

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



Project Label: PCAP

Plot No: 1168 Date Sampled: 7/25/11 Lead: DS

Comment required if item answer is NO

Parking/Access outside of Park Boundaries	<input checked="" type="radio"/> Y <input type="radio"/> N	If yes, write details in Comments section below	
Field journals completed	<input checked="" type="radio"/> Y <input type="radio"/> N		
Site sketch made on 1:3000 map?	<input checked="" type="radio"/> Y <input type="radio"/> N		
Check cover page	<input checked="" type="radio"/> Y <input type="radio"/> N		
	<input checked="" type="radio"/> Y <input type="radio"/> N		
GPS coords. Recorded	<input checked="" type="radio"/> Y <input type="radio"/> N		
North direction recorded	<input checked="" type="radio"/> Y <input type="radio"/> N		
Photographs taken?	<input checked="" type="radio"/> Y <input type="radio"/> N		
Plot No., Date agreement on all pages?	<input checked="" type="radio"/> Y <input type="radio"/> N		
Header data completed all pages?	<input checked="" type="radio"/> Y <input type="radio"/> N		
Cover classes recorded in all Intensive modules	<input checked="" type="radio"/> Y <input type="radio"/> N		
Browse Level By Species	<input checked="" type="radio"/> Y <input type="radio"/> N		
Woody stem quality control check	<input checked="" type="radio"/> Y <input type="radio"/> N		
Invasive plant quality control check	<input checked="" type="radio"/> Y <input type="radio"/> N		
Ash trees mapped	<input checked="" type="radio"/> Y <input type="radio"/> N		
Cover by Strata? (confirm cover type)	<input checked="" type="radio"/> Y <input type="radio"/> N		
Soil samples collected with matching plot #.	<input checked="" type="radio"/> Y <input type="radio"/> N		
Vouchers labeled on datasheet with initials and number	<input checked="" type="radio"/> Y <input type="radio"/> N		
Vouchers labeled on collection bag	<input checked="" type="radio"/> Y <input type="radio"/> N		
Pink flags removed	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N		
Data sheet QA before leaving site?	<input checked="" type="radio"/> Y <input type="radio"/> N		
Common equipment returned to tub.	<input checked="" type="radio"/> Y <input type="radio"/> N		
Data sheets scanned?	<input checked="" type="radio"/> Y <input type="radio"/> N 7/29/11	Enter date to left	
Final data sheets scanned?	<input checked="" type="radio"/> Y <input type="radio"/> N	Enter date to left	
Buffer Widths measured?	<input checked="" type="radio"/> Y <input type="radio"/> N		
Web Soil Survey	<input checked="" type="radio"/> Y <input type="radio"/> N		
Voucher Location	Refrigerator	<input checked="" type="radio"/> Y <input type="radio"/> N	
(# vouchers collected)	Press (#)	<input checked="" type="radio"/> Y <input type="radio"/> N	Enter number to left
	Drier	<input checked="" type="radio"/> Y <input type="radio"/> N	
	Identified	<input checked="" type="radio"/> Y <input type="radio"/> N	
	Mounted	<input checked="" type="radio"/> Y <input type="radio"/> N	
	Thrown away	<input checked="" type="radio"/> Y <input type="radio"/> N	

## GRIS point verification: Is plot sampleable?

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

## Additional Comments:

Park @ pull-off E of Mayfield Rd. bridge and W of Mayfield & Chagrin River Rd intersection. Cross bridge going west and descend bank towards plot.  
 \* MUST WEAR YELLOW SAFETY VESTS.







CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet

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Project name: One20

Page 1 of 3

Total modules: 4 Intensive modules: 8% Visual est. % open water entire site:

Intensive modules: 4 Plot configuration: 2x2

Plot area (ha): 0.04

102

10

. 700 W. G. D. W. ENRÉ SITE

SILVES EN LA SILE.

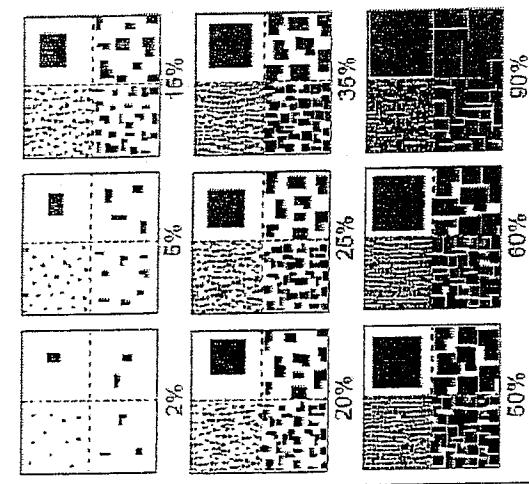
BR = BROWSE LEVEL. Use cover classes 10  
describe amount of browse per species over  
entire plot

Strata - Cov		Strata - Cov		Strata - Cov		Strata - Cov		Strata - Cov		Strata - Cov		Strata - Cov		Strata - Cov		Strata - Cov		Strata - Cov		Strata - Cov			
T	S	H	(F)	(A)	Br	Species	C	Voucher #	depth	cov	depth	cov											
7						<i>Platanus occidentalis</i>	0		4	6	4	6	4	6	4	5	4	5	4	5	4	5	
5						<i>Juglans nigra</i>	1		6	5	4	6	4	5	4	5	4	5	4	5	4	5	
4	2	1				<i>Fraxinus americana</i>	4		6	5	4	6	4	5	4	5	4	5	4	5	4	5	
9						<i>Verbascum strictifolia</i>	4		9	4	4	9	4	4	10	4	4	10	4	4	10	4	
2						<i>Aegopodium podagraria</i>	4		9	4	4	9	4	4	9	4	4	9	4	4	9	4	
3						<i>Alliaria petiolata</i>	3		2	3	4	2	3	4	2	3	4	2	3	4	2	3	
4	2					<i>Polygonum cuspidatum</i>	2		4	2	3	4	2	3	4	2	3	4	2	3	4	2	
3						<i>Geranium maculata</i>	0																
4	1	3				<i>Toxicodendron radicans</i>	4		4	4	2	4	2	3	4								
6						<i>Parthenocissus quinquefolia</i>	3		4	3	2	3	2	1	2								
3						<i>Solidago gigantea</i>	2		5	3	3	6	4	4	4								
2						<i>Matteuccia struthiopteris</i>	3		4	2	1	1	1	1	2								
2						<i>Circassia lutea</i>	4		2	1	1	2	1	2	1	2							
2						<i>Thalictrum dasycarpum</i>	2		2	1	3	2	2	2	2	2	2	2	2	2	2	2	
3						<i>Geum canadense</i>	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3						<i>Hesperis matronalis</i>	2		3	2	2	2	2	2	2	2	2	2	2	2	2	2	
2						<i>Polygonum virginianum</i>	3		2	2	1	2	2	2	2	2	2	2	2	2	2	2	
3	2	3				<i>Microstegium vimineum</i>	3		3	2	2	1	2	1	2	1	2	1	2	1	2	1	
3	2					<i>Rosa multiflora</i>	3		2	2	1	2	2	2	2	3	2	2	2	3	2	2	
2						<i>Ligustrum vulgare</i>	2		3	2	2	1	2	1	2	3	1	2	1	2	1	2	
3						<i>Fraxinus americana</i>	2		3	2	3	2	4	1	4	2	3	2	3	2	3	2	
2						<i>Carex sp.</i>	4		1	2	2	4	1	2	2	3	2	3	2	3	2	3	
2						<i>Dioscorea villosa</i>	4		4	2	1	4	2	1	4	2	1	4	2	1	4	2	
2						<i>Prunus arundinacea</i>	2		2	2	1	2	2	1	2	2	1	2	2	1	2	2	

→ nodes 3 + 4  
along riverbank

#### EXAMPLES OF PERCENT OF AREA COVERED

The following graphic can be used for various data elements to convey 'Amount' or 'Quantity'. **NOTE:** Within any given look, each module contains the same (if all are covered, just different sized objects).



#### BROWSE RATING NARRATIVE DESCRIPTION

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

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

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

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

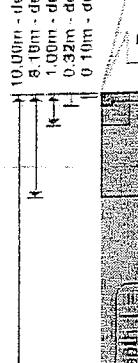
**HIGH:** greater than 25 percent of the stems of plants in the 1 m<sup>2</sup> nested quadrat and intensive module AND a browse line is evident.

