

Comment required if item answer is NO

Parking/Access outside of Park Boundaries:	Y	N	If yes, write details in Comments section below
Field journals completed	Y	N	
Site sketch made on 1:3000 map?	Y	N	
Check cover page	Y	N	
	Y	N	
	Y	N	
	Y	N	
Plot No. Date agreement on all pages?	Y	N	
Header data completed all pages?	Y	N	
Cover classes recorded in all Intensive modules	Y	N	
Browse Level By Species	Y	N	
Woody stem quality control check	Y	N	
Invasive plant quality control check	Y	N	
Ash trees mapped	Y	N	N/A
Cover by Strata? (confirm cover type)	Y	N	
Soil samples collected with matching plot #.	Y	N	
Vouchers labeled on datasheet with initials and number	Y	N	N/A
Vouchers labeled on collection bag	Y	N	N/A
Pink flags removed	Y	N	
Data sheet QA before leaving site?	Y	N	
Common equipment returned to tub.	Y	N	
Data sheets scanned?	Y	N	8-22-12
Final data sheets scanned?	Y	N	Enter date to left JP
Buffer Widths measured?	Y	N	JP 8-22-12
Web Soil Survey	Y	N	JP 8-22-12
Voucher Location	Y	N	
(# vouchers collected)	Refrigerator	Y	Enter number to left
	Drier	Y	
	Identified	Y	
	Mounted	Y	
	Thrown away	Y	

GRTS point verification: Is plot sampleable?

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



CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Chippawa Creek Drive

Cleveland Metroparks  
Page 1 of 2

GENERAL INFORMATION

**Project Label:** PCAP  
**Project Name:** OIBr2012  
**Plot Name:** A0J05#D  
**Plot No.:** 3398  
☐ Level 4 (no nested corners sampled)  
☒ Level 5 (nested corners sampled)  
**Date (mm/dd/yyyy):** 8/21/2012  
**End date (if > 1 day):** / /  

<b>Party</b>	<b>Role**</b>
J. Eysenbach	Plot leader
T. Kistler	Asst
J. Pettit	Asst

  
\*\* Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc.

**PLOT NOT SAMPLED:** ☐ Other  
☐ Perm. water ☐ Paved ☐ Slope ☐ Safety

SAMPLING QUALITY\*

<b>Effort Level:</b>	subjective evaluation of how much effort put into sampling. Hurried plots may still provide good data
<input checked="" type="checkbox"/> Very thorough	
<input type="checkbox"/> Accurate	
<input type="checkbox"/> Hurried	


TAXONOMIC ACCURACY

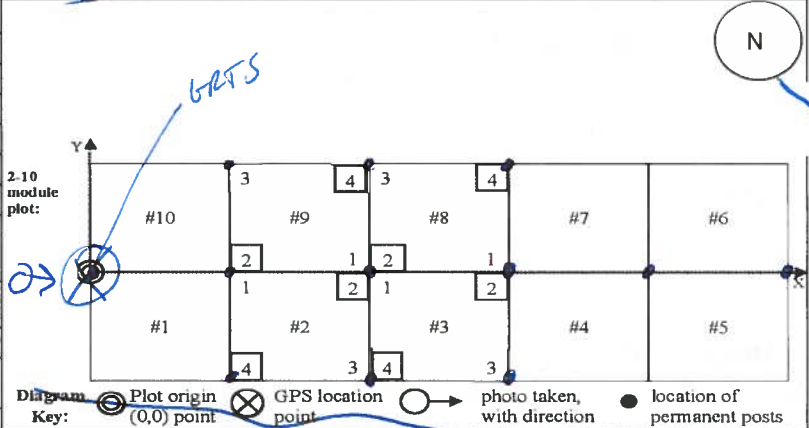
	high	modera.	low	not simpl
vascul.	X			n/a
bryo			X	
lichen				X

