

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



Project Label:

PCAP

Plot No: 1335 Date Sampled: 7/18/2013 Lead: SJC

Comment required if item answer is NO

Parking/Access outside of Park Boundaries	Y <input checked="" type="radio"/> N <input type="radio"/>	If yes, write details in Comments section below
Field journals completed	Y <input checked="" type="radio"/> N <input type="radio"/>	
Site sketch made on 1:3000 map?	Y <input checked="" type="radio"/> N <input type="radio"/>	
Check cover page	X-axis Bearing of plot recorded	Y <input checked="" type="radio"/> N <input type="radio"/>
	GPS coords Recorded	Y <input checked="" type="radio"/> N <input type="radio"/>
	North direction recorded	Y <input checked="" type="radio"/> N <input type="radio"/>
	Photographs taken?	Y <input checked="" type="radio"/> N <input type="radio"/>
Plot No., Date agreement on all pages?	Y <input checked="" type="radio"/> N <input type="radio"/>	
Header data completed all pages?	Y <input checked="" type="radio"/> N <input type="radio"/>	
Cover classes recorded in all intensive modules	Y <input checked="" type="radio"/> N <input type="radio"/>	
Browse Level By Species	Y <input checked="" type="radio"/> N <input type="radio"/>	
Woody stem quality control check	Y <input checked="" type="radio"/> N <input type="radio"/>	
Invasive plant quality control check	Y <input checked="" type="radio"/> N <input type="radio"/>	
Ash trees mapped	Y <input checked="" type="radio"/> N <input type="radio"/>	
Cover by Strata? (confirm cover type)	Y <input checked="" type="radio"/> N <input type="radio"/>	
Soil samples collected with matching plot #	Y <input checked="" type="radio"/> N <input type="radio"/>	
Vouchers labeled on datasheet with initials and number	Y <input checked="" type="radio"/> N <input type="radio"/>	
Vouchers labeled on collection bag	Y <input checked="" type="radio"/> N <input type="radio"/>	S
Pink flags removed	Y <input checked="" type="radio"/> N <input type="radio"/>	
Data sheet QA before leaving site?	Y <input checked="" type="radio"/> N <input type="radio"/>	
Common equipment returned to tub.	Y <input checked="" type="radio"/> N <input type="radio"/>	
Data sheets scanned?	07/12/13	Enter date to left AS
Final data sheets scanned?		Enter date to left
Buffer Widths measured?	Y <input checked="" type="radio"/> N <input type="radio"/>	BB 6.28.13
Web Soil Survey	Y <input checked="" type="radio"/> N <input type="radio"/>	RE 12 July 13
Voucher Location	Refrigerator	Y N
(# vouchers collected)	Press (#)	Enter number to left
SJC-039 - OSS	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

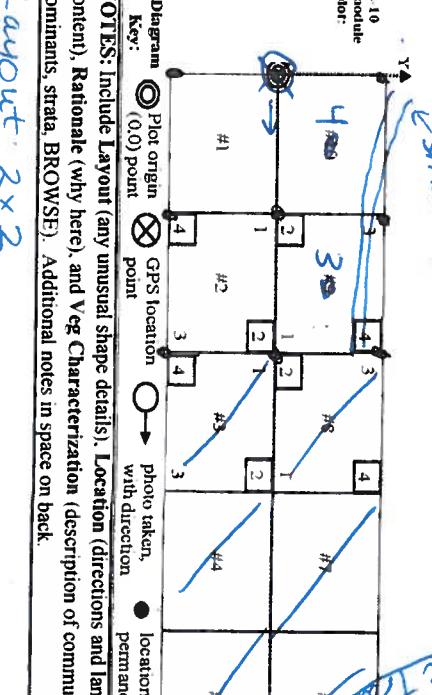
## Additional Comments:



CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

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Page 1 of 2

GENERAL INFORMATION		LOCATION	
Project Label:	PCAP	State:	OH County: Cuyahoga
Project Name:	01B2013	Quadrangle:	
<b>Plot Name:</b> Electric Berries <b>Plot No.:</b> 1335 <input type="checkbox"/> Level 4 (no nested corners sampled) <input checked="" type="checkbox"/> Level 5 (nested corners sampled)		<b>Local Place Name:</b> Parked at lot at Alexander & Dunham <b>Landowner:</b> CAMP <b>Data Confidentiality:</b> Check one: <input checked="" type="checkbox"/> Public data <input type="checkbox"/> Private Data	
<b>Date (mm/dd/yyyy):</b> 07/08/2013 <b>End date (if &gt; 1 day):</b> / / / /		<b>Reason:</b> If data not public why?	
<b>Party:</b> <b>S. Catella</b> Plot leader <b>S. Eisenbach</b> training me <b>C. DeRomo</b> woody <b>C. Lemmo</b> woody		<b>Source of coordinates:</b> <input type="checkbox"/> Lat/Long <input checked="" type="checkbox"/> UTM <input type="checkbox"/> StatePlane <input type="checkbox"/> MAP <input checked="" type="checkbox"/> GPS <b>Coordinate system:</b> <input checked="" type="checkbox"/> Coord. Units <input 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>Diagram Key:</b> 
<b>** Roles:</b> Co-leader, Asst. Guide, Owner, Taxonomist, etc.		<b>Datum:</b> <input checked="" type="checkbox"/> NAD83/WGS84 <input type="checkbox"/> NAD27 <b>GPS location in plot x=0 to 5, y=1.0+1:</b> x = <input checked="" type="checkbox"/> 0 y = <input checked="" type="checkbox"/> 0 (base of plot x=0, y=0)	<b>NOTES:</b> Include Layout (any unusual shape details), Location (directions and landscape content), Rationale (why here), and Veg Characterization (description of community, dominants, strata, BROWSE). Additional notes in space on back.
<b>PLOT NOT SAMPLED:</b> <input type="checkbox"/> Perm. water <input type="checkbox"/> Paved <input type="checkbox"/> Slope <input type="checkbox"/> Safety		<b>Latitude:</b> 41.36219 <b>Longitude:</b> 81.56582 <b>Coord. Accuracy:</b> <input checked="" type="checkbox"/> m <input type="checkbox"/> ft <input checked="" type="checkbox"/> 10% +-	<u>Layout: 2x2</u> <u>Location:</u> Parked at lot at Alexander Rd. and Dunham Rd. Walked North along APT to mowed <del>burn</del> under power lines. (Could also take Buckeye trail in towards <del>burn</del> ). Plot is ~50 m E where Buckeye trail crosses <del>burn</del> . Can park on APT.
<b>SAMPLING QUALITY*</b> <b>Effort Level:</b> <input checked="" type="checkbox"/> Very thorough <input type="checkbox"/> Accurate <input type="checkbox"/> Hurried		<b>GPS File Name:</b> 1335A <b>Plot size for cover data:</b> 0.0 4 (hectares) <b>X-axis Bearing of plot:</b> <input checked="" type="checkbox"/> 97°	<u>Rationale:</u> GRTS <u>Veg. Char:</u> Meadow plot, some wet species <u>Canopy:</u> absent <u>Shrub:</u> absent <u>Herb:</u> Changed to 1.5 m to accommodate larger plants like <i>Verbena strictiflora</i> , which they a few. Dominated by <i>Eleocharis</i> , <i>Polygonum</i> , <i>grasses</i> (many unknowns - 10 - <i>Dactylis</i> , <i>Poa</i> ) and <i>lichens</i> (Cetraria, <i>Amblocladus</i> , <i>cratula</i> , <i>scirpus atrovirens</i> , <i>leptodon</i> ).
<b>TAXONOMIC STANDARD</b> <b>Authority:</b> G&C Pub Date: 1998		<b>Intensive modules:</b> 2, 3, 8, 9, 11, 2, 3, 4 (EDIT IF MODIFIED) <b>Camera No.:</b> CS <b>Photo Nos.:</b> 2454 <b>Plot placement:</b> <input checked="" type="checkbox"/> GRTS <input type="checkbox"/> Representative	<input type="checkbox"/> Systematic (grid) <input type="checkbox"/> Capture specific feature <input type="checkbox"/> Other