**VERY HIGH** values include extensive browse conditions,

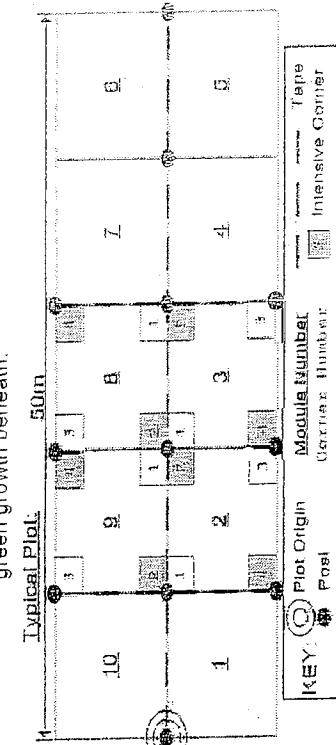
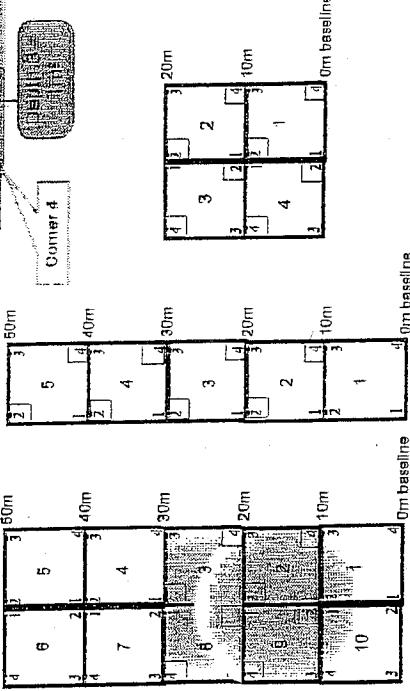
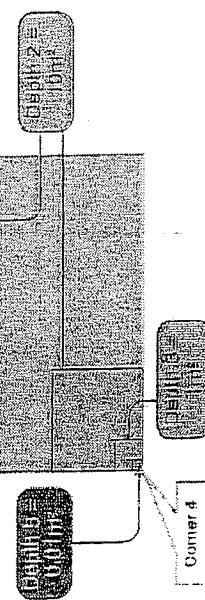
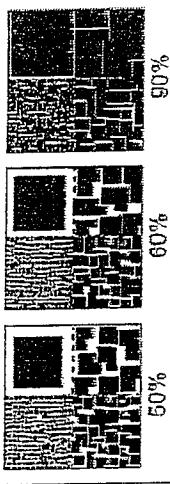
where the browse line is very evident AND almost all seedlings and herbs are severely browsed or missing.

Browse line may be 5 to 6 feet in height with no or little green growth beneath.

cover class	% cover	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%	0.625
9	75-95%	0.880
10	95-100%	0.975



#### Nested Corners



KEY:  
 Plot Origin Point  
 Module Number Counter  
 Baseline  
 Depth Line  
 Intensive Counter  
 Type Counter

CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet

Project Label: PCAP

Project name: ENCP2011

Page 2 of 3

Total modules: \_\_\_\_\_

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

Intensive modules: \_\_\_\_\_

Plot configuration: \_\_\_\_\_

Plot area (ha): \_\_\_\_\_

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



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

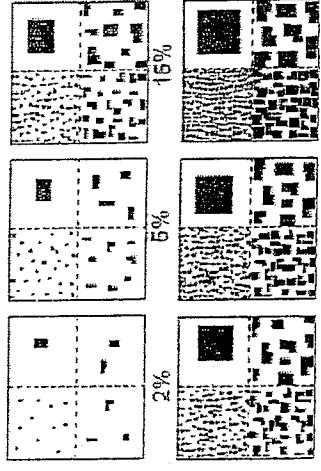
% Unvegetated open water  
% Unveg. (bare soil)  
% Unveg. (bare litter)

Strata - Cov entire plot

T	S	H	(F)	(A)	Br:	Species	Estimate for each intensive module:		Intensive module:									Intensive module:								
							Cov	depth	Cov	depth	Cov	depth	Cov	depth	Cov	depth	Cov	depth	Cov	depth	Cov	depth	Cov	depth	Cov	depth
2	2	9			1	<i>Alnus rubra</i> subsp. <i>rhombifolia</i>	1	2	2	2	3	4	3	2	4	4	4	2	4	4	2	4	4	2	4	2
2	1	1			1	<i>Rubus occidentalis</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	2	2			1	<i>Arisaema dracontium</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	1	1			1	<i>Elmias virginicus</i>	X	DS 175	1	2	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1
2	1	1			1	<i>Rubus caesius</i>	X	DS 175	1	2	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1
2	1	1			1	<i>Rubus pumila</i>																				
2	1	1			1	<i>Petasites hybridus</i>																				
1	1	1			1	<i>Bidens</i> sp.																				
2	1	1			1	<i>Vitis riparia</i>																				
1	1	1			1	<i>Polygonum</i> sp.																				
1	1	1			1	<i>Unknown</i> <i>Paeonia</i> 1		DS 176	1	2	3	1	2	2	1	2	3	1	2	3	1	2	3	1	2	3
2	1	2			1	<i>Verbena urticifolia</i>																				
2	1	2			1	<i>Unknown</i> <i>Monarda</i> 1																				
2	1	2			1	<i>Begonia hispida</i>																				
2	1	2			1	<i>Penicillaria elongata</i>																				
1	1	1			1	<i>Polygonum convolvulaceum</i>	X	DS 176	1	2	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
1	1	1			1	<i>Polygonum canadense</i>																				
1	1	1			1	<i>Gaultheria triflora</i>	X	DS 177	1	2	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
2	1	1			1	<i>Scrophularia canina</i>	X	DS 179	1	2	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
1	1	1			1	<i>Calystegia sepium</i>																				
2	1	1			1	<i>Impatiens capensis</i>	X	DS 178	1	2	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
1	1	1			1	<i>Polygonum perfoliatum</i>																				
1	1	1			1	<i>Cryptotaenia canadensis</i>																				
1	1	1			1	<i>Perilla frutescens</i>																				
1	1	1			1	<i>Oxalis stricta</i>																				

#### EXAMPLES OF PERCENT OF AREA COVERED

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



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%	0.625
9	75-95%	0.850
10	95-100%	0.975

#### BROWSE RATING NARRATIVE DESCRIPTION

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

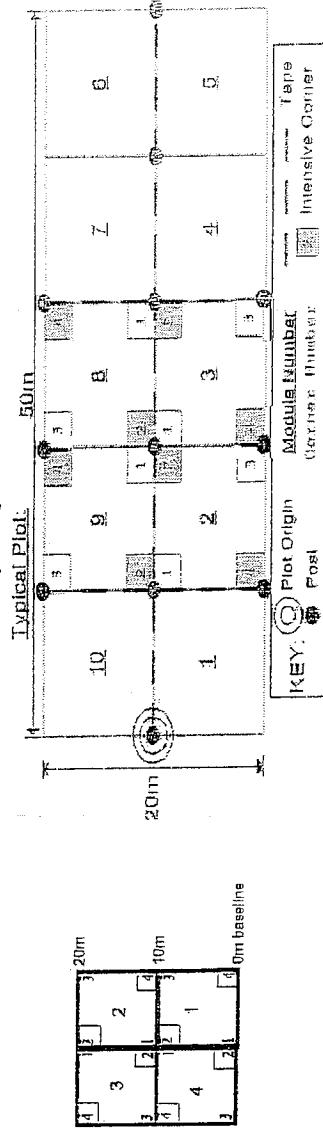
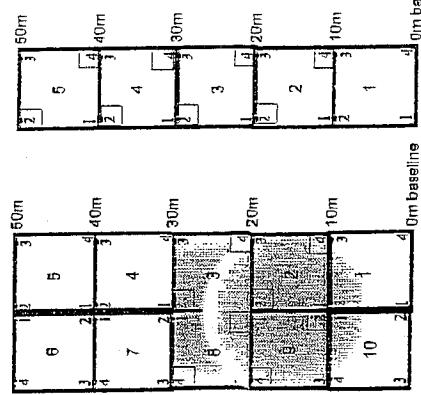
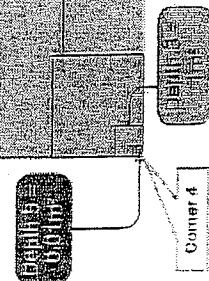
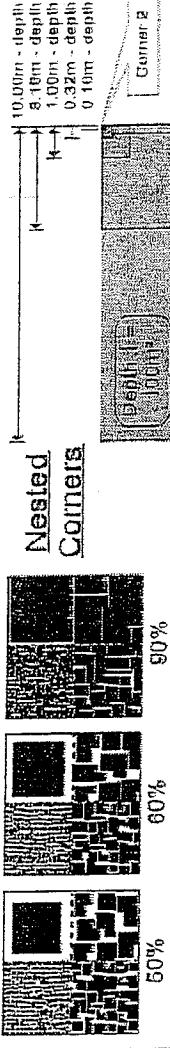
**MEDIUM LOW** values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse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

**MEDIUM:** browse affects greater than 10 percent and less than 25 percent of stems in the 1 m<sup>2</sup> nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of 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.



