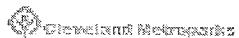


## CLEVELAND METROPARKS Plant Community Assessment Program: Quality Control Form



Project Label:

PCAP

Plot No: 3411

Date Sampled: 7/26/11

Lead: DS

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"/>	NYA
Cover by Strata? (confirm cover type)	Y <input checked="" type="radio"/> N <input type="radio"/>	
Soil samples collected with matching plot #.	Y <input checked="" type="radio"/> N <input type="radio"/>	
Vouchers labeled on datasheet with initials and number	Y <input checked="" type="radio"/> N <input type="radio"/>	
Vouchers labeled on collection bag	Y <input checked="" type="radio"/> N <input type="radio"/>	
Pink flags removed	Y <input checked="" type="radio"/> N <input type="radio"/>	
Data sheet QA before leaving site?	Y <input checked="" type="radio"/> N <input type="radio"/>	
Common equipment returned to tub.	Y <input checked="" type="radio"/> N <input type="radio"/>	
Data sheets scanned?	7/29/11	Enter date to left
Final data sheets scanned?		Enter date to left
Buffer Widths measured?	Y <input checked="" type="radio"/> N <input type="radio"/>	
Web Soil Survey	Y <input checked="" type="radio"/> N <input type="radio"/>	
Voucher Location	Refrigerator	Y <input checked="" type="radio"/> N <input type="radio"/>
(# vouchers collected)	Press (#)	Enter number to left
	Drier	Y <input checked="" type="radio"/> N <input type="radio"/>
	Identified	Y <input checked="" type="radio"/> N <input type="radio"/>
	Mounted	Y <input checked="" type="radio"/> N <input type="radio"/>
	Thrown away	Y <input checked="" type="radio"/> N <input type="radio"/>

## GRTS point verification: Is plot sampleable?

 Yes

Original GRTS point is sampleable

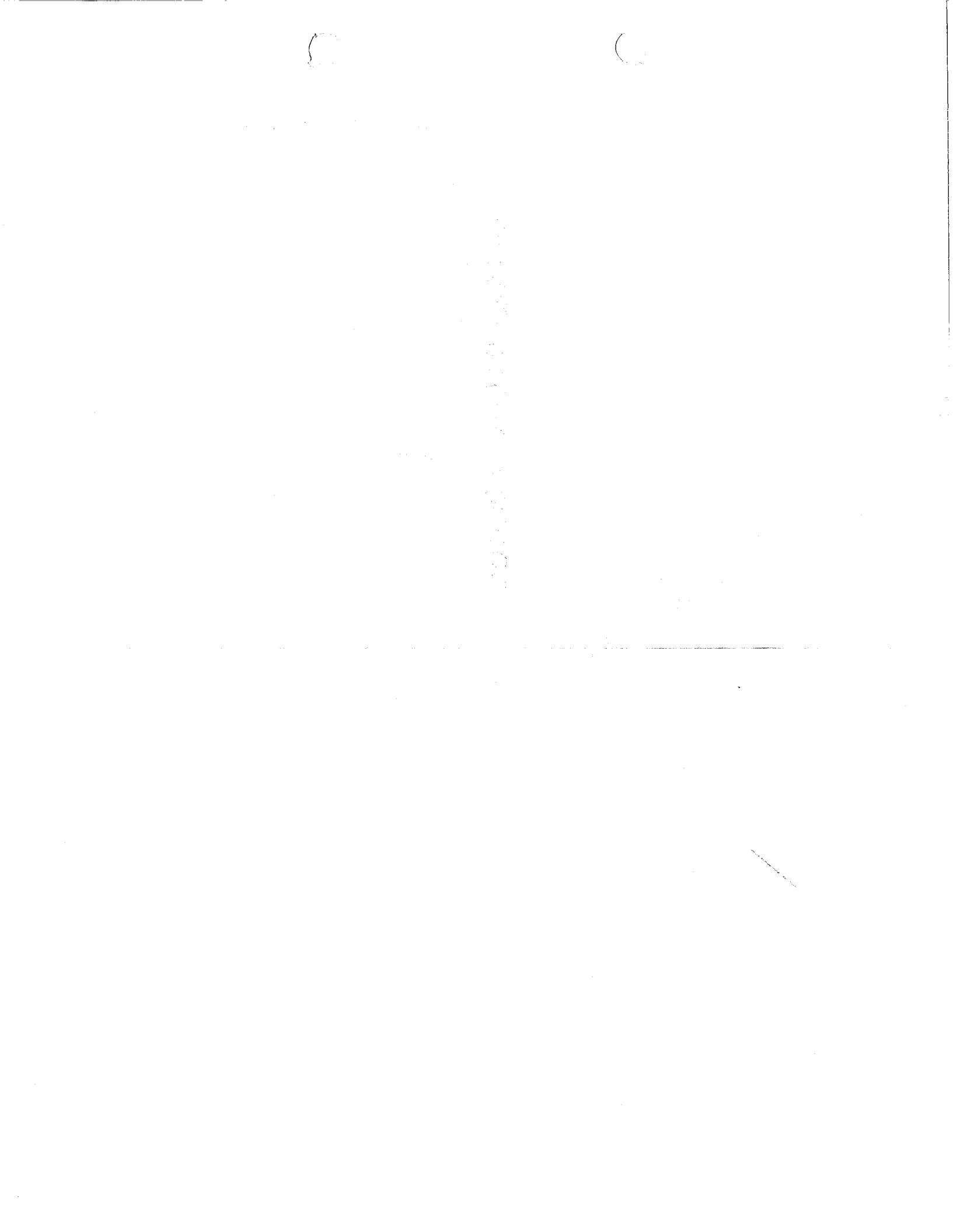
 No

Original GRTS point lands in a non-sampleable area (fill in category below)

- Point falls in a water (i.e. river, lake)
- Managed mowed area (i.e. golf course, picnic area, right-of-way)
- Paved area (i.e. parkinglot, road)
- Unsafe to sample (i.e. steep slope)
- Other

## Additional Comments:

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CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Page 1 of 2

# CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Page 1 of 2

<b>GENERAL INFORMATION</b>		<b>LOCATION</b>	
Project Label: PCAP	State: OH County: CUYAHOGA		
Project Name: <b>01/RE2011</b> <b>AIR PLANES IN THE DENSITY METER?</b>			
Plot No.: 3411			
<input type="checkbox"/> Level 4 (no nested corners sampled) <input checked="" type="checkbox"/> Level 5 (nested corners sampled)			
Date (mm/dd/yyyy): 07/26/2011			
End date (if > 1 day): / /			
Party			
<input checked="" type="checkbox"/> Role** <b>D. STOVER</b> Plot leader			
<input type="checkbox"/> Role** <b>J. LAUTERBACH</b> <b>ASST</b> <b>D. MACK</b> <b>SELS, STEMS, BEEVERS</b> <b>J. MURPHY</b> <b>II</b>			
** Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc.			
<b>PLOT NOT SAMPLED:</b>			
<input type="checkbox"/> Other <input type="checkbox"/> Perm. water <input type="checkbox"/> Paved <input type="checkbox"/> Slope <input type="checkbox"/> Safety			
<b>SAMPLING QUALITY*</b>			
<b>Effort Level:</b> <input checked="" type="checkbox"/> Very thorough <input type="checkbox"/> Accurate <input checked="" type="checkbox"/> Hurried			
<small>subjective evaluation of how much effort put into sampling. Hurried plots may still provide good data</small>			
<b>TAXONOMIC ACCURACY</b>			
<input checked="" type="checkbox"/> high <input type="checkbox"/> modera. <input type="checkbox"/> low <input type="checkbox"/> not simpl <input checked="" type="checkbox"/> vascular <input type="checkbox"/> <input checked="" type="checkbox"/> bryo <input type="checkbox"/> <input checked="" type="checkbox"/> lichen			
<b>TAXONOMIC STANDARD</b>			
Authority: G&C    Pub Date: 1998			
<b>LOCATION</b>			
<b>Local Place Names:</b> <b>SPAFFORD RD.</b> <b>Quadrangle:</b> <b>NORTHERN CUYAHOGA</b>			
<b>Landowner:</b> <b>CLE METRO</b> <b>X-axis Bearing of plot:</b> <b>[ 3 ] °</b>			
<b>Data Confidentiality:</b> <small>Check one: <input checked="" type="checkbox"/> Public data    <input type="checkbox"/> Private Data</small>			
<input type="checkbox"/> Fuzz 100m <input type="checkbox"/> Fuzz 250m <input type="checkbox"/> Fuzz 500m			
<b>Reason:</b> <small>If data not public why?</small>			
<b>Source of coordinates</b> <input type="checkbox"/> MAP <input checked="" type="checkbox"/> GPS			
<small>GPS location in plot x=0 to 5, y=-1,0,+1):        x = 0    y = 0    (base of plot x=0, y=0)</small>			
<b>Coordinate system:</b> <u>Coord. Units</u>			
<input checked="" type="checkbox"/> Lat/Long <input type="checkbox"/> UTM <input type="checkbox"/> StatePlane <input checked="" type="checkbox"/> deg <input type="checkbox"/> deg min <input type="checkbox"/> Other (specify) <input checked="" type="checkbox"/> m <input type="checkbox"/> ft <input type="checkbox"/>			
<b>Datum:</b> <input checked="" type="checkbox"/> NAD83/WGS84 <input type="checkbox"/> NAD27			
<b>Latitude:</b> <b>41.39462</b> <b>Longitude:</b> <b>81.88487</b> <b>Coord. Accuracy:</b> <input checked="" type="checkbox"/> m <input type="checkbox"/> ft <input type="checkbox"/> + - 1.9			
<small>GPS File Name: 3411_A</small>			
<b>Plot size for cover data:</b> <b>0.1</b> (hectares)			
<small>Plot size for cover data: 0.1 (hectares)</small>			
<small>Stems not sampled on this plot. <input type="checkbox"/> Stems absent</small>			
<input checked="" type="checkbox"/> Stems present <u>Plot size stems:</u> <b>0.1</b> (ha)			
<b>Depth:</b> <b>(1-5): 4</b>			
<b>Intensive modules:</b> 2, 3, 8, 9 <small>(EDIT IF MODIFIED)</small>			
<b>Camera No.:</b> <b>3</b>			
<b>Photo Nos.:</b> <b>C3 0543</b>			
<small>VEG - <del>Forest</del> forest with <del>Lindens</del> <del>lindens</del> Norway spruce plantation in flood forest. <del>Lindens</del> lindens, <del>Maximus</del> also in can. <del>Scirrhopy</del> <del>Scirrhopy</del> Acer saccharum, A. negundo, and Ulmus spp.; <del>Lindens</del> lindens, <del>lindens</del> lindens (this issue)</small>			