Minimum required fields in **Bold** and Underlined

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



Project Name: On Be 2073

Page 2 of 2

Plot No: 1355

**MODIFIED NATURE/RESERVE CLASS\***

CODE (on separate form) 04a

Fit=

Conf=

COMMUNITY NAME: Old Field-Young

**HOMOGENEITY**

Homogeneous

Conspicuous inclusions

Compositional trend across the plot

Irregular/pattern mosaic

**HYDROLOGIC REGIME\***

Upland (seldom flooded)

Intermittently/seasonally saturated (seldom flooded)

Permanently/Semipermanent, saturated (dry <1/yr, seldom flooded)

Occasionally flooded (<1/yr)

Temporarily flooded (e.g. wind, storms)

(by default unless plot is a wetland)

**SALINITY\***

Saltwater

Brackish

Fresh

Upland (n/a)

- Intermittently flooded
- Semipermanently flooded
- Permanently flooded
- Tidal/Seiche flooded daily
- Tidal/Seiche flooded monthly
- Tidal/Seiche flooded irregular (e.g. wind, storms)
- Unknown

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

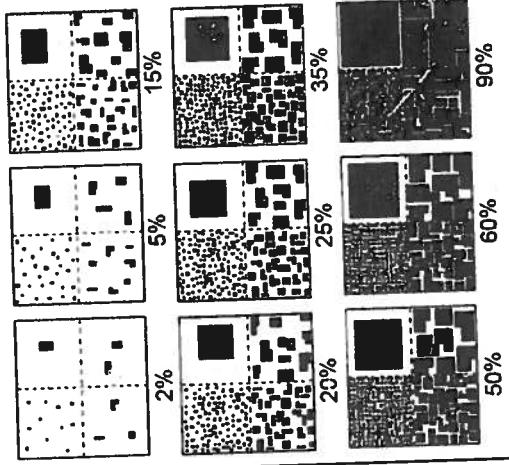
Plot is periodically mowed because it is located under power lines. Suspect heavy herbicide use as well as many plants were mowed. Browse throughout. Many invasives present in plot like *Hesperis* and *Alliaria*, *L. Japonica*, and *Phalaris*. Small ditch runs along edge of plot

SE



#### EXAMPLES OF PERCENT OF AREA COVERED

The following graphic can be used for various data elements to convey "Amount" or "Quantity". **NOTE:** Within any given plot, 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 vegetation, but careful examination may show preferential browse and/or browse lines for some species of plants.

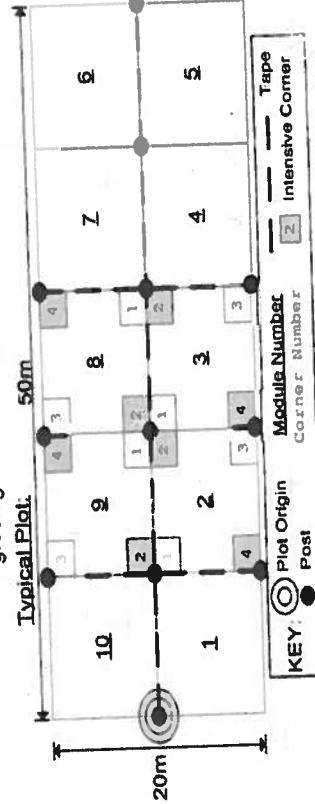
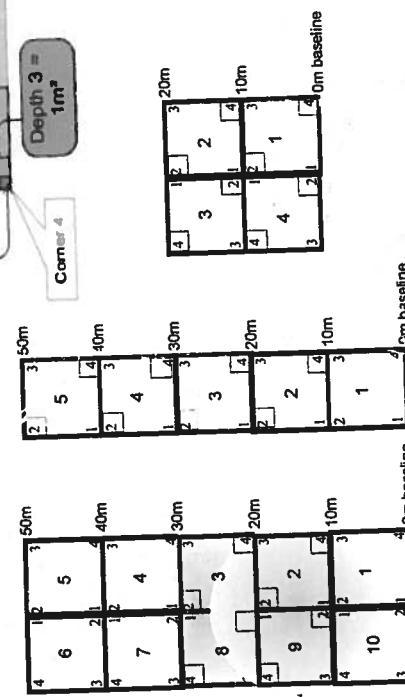
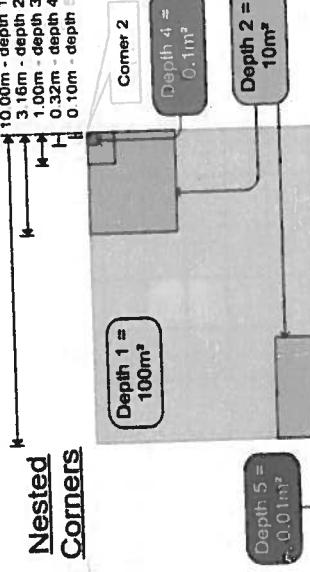
**MEDIUM HIGH** values include evidence of a browse line and 25 percent of stems browsed with very little vegetation regeneration evident. In this rating, for some species of plants, reproduction does not appear to occur or it is very severely limited.

**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.

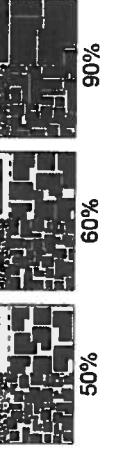
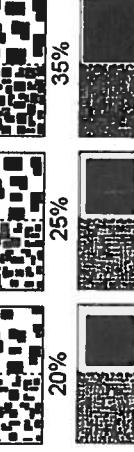
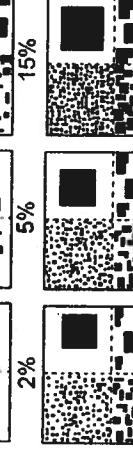
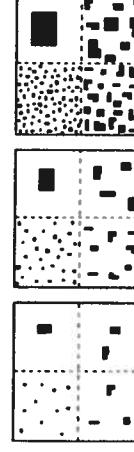
cover class	% cover	midpoint
1	solitary or few	0.0001
2	0-1%	0.005
3	1-2%	0.015
4	2-5%	0.035
5	5-10%	0.075
6	10-25%	0.175
7	25-50%	0.375
8	50-75%	0.625
9	75-95%	0.850
10	95-100%	0.975





#### EXAMPLES OF PERCENT OF AREA COVERED

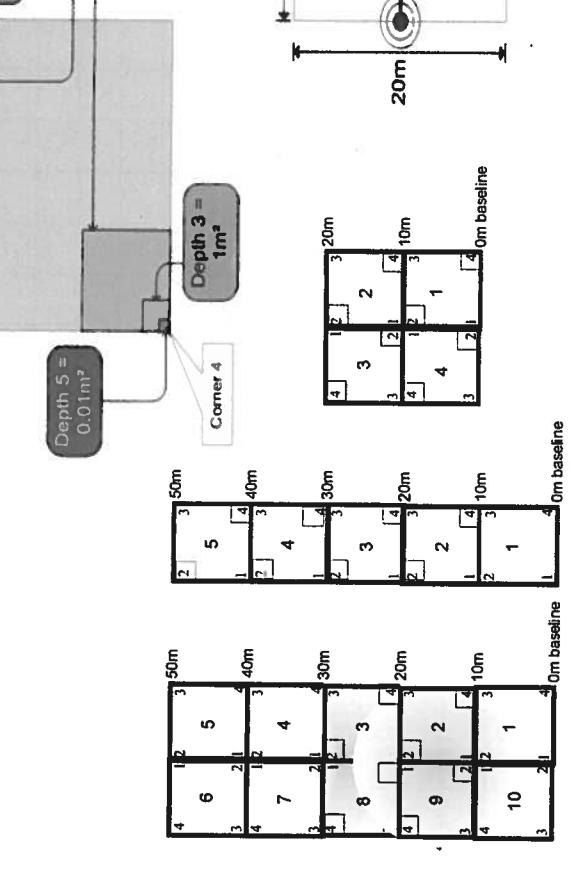
The following graphic can be used for various data elements to compare 'Amount' or 'Quantity'. **NOTE:** Within any given box, each quadrat contains the same total area covered, just different sized objects.