KEY:



Post



Corner



Intensive Corner

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

Project Label: PCAP

Project name: ONC2011

Page 3 of 3

Total modules:

Visual est. % open water entire site:

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

Visual est. % invasives entire site:

Plot area (ha):

Plot configuration:

Plot no.: 1168



Initial browse estimates

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

Estimate for each intensive module:

depth cov depth cov

depth cov

depth cov

depth cov

depth cov

depth cov

depth cov

depth cov

depth cov

depth cov

depth cov

depth cov

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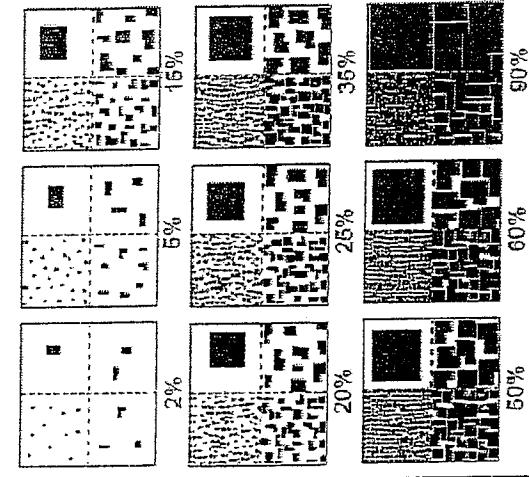
mod corner

mod corner

T	S	H	(F)	A	Br	Species	C	Voucher #											
								depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov
1						<i>Solanum nigrum</i>													
1						<i>Kanthium strumarium</i>													
2						<i>Urtica dioica</i> 2 (mushkenbergia)													
4						<i>Lindera benzoin</i>													
1						<i>Cinna arundinacea</i>													
1						<i>Tris pseudacorus</i>													
2						<i>Sympetrum villosus</i> (hairy)													
2						<i>Carex ampliata</i>													
1						<i>Solidago glomerata</i>													
2						<i>Colastus orbiculatus</i>													
1						<i>Aster sp.</i>													
1						<i>Ajuga reptans</i>													
1						<i>Hackelia virginiana</i>													
1						<i>Rumex obtusifolius</i>													

#### EXAMPLES OF PERCENT OF AREA COVERED

The following graphic can be used to visually determine "Amount" or "Quantity". **NOTE:** Within any given look, each quadrant contains the same area of area covered, just different sized objects.



#### BROWSE RATING NARRATIVE DESCRIPTION

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

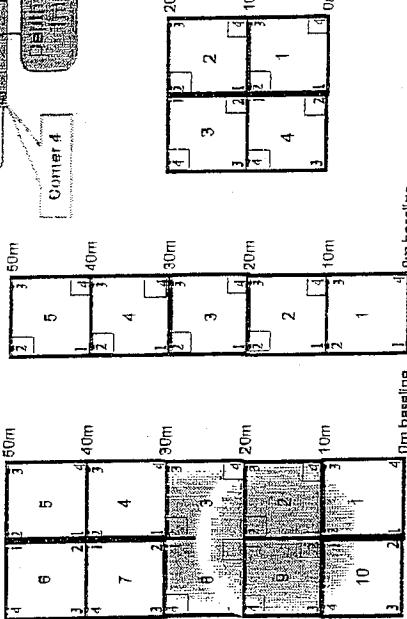
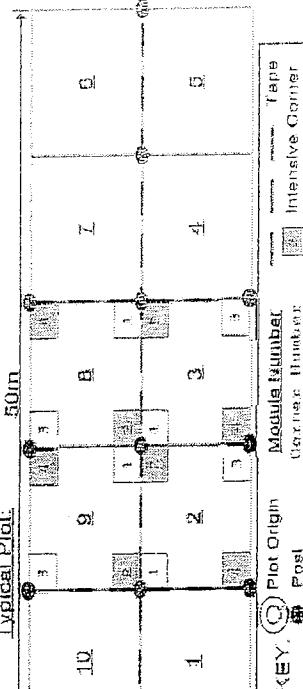
**MEDIUM LOW** values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse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

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

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

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

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



#### BROWSE RATING NARRATIVE DESCRIPTION

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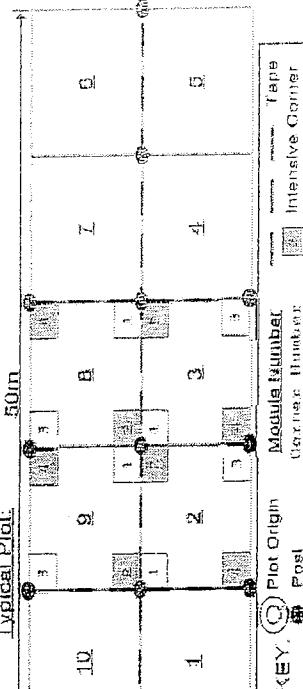
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## CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: OlMC 2011

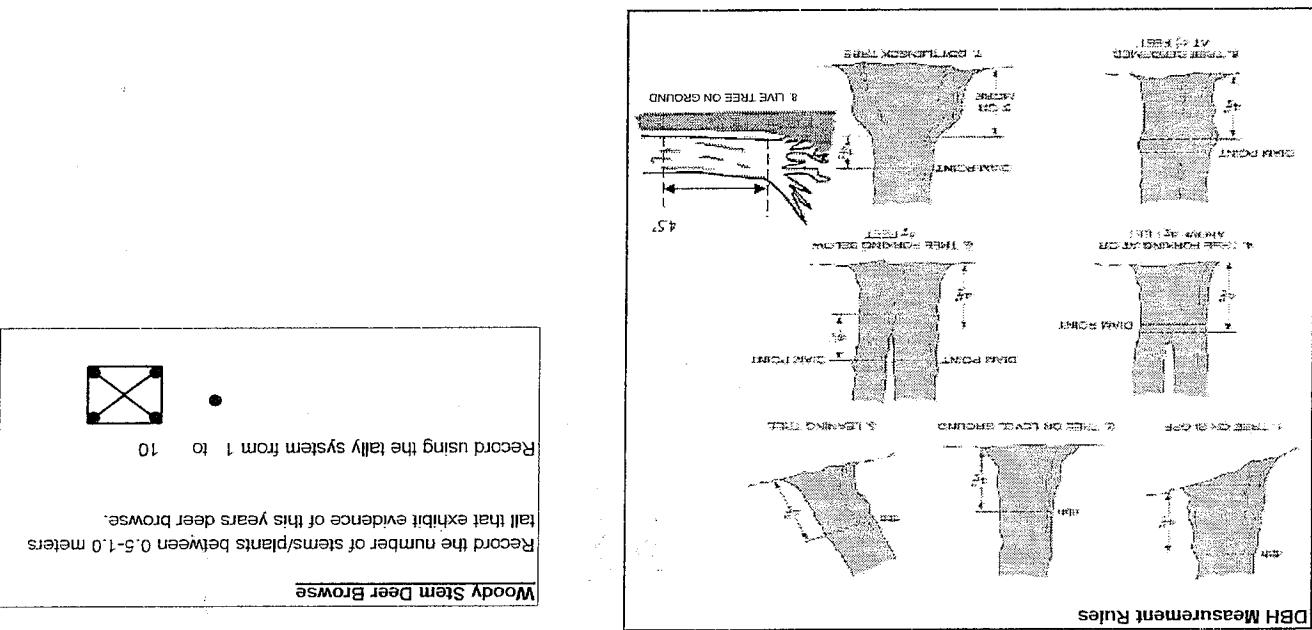
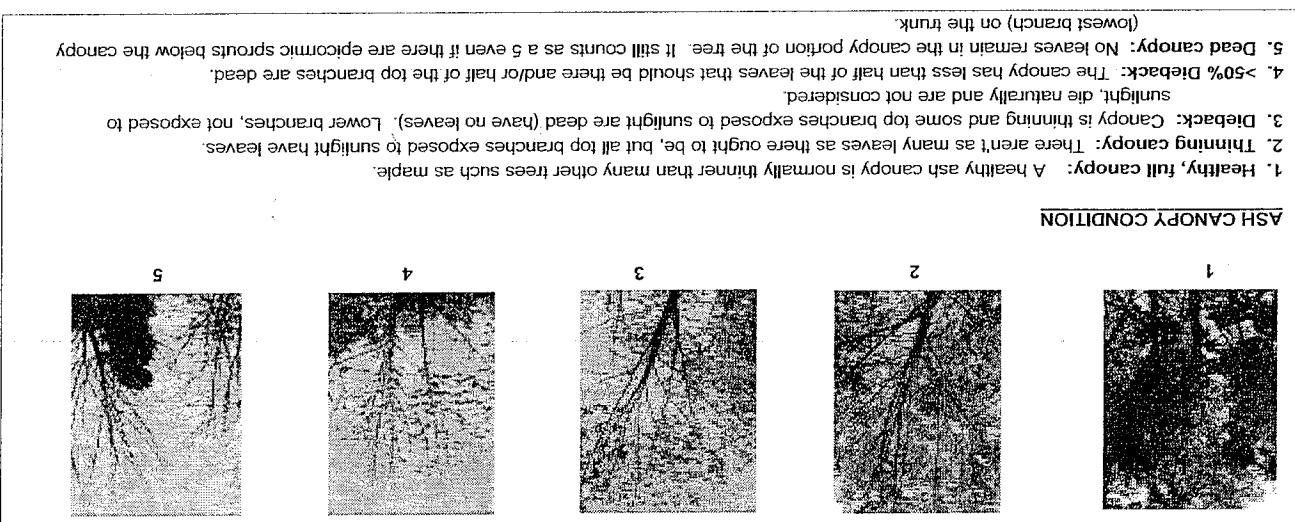
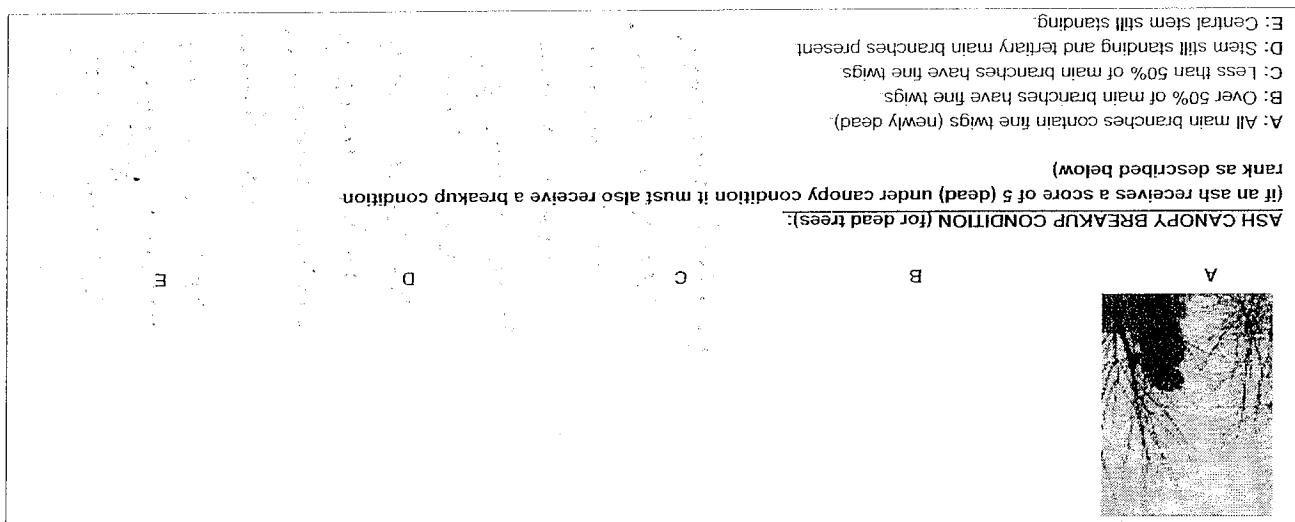
Plot No.: 1168