Minimum required fields in **Bold** and Underlined

by recent floods; mostly *Polygonum*, tree seedlings and weedy disturbance spp. Browse



CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet

Project Label:

PCAP

Project name:

Plot no.: 3411

15

Total modules: 10 Intensive modules: 4  
Visual est. % open water entire site: 6 Visual est. %unveg.o.w. entire site: 17%

Plot configuration: 2x5  
Visual est. %invasives entire site: 10%

Net area (ha): 0.1 ha

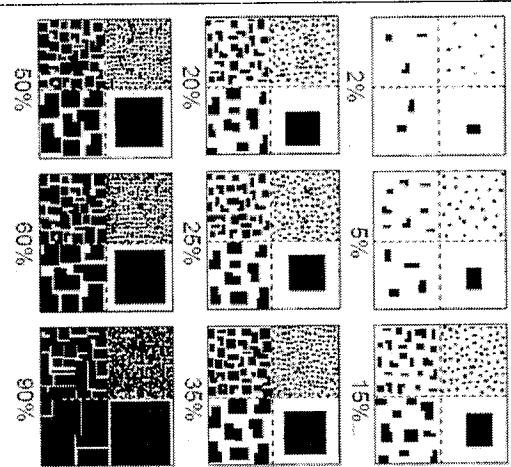
Glendale  
Independent

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

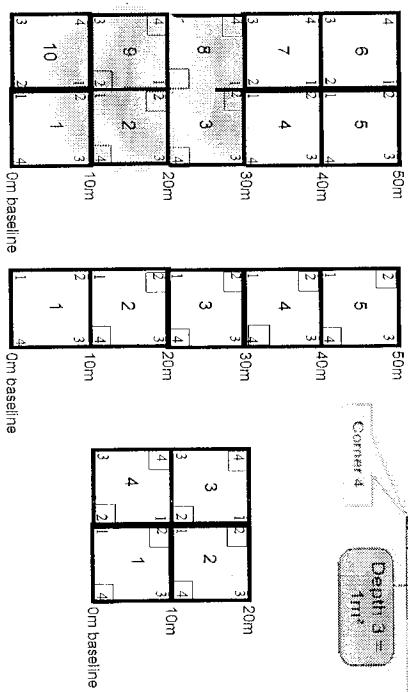
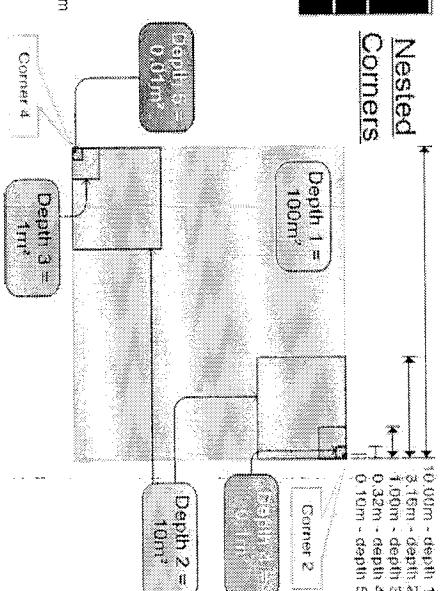
Strata - Cov. entire plot									
T	S	H	(F)	(A)	Br	Species	c	Voucher #	%unveg. litter (bare litter)
89						<i>Picea abies</i>			1 (0
61	1	1				<i>Acer saccharum</i>	3	7	4
53						<i>Ulmus americana</i>	4	7	4
41						<i>Vitis riparia</i>	5	5	4
43	1					<i>Aesculus glabra</i>	2	4	1
62						<i>Lindera benzoin</i>	1	2	2
32						<i>Leersia virginica</i>	4	2	3
22						<i>Cirsium heterophyllum</i>	4	2	2
12						<i>Darmera peltata</i>	3	2	1
32						<i>Fraxinus sp.</i>	3	2	3
22						<i>Impatiens capensis</i>	2	2	2
51	-					<i>Liriomyza tulipifera</i>	2	2	3
						<i>Galium sp.</i>	3	1	4
						<i>Arisaema dracontium</i>	2	2	3
						<i>Apocynum cannabinum</i>	3	1	2
						<i>Moss sp.</i>	2	1	3
						<i>Polygonum sp.</i>	2	2	2
						<i>Geum canadense</i>	2	2	2
						<i>Pilea pumila</i>	2	2	2
						<i>Quercus sp.</i>	2	1	2
						<i>Alticaria petiolaris</i>	2	1	1
						<i>Polygonum virginianum</i>	2	1	3
						<i>Vicia sp.</i>	2	1	1
						<i>Amphicarpus bracteata</i>	2	1	1
						<i>Sonicula trifoliata</i>	2	2	4

### EXAMPLES OF PERCENT OF AREA COVERED

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



### Nested Corners



### BROWSE RATING NARRATIVE DESCRIPTION

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

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

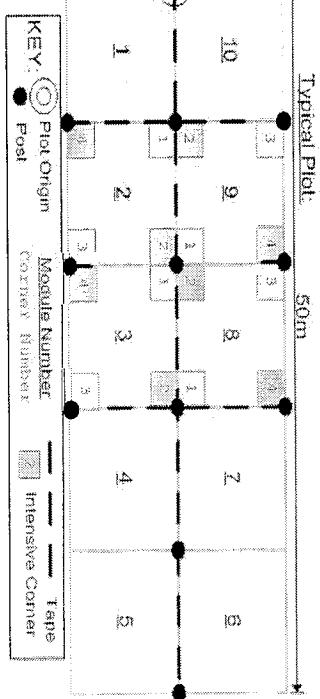
and arrowwood viburnum exhibit browse.

**MEDIUM:** browse affects greater than 10 percent and less than 25 percent of stems in the 1 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. Browse line may be 5 to 6 feet in height with no or little green growth beneath.

### Typical Plot:



**KEY:**  
 ● Plot Origin  
 ○ Module Number  
 ■ Tape  
 □ Intensive Corner  
 1 On baseline  
 2 On baseline

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

Page 2 of 4

Project Label: PCAP Project name: 01 BR 2011 Plot no.: 3411

Total modules:

Visual est. % open water entire site:

Intensive modules:

Visual est. %invasives entire site:

Plot configuration:

Plot area (ha):



Cleveland  
Metroparks

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

Strata - Cov. entire plot

T S H (F)(A) Br

Species

C

Voucher #

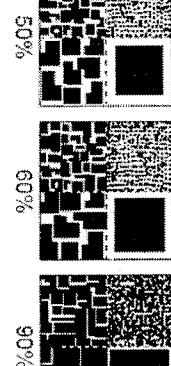
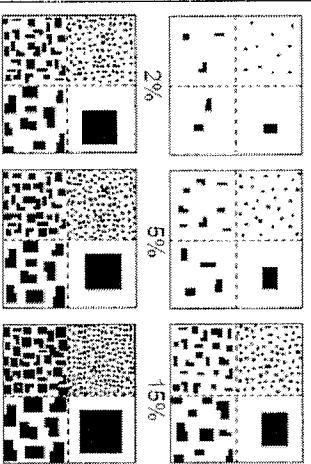
depth

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depth

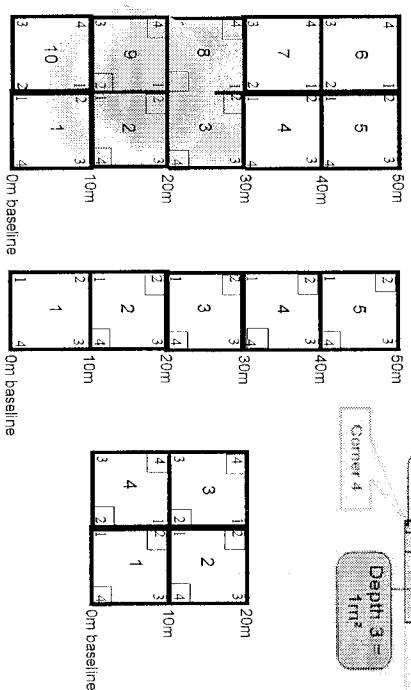
#### EXAMPLES OF PERCENT OF AREA COVERED

The following graphic can be used for various data segments to convey "amount of 'Quantity'". **NOTE:** Within any given box, each quadrant contains the same data but seen covered just different sized objects.