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



#### BROWSE RATING NARRATIVE DESCRIPTION

**LOW OR NONE:** there is no measurable browse line

**AND** there are very few or no plants 1-m nested quadrat and intensive module. In general, low values relate to less than 10 percent, by numbers of stems browsed.

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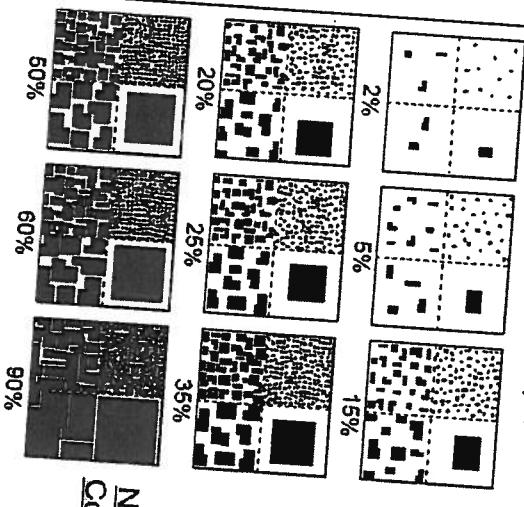
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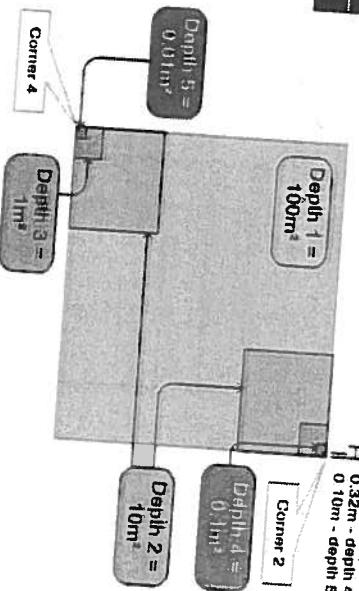
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### Nested Corners



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

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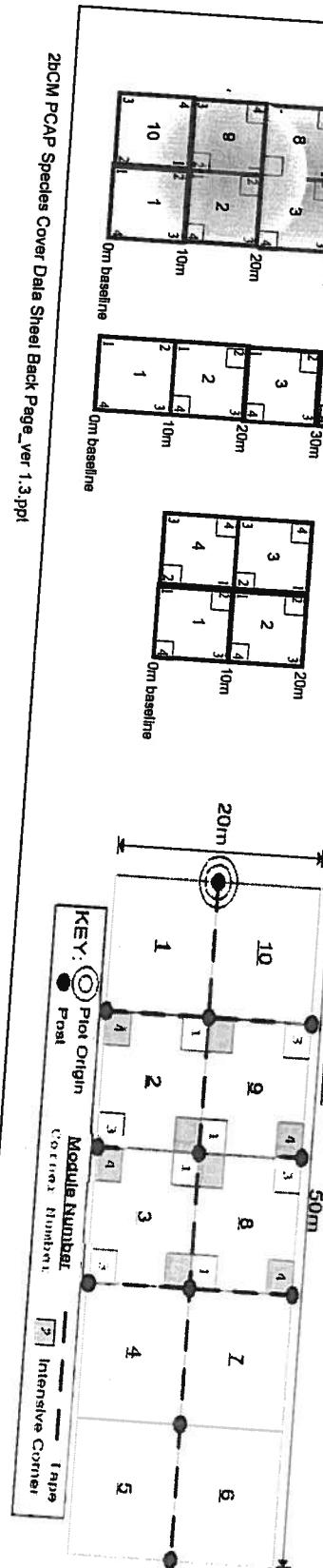
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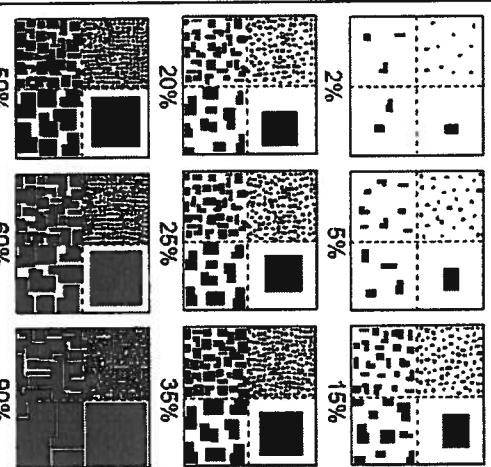
### Typical Plot:





#### EXAMPLES OF PERCENT OF AREA COVERED

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



#### Nested Corners



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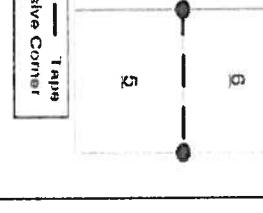
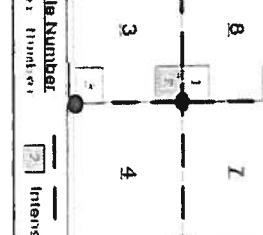
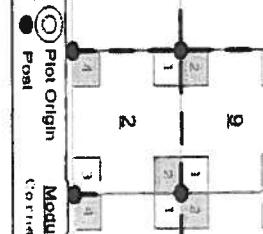
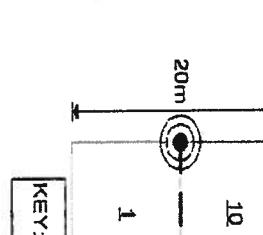
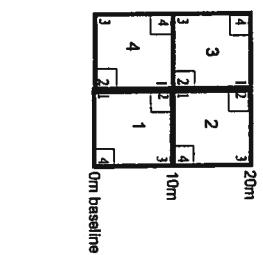
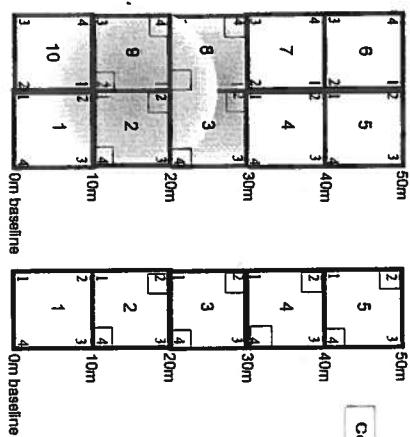
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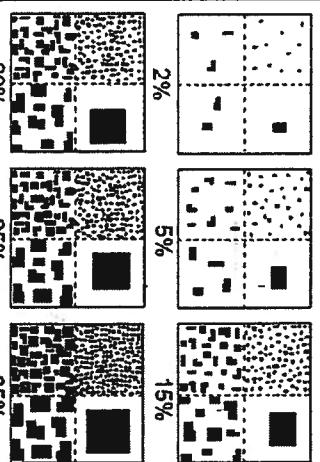
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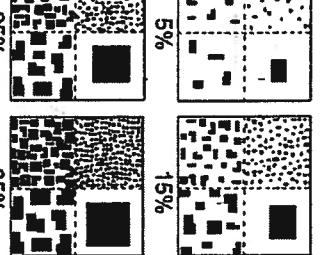


#### EXAMPLES OF PERCENT OF AREA COVERED

The following graphic can be used for tracking data elements to convey amount of 'Quantity'. **NOTE:** Within any given box, each quadrant contains the same quadrat area covered, just different stand stages.