Page: 1 of 1

421 Cleveland Metroparks

Explain subsample (additional room on back):

Mois#	species	C vouch#	browsec#	# stems 0.5-1m or super sample	# shrub clumps	size class (cm) woody stems >1m	woody stems >1m										
							1	2	3	4	5	6	7	8	9	10	11
-1	<i>Maclura pomifera</i>																
-1	<i>Fraxinus americana</i>																
-1	<i>Platanus occidentalis</i>																
-1	Standings dead																
-1	<i>Parthenocissus quinquefolia</i>																
-1	<i>Ligustrum vulgare</i>																
-1	<i>Rosa multiflora</i>																
-1	<i>Juglans nigra</i>																
-1	<i>Tilia americana</i>																
-3	<i>Lindera benzoin</i>																
-3	Standings dead																
-4	<i>Platanus occidentalis</i>																
-4	<i>Parthenocissus quinquefolia</i>																



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

 Cleveland Metroparks

Project label: PCAP Project Name: Ol MC 201

Plot No.: 168

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 # 1 (one per entire plot)

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

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

5 cm	matrix color: 10 YR 2/2
mottle color:	None
%mottle	0 %
oxid roots	Y Q
texture*	3
redox features**	Y Q
hydr. cond.***	I S Q D
20 cm	matrix color: 10 YR 4/3
mottle color:	None
%mottle	0 %
oxid roots	Y Q
texture*	3
redox features**	Y Q
hydro. cond.***	I S Q D

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

Soil Description/notes:

**Web Soil Survey Information:**  
Soil Series/Type: Tioga loam  
Soil Series Source: Ohio Soil Survey  
Landform type: Flood plains  
Parent Material: Alluvium

**DRAINAGE\***

- well drained
- Excessively drained
- Somewhat excessively

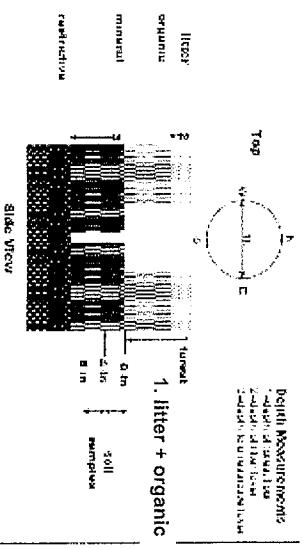
**SOIL DEPTH MEASUREMENT INSTRUCTIONS:** Measure to the nearest 0.1 cm in center of intensive modules. If > 30.5 cm, record as >30

mod#	1 litter + organic depth (cm)	2 litter depth (cm)	3 restrict. depth (cm)	water depth (cm)	sat soil depth (cm)
1	0	0	30	0	>31
2	0	0	30	0	31
3	0	0	30	6	31
4	0	0	30	0	31

Length of soil probe = 125 cm \* did not assess restrict. depth with soil punch.  
\* Use Web Soil Survey for #3 Restrictive layer dept.

- No earthworms** were found in pit or rest of plot. Very rarely soil. Earthworms found in plot; castings present

- 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 "permanently

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

the U.S. This modifier can be applied to both wetland and non-wetland situations. Equivalent to Cowardin's developed to use in the mid-West to water regimes of prairies, meadow savannas, and dry grasses but can be used in the upper Great Plains to describe wetland situations.

**INTERMITTENTLY FLOODED:** Substrate is usually exposed, but surface water can be present for variable periods without detectable inundation.

INTERMITTENTLY FLOODED: Shrubsteppe is usually exposed to flooding, but surface water can be present for variable periods without detectable surface. Often characterizes flood-plain levees and lower terraces. Equivalent to Cowardin's Temporally modified wetland.

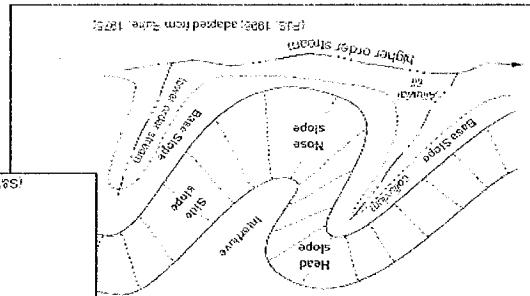
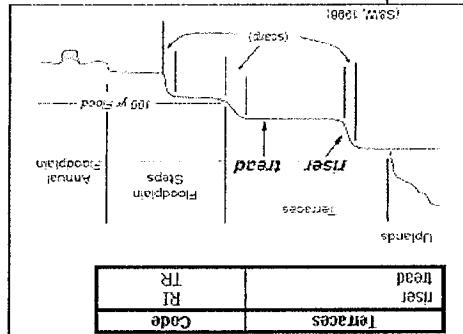
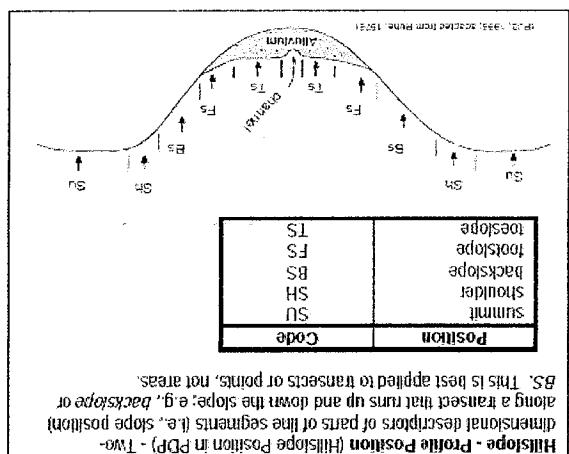
CHARACTERISTICS AND USES OF THE SUPER-ELIMINATOR.