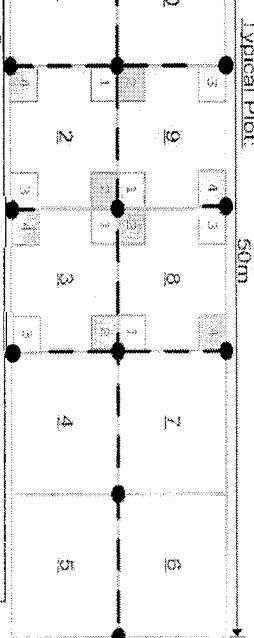


#### Nested Corners

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



**KEY:** Plot Origin Module Number Tape Post Corner Intensive Corner



#### BROWSE RATING NARRATIVE DESCRIPTION

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

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

**MEDIUM:** browse affects greater than 10 percent and less than 25 percent of stems in the 1 m<sup>2</sup> nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of vegetation, but careful examination may show preferential browse and/or browse lines for some species of plants.

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

**HIGH:** greater than 25 percent of the stems of plants in the 1 m<sup>2</sup> nested quadrat and intensive module AND a browse line is evident.

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

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

Project Label: PCAP

Project name: 01 RR 2011

Plot no.: 3411

Page 3 of 4

Total modules:

Visual est. % open water entire site:

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

Visual est. %invasives entire site:

Plot configuration:

Plot area (ha):



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

%unvegetated open water  
%unveg. ground (bare soil)  
%unveg. litter (bare litter)

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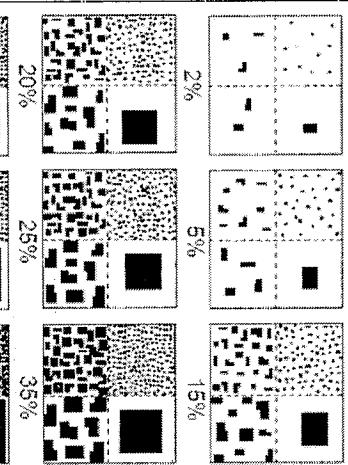
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### EXAMPLES OF PERCENT OF AREA COVERED

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



### Nested Corners

cover class	% cover	mid point
1	solitary or few	0.0001
2	0-1%	0.005
3	1-2%	0.015
4	2-5%	0.035
5	5-10%	0.075
6	10-25%	0.175
7	25-50%	0.375
8	50-75%	0.525
9	75-95%	0.850
10	95-100%	0.975

### BROWSE RATING NARRATIVE DESCRIPTION

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

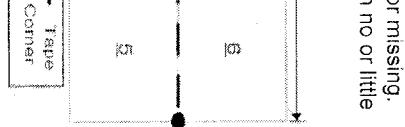
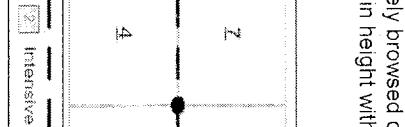
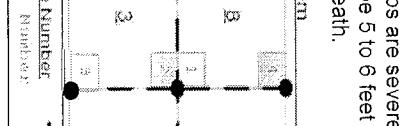
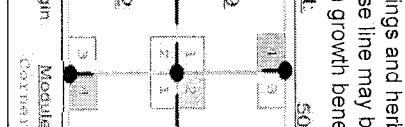
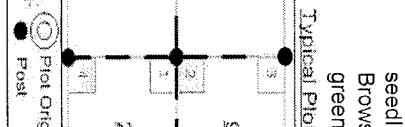
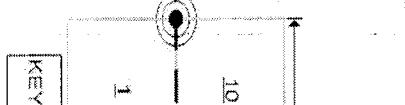
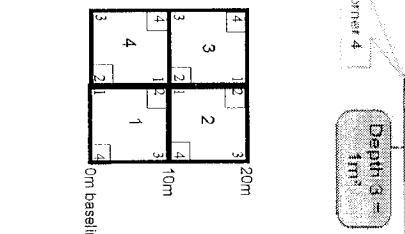
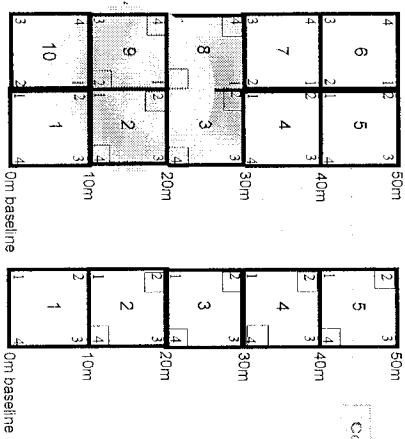
**MEDIUM LOW** values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse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



## CLIVE PLAIN METRO PARKS Plant Community Assessment Program Species Cover Data Sheet

Project label: PCAP

Total modules: 10

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

Project name: 01 RR 2011

Plot no.: 3411

Plot area (ha): 0.1 ha

Page 4 of 4

Intensive modules: 4

Plot configuration: 2X5

Visual est. % invasives entire site: \_\_\_\_\_

Estimate for each Intensive module:

mod corner mod corner mid corner mod corner mod corner mod corner mod corner mod corner

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

mod corner mod corner mid corner mod corner mod corner mod corner mod corner

mod corner mod corner mid corner mod corner mod corner

mod corner mod corner

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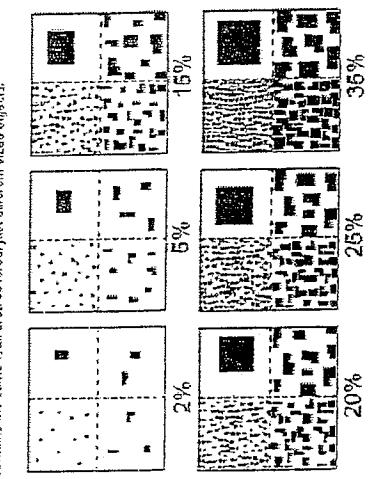
mod corner mod corner