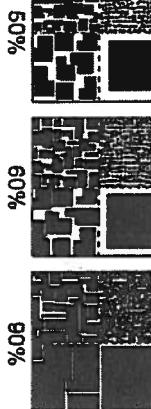


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## CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: Ol Be 2013

Plot No.: 1335

Page: 1

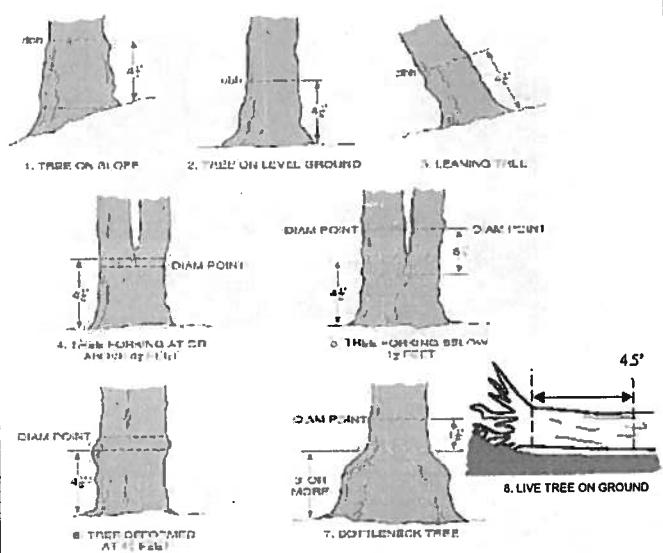
of



Explain subsample (additional room on back):

mod #	species	c	voucher#	# stems 0-1.4m browsed	% sub sample	# shrub clumps	size class (cm) woody stems >1.4m											cont See 1-27
							1	2	3	4	5	6	7	8	9	10	11	
1	<i>Rubus pensylvanicus</i>			11														
	<i>Vitis riparia</i>			1														
1	<i>Rosa multiflora</i>			2														
1	<i>Vitis aestivalis</i>			60														
1	<i>Rubus allegheniensis</i>			0														
1	<i>Lonicera maackii</i>			0														
1	<i>Lonicera japonica</i>			0														
2	<i>Rubus pensylvanicus</i>			11														
2	<i>Lonicera japonica</i>			0														
2	<i>Vitis riparia</i>			0														
2	<i>Rubus allegheniensis</i>			0														
3	<i>Rose multiflora</i>			0														
3	<i>Vitis aestivalis</i>			0														
3	<i>Rubus pensylvanicus</i>			11														
3	<i>Rubus allegheniensis</i>			0														
3	<i>Lonicera maackii</i>			0														
4	<i>Rubus allegheniensis</i>			0														
4	<i>Rubus pensylvanicus</i>			11														
4	<i>Vitis aestivalis</i>			0														
4	<i>Lonicera japonica</i>			0														
4	<i>Rubus pensylvanicus</i>			11														

### DBH Measurement Rules



### Woody Stem Deer Browse

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

Record using the tally system from 1 to 10



1



2



3



4



5

### ASH CANOPY CONDITION

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



A

B

C

D

E

### ASH CANOPY BREAKUP CONDITION (for dead trees):

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

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

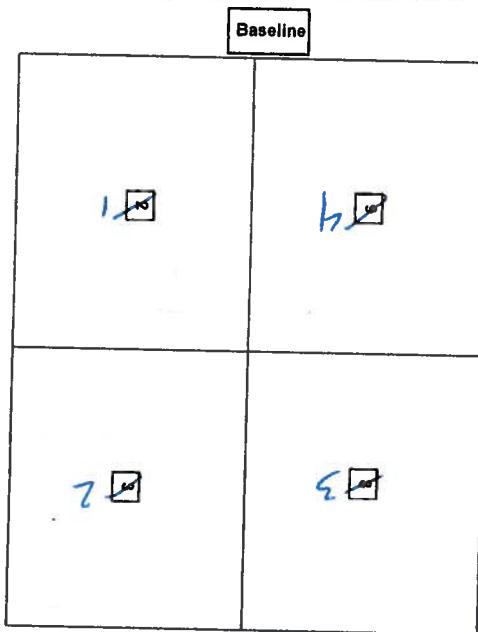
CLEVELAND METROPARKS Emerald Ash Borer - *Fraxinus* Sheet

Project Label: PCAP

Project Name: 01 BE 1335INTENSIVE MODULES ONLY TREES  $\geq 10\text{cm}$  ONLYPlot No.: 1335Date: 7/8/13

Page: 1 of 2

Tree ID	Species	Dead c	Voucher #	DBH (cm)	Ht @ DBH	Ash condition	ASH Only		
							# Dead holes	# Ext present	Epicormic Woodpecker holes
1									
2	NO Ash								
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

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 1.25mm x 21.5mm
- Woodpecker and epicormic marked present (1) or absent (0)

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



Tier 1: Early detection/ Rapid response		Presence				GPS	Presence
		NE	SE	SW	NW		X: yes
<i>Microstegium vimineum</i>	Japanese Stiltgrass						
<i>Ranunculus ficaria</i>	Lesser Celandine						
<i>Cynanchum louiseae</i> (vine)	Black Swallow-wort						
<i>Butomus umbellatus</i> (wetland)	Flowering Rush						
<i>Heracleum mantegazzianum</i>	Giant Hogweed						
Tier 2: Assess as Needed		# of Plants				comments	# of Plants
		NE	SE	SW	NW		1: 1-10 2: 11-50. 3: 51-100 4: 101-1,000 5: >1,000
<i>Acer platanoides</i>	Norway Maple						
<i>Ailanthus altissima</i>	Tree of Heaven						
<i>Lonicera japonica</i> (vine)	Japanese Honeysuckle	2	1	1	2		
<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)	2	1	2	1		
<i>Alnus glutinosa</i>	European Alder						
<i>Dipsacus laciniatus</i>	Cut-leaf Teasel						
<i>Elaeagnus umbellata</i>	Autumn Olive (shrub)	1	1				
<i>Lonicera maackii</i>	Amur Honeysuckle (shrub)		2	4			
<i>Euonymus fortunei</i>	Wintercreeper						
Tier 3: Presence is of Interest		# of Plants				comments	# of Plants
		NE	SE	SW	NW		1: 1-10 2: 11-50. 3: 51-100 4: 101-1,000 5: >1,000
<i>Convallaria majalis</i> (G-cover)	Lily of the Valley						
<i>Coronilla varia</i> (G-cover)	Crown Vetch						
<i>Eleutherococcus pentaphylloides</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>Viburnum plicatum</i>	Doublefile Viburnum (shrub)						
Tier 4: Widespread and abundant		Presence				comments	# of Plants
		NE	SE	SW	NW		1: 1-10 2: 11-50. 3: 51-100 4: 101-1,000 5: >1,000
<i>Alliaria petiolata</i>	Garlic Mustard	4	4	5	4		
<i>Ligustrum vulgare</i>	Common Privet (shrub)	1	1	1			
<i>L. morrowii</i> , <i>L. tatarica</i>	Bush Honeysuckles (shrub)	2		2	2		
<i>Phalaris arundinacea</i>	Reed Canarygrass	1	1		2		
<i>Phragmites australis</i> (wetland)	Phragmites						
<i>Polygonum cuspidatum</i>	Japanese Knotweed						
<i>Frangula alnus</i>	Glossy Buckthorn (shrub)		1				
<i>Rosa multiflora</i>	Multiflora Rose (shrub)	5	5	4	4		
<i>Typha angustifolia</i> , <i>T. x. glauca</i>	Cattails (wetland)						
<i>Cirsium arvense</i>	Canada Thistle	2	2	1	1		
<i>Dipsacus fullonum</i>	Common Teasel				1		
<i>Hesperis matronalis</i>	Dame's Rocket	2	2	2	2		
<i>Vinca minor</i> (G-cover)	Periwinkle	4					

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

**CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover and Earth Surface**  
 Project Label: **PCAP** Project Name: **DL Be 2013**

Plot No.: **1335**

Page: 1 of 1  
 Cleveland Metroparks

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

Module #	C7	Corner	Corner

**MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only**

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

Slope 1 = slight elevational grade across module (hill)      Slope 2 = falls on slope -20°      Slope 3 = maximum steepness that can be safely sampled ~45°

- 0 feature is absent or functionally absent from the wetland
- 3 feature is present in the wetland in very small amounts or if more common, of low quality
- 7 feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality
- 10 feature is present in moderate or greater amounts and of highest quality