**OCCASIONALLY FLOODED:** 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 Goward's Saturated modifier.

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

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



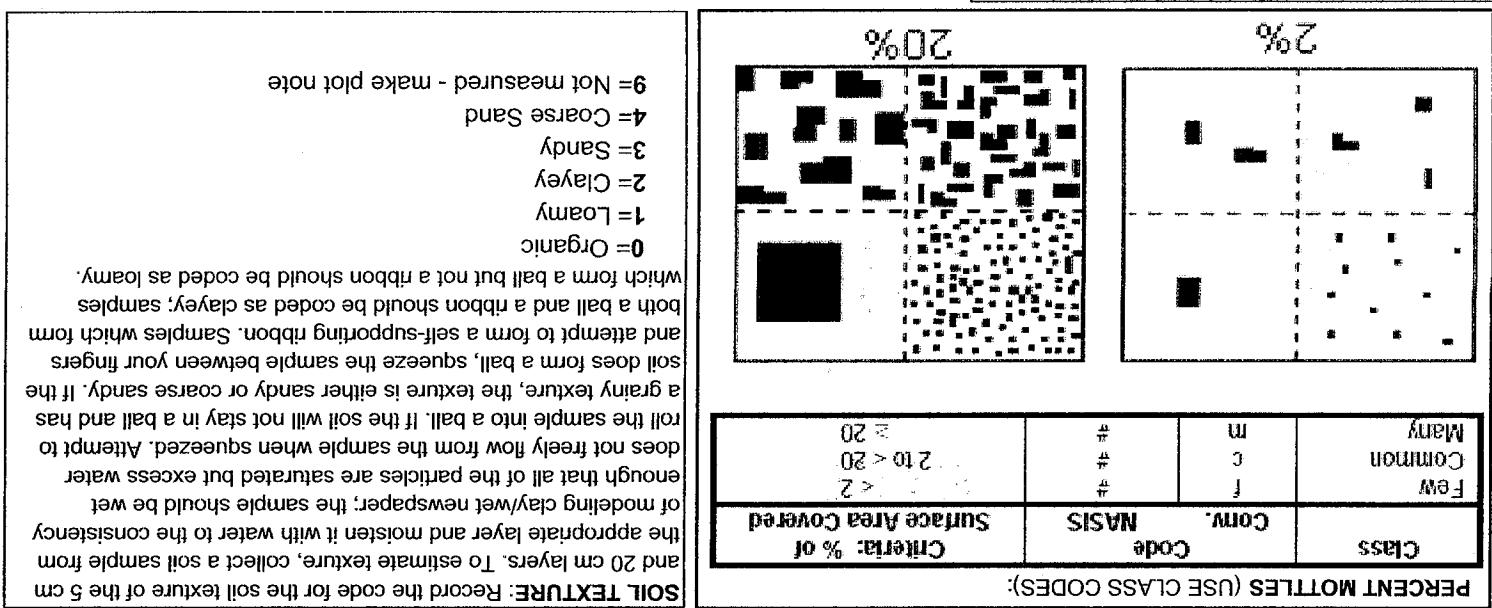
HHS	Code	PPB	NASIS	IF	HS	HS	NS	NS	SS	SS	--	BS
Interimive				base slope	slide slope	base slope	slide slope	base slope	slide slope	base slope		

descriptions are available for Hills, Terraces, Mountains, and Flat Plains; dimensions of descriptions of parts of line segments (i.e., bars along a transect that runs up and down the slope; e.g., bar 83, this is best applied to transects of hillsides, not rivers).

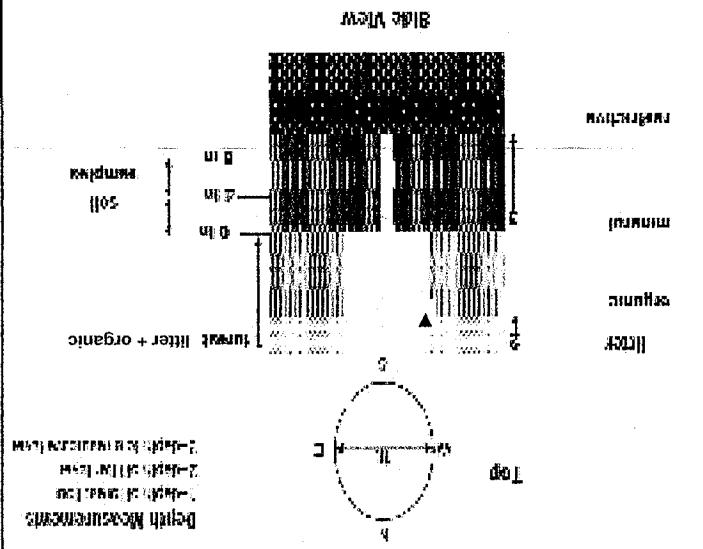
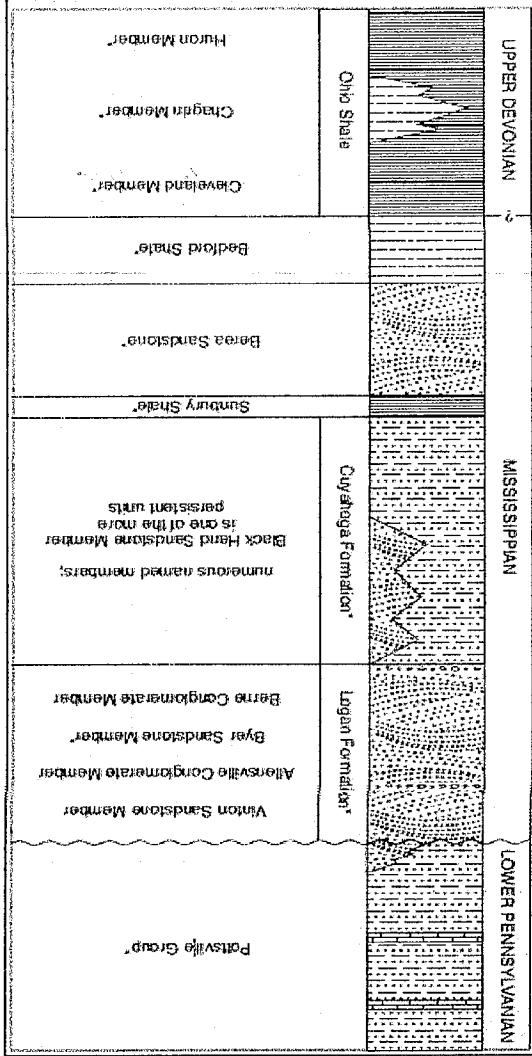
卷之三

- 0 = Organic
- 1 = Loamy
- 2 = Clayey
- 3 = Sandy
- 4 = Coarse Sand
- 9 = Not measured - make plot note

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







CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey						
Tier 1: Early detection/ Rapid response			Tier 2: Assess as Needed			
# of Plants	NE	SE	SW	NW	# of Plants	Comments
1: 1-10						
2: 11-50.						
3: 51-100						
4: 101-1,000						
5: >1,000						
Tier 3: Presence is of interest						
# of Plants	NE	SE	SW	NW	Comments	
1: 1-10						
2: 11-50.						
3: 51-100						
4: 101-1,000						
5: >1,000						
Tier 4: Widely spread and abundant						
# of Plants	NE	SE	SW	NW	Comments	
1: 1-10						
2: 11-50.						
3: 51-100						
4: 101-1,000						
5: >1,000						
Tier 5: Yes						
# of Plants	NE	SE	SW	NW	Comments	
1: 1-10						
2: 11-50.						
3: 51-100						
4: 101-1,000						
5: >1,000						

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

4bCM PCAP invasive species database - last revised 6/23/2011 ceh

Natural Resources

CLEVELAND METROPARKS Emerald Ash Borer - *Fraxinus* SheetProject Label: PCAPProject Name: DNV2011

INTENSIVE MODULES ONLY

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

Page: 1 of 2

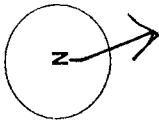
Plot No.: 168Date: 7/25/11

Module ID	Tree Species	Dead c	Voucher #	DBH (cm)	Ht @ DBH condition	Ash condition	ASH Only		
							# Dead holes	Epicormic present	Woodpecker holes
1	1	<i>Fraxinus americana</i>		25.6	1.37	1	0	0	0
1	2	<i>Fraxinus americana</i>		17.8	1.37	3	0	0	1
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
	11								
	12								
	13								
	14								
	15								
	16								
	17								
	18								
	19								
	20								
	21								
	22								
	23								
	24								
	25								