Not estimated

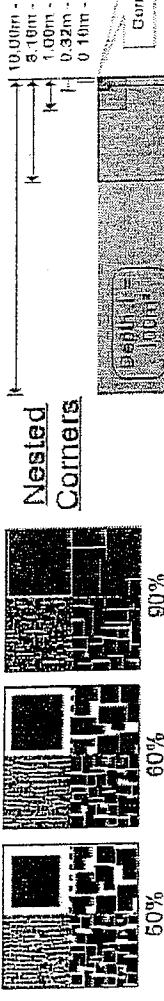
1. *Asimina triloba*2. *Ostrya virginiana* ~~*raspum*~~ *trifoliatum*3. *Aegopodium podagraria*4. *Symplocarpum lateriflorum*5. *Ranunculus hispida*6. *Lycopus sp.*7. *Vinca minor*8. *Fraxinus americana*9. *Baenmeria cylindrica*10. *Urtica dioica*11. *Urtica dioica*12. *Urtica dioica*13. *Urtica dioica*14. *Urtica dioica*15. *Urtica dioica*16. *Urtica dioica*17. *Urtica dioica*18. *Urtica dioica*19. *Urtica dioica*20. *Urtica dioica*21. *Urtica dioica*22. *Urtica dioica*23. *Urtica dioica*24. *Urtica dioica*25. *Urtica dioica*26. *Urtica dioica*27. *Urtica dioica*28. *Urtica dioica*29. *Urtica dioica*30. *Urtica dioica*31. *Urtica dioica*32. *Urtica dioica*33. *Urtica dioica*34. *Urtica dioica*35. *Urtica dioica*36. *Urtica dioica*37. *Urtica dioica*38. *Urtica dioica*39. *Urtica dioica*40. *Urtica dioica*41. *Urtica dioica*42. *Urtica dioica*43. *Urtica dioica*44. *Urtica dioica*45. *Urtica dioica*46. *Urtica dioica*47. *Urtica dioica*48. *Urtica dioica*49. *Urtica dioica*50. *Urtica dioica*51. *Urtica dioica*52. *Urtica dioica*53. *Urtica dioica*54. *Urtica dioica*55. *Urtica dioica*56. *Urtica dioica*57. *Urtica dioica*58. *Urtica dioica*59. *Urtica dioica*60. *Urtica dioica*61. *Urtica dioica*62. *Urtica dioica*63. *Urtica dioica*64. *Urtica dioica*65. *Urtica dioica*66. *Urtica dioica*67. *Urtica dioica*68. *Urtica dioica*69. *Urtica dioica*70. *Urtica dioica*71. *Urtica dioica*72. *Urtica dioica*73. *Urtica dioica*74. *Urtica dioica*75. *Urtica dioica*76. *Urtica dioica*77. *Urtica dioica*78. *Urtica dioica*79. *Urtica dioica*80. *Urtica dioica*81. *Urtica dioica*82. *Urtica dioica*83. *Urtica dioica*84. *Urtica dioica*85. *Urtica dioica*86. *Urtica dioica*87. *Urtica dioica*88. *Urtica dioica*89. *Urtica dioica*90. *Urtica dioica*91. *Urtica dioica*92. *Urtica dioica*93. *Urtica dioica*94. *Urtica dioica*95. *Urtica dioica*96. *Urtica dioica*97. *Urtica dioica*98. *Urtica dioica*99. *Urtica dioica*100. *Urtica dioica*101. *Urtica dioica*102. *Urtica dioica*103. *Urtica dioica*104. *Urtica dioica*105. *Urtica dioica*106. *Urtica dioica*107. *Urtica dioica*108. *Urtica dioica*109. *Urtica dioica*110. *Urtica dioica*111. *Urtica dioica*112. *Urtica dioica*113. *Urtica dioica*114. *Urtica dioica*115. *Urtica dioica*116. *Urtica dioica*117. *Urtica dioica*118. *Urtica dioica*119. *Urtica dioica*120. *Urtica dioica*121. *Urtica dioica*122. *Urtica dioica*123. *Urtica dioica*124. *Urtica dioica*125. *Urtica dioica*126. *Urtica dioica*127. *Urtica dioica*128. *Urtica dioica*129. *Urtica dioica*130. *Urtica dioica*131. *Urtica dioica*132. *Urtica dioica*133. *Urtica dioica*134. *Urtica dioica*135. *Urtica dioica*136. *Urtica dioica*137. *Urtica dioica*138. *Urtica dioica*139. *Urtica dioica*140. *Urtica dioica*141. *Urtica dioica*142. *Urtica dioica*143. *Urtica dioica*144. *Urtica dioica*145. *Urtica dioica*146. *Urtica dioica*147. *Urtica dioica*148. *Urtica dioica*149. *Urtica dioica*150. *Urtica dioica*151. *Urtica dioica*152. *Urtica dioica*153. *Urtica dioica*154. *Urtica dioica*155. *Urtica dioica*156. *Urtica dioica*157. *Urtica dioica*158. *Urtica dioica*159. *Urtica dioica*160. *Urtica dioica*161. *Urtica dioica*162. *Urtica dioica*163. *Urtica dioica*164. *Urtica dioica*165. *Urtica dioica*166. *Urtica dioica*167. *Urtica dioica*168. *Urtica dioica*169. *Urtica dioica*170. *Urtica dioica*171. *Urtica dioica*172. *Urtica dioica*173. *Urtica dioica*174. *Urtica dioica*175. *Urtica dioica*176. *Urtica dioica*177. *Urtica dioica*178. *Urtica dioica*179. *Urtica dioica*180. *Urtica dioica*181. *Urtica dioica*182. *Urtica dioica*183. *Urtica dioica*184. *Urtica dioica*185. *Urtica dioica*186. *Urtica dioica*187. *Urtica dioica*188. *Urtica dioica*189. *Urtica dioica*190. *Urtica dioica*191. *Urtica dioica*192. *Urtica dioica*193. *Urtica dioica*194. *Urtica dioica*195. *Urtica dioica*196. *Urtica dioica*197. *Urtica dioica*198. *Urtica dioica*199. *Urtica dioica*200. *Urtica dioica*201. *Urtica dioica*202. *Urtica dioica*203. *Urtica dioica*204. *Urtica dioica*205. *Urtica dioica*206. *Urtica dioica*207. *Urtica dioica*208. *Urtica dioica*209. *Urtica dioica*210. *Urtica dioica*211. *Urtica dioica*212. *Urtica dioica*213. *Urtica dioica*214. *Urtica dioica*215. *Urtica dioica*216. *Urtica dioica*217. *Urtica dioica*218. *Urtica dioica*219. *Urtica dioica*220. *Urtica dioica*221. *Urtica dioica*222. *Urtica dioica*223. *Urtica dioica*

#### EXAMPLES OF PERCENT OF AREA COVERED

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



cover class	% cover	midpoint
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10	95-100%	0.975

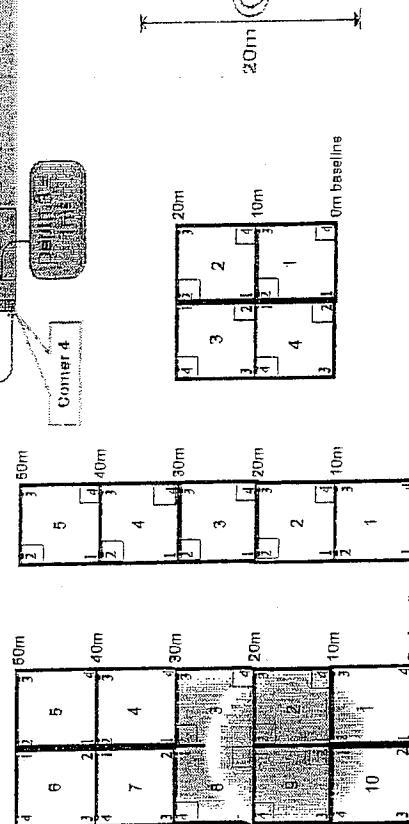


**Nested Corners**  
15%  
5%  
20%  
25%  
35%  
60%  
90%

10.00m - depth 1  
8.00m - depth 2  
6.00m - depth 3  
4.00m - depth 4  
0.33m - depth 5  
0.16m - depth 6

Depth 1 =  
10m  
Depth 2 =  
10m  
Depth 3 =  
10m  
Depth 4 =  
10m  
Depth 5 =  
10m  
Depth 6 =  
10m

Corner 1  
Corner 2  
Corner 3  
Corner 4



#### 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.

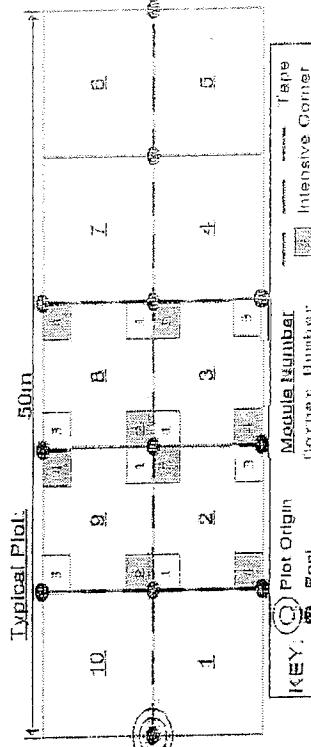
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## CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

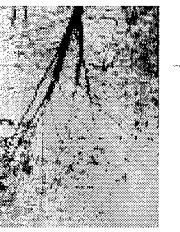
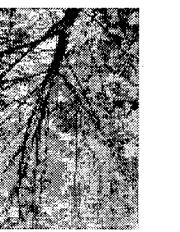
Project Name: OLRP 2011

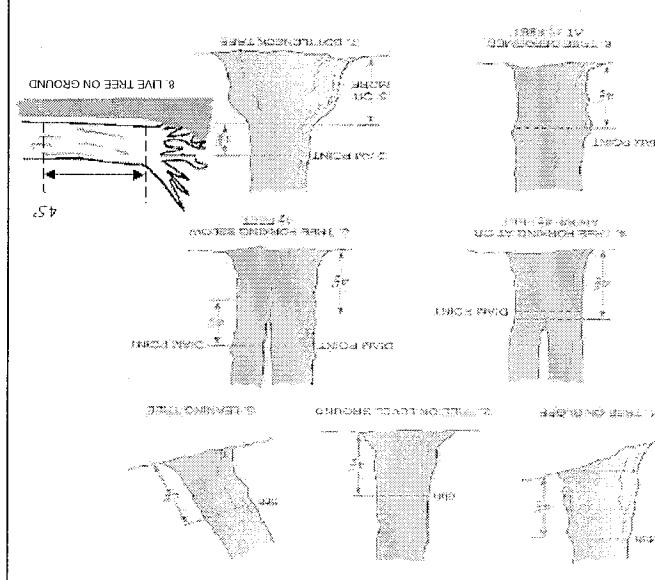
Plot No.: 3411 Page: 1 of 12

Explain subsample (additional room on back):

mod #	species	c	voucher#	# stems 0.5-1m browsed	% sub sample	# shrub clumps	size class (cm) woody stems >1m										11 >40 (record each tree)
							1 0-<1	2 1-<2.5	3 2.5-<5	4 5-<10	5 10-<15	6 15-<20	7 20-<25	8 25-<30	9 30-<35	10 35-<40	
1	<i>Picea abies</i>																
1	<i>Vitis americana</i>					6											
1	<i>Lindera benzoin</i>																
2	<i>Ulmus americana</i>																
2	<i>Picea abies</i>																
2	<i>Vitis americana</i>																
2	<i>Parthenocissus quin.</i>																
2	<i>Acer saccharum</i>																
3	<i>Acer saccharum</i>																
3	<i>Ulmus americana</i>																
3	<i>Picea abies</i>																
3	<i>Robina pseudoacacia</i>																
3	<i>Lonicera maackii</i>					1											
4	<i>Picea abies</i>					4											
4	<i>Lindera benzoin</i>																
4	<i>Carya cordiformis</i>																
4	<i>Artemesia glabra</i>																
5	<i>Picea abies</i>																
5	<i>Ulmus americana</i>																
5	<i>Lindera benzoin</i>					5											
4	<i>Fraxinus pennsylvanica</i>																
6	<i>Picea abies</i>																
6	<i>Lindera benzoin</i>					9											