MICROHABITAT CLASS (WETLANDS ONLY)		MICROHABITAT CLASS (WETLANDS ONLY)		MICROHABITAT CLASS (WETLANDS ONLY)	
(Fit= excellent & Fit and Confidence)		(Fit= excellent & Fit and Confidence)		(Fit= excellent & Fit and Confidence)	
<input type="checkbox"/> DEPRESSION		<input type="checkbox"/> DEPRESSION		<input type="checkbox"/> DEPRESSION	
<input type="checkbox"/> HOLLOWSEAMORPHIC CLASS (WETLANDS ONLY)		<input type="checkbox"/> HOLLOWSEAMORPHIC CLASS (WETLANDS ONLY)		<input type="checkbox"/> HOLLOWSEAMORPHIC CLASS (WETLANDS ONLY)	
<input type="checkbox"/> IMPOUNDMENT	<input type="checkbox"/> Beaver	<input type="checkbox"/> Beaver	<input type="checkbox"/> Beaver	<input type="checkbox"/> IMPOUNDMENT	<input type="checkbox"/> Beaver
<input type="checkbox"/> HUMAN				<input type="checkbox"/> HUMAN	
<input type="checkbox"/> RIVERINE	<input type="checkbox"/> Headwater	<input type="checkbox"/> Headwater	<input type="checkbox"/> Headwater	<input type="checkbox"/> RIVERINE	<input type="checkbox"/> Headwater
<input type="checkbox"/> MAN-MADE				<input type="checkbox"/> MAN-MADE	
<input type="checkbox"/> CHANNEL				<input type="checkbox"/> CHANNEL	
<input type="checkbox"/> SLOPE (ground water hydrology or on a phys. soil slope)				<input type="checkbox"/> SLOPE (ground water hydrology or on a phys. soil slope)	
<input type="checkbox"/> FRINGING	<input type="checkbox"/> Reservoir	<input type="checkbox"/> Natural Lake	<input type="checkbox"/> Reservoir	<input type="checkbox"/> FRINGING	<input type="checkbox"/> Natural Lake
<input type="checkbox"/> COASTAL (specify sub-class)				<input type="checkbox"/> COASTAL (specify sub-class)	
<input type="checkbox"/> BOG (strongly, moderately, weakly, ombrotrophic)				<input type="checkbox"/> BOG (strongly, moderately, weakly, ombrotrophic)	
<input type="checkbox"/> Ohio EPA VIBI Plant Community Class (WETLANDS ONLY)				<input type="checkbox"/> Ohio EPA VIBI Plant Community Class (WETLANDS ONLY)	
<input type="checkbox"/> FOREST	<input type="checkbox"/> swamp forest	<input type="checkbox"/> bog forest	<input type="checkbox"/> forest swamp	<input type="checkbox"/> FOREST	<input type="checkbox"/> swamp forest
<input type="checkbox"/> EMERGENT	<input type="checkbox"/> marsh	<input type="checkbox"/> wet meadow	<input type="checkbox"/> open bog	<input type="checkbox"/> EMERGENT	<input type="checkbox"/> marsh
<input type="checkbox"/> SHRUB	<input type="checkbox"/> shrub swamp	<input type="checkbox"/> tall sh. bog	<input type="checkbox"/> tall sh. fen	<input type="checkbox"/> SHRUB	<input type="checkbox"/> shrub swamp
<input type="checkbox"/> FIT		<input type="checkbox"/> FIT		<input type="checkbox"/> FIT	
<input type="checkbox"/> CONF		<input type="checkbox"/> CONF		<input type="checkbox"/> CONF	
<input type="checkbox"/> ASPECT		<input type="checkbox"/> ASPECT		<input type="checkbox"/> ASPECT	
<input type="checkbox"/> N		<input type="checkbox"/> N		<input type="checkbox"/> N	
<input type="checkbox"/> SLOPE		<input type="checkbox"/> SLOPE		<input type="checkbox"/> SLOPE	
<input type="checkbox"/> TSII**		<input type="checkbox"/> TSII**		<input type="checkbox"/> TSII**	
<input type="checkbox"/> LFI*		<input type="checkbox"/> LFI*		<input type="checkbox"/> LFI*	
<input type="checkbox"/> LFI is angle of slope to the horizon. TSII is angle formed by local slopes. For TSII measure angle from recorder's eye to eye of person standing ~10 m away.		<input type="checkbox"/> LFI is angle of slope to the horizon. TSII is angle formed by local slopes. For TSII measure angle from recorder's eye to eye of person standing ~10 m away.		<input type="checkbox"/> LFI is angle of slope to the horizon. TSII is angle formed by local slopes. For TSII measure angle from recorder's eye to eye of person standing ~10 m away.	

CROWN COVER (DENSITOMETER) Make 4 readings per module facing N, S, E, W. Place dot in corresponding space. (4 dots per grid square)					
Module	N	S	E	W	
1	93	96	96	96	
2	91	96	96	96	
3	81	96	96	96	
4	82	96	96	96	

C.W.D. - count for pieces with minimum 1m length							
no. of tussocks	no. of hummocks	no. macro. depressions	c & d (2-12 cm)	c & d (12-40 cm)	c & d (>40 cm)	microhab. interspers.	microhab. microhab.
uplands (Tip-ups)							
depth 3	depth 2	depth 1	depth 1	depth 1	depth 1	depth 1	SLOPE
1x1m	1x1m	1x1m	10x10m	10x10m	10x10m	10x10m	10x10m
Module#	corner	(count)	(count)	(count)	(count)	(rank)	(rank)
1	8	2	0	1	1	1	1
2	8	6	1	1	1	1	1
3	8	6	4	1	2	1	1
4	8	6	1	1	1	1	1

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

#### COVER BY STRATA

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

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

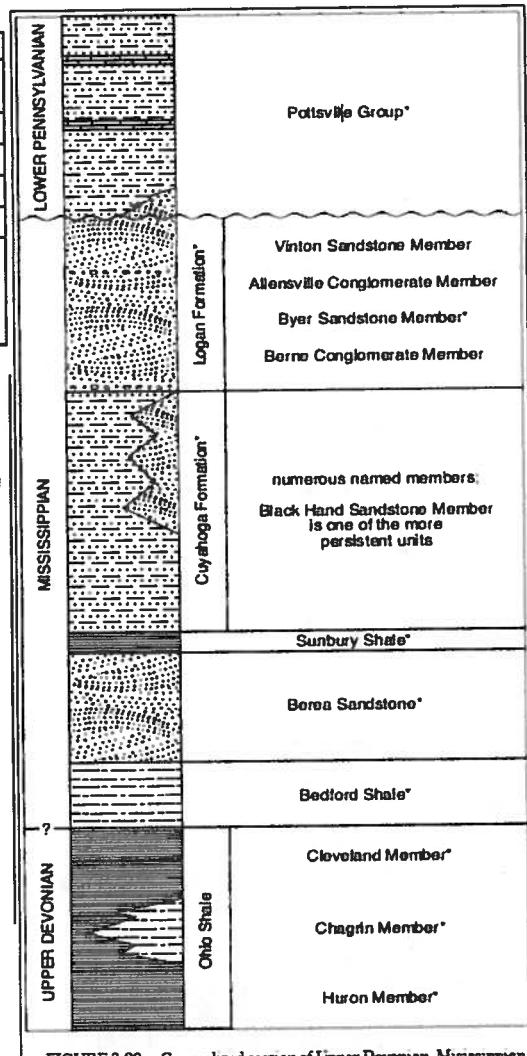
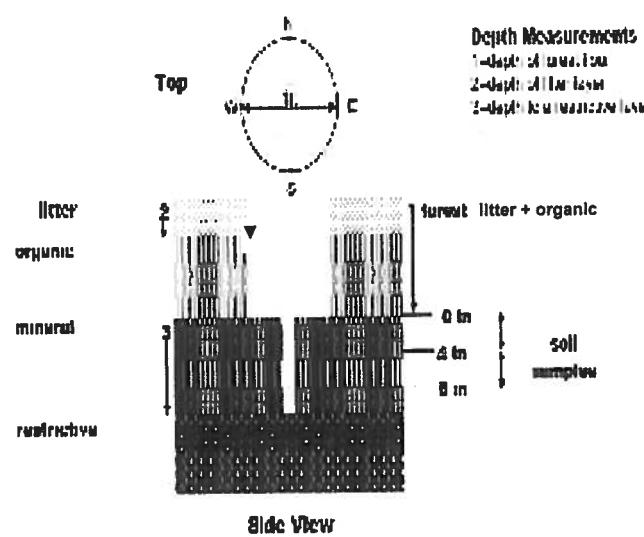