Baseline

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

4	3
1	2
5	6

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

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

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

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

Site ID: 1168 BKC 2011

DATE: 07/25/2011

Location: <input checked="" type="radio"/> AA Center <input type="radio"/> N <input 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 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 checked="" type="radio"/> E		Absent: <input type="radio"/>
	Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N	Flag			Leaf Type: <input type="radio"/> B <input checked="" type="radio"/> N	Flag			Leaf Type: <input type="radio"/> B <input checked="" type="radio"/> N	Flag	
Big Trees (>0.3m DBH)	<input type="radio"/> 0 <input checked="" 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 checked="" 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 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 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 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" type="radio"/> 4			Bare ground	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" 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 checked="" type="radio"/> 4			Litter, duff	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4		
Rock	<input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			Rock	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4			Rock	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" 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 checked="" type="radio"/> 4			Water	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" 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 checked="" type="radio"/> 4			Submerged Vegetation	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" 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 <input type="radio"/> 4				Ditches, Channelization	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Pasture/Hay	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Road - two lane	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Dike/Dam/Road/RR/Bed (IMPEDE FLOW)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Range	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Road - four lane	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Water Level Control Structure	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Row Crops	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Parking Lot/Pavement	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Excavation, Dredging	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Fallow Field (RECENT RESTING ROW CROP FIELD)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Golf Course	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Fill/Spoil Banks	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Fallow Field (OLD - GRASS, SHRUBS, TREES)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Lawn/Park	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Freshly Deposited Sediment (UNVEGETATED)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Nursery	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Suburban Residential	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Soil Loss/Root Exposure	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Dairy	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Urban/Multifamily	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Wall/Riprap	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Orchard	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Landfill	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Inlets, Outlets	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Confined Animal Feeding	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Dumping	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Point Source/Pipe (EFFLUENT OR STORMWATER)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Rural Residential	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Trash	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Impervious surface input (SHEETFLOW)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Gravel Pit	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Irrigation	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				

Industrial Development Stressors				Habitat/Vegetation Stressors											
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	
Oil Drilling	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Forest Clear Cut	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Herbicide Use	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Gas Wells	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Forest Selective Cut	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Mowing/Shrub Cutting	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Mine (surface)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Tree Plantation	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Trails	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Mine (underground)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Tree Canopy Herbivory (INSECT)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Soil Compaction (ANIMAL OR HUMAN)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Military	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Shrub Layer Browsed (WILD OR DOMESTIC)	<input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Offroad vehicle damage	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Highly Grazed Grasses (OVERALL >3" HIGH)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Soil erosion (FROM WIND, WATER, OR OVERUSE)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Recently Burned Forest Canopy	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Recently Burned Grassland (BLACKENED)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				

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

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

2428168304

Buffer Sample Points - Targeted Alien Species											
FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)											
<input checked="" type="checkbox"/> Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble											
<input checked="" type="checkbox"/> Fill bubble if present - Plot 1 <input type="checkbox"/> Flag <input type="checkbox"/> Fill bubble if present - Plot 1 <input type="checkbox"/> Flag <input type="checkbox"/> Fill bubble if present - Plot 1 <input type="checkbox"/> Flag <input type="checkbox"/> Fill bubble if present - Plot 1 <input type="checkbox"/> Flag											
<input checked="" type="checkbox"/> Eurasian Watermilfoil <input type="checkbox"/> Purple Loosestrife <input type="checkbox"/> Knotweed <input type="checkbox"/> Kudzu <input type="checkbox"/> Johnson Grass <input type="checkbox"/> Other											
<input checked="" type="checkbox"/> Water Hyacinth <input type="checkbox"/> Japanese Knotweed <input type="checkbox"/> Multiflora Rose <input type="checkbox"/> Common Buckthorn <input type="checkbox"/> Himalayan Blackberry <input type="checkbox"/> Other											
<input checked="" type="checkbox"/> Yellow Floating Head <input type="checkbox"/> Japanese Knotweed <input type="checkbox"/> Multiflora Rose <input type="checkbox"/> Common Buckthorn <input type="checkbox"/> Himalayan Blackberry <input type="checkbox"/> Other											
<input checked="" type="checkbox"/> Giant Salvinia <input type="checkbox"/> Perennial Pepperweed <input type="checkbox"/> Common Buckthorn <input type="checkbox"/> Other											
<input checked="" type="checkbox"/> Garlic Mustard <input type="checkbox"/> Giant Reed <input type="checkbox"/> Common Buckthorn <input type="checkbox"/> Other											
<input checked="" type="checkbox"/> Poison Hemlock <input type="checkbox"/> Cheatgrass <input type="checkbox"/> Common Buckthorn <input type="checkbox"/> Other											
<input checked="" type="checkbox"/> Mille-Feuille <input type="checkbox"/> Reed Canary Grass <input type="checkbox"/> Common Buckthorn <input type="checkbox"/> Other											
<input checked="" type="checkbox"/> Broadleaf Fleabane <input type="checkbox"/> Common Reed <input type="checkbox"/> Common Buckthorn <input type="checkbox"/> Other											
<input checked="" type="checkbox"/> Bristlegrass <input type="checkbox"/> Other <input type="checkbox"/> Other											
<input checked="" type="checkbox"/> Canada Thistle <input type="checkbox"/> Leafy Spurge <input type="checkbox"/> Common Reed <input type="checkbox"/> Other											
<input checked="" type="checkbox"/> Buffelgrass <input type="checkbox"/> Other <input type="checkbox"/> Other											
Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble.											
If Buffer Plot 3 can not be accessed, take the coordinates at the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plots are centered on the Buffer transects and the coordinates will indicate the location of the transect. Fill in the nearest practicable location bubble. Fill in the flag box, and describe where the coordinates were taken and why in the comment section below. The coordinates of the nearest practicable location can be either placed as close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot.											
Location of coordinates (choose one): <input type="checkbox"/> AA CENTER <input type="checkbox"/> N3 <input type="checkbox"/> S3 <input type="checkbox"/> E3 <input type="checkbox"/> W3 <input type="checkbox"/> Nearest practicable location (flag and comment below)											
Latitude North <input type="checkbox"/> 41 <input type="checkbox"/> 52 <input type="checkbox"/> 53 <input type="checkbox"/> 41 <input type="checkbox"/> 40 <input type="checkbox"/> 39 <input type="checkbox"/> 41 <input type="checkbox"/> 42 <input type="checkbox"/> 43 <input type="checkbox"/> 44 <input type="checkbox"/> Longitude West <input type="checkbox"/> 80 <input type="checkbox"/> 79 <input type="checkbox"/> 78 <input type="checkbox"/> 77 <input type="checkbox"/> 76 <input type="checkbox"/> 75 <input type="checkbox"/> 74 <input type="checkbox"/> 73 <input type="checkbox"/> 72 <input type="checkbox"/> 71 <input type="checkbox"/> 70 <input type="checkbox"/> 69 <input type="checkbox"/> 68 <input type="checkbox"/> 67 <input type="checkbox"/> 66 <input type="checkbox"/> 65 <input type="checkbox"/> 64 <input type="checkbox"/> 63 <input type="checkbox"/> 62 <input type="checkbox"/> 61 <input type="checkbox"/> 60 <input type="checkbox"/> 59 <input type="checkbox"/> 58 <input type="checkbox"/> 57 <input type="checkbox"/> 56 <input type="checkbox"/> 55 <input type="checkbox"/> 54 <input type="checkbox"/> 53 <input type="checkbox"/> 52 <input type="checkbox"/> 51 <input type="checkbox"/> 50 <input type="checkbox"/> 49 <input type="checkbox"/> 48 <input type="checkbox"/> 47 <input type="checkbox"/> 46 <input type="checkbox"/> 45 <input type="checkbox"/> 44 <input type="checkbox"/> 43 <input type="checkbox"/> 42 <input type="checkbox"/> 41 <input type="checkbox"/> 40 <input type="checkbox"/> 39 <input type="checkbox"/> 38 <input type="checkbox"/> 37 <input type="checkbox"/> 36 <input type="checkbox"/> 35 <input type="checkbox"/> 34 <input type="checkbox"/> 33 <input type="checkbox"/> 32 <input type="checkbox"/> 31 <input type="checkbox"/> 30 <input type="checkbox"/> 29 <input type="checkbox"/> 28 <input type="checkbox"/> 27 <input type="checkbox"/> 26 <input type="checkbox"/> 25 <input type="checkbox"/> 24 <input type="checkbox"/> 23 <input type="checkbox"/> 22 <input type="checkbox"/> 21 <input type="checkbox"/> 20 <input type="checkbox"/> 19 <input type="checkbox"/> 18 <input type="checkbox"/> 17 <input type="checkbox"/> 16 <input type="checkbox"/> 15 <input type="checkbox"/> 14 <input type="checkbox"/> 13 <input type="checkbox"/> 12 <input type="checkbox"/> 11 <input type="checkbox"/> 10 <input type="checkbox"/> 9 <input type="checkbox"/> 8 <input type="checkbox"/> 7 <input type="checkbox"/> 6 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> 0											
Use Decimal Degrees; NAD83											
Flag: <input type="checkbox"/> Comments											

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

Reviewed by (initial):

Site ID: 1168 NC 2011

DATE: 07/25/2011

Location:

 AA Center  N  S  E  W

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

 Plot 1  Plot 2  Plot 3

1

## Buffer Natural Cover Strata

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

Strata Section: Fill in appropriate cover class bubble for each strata type for each plot. 0 = Absent, 1 = Sparse(&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"/> 0	Buffer Plot 2	Canopy Type: <input checked="" type="radio"/> D <input type="radio"/> E		Absent: <input type="radio"/> 0	Buffer Plot 3	Canopy Type: <input type="radio"/> D <input type="radio"/> E		Absent: <input type="radio"/> 0
	Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N	Flag			Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N	Flag			Leaf Type: <input type="radio"/> B <input type="radio"/> N	Flag	
Big Trees (>0.3m DBH)	<input type="radio"/> 0 <input checked="" 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 checked="" 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 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 checked="" type="radio"/> 3 <input type="radio"/> 4			Small Trees (<0.3m DBH)	<input checked="" type="radio"/> 0 <input 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		
Woody Shrubs, Saplings (0.5m-5m HIGH)	<input checked="" type="radio"/> 0 <input 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"/> 0 <input 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 checked="" 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"/> 0 <input 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 checked="" 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 checked="" 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 checked="" 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 checked="" type="radio"/> 4		
Bare ground	<input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			Bare ground	<input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			Bare ground	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4		
Litter, duff	<input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			Litter, duff	<input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			Litter, duff	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4		
Rock	<input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			Rock	<input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			Rock	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4		
Water	<input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			Water	<input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			Water	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4		
Submerged Vegetation	<input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			Submerged Vegetation	<input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			Submerged Vegetation	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4		

Stressor Presence/Absence - Confirm that a filled data bubble indicates presence and an unfilled bubble indicates absence by filling this bubble. ⑩

## Residential and Urban Stressors

## Hydrology Stressors

## Agricultural &amp; Rural Stressors

Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag
Road - gravel	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Ditches, Channelization	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Pasture/Hay	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Road - two lane	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Dike/Dam/Road/RR Bed (IMPEDE FLOW)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Range	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Road - four lane	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Water Level Control Structure	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Row Crops	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Parking Lot/Pavement	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Excavation, Dredging	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Fallow Field (RECENT-RESTING ROW CROP FIELD)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Golf Course	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Fill/Spoil Banks	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Fallow Field (OLD - GRASS, SHRUBS, TREES)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Lawn/Park	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Freshly Deposited Sediment (UNVEGETATED)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Nursery	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Suburban Residential	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Soil Loss/Root Exposure	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Dairy	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Urban/Multifamily	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Wall/Riprap	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Orchard	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Landfill	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Inlets, Outlets	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Confined Animal Feeding	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Dumping	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Point Source/Pipe (EFFLUENT OR STORMWATER)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Rural Residential	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Trash	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Impervious surface input (SHEETFLOW)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Gravel Pit	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Irrigation	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			

## Industrial Development Stressors

## Habitat/Vegetation Stressors

Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag
Oil Drilling	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Forest Clear Cut	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Herbicide Use	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Gas Wells	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Forest Selective Cut	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Mowing/Shrub Cutting	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Mine (surface)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Tree Plantation	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Trails	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Mine (underground)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Tree Canopy Herbivory (INSECT)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Soil Compaction (ANIMAL OR HUMAN)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Military	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Shrub Layer Browsed (WILD OR DOMESTIC)	<input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Offroad vehicle damage	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Highly Grazed Grasses (OVERALL <3" HIGH)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Soil erosion (FROM WIND, WATER, OR OVERUSE)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Recently Burned Forest Canopy	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Recently Burned Grassland (BLACKENED)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			

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

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

2428168304

FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)											
<input checked="" type="checkbox"/> Continue a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble											
Fill bubble if present - Plot 1      2      3      Flag      Fill bubble if present - Plot 1      2      3      Flag Fill bubble if present - Plot 1      2      3      Flag      Fill bubble if present - Plot 1      2      3      Flag											
Site ID: 1168 NC 2011      DATE: 07/15/2011											
Reviewed by (initial): _____											
( ) 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											
Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble											
If Buffer Plot 3 can not be accessed, take the coordinates at the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plots are centered on the Buffer Transects and the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" bubble, fill in the flag box and describe where the coordinates were taken and why in the comment section below. The coordinates of the nearest practicable location can be either placed as close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot.											
Flag <input type="checkbox"/> AA CENTER <input type="checkbox"/> N3 <input type="checkbox"/> S3 <input type="checkbox"/> E3 <input type="checkbox"/> W3 <input checked="" type="checkbox"/> Nearest practicable location (flag and comment below)											
Latitude North 41 528.71      Longitude West 061 412.15      Use Decimal Degrees, NAD83											
Flag <input checked="" type="checkbox"/> Comments											
1      Plot 3 ends off property 2      GPS point here at plot 2											

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

Reviewed by (initial):

Site ID: 1168 NC 2011

DATE: 07/25/2011

Location:

○ AA Center ○ N ○ S ○ E ○ W

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

○ Plot 1 ○ Plot 2 ○ Plot 3

1,2,3

## Buffer Natural Cover Strata

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

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

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

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

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

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

2428168304

1	P6+ 1 E45+ f6115 1h river	Plots 2 E45+ f6115 on approach S. of river	Plots 3 E45+ f6115 on Eas't opposite side of river	6 DS plots 4th flt 1 E45+
---	---------------------------	--	--	---------------------------

Use Decimal Degrees; NAD83				
Latitude North	41	51	78	8
Longitude West	081	41	17	6
Flag				
<input type="checkbox"/> AA CENTER <input type="checkbox"/> O3 <input type="checkbox"/> O33 <input type="checkbox"/> O3W <input checked="" type="checkbox"/> Nearest practicable location (flag and comment below)				
Location of coordinates (choose one): <b>4</b> Plot 3 can not be accessed, take the coordinates at the nearest practicable location ALONG THE TRANSCECT. This is important because all Buffer Plots are centered on the Buffer transects and the coordinates will indicate the location of the transect. Fill in the nearest practicable location below. The coordinates will be taken and will in the center of the last accessible Buffer Plot.				
Plot 3 can not be accessed by filling in the appropriate bubble.				
Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer transect and for the Buffer Plot at the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble.				

PLOT COORDINATES												
Fill bubble if present - Plot 1	2	3	Flag	Fill bubble if present - Plot 1	2	3	Flag	Fill bubble if present - Plot 1	2	3	Flag	
Eurasian Watermilfoil	<input type="checkbox"/>	<input type="checkbox"/>	Purple Loosestrife	<input type="checkbox"/>	<input type="checkbox"/>	Johnson Grass	<input type="checkbox"/>	<input type="checkbox"/>	Water Hyacinth	<input type="checkbox"/>	<input type="checkbox"/>	Knotweed
Yellow Floating Heart	<input type="checkbox"/>	<input type="checkbox"/>	Japanese Knotweed	<input type="checkbox"/>	<input type="checkbox"/>	Muliflora Rose	<input type="checkbox"/>	<input type="checkbox"/>	Giant Slender	<input type="checkbox"/>	<input type="checkbox"/>	Perennial Pepperweed
Garlic Mustard	<input type="checkbox"/>	<input type="checkbox"/>	Giant Reed	<input type="checkbox"/>	<input type="checkbox"/>	Himalayan Blackberry	<input type="checkbox"/>	<input type="checkbox"/>	Poison Hemlock	<input type="checkbox"/>	<input type="checkbox"/>	Chesnary Grass
Mille-aine Weed	<input type="checkbox"/>	<input type="checkbox"/>	Reed Canary Grass	<input type="checkbox"/>	<input type="checkbox"/>	Tamansk	<input type="checkbox"/>	<input type="checkbox"/>	Bristsfoot Trefoil	<input type="checkbox"/>	<input type="checkbox"/>	Common Reed
Canada Thistle	<input type="checkbox"/>	<input type="checkbox"/>	Leary Sedge	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>	Common Glasswort	<input type="checkbox"/>	<input type="checkbox"/>	Other
Comments												

<input checked="" type="checkbox"/> Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble											
Site ID: 1168 NC 2011 DATE: 07/25/2011											
Reviewed by (initial):											
FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)											

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

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

Site ID: 1168 NC 2011

DATE: 07/25/2011

Location:

 AA Center  N  S  E  W

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

 Plot 1  Plot 2  Plot 3

1,2

## 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 checked="" type="radio"/> N	Flag			Leaf Type: <input type="radio"/> B <input checked="" type="radio"/> N	Flag	
Big Trees (>0.3m DBH)	<input type="radio"/> 0 <input 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 checked="" 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			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 type="radio"/> 3 <input checked="" 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 checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			Rock	<input type="radio"/> 0 <input 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 <input type="radio"/> 4				Ditches, Channelization	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Pasture/Hay	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Road - two lane	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Dike/Dam/Road/RR Bed (IMPEDE FLOW)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Range	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Road - four lane	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Water Level Control Structure	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Row Crops	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Parking Lot/Pavement	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Excavation, Dredging	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Fallow Field (RECENT-RESTING ROW CROP FIELD)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Golf Course	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Fill/Soil Banks	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Fallow Field (OLD - GRASS, SHRUBS, TREES)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Lawn/Park	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Freshly Deposited Sediment (UNVEGETATED)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Nursery	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Suburban Residential	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Soil Loss/Roof Exposure	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Dairy	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Urban/Multifamily	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Wall/Riprap	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Orchard	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Landfill	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Inlets, Outlets	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Confined Animal Feeding	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Dumping	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Point Source/Pipe (EFFLUENT OR STORMWATER)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Rural Residential	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Trash	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Impervious surface input (SHEETFLOW)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Gravel Pit	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Irrigation	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				

