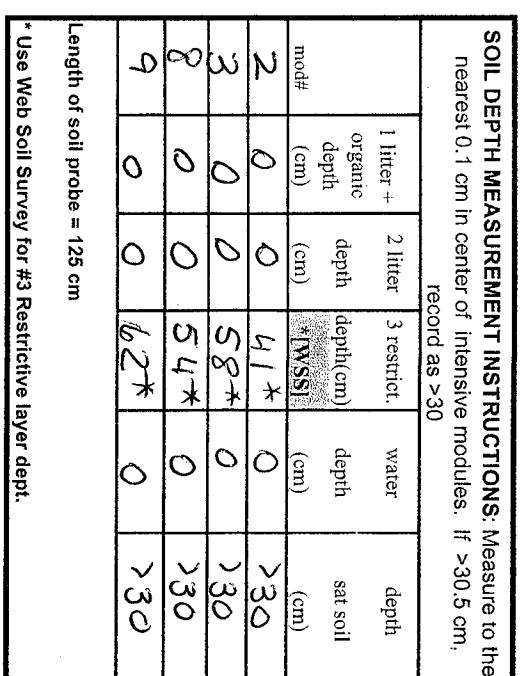
mod#	1 litter + organic depth (cm)	2 litter depth (cm)	3 restrict. depth (cm)	water depth (cm)	sat soil depth (cm)
2	0	0	41*	0	>30
3	0	0	58*	0	>30
8	0	0	54*	0	>30
9	0	0	62*	0	>30

\* Did not hit restrictive layer - soil too compacted/dry

\*\* Depth to restrictive layer - more than 80 ins

Length of soil probe = 125 cm

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



**Notes:** include evidence of earthworms (worms, castings, middens)

**Earthworms present in soil pit**

**Castings/middens not observed**

<input type="checkbox"/> Well drained
<input type="checkbox"/> Moderately well dr.
<input checked="" type="checkbox"/> Somewhat poorly dr.
<input type="checkbox"/> Poorly dr.
<input type="checkbox"/> Very poorly dr.
<input type="checkbox"/> Impermeable surface

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

**PERMANENTLY FLOODDED:** Water covers the land surface at all times of the year. Equivalent to Groundwater's permanent

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

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 Gowardin's

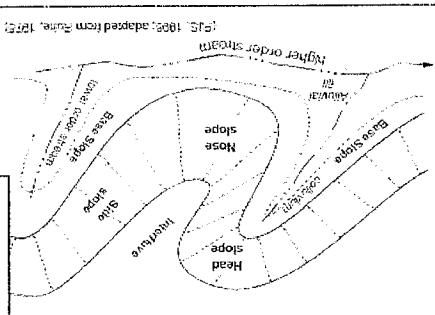
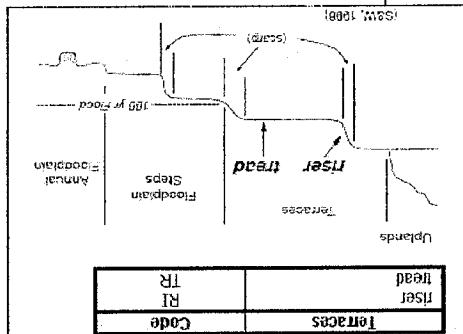
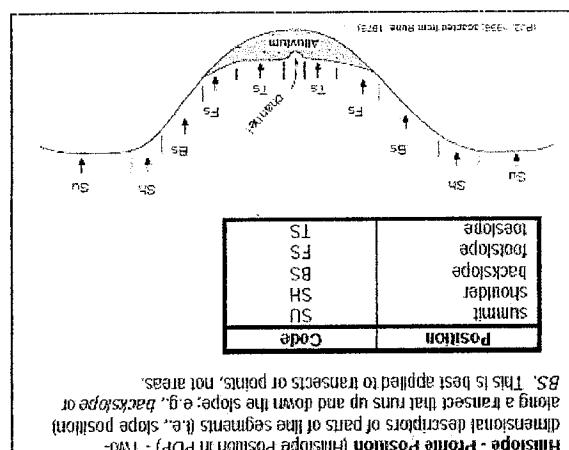
**TEMPORARILY FLOODED:** Surface water present for brief periods during growing season, but water table usually lies well below soil surface. Often characterizes flood-plain levees and lower terraces. Equivalent to Cowardin's Temporarily flooded.

**OCCASIONALLY FLOODED:** Surface water can be present for brief periods during growing season, but not in most years. Often saturated to surface during the growing season. Equivalent to Cowardin's Saturated modifier.

PERMANENTLY/SEMI-PERMANENTLY SATURATED: Dry less than once per year. Surface water is seldom present, but substrate is too surface for extended periods during the growing season.