FIGURE 3-20.—Generalized section of Upper Devonian, Mississippian, and Lower Pennsylvanian formations in northeastern Ohio. Asterisks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses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

**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 10Yr 4/3  
 motte color **Q**  
 %anomie **Q**  
 oxid roots **Y** **N**  
 texture\* **1**  
 rebox features\*\* **Y** **N**  
 hydr cond. \*\*\* **I** **S** **M** **D**  
 20 cm matrix color 10Yr 4/3  
 motte color **Q**  
 oxid roots **Y** **N**  
 texture\* **1**  
 rebox features\*\* **Y** **N**  
 hydr. cond. \*\*\* **I** **S** **M** **D**

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

Soil Collection Module		Horizon (A, B, C)	
2,3,8,9 composted		A	
Web Soil Survey Information:			
Soil Series Type: <b>MTA - Mittenany Silt loam</b>			
Soil Series Source: Ohio Soil Survey			
Landform type: <b>Lake Plains</b>			
Depth to rest. Layer: <b>20" - 40" depth</b>			<b>16.2 cm</b>
Parent Material: <b>Till</b>			<b>bedrock</b>
DRAINAGE:			
Excessively dr. <input type="checkbox"/>	Somewhat excessively dr. <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"/>		
Impenetrable surface <input type="checkbox"/>			

EARTH SURFACE & GROUND COVER		TRAIL INFORMATION:	
Underlying Earth Surface*		Ground Cover	
(Sum = 100%)	percent	(Each ≤ 100%)	percent
Histosol	<b>Q</b>	Coarse Woody Debris***	<b>1</b>
Mineral Soil	<b>100</b>	Fine Woody Debris***	<b>5</b>
Gravel-Cobble*	<b>Q</b>	Litter <b>1</b>	<b>Q</b>
Boulder**	<b>Q</b>	Duff (Fern + Humus) <b>1</b>	<b>Q</b>
Bedrock	<b>Q</b>	Bryophyte- Lichen <b>1</b>	<b>Q</b>
*Gravel-Cobble = 1/16-10"	Water <b>1</b>	Gravel <b>1</b>	Deer <b>1</b>
**Boulder = > 10 in	Barren Soil <b>1</b>	Other <b>1</b>	<b>Q</b>
*** >5 cm in diameter	Road/Trail <b>1</b>		<b>Q</b>

**COVER BY STRATA**  
 estimate using midpoints of 5, 6, 7, 8, 13 %

STRATA		STAND SIZE
	Height Range (m)	Total Cover (%)
Tree	<b>1.5 - 5</b>	<b>Q</b>
Shrub	<b>1.5 - 5</b>	<b>Q</b>
Herb	<b>0 - 1.5</b>	<b>98%</b>
(Floating)*	-	<b>Q</b>
(Aquatic)*	-	<b>Q</b>

**No trails**

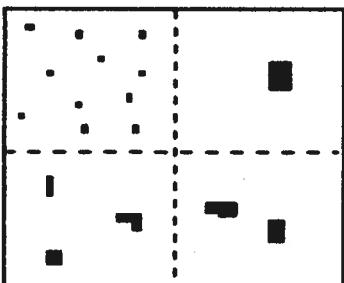
STAND SIZE	
>600 x plot size	<input type="checkbox"/>
> 100 x plot size	<input type="checkbox"/>
10-100 x plot size	<input type="checkbox"/>
3-10 x plot size	<input type="checkbox"/>
1-3 x plot size	<input type="checkbox"/>
< plot size	<input type="checkbox"/>

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

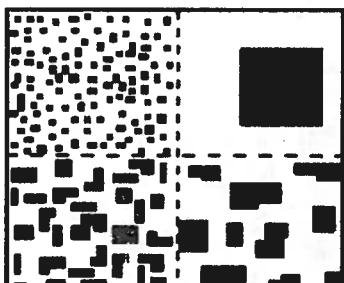
**Losings to worms (mod 3)**  
 in soil pit

**PERCENT MOTTLES (USE CLASS CODES):**

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



2%



20%

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

0= Organic

1= Loamy

2= Clayey

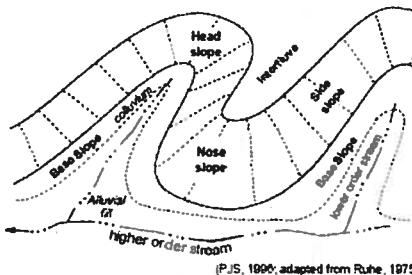
3= Sandy

4= Coarse Sand

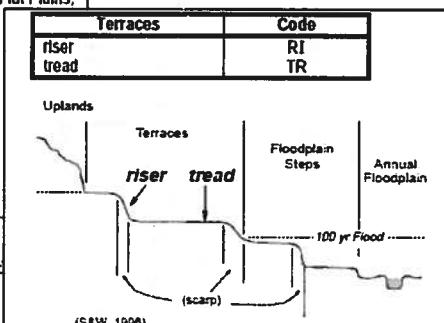
9= Not measured - make plot note

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

Hills	Code	NASIS
POP		
interfluve	IF	IF
head slope	HS	HS
nose slope	NS	NS
side slope	SS	SS
base slope	---	BS

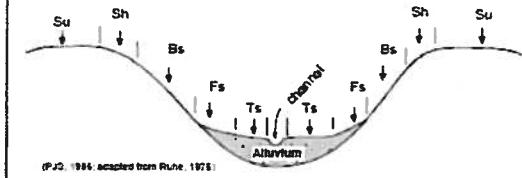


(PJS, 1990; adapted from Ruhe, 1975)



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

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



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

**UPLAND:** Not a wetland. Very rarely flooded.

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

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

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

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

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

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

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

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

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

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

Site ID: PCAP BE 1335

DATE: 07/08/2013

Location:

O AA Center O N O S O E O W

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

O Plot 1 O Plot 2 O Plot 3

## Buffer Natural Cover Strata

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

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

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

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

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

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

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

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

2428168304

Buffer Sample Plots 05/27/2011

Flag	Comments
1 <del>BUCKEYE TRAIL</del> <del>WATER</del> <del>OF CENTER POINT IN BP1</del> 2 <del>BUCKEYE TRAIL OF BP2 SITE JDLCS BUCKLEY LN.</del> 3 edge of BP3 is 2-hour ED (Dunham's)	

Latitude North 41.36156728 Longitude West 081.197	
Use Decimal Degrees; NAD83	
Flag	<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)
Location of coordinates (choose one):	

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

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

<b>PLOT COORDINATES</b>												
Fill bubble if present - Plot 1	1	2	3	Flag	Fill bubble if present - Plot 1	2	3	Flag	Fill bubble if present - Plot 1	2	3	Flag
<input type="checkbox"/> Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble												
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"/> Knotweed Water Hyacinth <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 type="checkbox"/> <input 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"/> Cheatgrass <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Tamarike <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: _____ Birdfoot Trefoil <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Common Reed <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Other: _____ Canada Thistle <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Leafy Spurge <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Other: _____												

FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)											
Site ID: CAP BE 1335      DATE: 5/26/13											
Renewed by (initials): _____											
<input type="checkbox"/> Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble											

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

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

Site ID: PCAP BE 13035

DATE: 07/08/2013

Location:

AA Center    ON    OS    OE    OW

Fill in bubble(s) if plot(s) could not be sampled and flag →  
 Plot 1    Plot 2    Plot 3