Industrial Development Stressors				Habitat/Vegetation Stressors											
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	
Oil Drilling	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Forest Clear Cut	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Herbicide Use	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Gas Wells	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Forest Selective Cut	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Mowing/Shrub Cutting	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Mine (surface)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Tree Plantation	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Trails	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Mine (underground)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Tree Canopy Herbivory (INSECT)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Soil Compaction (ANIMAL OR HUMAN)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Military	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Shrub Layer Browsed (WILD OR DOMESTIC)	<input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Offroad vehicle damage	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Highly Grazed Grasses (OVERALL <1" HIGH)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Soil erosion (FROM WIND, WATER, OR OVERBURE)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Recently Burned Forest Canopy	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Recently Burned Grassland (BLACKENED)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				

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

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

2428168304

Flag      Comments

Location of coordinates (choose one)      Flag

3

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

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 Buffer Transects and the coordinates will indicate the location of the transect. Fill in the nearest practicable location below. The coordinates of the nearest practicable location can be either placed as close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot.

Flag box and descriptive where the coordinates are 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.

## PLOT COORDINATES

Fill bubble if present - Plot 1	2	3	Flag	Fill bubble if present - Plot 1	2	3	Flag	Fill bubble if present - Plot 1	2	3	Flag
Eurasian Watermilfoil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Purple Loosestrife	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Johnson Grass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Water Hyacinth	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Knotweed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Kudzu	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Yellow Floating Heart	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Japanese Knotweed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mulholland Rose	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Giant Sallowia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Perennial Pepperweed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Common Buckthorn	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Giant 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"/>	Tamarisk	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mile-A-Minute Weed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Reed Canary Grass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Birdsfoot Trefoil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Common Reed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Canada Thistle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Leary Sprague	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

Site ID: 1168 NC 204      DATE: 07/25/2011

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

Reviewed by (initial):

Site ID: 1168 NC 2011

DATE: 07/25/2011

Location:

 AA Center  N  OS  OE  W

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

 Plot 1  Plot 2  Plot 3

## Buffer Natural Cover Strata

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

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

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

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

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

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

2428168304

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

Site ID: 1168 VC 201 DATE: 07/23/2011

Reviewed by (initial):

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

Flag

Flag

Location of coordinates (choose one):

Latitude North 41 32 79.0      Longitude West 0 81 41 34.7

Comments

Flag

Use Decimal Degrees, NAD83

AA CENTER    O N3    O S3    O E3     W3    O Nearest Practicable Location (Flag and comment below)

Flag

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 Buffer transects and the coordinates will indicate the location of the transect. Fill in the "Nearest Practicable Location" below, fill in the flag box and describe where the coordinates were taken and why in the comment section below. The coordinates of the nearest practicable location can be either placed as close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot.

If Buffer Plot 3 can not be accessed by filling in the appropriate bubble.

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

### PLOT COORDINATES

Fill bubble if present - Plot 1	2	3	Flag	Fill bubble if present - Plot 1	2	3	Flag	Fill bubble if present - Plot 1	2	3	Flag
Eurasian Watermilfoil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Purple Loosestrife	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Johnson's 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"/>	Auduzi	<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"/>	Muliflora Rose	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Giant Salvinia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Peregrina Pepperweed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Common Buckthorn	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Giant Mustard	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Garlic Mustard	<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"/>	Tamnisk	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mile-A-Minute Vine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Reed Canary Grass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Birdsfoot Trefoil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Common Reed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Canada Thistle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Leary Spurge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Longleaf Pine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

# CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Page 1 of 2

## GENERAL INFORMATION

Project Label: PCAP

Project Name:

Plot Name:

Plot No.: 1168

Level 4 (no nested corners sampled)

Level 5 (nested corners sampled)

Date (mm/dd/yyyy): / /

End date (if > 1 day): / /

Party

Role\*\*

Plot leader

If data not public why?

Source of coordinates

MAP  GPS

GPS location in plot x=0 to 5, y=-1,0,+1;

x = 0 y = 0 (base of plot x=0, y=0)

Coordinate system:

Lat/Long  UTM  StatePlane  deg  deg min

Other (specify) ■ m  ft  c

Datum:  NAD83/WGS84  NAD27

Sampling Quality\*:

subjective evaluation of how much effort put into sampling. Hurned plots may still provide good data

## TAXONOMIC ACCURACY

high	modera.	low	not sampl
vascul.			n/a
bryo			
lichen			

## TAXONOMIC STANDARD

Authority: G&C Pub Date: 1998

Minimum required fields in Bold and Underlined

## LOCATION

State: OH County:

Quadrangle:

Local Place Names:

Landowner:

X-axis Bearing of plot: 536 °

Data Confidentiality:

Check one:  Public data  Private Data

Fuzz 100m  Fuzz 250m  Fuzz 500m

Reason:

If data not public why?

Source of coordinates

MAP  GPS

GPS location in plot x=0 to 5, y=-1,0,+1;

x = 0 y = 0 (base of plot x=0, y=0)

Coordinate system:

Lat/Long  UTM  StatePlane  deg  deg min

Other (specify) ■ m  ft  c

Datum:  NAD83/WGS84  NAD27

Latitude: 41.52783

Longitude: 81.11306

Coord. Accuracy: ± 2 m  ft  + -

GPS File Name: 1168

Plot size for cover data: 0.1 (hectares)

Stems not sampled on this plot  Stems absent

Stems present Plot size stems: 0.1 (ha)

Depth: (1-5): 1

Intensive modules: 2, 3, 8, 9 (EDIT IF MODIFIED)

Camera No.: \_\_\_\_\_

Photo Nos.: \_\_\_\_\_



Plot placement:  Representative  GRIS  Random  Stratified Random

Transect component  Systematic (grid)  Capture specific feature  Other

NOTES: Include Layout (any unusual shape details), Location (directions and landscape content), Rationale (why here) and Veg Characterization (description of community, dominants, strata, BROWSE). Additional notes in space on back.

Layout - 2x5  
Rationale - Paint lands in a light cap/ open canopy of  
scrub are with thick willow on the ground.  
Original GPS points next to river in unit 13 now  
corner 3 of plot 2. Moved plot SW due to the  
J. Knobwood dominating to the NE

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

OVER

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

Project Label: PCAP

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

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

Page 2 of 2



### CLASSIFICATION

(FIT = excellent, good, fair, poor; CONF = high, med, low)

#### Hydrogeomorphic class (WETLANDS ONLY):

- DEPRESSION
- IMPOUNDMENT  Beaver  Human
- RIVERINE  Headwater  Mainstem  Channel
- SLOPE (ground water hydrology or on a physical slope)
- FRINGING  Reservoir  Natural Lake
- COASTAL (specify subclass)
- BOG (strongly, moderately, weekly ombrotrophic)

Fit= \_\_\_\_\_ Conf= \_\_\_\_\_

#### Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):

- FOREST  swamp forest  bog forest  forest seep
- EMERGENT  marsh  wet meadow  open bog
- SHRUB  shrub swamp  tall sh. bog  tall sh. fen

Fit= \_\_\_\_\_ Conf= \_\_\_\_\_

Fit= \_\_\_\_\_ Conf= \_\_\_\_\_

Fit= \_\_\_\_\_ Conf= \_\_\_\_\_

#### MODIFIED NATUREERVE CLASS\*

CODE (on separate form):

COMMUNITY NAME:

#### LANDFORM TYPE\*:

Homogeneity

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

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

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### STAND SIZE

>1,000 x plot size

> 100 x plot size

10-100 x plot size

3-10 x plot size

1-3 x plot size

< plot size

### DRAINAGE\*

Excessively drained

Somewhat excessively drained

Well drained

Moderately well dr.

Somewhat poorly dr.

Very poorly dr.

Impermeable surface

### HYDROLOGIC REGIME\*

Upland (seldom flooded)

Intermittently flooded

Semipermanently flooded

Permanently flooded

(seldom flooded)

Permanently/Semipermanent. saturated

(dry <1/yr, seldom flooded)

Occasionally flooded (<1/yr)

Temporarily flooded

(e.g. wind, storms)

Unknown

### SALINITY\*

Saltwater

Brackish

Fresh

Upland (n/a)

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

Homogeneous

Compositional trend across the plot

Conspicuous inclusions

Irregular/pattern mosaic

Heading East on Mayfield Rd. there will be a pull off/drive way just after the bridge on the right. Park there, cross bridge ~~and~~ take in  
Look for the blue flag tape on a thin vine on a large specimen (15m from river) in Mod 1