**UPLAND:** Not a wetland. Very rarely flooded. **INTERMITTENT/SEASONALLY SATURATED:** Dry at least once per year. Surface water is seldom present, but substrate is saturated.

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



Terrace	Code
HS1slope - Profile Position (HS1slope Position in PDP) - Two-dimensional description of parts of the terrace surface	HS1slope

9= Not measured - make plot note

4= Coarse Sand

3= Sandy

2= Clayey

1= Loamy

0= Organic

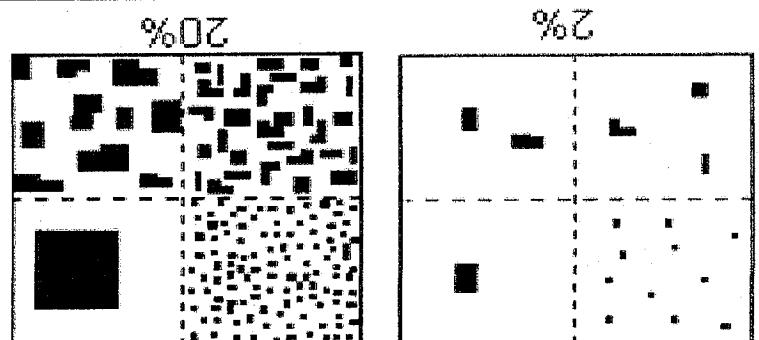
which form a ball but not a ribbon should be coded as loamy.

both a ball and a ribbon should be coded as clayey; samples

and attempt to form a ball, squeeze the sample between your fingers

soil does form a ball, squeeze the sample sandy or coarse sandy; if the

a grainy texture, the texture is either sandy or coarse sandy.



# FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial): \_\_\_\_\_

Site ID: PLAP Br 1141

DATE: 07 / 11 / 2011

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

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

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

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

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

2428168304

FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)											
Site ID: PCAP 3, 1141 DATE: 07/11/2011											
Reviewed by (initials):											
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
Eurasian Watermilfoil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Purple Loosestrife	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Johnson Grass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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"/>	<input type="checkbox"/>	<input type="checkbox"/>
Yellow Floating Heart	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Japanese Knotweed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Multiflora Rose	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Giant Saurina	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Perennial Pepperweed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Common Buckthorn	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Garlic Mustard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Giant Reed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Himalayan Blackberry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Poison Hemlock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cheatgrass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tamarisk	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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"/>	<input type="checkbox"/>	<input type="checkbox"/>
Birdsfoot Trefoil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Common Reed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Canada Thistle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Leafy Spurge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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 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 LONG 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 and 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.											
Flag											
Location of coordinates (choose one):											
AA CENTER <input type="checkbox"/> N3 <input type="checkbox"/> S3 <input type="checkbox"/> W3 <input type="checkbox"/> Nearest practicable location (Flag and comment below)											
Latitude North 41 28 9.62 Longitude West 081 57 7.63 Use Decimal Degrees; NAD83											
Comments Flag											

# FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): \_\_\_\_\_

Site ID: PCAP Br 1141

DATE: 07/11/2011

Location:

AA Center  N  S  O  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:  		Absent: <input type="radio"/>	Buffer Plot 2	Canopy Type:  		Absent: <input type="radio"/>	Buffer Plot 3	Canopy Type:  		Absent: <input type="radio"/>	
	Leaf Type:  				Leaf Type:  				Leaf Type:  			
Big Trees (>0.3m DBH)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Small Trees (<0.3m DBH)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Woody Shrubs, Saplings (0.5m-5m HIGH)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Woody Shrubs, Saplings (<0.5m HIGH)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Herbs, Forbs and Grasses	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bare ground	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Litter, duff	<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"/>	<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"/>	<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"/>	<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"/>	<input type="radio"/>

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

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

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

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

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

2428168304

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

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

Site ID: PCAP 3r 1141 DATE: 07/11/2011

Reviewed by (initials):

PLOT 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="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Purple Loosestrife	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Johnson Grass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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"/>	<input type="checkbox"/>	<input type="checkbox"/>
Yellow Floating Heart	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Japanese Knotweed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Multiflora Rose	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Giant Salvinia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Perennial Pepperweed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Common Buckthorn	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Garlic Mustard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Giant Reed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Himalayan Blackberry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Poison Hemlock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Creeping Charlie	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tamansk	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mile-A-Minute Weed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rabbit Grass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Birdsfoot Trefoil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Common Reed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Leaky Spurge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Canada Thistle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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. This is important because all Buffer Plot 3 can not be accessed, take the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plot 3 can be close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot.	Location of coordinates (choose one):										
Latitude North 41 28 8.64 Longitude West 0 81 57 7.19 Use Decimal Degrees; NAD83											
Flag <input type="checkbox"/> AA CENTER <input type="checkbox"/> N3 <input checked="" type="checkbox"/> S3 <input type="checkbox"/> E3 <input type="checkbox"/> W3 <input type="checkbox"/> Nearest practicable location (flag and comment below)											
Comments											

# FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial): \_\_\_\_\_

Site ID: PCAP Br 201141

DATE: 07/11/2011

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

## Buffer Natural Cover Strata

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

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

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

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

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

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

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

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

2428168304

Flag	Comments
1	Deer track in Plot
2	Could not access Plot 3 due to thick multi-layered vegetation
3	GPS coordinates from all plots to location due to multi-layered surrounding area - data taken from GPS pt
	crossing thick plantings access

Latitude North 41      Longitude West 081 57 17.4      Use Decimal Degrees; NAD83

Flag	Location of coordinates (choose one):	AA CENTER      O N3      O S3      O E3      O W3 <input checked="" type="checkbox"/> Nearest practicable location (flag and comment below)
3		

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.

### PLT 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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Purple Loosestrife	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Johnson Grass	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Water Hyacinth	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Knotweed	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Kudzu	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Yellow Floating Heart	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Japanese Knotweed	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Multiflora Rose	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Giant Salvinia	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Pennant Pepperweed	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Common Buckthorn	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Garlic Mustard	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Giant Reed	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Himalayan Blackberry	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Poison Hemlock	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cheatgrass	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Tansy	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Mile-A-Minute Weed	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Red Canary Grass	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Other	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Birdsfoot Trefoil	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Common Reed	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Other	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Canada Thistle	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Leaffy Spurge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Other	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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

Site ID:	DATE:						

# FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial): \_\_\_\_\_

Site ID: PCAP Br 1141

DATE: 07/11/2011

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

Industrial Development Stressors				Habitat/Vegetation Stressors								
Fill bubble if present - Plot	1	2	3	Fill bubble if present - Plot	1	2	3	Fill bubble if present - Plot	1	2	3	
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 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

242816830

PLOT COORDINATES											
Location of coordinates (choose one):											
Latitude North 41 28961 Longitude West 081 57632 Use Decimal Degrees; NAD83											
Flag											
Comments											
<input type="checkbox"/> AA CENTER <input type="checkbox"/> N3 <input type="checkbox"/> S3 <input checked="" type="checkbox"/> E3 <input type="checkbox"/> W3 <input type="checkbox"/> Nearest practicable location (Flag and comment below)											
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 Plot 3 as possible. The nearest practicable location can be either placed as close to the center of Plot 3 as possible or at the center of Plot 3 as possible.											
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.											
<b>Flag</b>											
<b>Comments</b>											
<input type="checkbox"/> Fill bubble if present - Plot 1 2 3 Flag <input type="checkbox"/> Fill bubble if present - Plot 1 2 3 Flag <input type="checkbox"/> 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: PCAP BR 1141 Date: 07/11/2011											
Reviewed by (initials): _____											

# FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial): \_\_\_\_\_

Site ID: PCAP Br 1141

DATE: 07 / 11 / 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:		Absent: <input type="radio"/>	Buffer Plot 2	Canopy Type:		Absent: <input type="radio"/>	Buffer Plot 3	Canopy Type:		Absent: <input type="radio"/>
	Leaf Type:	Flag			Leaf Type:	Flag			Leaf Type:	Flag	
Big Trees (>0.3m DBH)	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	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"/>	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"/>	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"/>	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"/> <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"/> <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"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>
Woody Shrubs, Saplings (<0.5m HIGH)	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Woody Shrubs, Saplings (<0.5m HIGH)	<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 HIGH)	<input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>
Herbs, Forbs and Grasses	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Herbs, Forbs and Grasses	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Herbs, Forbs and Grasses	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>
Bare ground	<input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Bare ground	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Bare ground	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>
Litter, duff	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Litter, duff	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Litter, duff	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>
Rock	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Rock	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Rock	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>
Water	<input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Water	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Water	<input 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"/>
Submerged Vegetation	<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"/>	Submerged Vegetation	<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"/>	Submerged Vegetation	<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"/>

**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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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"/> <input type="radio"/> <input type="radio"/>	<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



# CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Page 4 of 24  
F N

GENERAL INFORMATION		LOCATION	
Project Label:	PCAP	State:	OH
Project Name:		County:	
Plot Name:		Quadrangle:	
Plot No.:	1141	Local Place Names:	
		Landowner:	
Date (mm/dd/yyyy):	/ /	X-axis Bearing of plot:	[296] °
■ Level 4 (no nested corners sampled)		Data Confidentiality:	
■ Level 5 (nested corners sampled)		Check one: <input 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:	Role**	Reason:	If data not public why?
	Plot leader	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 = 0 y = 0 (base of plot x=0, y=0)	
		Coordinate system:	<u>Coord. Units</u>
		<input type="checkbox"/> Lat/Long <input type="checkbox"/> UTM <input type="checkbox"/> StatePlane	<input type="checkbox"/> deg <input type="checkbox"/> deg min
		<input type="checkbox"/> Other (specify):	<input type="checkbox"/> m <input type="checkbox"/> ft <input type="checkbox"/>
		Datum:	<input checked="" type="checkbox"/> NAD83/WGS84 <input type="checkbox"/> NAD27
<b>SAMPLING QUALITY*</b>			
Effort Level:	subjective evaluation of how much effort put into sampling. Hurried plots may still provide good data		
■ Very thorough			
■ Accurate			
□ Hurried			
<b>TAXONOMIC ACCURACY</b>			
high	modera.	low	not simpl
vascular			n/a
bryo			
lichen			
<b>TAXONOMIC STANDARD</b>			
Authority:	G&C Pub Date: 1998		
Minimum required fields in Bold and Underlined			

\*Definitions and values in CMPCAP FOM v. 1.0 and CVS Field Guide

OVER



1aCM PCAP Background Data Sheet Page 1\_ver 1.5.xls last revised 6/9/2010 jjm

Natural Resources Management FORM NRR/2010-01a

## CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet



Project Label: PCAP

Project Name: \_\_\_\_\_

Plot No.: \_\_\_\_\_

Page 2 of 2

CLASSIFICATION		STAND SIZE		DISTURBANCES				
(FIT = excellent, good, fair, poor; CONF = high, med, low)		Fit and Confidence		type*	severity**	yrs ago	% of plot	description
<b>Hydrogeomorphic class (WETLANDS ONLY):</b>		Fit= _____	Conf= _____	<input type="checkbox"/> >1,000 x plot size				
□ DEPRESSION		Fit= _____	Conf= _____	<input type="checkbox"/> >100 x plot size				
□ IMPOUNDMENT □ Beaver □ Human		Fit= _____	Conf= _____	<input type="checkbox"/> 10-100 x plot size				
□ RIVERINE □ Headwater □ Mainstem □ Channel		Fit= _____	Conf= _____	<input type="checkbox"/> 3-10 x plot size				
□ SLOPE (ground water hydrology or on a physical slope)		Fit= _____	Conf= _____	<input type="checkbox"/> 1-3 x plot size				
□ FRINGING □ Reservoir □ Natural Lake		Fit= _____	Conf= _____	<input type="checkbox"/> < plot size				
□ COASTAL (specify subclass)		Fit= _____	Conf= _____	<b>DRAINAGE*</b>				
□ BOG (strongly, moderately, weekly, ombrotrophic)		Fit= _____	Conf= _____	<input type="checkbox"/> Excessively drained				
				<input type="checkbox"/> Somewhat excessively drained				
				<input type="checkbox"/> Well drained				
				<input type="checkbox"/> Moderately well dr.				
				<input type="checkbox"/> Somewhat poorly dr.				
				<input type="checkbox"/> Very poorly dr.				
				<input type="checkbox"/> Impermeable surface				
<b>Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):</b>		Fit= _____	Conf= _____	<b>HYDROLOGIC REGIME*</b>				
□ FOREST □ swamp forest □ bog forest □ forest seep		Fit= _____	Conf= _____	<input type="checkbox"/> Upland (seldom flooded)				
□ EMERGENT □ marsh □ wet meadow □ open bog		Fit= _____	Conf= _____	<input type="checkbox"/> Intermittently flooded				
□ SHRUB □ shrub swamp □ tall sh. bog □ tall sh. fen		Fit= _____	Conf= _____	<input type="checkbox"/> Semipermanently flooded				
				<input type="checkbox"/> Permanently flooded				
				<input type="checkbox"/> Impermeable surface (seldom flooded)				
				<b>SALINITY*</b>				
MODIFIED NATURE RESERVE CLASS*		Fit= _____	Conf= _____	<input type="checkbox"/> Permanently/Semipermanent, saturated (dry <1/yr, seldom flooded)				
CODE (on separate form):				<input type="checkbox"/> Occasionally flooded (<1/yr)				
COMMUNITY NAME:				<input type="checkbox"/> Temporarily flooded (e.g. wind, storms)				
<b>LANDFORM TYPE*:</b>				<input type="checkbox"/> Upland (n/a)				
				<input type="checkbox"/> Unknown				
<b>HOMOGENEITY</b>		Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)						
□ Homogeneous								
□ Compositional trend across the plot								
□ Conspicuous inclusions								
□ Irregular/pattern mosaic								

park at old utility Rd just north of Vacaville on ~~Forest~~  
side of Amador - Hike in