**Buffer Natural Cover Strata**

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

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

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

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

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

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

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

2428168304

Buffer Sample Plots 05/27/2011

PLOT COORDINATES											
Flag			Flag			Flag			Flag		
1 2 3			1 2 3			1 2 3			1 2 3		
<input checked="" type="checkbox"/> Confirms a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble											
Provide GPS coordinates at the center of the Buffer Plot (#3) at the rear end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble.											
If Buffer Plot 3 can not be accessed, take the coordinates at the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plots are centered on the Buffer Transects and the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" bubble, fill in the flag box, and describe where the coordinates were taken and why in the comment section below. The coordinates of the nearest practicable location can be either placed as close to the center of Plot 3 as possible or at the last accessible Buffer Plot.											
Location of coordinates (choose one):											
Latitude North <b>41.36219</b> Longitude West <b>081.56573</b> Use Decimal Degrees; NAD83											
Flag <b>1</b>											
<input checked="" type="checkbox"/> AA CENTER <input type="checkbox"/> S3 <input type="checkbox"/> E3 <input type="checkbox"/> W3 <input type="checkbox"/> Nearest practicable location (flag and comment below)											
Comments <b>AA center 10m west plot 122</b>											
FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)											
Site ID: <b>PCAP BE 135</b> Date: <b>07/08/2013</b>											
Revised by (initials): _____											

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

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

Site ID: PCAP BE 1335

DATE: 07/08/2013

Location:

O AA Center O N O S O E O W

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

O Plot 1 O Plot 2 O Plot 3

## Buffer Natural Cover Strata

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

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

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

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

Residential and Urban Stressors				Hydrology Stressors				Agricultural & Rural Stressors							
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	
Road - gravel	0	0	0		Ditches, Channelization	0	0	0		Pasture/Hay	0	0	0		
Road - two lane	0	0	0		Dike/Dam/Road/RR Bed (IMPEDE FLOW)	0	0	0		Range	0	0	0		
Road - four lane	0	0	0		Water Level Control Structure	0	0	0		Row Crops	0	0	0		
Parking Lot/Pavement	0	0	0		Excavation, Dredging	0	0	0		Fallow Field (RECENT-RESTING ROW CROP FIELD)	0	0	0		
Golf Course	0	0	0		Fill/Spoil Banks	0	0	0		Fallow Field (OLD - GRASS, SHRUBS, TREES)	0	0	0		
Lawn/Park	0	0	0		Freshly Deposited Sediment (UNVEGETATED)	0	0	0		Nursery	0	0	0		
Suburban Residential	0	0	0		Soil Loss/Root Exposure	0	0	0		Dairy	0	0	0		
Urban/Multifamily	0	0	0		Wall/Riprap	0	0	0		Orchard	0	0	0		
Landfill	0	0	0		Inlets, Outlets	0	0	0		Confined Animal Feeding	0	0	0		
Dumping	0	0	0		Point Source/Pipe (EFFLUENT OR STORMWATER)	0	0	0		Rural Residential	0	0	0		
Trash	0	0	0		Impervious surface input (SHEETFLOW)	0	0	0		Gravel Pit	0	0	0		
Other: _____	0	0	0		Other: _____	0	0	0		Irrigation	0	0	0		
Other: _____	0	0	0		Other: _____	0	0	0		Other: _____	0	0	0		

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

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

2428168304

Braille Eye Test (JUVs between 8P2 + 4P)

### Comments

Use Decimal Degrees: NAD83

Latitude North 41      36 34 27      Longitude West 081 56 06

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

Location of coordinates (choose one):

Flag

If Buffer Pilot 3 can not be accessed, take the nearest practicable location ALONG THE TRANSPECT. This is important because all Buffer Pilots are centred on the nearest practicable location of the transpect. Fill in the "nearest practicable location" bubble, fill in the flying 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 Pilot 3 as possible or at the center of the last accessible Buffer Pilot.

Provide GPS coordinates at the center of the Buoy (#3) at the far end of each Buoy transect and for the Buoy that contains the collection of the plot coordinates by filling in the appropriate bubble.

### Plot Coordinates

Flag	2	3	Flag	1	2	3	Flag	1	2	3	Flag
Eurasian Watermilfoil	○	○	Purple Loosestrife	○	○	○	Johnson Grass	○	○	○	Water Hyacinth
Yellow Flowering Heart	○	○	Japonese Knotweed	○	○	○	Multiflora Rose	○	○	○	Giant Salvinia
Garlic Mustard	●	○	Perennial Pepperweed	○	○	○	Common Buckthorn	○	○	○	Poison Hemlock
Giant Muskrat	●	○	Giant Reed	○	○	○	Himalayan Blackberry	○	○	○	Mile-A-Minute Weed
Birdsfoot Trefoil	○	○	Reed Canary Grass	○	○	○	Other	○	○	○	Canada Thistle
Leafy Spurge	○	○	Common Reed	○	○	○	Other	○	○	○	
Other	○	○		○	○	○		○	○	○	

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

Site ID: PCAP BE 1335 Date: 07/08/2013

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

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

Site ID: PCAP BE 1335

DATE: 07/09/2013

Location:

○ AA Center ○ N ○ S ○ E ○ W

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

○ Plot 1 ○ Plot 2 ○ Plot 3

## Buffer Natural Cover Strata

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

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

Buffer Plot 1	Canopy Type: <input checked="" type="radio"/> D <input type="radio"/> E		Absent: <input type="radio"/>	Buffer Plot 2	Canopy Type: <input checked="" type="radio"/> D <input type="radio"/> E		Absent: <input type="radio"/>	Buffer Plot 3	Canopy Type: <input checked="" type="radio"/> D <input type="radio"/> E		Absent: <input type="radio"/>
	Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N	Flag			Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N	Flag			Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N	Flag	
Big Trees (>0.3m DBH)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4		<input type="radio"/>	Big Trees (>0.3m DBH)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4		<input type="radio"/>	Big Trees (>0.3m DBH)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4		<input type="radio"/>
Small Trees (<0.3m DBH)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4		<input type="radio"/>	Small Trees (<0.3m DBH)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		<input type="radio"/>	Small Trees (<0.3m DBH)	<input type="radio"/> 0 <input checked="" 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"/> 0 <input checked="" 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"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		<input type="radio"/>	Woody Shrubs, Saplings (0.5m-5m HIGH)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4		<input type="radio"/>
Woody Shrubs, Saplings (<0.5m HIGH)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4		<input type="radio"/>	Woody Shrubs, Saplings (<0.5m HIGH)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4		<input type="radio"/>	Woody Shrubs, Saplings (<0.5m HIGH)	<input type="radio"/> 0 <input checked="" 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"/> 0 <input checked="" 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"/> 0 <input checked="" 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"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4		<input type="radio"/>
Bare ground	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4		<input type="radio"/>	Bare ground	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4		<input type="radio"/>	Bare ground	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4		<input type="radio"/>
Litter, duff	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4		<input type="radio"/>	Litter, duff	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4		<input type="radio"/>	Litter, duff	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4		<input type="radio"/>
Rock	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4		<input type="radio"/>	Rock	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4		<input type="radio"/>	Rock	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4		<input type="radio"/>
Water	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4		<input type="radio"/>	Water	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4		<input type="radio"/>	Water	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4		<input type="radio"/>
Submerged Vegetation	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4		<input type="radio"/>	Submerged Vegetation	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4		<input type="radio"/>	Submerged Vegetation	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" 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	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	
Road - gravel	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Ditches, Channelization	<input checked="" type="radio"/> 1	<input type="radio"/> 0 <input type="radio"/> 1	<input type="radio"/> 0 <input type="radio"/> 1	<input type="radio"/>	Pasture/Hay	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	
Road - two lane	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Dike/Dam/Road/RR Bed (IMPEDE FLOW)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Range	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	
Road - four lane	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Water Level Control Structure	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Row Crops	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	
Parking Lot/Pavement	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Excavation, Dredging	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Fallow Field (RECENT-RESTING ROW CROP FIELD)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	
Golf Course	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Fill/Spoil Banks	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Fallow Field (OLD - GRASS, SHRUBS, TREES)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	
Lawn/Park	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Freshly Deposited Sediment (UNVEGETATED)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Nursery	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	
Suburban Residential	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Soil Loss/Root Exposure	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Dairy	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	
Urban/Multifamily	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Wall/Riprap	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Orchard	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	
Landfill	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Inlets, Outlets	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Confined Animal Feeding	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	
Dumping	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Point Source/Pipe (EFFLUENT OR STORMWATER)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Rural Residential	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	
Trash	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Impervious surface Input (SHEETFLOW)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Gravel Pit	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	
Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Irrigation	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	
Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<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"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Forest Clear Cut	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Herbicide Use	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	
Gas Wells	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Forest Selective Cut	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Mowing/Shrub Cutting	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	
Mine (surface)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Tree Plantation	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Trails	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	
Mine (underground)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Tree Canopy Herbivory (INSECT)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Soil Compaction (ANIMAL OR HUMAN)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	
Military	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Shrub Layer Browsed (WILD OR DOMESTIC)	<input checked="" type="radio"/> 1 <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2			<input type="radio"/>	Offroad vehicle damage	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	
Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Highly Grazed Grasses (OVERALL <3" HIGH)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Soil erosion (FROM WIND, WATER, OR OVERUSE)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	
Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Recently Burned Forest Canopy	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	
Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Recently Burned Grassland (BLACKENED)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3			<input type="radio"/>	