<p>ASH CANOPY BREAKUP CONDITION (for dead trees):</p> <p>(if an ash receives a score of 5 (dead) under canopy condition it must also receive a breakup condition rank as described below)</p> <p>A: All main branches contain fine twigs (newly dead)</p> <p>B: Over 50% of main branches have fine twigs</p> <p>C: Less than 50% of main branches have fine twigs</p> <p>D: Stem still standing and tertiary main branches present</p> <p>E: Central stem still standing</p>				
E	D	C	B	A
				

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

<p>DBH Measurement Rules</p> 	
<p>Woody Stem Deer Browse</p> <p>Record using the tally system from 1 to 10</p> <p>•</p> <p>Record the number of stems/plants between 0.5-1.0 meters tall that exhibit evidence of this years deer browse</p> <p>1. TALLER THAN 1.0 METER 2. TALLER THAN 1.0 METER 3. TALLER THAN 1.0 METER 4. TALLER THAN 1.0 METER 5. TALLER THAN 1.0 METER 6. TALLER THAN 1.0 METER 7. TALLER THAN 1.0 METER 8. TALLER THAN 1.0 METER 9. TALLER THAN 1.0 METER 10. TALLER THAN 1.0 METER</p>	

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: 01222011

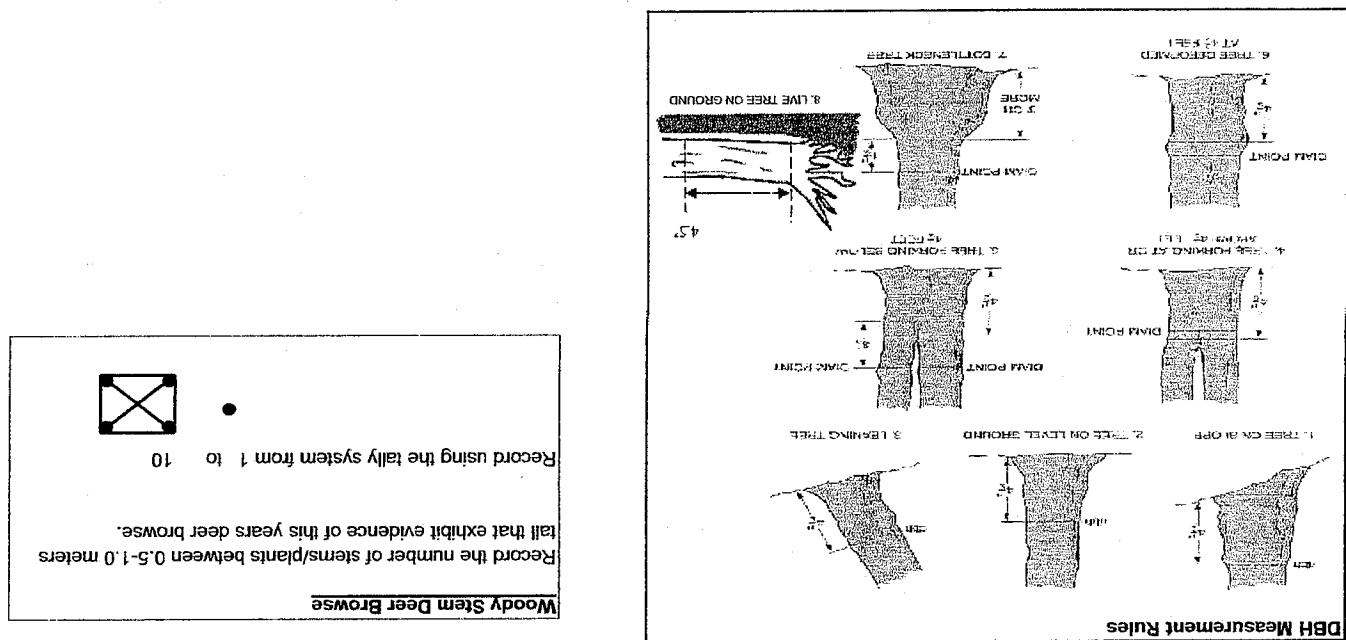
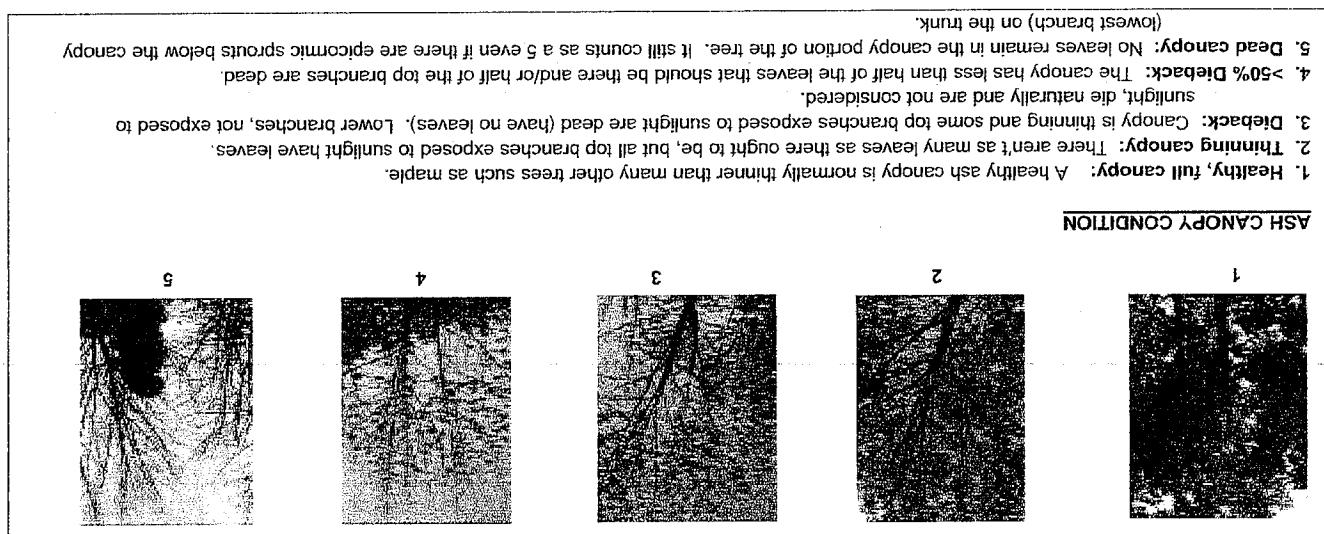
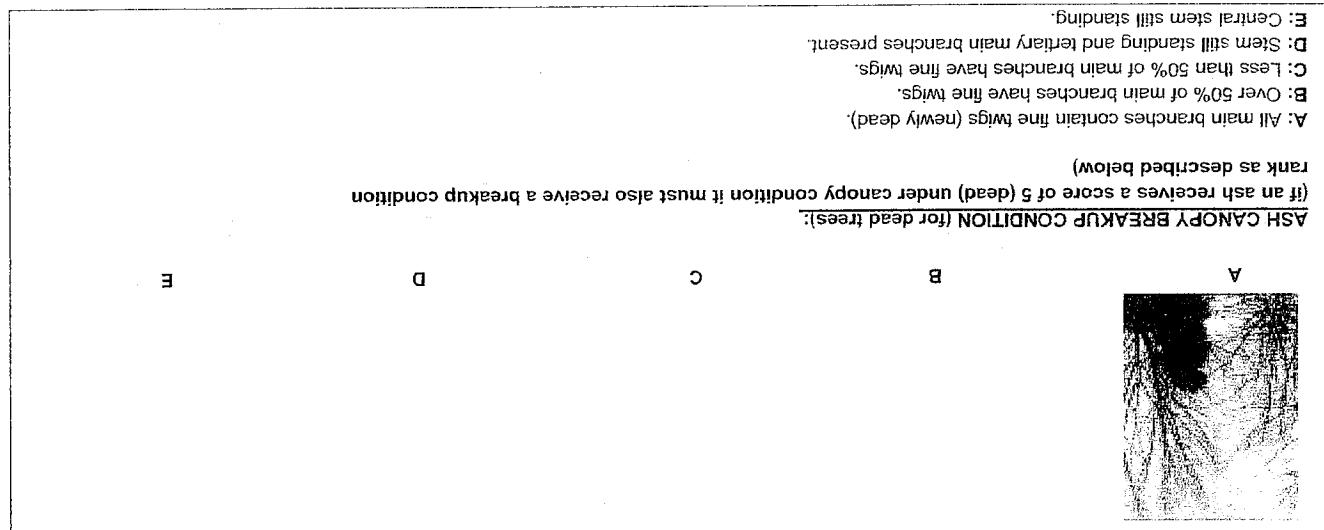
Plot No.: 3411

Page: 2 of 2

Cleveland Metroparks

Explain subsample (additional room on back):

mod #	species	c	voucher#	browsed	# stems 0.5-m or super	% sub sample	# shrub clumps	size class (cm) woody stems >1m										35. <40 >40 (record each tree)
								1 0-<1	2 1-<2.5	3 2.5-<5	4 5-<10	5 10-<15	6 15-<20	7 20-<25	8 25-<30	9 30-<35	10 35-<40	
6	Standing dead										•	•						
6	Toxicodendron radicans							•	•									
7	Fraxinus americana																	72.1
7	Picea abies																	
7	Lindera benzoin																	
7	Acer saccharum	1																
8	Standing dead																	
8	Fraxinus glabrow																	
8	Picea abies																	
8	Lindera benzoin					••												
8	Fraxinus pennsylvanica																	
9	Picea abies																	
9	Lindera benzoin																	
10	Picea abies																	
10	Decr. Negundo																	
10	Aesculus glabra																	
10	Ulmus americana																	
10	Lindera benzoin																	
10	Vitis aristivalis																	
10	Fraxinus pennsylvanica																	
10	Picea abies																	
10	Standing dead																	
11	Fraxinus pennsylvanica																	
11	Rosa multiflora																	
11	Ashmine trifolia																	



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

Tier 1: Early detection/ Rapid response		Presence			GPS			Comments		
Microstegium vimineum		Japanese Stiltgrass			NE SE SW NW			mod 3, 8, 9 in plot		
Presence								X: Yes		
# of Plants								5: > 1,000		
1: 1-10		Cornwallia masaii (G-cover)			Tly of the Valley			NE SE SW NW		
2: 11-50.		Cormillia varia (G-cover)								
3: 51-100		Elutherrococcus pentaphyllus			Crown Vetch					
4: 101-1,000		Cormillia varia (G-cover)								
5: > 1,000		Cornwallia masaii (G-cover)								
# of Plants										
Tier 3: Presence is of interest		# of Plants			Comments					
Eunomia musiflora		Winterecker								
Lonicera maackii		Amur Honeyuckle (shrub)			1. 1. 1.					
Elaeagnus umbellata		Autumn Olive								
Dipsacus laciniatus		Cut-leat Teasel								
Alnus glutinosa		European Alder								
Berberis thunbergii		Japanese Barberry (shrub)								
Rhhamnus cathartica		Common Buckthorn (shrub)								
Cornutum maculatum		Pisonia Hemlock								
Toriilis sp.		Hedgeparsley								
Celastrus orbiculatus (vine)		Asian Bittersweet								
Aeggopodium podagraria (G-cover)		Bishop's Goutweed								
Lythrum salicaria (vine)		Purple Loosestrife								
Lonicera japonica (vine)		Japanese Honeyuckle								
Ailanthus altissima		Tree of Heaven								
3: 51-100										
2: 11-50.										
1: 1-10										
# of Plants										
Tier 2: Assess as Needed		# of Plants			Comments					
Heracleum mantegazzianum		Giant Hogweed								
Butomus umbellatus (wetland)		Flowering Rush								
Cynanchum louiseae (vine)		Black Swallow-wort								
Ranunculus ficaria		Lesser Celandine								
# of Plants										
Tier 3: Presence is of interest		# of Plants			Comments					
Eunomia musiflora		Winterecker								
Lonicera maackii		Amur Honeyuckle (shrub)			1. 1. 1.					
Elaeagnus umbellata		Autumn Olive								
Dipsacus laciniatus		Cut-leat Teasel								
Alnus glutinosa		European Alder								
Berberis thunbergii		Japanese Barberry (shrub)								
Rhhamnus cathartica		Common Buckthorn (shrub)								
Cornutum maculatum		Pisonia Hemlock								
Toriilis sp.		Hedgeparsley								
Celastrus orbiculatus (vine)		Asian Bittersweet								
Aeggopodium podagraria (G-cover)		Bishop's Goutweed								
Lythrum salicaria (vine)		Purple Loosestrife								
Lonicera japonica (vine)		Japanese Honeyuckle								
Ailanthus altissima		Tree of Heaven								
2: 11-50.										
1: 1-10										
# of Plants										
Tier 4: Widespread and abundant		# of Plants			Comments					
Viburnum plicatum		Doublefile Viburnum (shrub)								
Ornithogalum umbellatum		Star of Bethlehem								
Iris pseudacorus		Yellow Flag Iris (wetland)								
Rubus phoenicolasius		Wineberry								
Pulmonaria officinalis		Lungwort								
Pholidopterus coronatus (G-cover)		Mock Orange (shrub)								
Pachysandra terminalis		Japanese Pachysandra (shrub)								
Elutherrococcus pentaphyllus		Five-leaf Aralia (shrub)								
Coronilla varia		Crown Vetch								
Cornwallia masaii (G-cover)		Tly of the Valley								
# of Plants										
Tier 5: Presence		# of Plants			Comments					
5: > 1,000										
4: 101-1,000										
3: 51-100										
2: 11-50.										
1: 1-10										
# of Plants										
Tier 6: Presence		# of Plants			Comments					
5: > 1,000										
4: 101-1,000										
3: 51-100										
2: 11-50.										
1: 1-10										
# of Plants										
Tier 7: Presence		# of Plants			Comments					
5: > 1,000										
4: 101-1,000										
3: 51-100										
2: 11-50.										
1: 1-10										
# of Plants										

## CLEVELAND METROPARKS Emerald Ash Borer - Fraxinus Sheet

Project Label: PCAP

Project Name: CRR201

INTENSIVE MODULES ONLY  
Plot No. 3411 Date \_\_\_\_\_

Date: 7/26/11

BAGG: 1982

## Baseline

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

6

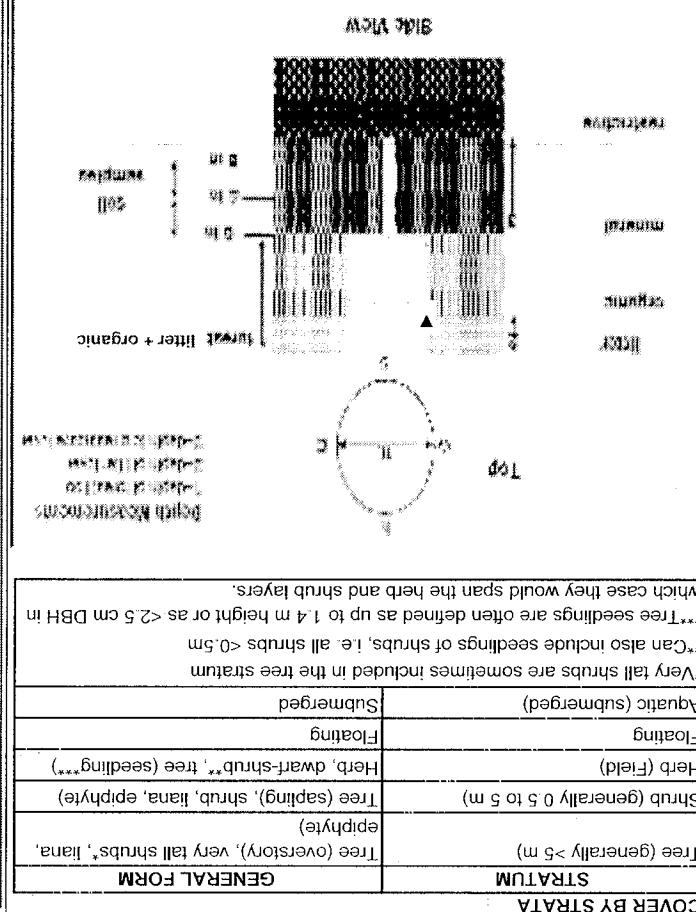
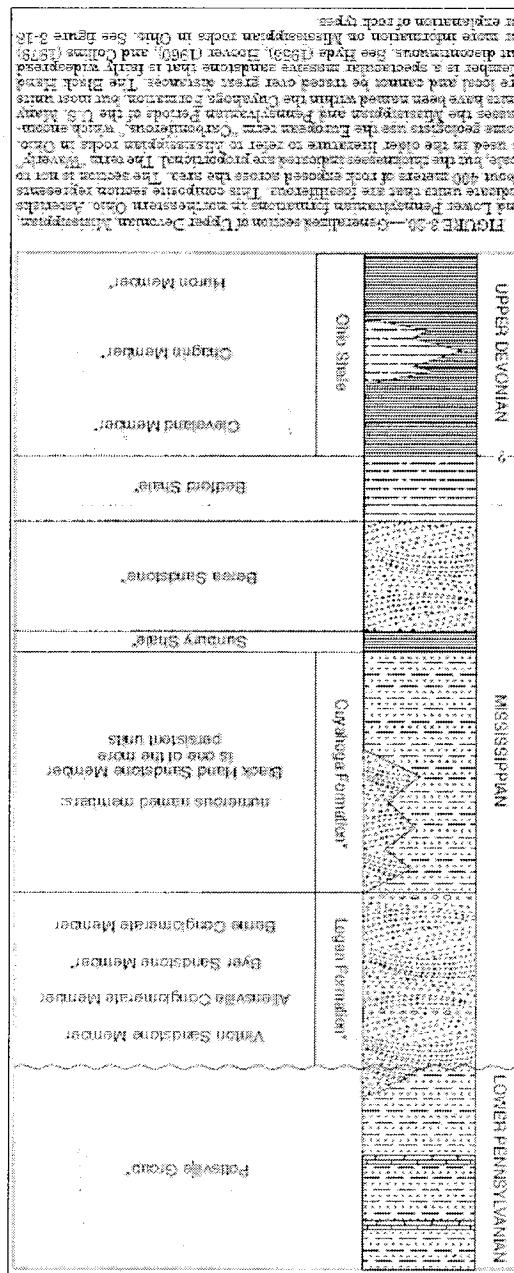
8