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

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

2428168304



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

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

Site ID: PCAP BE 1335DATE: 07/09/2013

Location:

O AA Center O N O S O E O W

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

O Plot 1 O Plot 2 O Plot 3

## Buffer Natural Cover Strata

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

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

Buffer Plot 1	Canopy Type: D E		Absent: <input checked="" type="radio"/>	Buffer Plot 2	Canopy Type: D E		Absent: <input checked="" type="radio"/>	Buffer Plot 3	Canopy Type: D E		Absent: <input checked="" type="radio"/>
	Leaf Type: B N	Flag	Leaf Type: B N		Leaf Type: B N	Flag	Leaf Type: B N		Leaf Type: B 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 checked="" 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 checked="" 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 checked="" type="radio"/>
Small 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 checked="" type="radio"/>	Small 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 checked="" type="radio"/>	Small 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 checked="" type="radio"/>
Woody Shrubs, Saplings (0.5m-5m HIGH)	<input checked="" type="radio"/>	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input checked="" type="radio"/>	Woody Shrubs, Saplings (0.5m-5m HIGH)	<input checked="" type="radio"/>	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input checked="" type="radio"/>	Woody Shrubs, Saplings (0.5m-5m HIGH)	<input checked="" type="radio"/>	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input checked="" type="radio"/>
Woody Shrubs, Saplings (<0.5m HIGH)	<input type="radio"/> 0 <input checked="" type="radio"/>	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input checked="" type="radio"/>	Woody Shrubs, Saplings (<0.5m HIGH)	<input type="radio"/> 0 <input checked="" type="radio"/>	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input checked="" type="radio"/>	Woody Shrubs, Saplings (<0.5m HIGH)	<input type="radio"/> 0 <input checked="" type="radio"/>	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input checked="" type="radio"/>
Herbs, Forbs and Grasses	<input type="radio"/> 0 <input checked="" type="radio"/>	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input checked="" type="radio"/>	Herbs, Forbs and Grasses	<input type="radio"/> 0 <input checked="" type="radio"/>	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/>	<input checked="" type="radio"/>	Herbs, Forbs and Grasses	<input type="radio"/> 0 <input checked="" type="radio"/>	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/>	<input checked="" type="radio"/>
Bare ground	<input type="radio"/> 0 <input checked="" type="radio"/>	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input checked="" type="radio"/>	Bare ground	<input type="radio"/> 0 <input checked="" type="radio"/>	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input checked="" type="radio"/>	Bare ground	<input type="radio"/> 0 <input checked="" type="radio"/>	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input checked="" type="radio"/>
Litter, duff	<input type="radio"/> 0 <input checked="" type="radio"/>	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input checked="" type="radio"/>	Litter, duff	<input type="radio"/> 0 <input checked="" type="radio"/>	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input checked="" type="radio"/>	Litter, duff	<input type="radio"/> 0 <input checked="" type="radio"/>	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input checked="" type="radio"/>
Rock	<input type="radio"/> 0 <input checked="" type="radio"/>	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input checked="" type="radio"/>	Rock	<input type="radio"/> 0 <input checked="" type="radio"/>	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input checked="" type="radio"/>	Rock	<input type="radio"/> 0 <input checked="" type="radio"/>	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input checked="" type="radio"/>
Water	<input type="radio"/> 0 <input checked="" type="radio"/>	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input checked="" type="radio"/>	Water	<input type="radio"/> 0 <input checked="" type="radio"/>	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input checked="" type="radio"/>	Water	<input type="radio"/> 0 <input checked="" type="radio"/>	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Ditches, Channelization	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Pasture/Hay	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Road - two lane	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Dike/Dam/Road/RR Bed (IMPEDE FLOW)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Range	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Road - four lane	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Water Level Control Structure	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Row Crops	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Parking Lot/Pavement	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excavation, Dredging	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Fallow Field (RECENT-RESTING ROW CROP FIELD)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Golf Course	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Fill/Spoil Banks	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Fallow Field (OLD - GRASS, SHRUBS, TREES)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Lawn/Park	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Freshly Deposited Sediment (UNVEGETATED)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Nursery	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Suburban Residential	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Soil Loss/Root Exposure	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Dairy	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Urban/Multifamily	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Wall/Riprap	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Orchard	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Landfill	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Inlets, Outlets	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Confined Animal Feeding	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Dumping	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Point Source/Pipe (EFFLUENT OR STORMWATER)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Rural Residential	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Trash	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Impervious surface input (SHEETFLOW)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Gravel Pit	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Irrigation	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/>	<input checked="" 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 checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Forest Clear Cut	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Herbicide Use	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Gas Wells	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Forest Selective Cut	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Mowing/Shrub Cutting	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Mine (surface)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Tree Plantation	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Trails	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Mine (underground)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Tree Canopy Herbivory (INSECT)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Soil Compaction (ANIMAL OR HUMAN)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Military	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Shrub Layer Browsed (WILD OR DOMESTIC)	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Offroad vehicle damage	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: <u>Power Line</u>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Highly Grazed Grasses (OVERALL <3" HIGH)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Soil erosion (FROM WIND, WATER, OR OVERUSE)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Recently Burned Forest Canopy	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Recently Burned Grassland (BLACKENED)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/>	<input checked="" 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)

④ Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble

Site ID: 07/08/2013 DATE: 07/08/2013

Reviewed by (initials): \_\_\_\_\_

PLOT COORDINATES											
Flag			Flag			Flag			Flag		
Fill bubble if present - Plot 1	2	3	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"/>	Johnson Grass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Flag
Water Hyacinth	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Knotweed	<input type="checkbox"/>	<input type="checkbox"/>	Kudzu	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Flag
Yellow Floating Heart	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Japanese Knotweed	<input type="checkbox"/>	<input type="checkbox"/>	Mulitiflora Rose	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Flag
Giant Salvinia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Perennial Pepperweed	<input type="checkbox"/>	<input type="checkbox"/>	Common Buckthorn	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Flag
Giant Mustard	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Giant Reed	<input type="checkbox"/>	<input type="checkbox"/>	Himalayan Blackberry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Flag
Poison Hemlock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Chesnograss	<input type="checkbox"/>	<input type="checkbox"/>	Tamarisk	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Flag
Mile-A-Minute Weed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Reed Canary Grass	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Flag
Birdsfoot Trefoil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Common Reed	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Flag
Canada Thistle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Leaffy Spurge	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Flag
Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble.											
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 Transect and the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" bubble, fill in the flag box, and describe where the coordinates were taken and why in the comment section below. The coordinates of the nearest practicable location can be either placed as close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot.											
Location of coordinates (choose one):											
Latitude North 41 36 22' Longitude West 081 56 39.8' Use Decimal Degrees; NAD83											
Flag Comments											
Power Line/ houses											