2

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 1.25m<sup>2</sup> x 1.5m.  
 Woodpecker and epizootic marked present (1) or absent (0):





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

Plot No.: 3411

Page: 1 of 1



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

**Soil pit module # 3** (one per entire plot)

5 cm	matrix color	10YR 3/2
motte color	Motl	
%/motte	0%	
oxid roots	Y	⑩
texture*	1	
redox features**	Y	⑩
hydr. cond.***	I S	⑩ D
20 cm	matrix color	10YR 3/2
motte color	None	
%/motte	0%	
oxid roots	Y	⑩
texture*	1	
redox features**	Y	⑩
hydro. cond.***	I S	⑩ 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

Soil Description/notes:

**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. C7-check when collected

Module#	C?	Corner	Corner

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

mod#	1 litter + organic depth (cm)	2 litter depth (cm)	3 restrict. depth (cm)	water depth (cm)	sat soil depth (cm)
2	0	0	>100	0	>30
3	0	0	>100	0	>30
8	0	0	>100	0	>30

Depth to restrictive layer  
more than 80 inches

9	0	0	>100	0	>30
---	---	---	------	---	-----

Length of soil probe = 125 cm

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

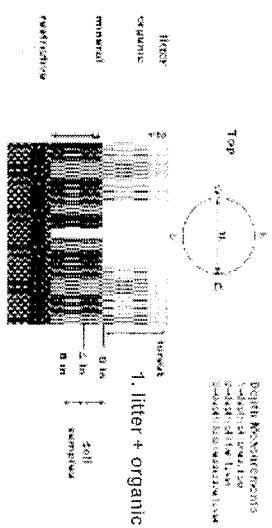
**Worms found at plot, but**  
castings layer absent. Large amounts of freshly deposited sediment blanket the plot.

**Worms found at plot, but**  
castings layer absent. Large amounts of freshly deposited sediment blanket the plot.

I=indundated S=saturated M=moist D=dry

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

Well drained
Excessively drained
Somewhat excessively
Moderately well dr.
Somewhat poorly dr.
Poorly dr.
Very poorly dr.
Impermeable surface



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

**PERMANENTLY FLOODED** - Water covers the land surface at all times of the year. Equivalent to Gowardin's 'permanent'.

**SEMIPERMANENTLY FLUID** (exposed < 1/year): Surface peristis move 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

The U.S. model can be applied to both wetland and non-wetland situations. Equivalent to Cowardin's

**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 is used to describe flood-prone areas that do not have a clearly defined seasonal pattern of inundation.

Often characterizes flood-plain levees and lower terraces. Equivalent to Cowardin's Temporal surface.

characterizes flood-plain upper terraces.

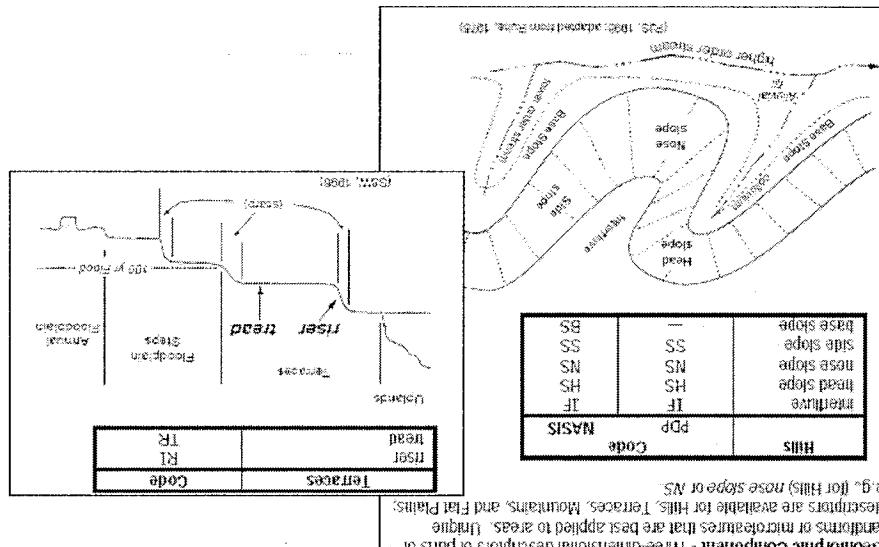
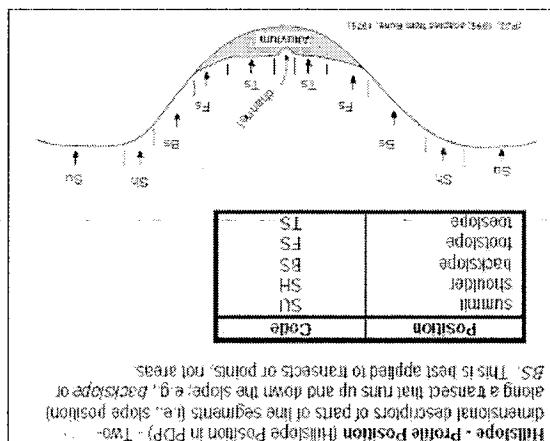
OCCASIONALLY FLOODDED: Surface water can be present for brief periods during growing season, but not in most years. Often

**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 modified.

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

AND: Not a Metropolis, Yet a Major Industrial Center, with Considerable Industrial Concentration, and a Tradition of Leadership.

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



Code	Technique	Notes
g. g. (for hills) noise slope of Ns	Technique	descriptions of methods that are best applied to hills, Terraces, Mountains, and Field Plaques.

PERCENT MOTTLES (USE CLASS CODES)					
Class	Code	Conn. NASIS	Criteria: % of Surface Area Covered	20 < 2	2 20 < 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 granular texture, the texture is either sandy or coarse sandy. If the soil does not form a ball, squeeze the sample between your fingers and attempt to form a ball. Both a ball and a ribbon should be coded as loamy.					
Many Common	T	#	#	M	Many
Clayey	1				
Loamy	2				
Organic	0				
Sandy	3				
Coarse Sand	4				
Not measured - make plot note	9				

## JRM B-1: BUFFER SAMPLE PLOTS, cont)

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

Site ID: PCAP TR 3411

DATE: 07/26/2011

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

## Buffer Natural Cover Strata

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

Strata Section: Fill in appropriate cover class bubble for each strata type for each plot 0 = Absent; 1 = Sparse(&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	Flag			Leaf Type: B	Leaf Type: N	Flag	
Big Trees (>0.3m DBH)	○	○	2	3	●					Big Trees (>0.3m DBH)	○	○	2	3
Small Trees (<0.3m DBH)	○	○	●	3	4					Small Trees (<0.3m DBH)	○	○	2	3
Woody Shrubs, Saplings (0.5m-5m HIGH)	○	●	2	3	4					Woody Shrubs, Saplings (0.5m-5m HIGH)	○	○	2	3
Woody Shrubs, Saplings (<0.5m HIGH)	○	●	2	3	4					Woody Shrubs, Saplings (<0.5m HIGH)	○	○	2	3
Herbs, Forbs and Grasses	○	○	●	3	4					Herbs, Forbs and Grasses	○	○	2	3
Bare ground	○	○	2	3	●					Bare ground	○	○	2	3
Litter, duff	●	○	2	3	4					Litter, duff	○	○	2	3
Rock	●	○	2	3	4					Rock	○	○	2	3
Water	●	○	2	3	4					Water	○	○	2	3
Submerged Vegetation	●	○	2	3	4					Submerged Vegetation	○	○	2	3

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	○	○	○		Ditches, Channelization	○	○	○		Pasture/Hay	○	○	○		
Road - two lane	○	○	○		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											
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	○	○	○		
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

FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)																																																																																																																																																																																			
<p>Site ID: PCAP 42 3411      DATE: 07/26/2011</p> <p>Reviewed by (initial):</p> <p>● Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble</p>																																																																																																																																																																																			
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## JRM B-1: BUFFER SAMPLE PLOTS, cont)

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

Site ID: PCAD T2R 3411

DATE: 07/26/2011

Location:

○ AA Center ○ N ○ S ○ E ○ W

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

○ Plot 1 ○ Plot 2 ○ Plot 3

## Buffer Natural Cover Strata

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

Strata Section: Fill in appropriate cover class bubble for each strata type for each plot 0 = Absent, 1 = Sparse(&lt;10%); 2=Moderate(10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (&gt;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 type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4			Big Trees (>0.3m DBH)	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4			Big Trees (>0.3m DBH)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		
Small Trees (<0.3m DBH)	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4			Small Trees (<0.3m DBH)	<input type="radio"/> 0 <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			Small Trees (<0.3m DBH)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		
Woody Shrubs, Saplings (0.5m-5m HIGH)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			Woody Shrubs, Saplings (0.5m-5m HIGH)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			Woody Shrubs, Saplings (0.5m-5m HIGH)	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		
Woody Shrubs, Saplings (<0.5m HIGH)	<input type="radio"/> 0 <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			Woody Shrubs, Saplings (<0.5m HIGH)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			Woody Shrubs, Saplings (<0.5m HIGH)	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		
Herbs, Forbs and Grasses	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4			Herbs, Forbs and Grasses	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4			Herbs, Forbs and Grasses	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		
Bare ground	<input type="radio"/> 0 <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			Bare ground	<input type="radio"/> 0 <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			Bare ground	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		
Litter, duff	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			Litter, duff	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			Litter, duff	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		
Rock	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			Rock	<input checked="" 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 checked="" type="radio"/> 3 <input type="radio"/> 4		
Water	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			Water	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			Water	<input type="radio"/> 0 <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		
Submerged Vegetation	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			Submerged Vegetation	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			Submerged Vegetation	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		

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

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

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

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



## JRM B-1: BUFFER SAMPLE PLOTS, cont)

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

Site ID: PCAP RP 3411

DATE: 07/26/2011

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

## Buffer Natural Cover Strata

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

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

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

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

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

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				Forest Clear Cut	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3				Herbicide Use	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3				
Gas Wells	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3				Forest Selective Cut	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3				Mowing/Shrub Cutting	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3				
Mine (surface)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3				Tree Plantation	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3				Trails	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3				
Mine (underground)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3				Tree Canopy Herbivory (INSECT)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3				Soil Compaction (ANIMAL OR HUMAN)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3				
Military	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3				Shrub Layer Browsed (WILD OR DOMESTIC)	<input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3				Offroad vehicle damage	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3				
Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3				Highly Grazed Grasses (OVERALL <3" HIGH)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3				Soil erosion (FROM WIND, WATER, OR OVERUSE)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3				
Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3				Recently Burned Forest Canopy	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3				Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3				
Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3				Recently Burned Grassland (BLACKENED)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3				Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3				

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)											
<input checked="" type="checkbox"/> Confirms a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble											
Fill bubble if present - Plot 1      2      3      Flag      Fill bubble if present - Plot 1      2      3      Flag Eurasian Watermilfoil <input type="checkbox"/> <input type="checkbox"/> Purple Loosestrife <input type="checkbox"/> <input type="checkbox"/> Johnson Grass <input type="checkbox"/> <input type="checkbox"/> Other Water Hyacinth <input type="checkbox"/> <input type="checkbox"/> Knotweed <input type="checkbox"/> <input type="checkbox"/> Kudzu <input type="checkbox"/> <input type="checkbox"/> Other Yellow Floating Heart <input type="checkbox"/> <input type="checkbox"/> Japanese Knotweed <input type="checkbox"/> <input type="checkbox"/> Multiflora Rose <input type="checkbox"/> <input type="checkbox"/> Other Giant Saurina <input type="checkbox"/> <input type="checkbox"/> Perennial Pepperweed <input type="checkbox"/> <input type="checkbox"/> Common Buckthorn <input type="checkbox"/> <input type="checkbox"/> Other Garlic Mustard <input type="checkbox"/> <input type="checkbox"/> Giant Reed <input type="checkbox"/> <input type="checkbox"/> Himalayan Blackberry <input type="checkbox"/> <input type="checkbox"/> Other Posidonia Hemisphere <input type="checkbox"/> <input type="checkbox"/> Cheatgrass <input type="checkbox"/> <input type="checkbox"/> Tamarnik <input type="checkbox"/> <input type="checkbox"/> Other Millet A-Minute Weed <input type="checkbox"/> <input type="checkbox"/> Reed Canary Grass <input type="checkbox"/> <input type="checkbox"/> Other Birdfoot Trefoil <input type="checkbox"/> <input type="checkbox"/> Common Reed <input type="checkbox"/> <input type="checkbox"/> Other Canada Thistle <input type="checkbox"/> <input type="checkbox"/> Leafy Spurge <input type="checkbox"/> <input type="checkbox"/> Other 2      Latitude North 41      39 3 9 6      Longitude West 0 8 1      8 8 4 8 0      Use Decimal Degrees, NAD83											
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 nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plots are centered on the nearest practicable location of the transect. Fill in the nearest practicable location below. 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): <input type="radio"/> AA CENTER <input type="radio"/> N3 <input type="radio"/> S3 <input type="radio"/> E3 <input type="radio"/> W3 <input checked="" type="radio"/> Nearest practicable location (flag and comment below)											
Flag      Comments											
1      Buffer plot 2 and 3 land across each other out of sight for accurate visual											
2      Pts taken at edge of river at Pt closest to BP 2											
3      estimation											

## JRM B-1: BUFFER SAMPLE PLOTS, cont)

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

Site ID: PCAP RR 3411

DATE: 07/26/2011

Location:

 AA Center  N  S  E  W

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

 Plot 1  Plot 2  Plot 3

## Buffer Natural Cover Strata

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

Strata Section: Fill in appropriate cover class bubble for each strata type for each plot. 0 = Absent; 1 = Sparse(&lt;10%); 2 = Moderate(10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (&gt;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 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" type="radio"/> 3 <input 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 checked="" type="radio"/> 3 <input 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 checked="" type="radio"/> 3 <input 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" type="radio"/> 3 <input type="radio"/> 4		<input type="radio"/>
Litter, duff	<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"/>	Litter, duff	<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"/>	Litter, duff	<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"/>
Rock	<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"/>	Rock	<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"/>	Rock	<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"/>
Water	<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"/>	Water	<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"/>	Water	<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"/>
Submerged Vegetation	<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"/>	Submerged Vegetation	<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"/>	Submerged Vegetation	<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"/>

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

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

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

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

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

2428168304

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

Site ID: PLAP EE 3411 Date: 07/26/2011

Reviewed by (initials):

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

Flag	Comments
1 Red canary grass shows signs of herbicide use - this year	
Latitude North 41 39 45.1 Longitude West 081 88 32.2 Use Decimal Degrees, NAD83	

Flag	Location of Coordinates (choose one):	
AA CENTER	<input type="checkbox"/> N3	<input type="checkbox"/> S3
E3	<input type="checkbox"/> W3	<input type="checkbox"/> Nearest Practicable Location (flag and comment below)
PLOTS CAN NOT BE ACCESSED, TAKE THE NEAREST PRACTICABLE LOCATION ALONG THE TRANSPECT. THIS IS IMPORTANT BECAUSE ALL BUFFER PLOTS ARE CENTERED ON THE BUFFER TRANSPECTS AND THE COORDINATES WILL INDICATE THE LOCATION OF THE NEAREST PRACTICABLE LOCATION. FILL IN THE FLAG BOX AND DESCRIBE WHERE THE BUFFER TRANSPECTS 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 Transpect and for the Buffer Plot at the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble.		

PLOT COORDINATES											
Fill bubble if present - Plot 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> Flag	Fill bubble if present - Plot 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> Flag	Fill bubble if present - Plot 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> Flag
Eurasian Watermilfoil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Purple Loosestrife	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Johnson Grass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Water Hyacinth	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Knotweed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Kudzu	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Yellow Floating Heart	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Japanese Knotweed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mulberry Rose	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Giant Salvinia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pennisetum Pappiferoid	<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"/>	Chenopodium	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lambsquarters	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Milk-A-Minute Weed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rabbit-ear Grass	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Birdsfoot Trefoil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Common Reed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Canadian Thistle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Leary Spurge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
● Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transpect and for the Buffer Plot at the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble.											

## JRM B-1: BUFFER SAMPLE PLOTS (cont)

Reviewed by (initial):

Site ID: PCAP RZ 3411

DATE: 07/26/2011

Location:

O AA Center N S E W

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

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

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

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

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