TAXONOMIC STANDARD

**Authority:** G&C **Pub Date:** 1998

LOCATION

**State:** OH **County:** Luy  
**Quadrangle:**   
**Local Place Names:** Harriet Keeler Picnic area  
**Landowner:** CM  
**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  
**Coordinate system:** **Coord. Units**  
☒ Lat/Long ☐ UTM ☐ StatePlane ☐ deg ☐ deg min  
☐ Other (specify) ☐ m ☐ ft ☐  
**Datum:** ☒ NAD83/WGS84 ☐ NAD27  
**GPS location in plot** x=0 to 5, y=-1,0,+1):  
x = 0 y = 0 (base of plot x=0, y=0)  
**Latitude:** 41.32058  
**Longitude:** 81.61312  
**Coord. Accuracy:** ☒ m ☐ ft +- 1.3  
**GPS File Name:** 3398A  
**Plot size for cover data:** 0.1 (hectares)  
**X-axis Bearing of plot:** [263]°  
**Depth:** (1-5): 4  
**Intensive modules:** 2, 3, 8, 9 (EDIT IF MODIFIED)  
**Camera No.:** 2  
**Photo Nos.:** 202121  
**Plot placement:** ☒ GRTS ☐ Representative  
☐ 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 on a ~20° slope  
**LOCATION:** Park at Harriet Keeler picnic area off Chippawa Creek Dr. - walk N to trail which heads east and follow trail to plot.  
**Rationale:** GRTS point  
**Veg characterization:** Mixed forest dominated by mature red oak and Sugar maple. Shrub layer includes Acer saccharum and Fagus grandifolia. Herb layer sparse with fern and woody seedlings. Large amount of boulder, cobble, gravel in plot.

Hiking trail

Minimum required fields in Bold and Underlined

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

OVER

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

CLEVELAND METROPARKS

Project Label:PCAP

Project Name:01B12012

Plot No.:3398

Page 2 of 2

MODIFIED NATURESERVE CLASS\*

CODE (on separate form):

D

COMMUNITY NAME:

Mixed

Fit=

good

Conf=

med

HOMOGENEITY

☒ Homogeneous

☐ Compositional trend across the plot

☐ Conspicuous inclusions

☐ Irregular/pattern mosaic

DISTURBANCES

type*	severity**	yrs ago	% of plot	description
Human				
Natural				
Fire				
Cut				
Animal	MH	0	100	Deer Browse
Other				

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

Current Land Use:

Park

Former Land Use:

Unk

SALINITY\*

☐ Saltwater

☐ Brackish

☐ Fresh

☒ Upland (n/a)

(by default unless plot is a wetland)

HYDROLOGIC REGIME\*

☒ Upland (seldom flooded)

☐ Intermittently flooded

☐ Intermittently/seasonally saturated (seldom flooded)

☐ Semipermanently flooded

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

☐ Permanently flooded

☐ Occasionally flooded (<1/yr)

☐ Tidal/Seiche flooded daily

☐ Temporarily flooded

☐ Tidal/Seiche flooded monthly

(e.g. wind, storms)

☐ Tidal/Seiche flooded irregular

Unknown

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

Soil pit in this plot was very difficult to dig due to the numerous rocks throughout the plot. Plot set up along a slope (mild) w/ Sugar Maple, Red Oak, and Beech. The herb layer is depauperate w/ many species brown + wrinkly from the drought. Browse was evident on the woody seedlings. The ground has abundant stones w/ lots of moss. No invasives other than garlic mustard were found in the plot. There is a hiking trail to the North of the plot but little evidence of human disturbance in the plot. We could also hear Chippawa Creek Road from the plot.

1bCM PCAP Background Data Sheet Page 2\_ver 2.xls last revised 5/29/2012 ceh

Natural Resources Mangement FORM NR/2010-01b



## Page 1 of 2

Plot no.: 3398

Plot area (ha): 0.1

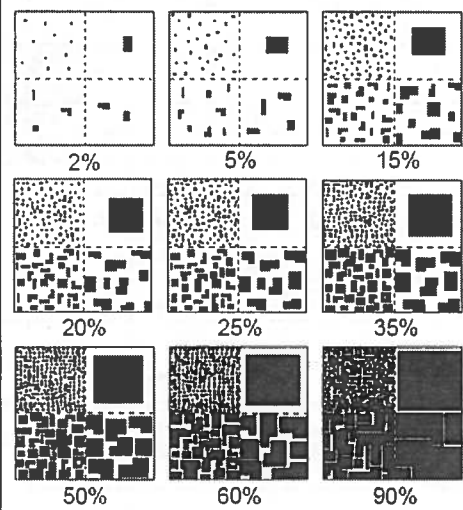


Estimate for each intensive module:

T	S	H	(F)	(A)	Br	Species	C	Voucher #	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	
6						<i>Quercus rubra</i>			4	7	4		4	7			4	5			4	7	
7	7	2			16	<i>Acer saccharum</i>			4	8	3		4	9	4		4	9	4		3	9	4
7	6	2			8	<i>Fagus grandifolia</i>			2	7	4		3	7	3			4	3			4	6
		2				<i>Fraxinus</i> (seedlings)			3	2			1	2									
		2				<i>Acer</i> (seedlings)			3	2	4		2	2	2		4	2	4		2	2	2
		3				<i>Polystichum acrostichoides</i>			1	3			1	2			1	2			2	3	2
		2			8	<i>Lindera benzoin</i>							1	1			2	1					
		2			9	<i>Smilax rotundifolia</i>			1	2													
		2			8	<i>Eumyrtus obovatus</i>							1	2			2	2					
		3				Moss sp.			4	2				2	2	3	2	3		4	2	3	
5		2			8	<i>Prunus serotina</i>					2	2			2	2	3	2	3			2	2
		2				<i>Polygonatum pubescens</i>			1	2				2	2	2	2	2		2	2		
		2				<i>Vitis</i> sp (seedlings)					3	1	2	1									
4	4				9	<i>Acer rubrum</i>			4	3													
		2				<i>Allium tricoccum</i>			1	1			1	2			2	2					
6						<i>Quercus elba</i>							2	9	4		2	6					
	2	2				<i>Hackelia virginiana</i>							2	2			3	2			2	2	
	2					<i>Parthenocissus quinquefolia</i>								4	2					1	2		
	2					<i>Carya cordiformis</i>							1	1					2	1	1	2	
	2				8	<i>Ayrus</i> sp							1	1								2	1
	2					<i>Prosartes lanuginosum</i>							1	1							1	2	
	1				8	<i>Smilax hispida</i>							1	1					2	1			
	2					<i>Toxicodendron radicans</i>							1	1									
	2					<i>Alliaria petiolata</i>											4	2			3	2	
	2				6	<i>Quercus</i> sp (seedling)							1	1			2	2	2		1	1	

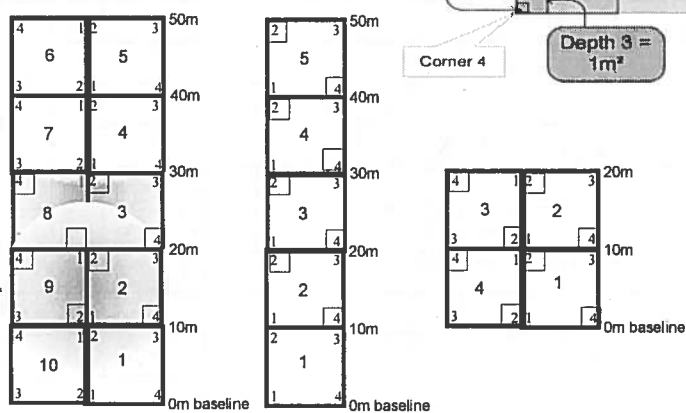
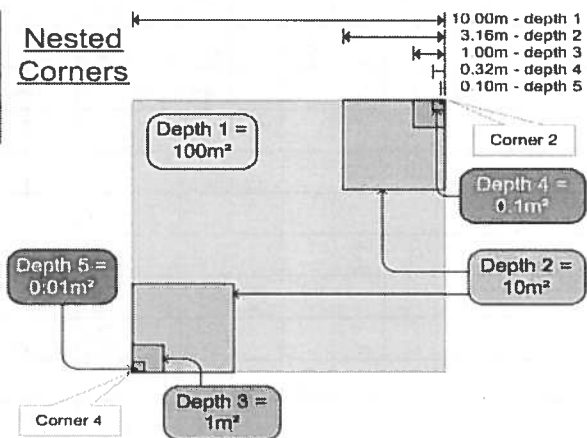
EXAMPLES OF PERCENT OF AREA COVERED

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



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

Nested Corners



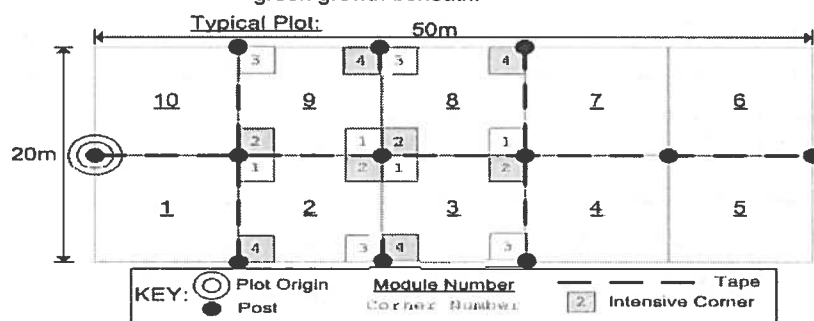
BROWSE RATING NARRATIVE DESCRIPTION

**LOW OR NONE:** there is no measurable browse line AND there are very few or no plants 1-m nested quadrat and intensive module. In general, low values relate to less than 10 percent, by numbers of stems browsed. **MEDIUM LOW** values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse areas. For example, trilliums may flower and fruit, but jewelweed and arrowwood viburnum exhibit browse. **MEDIUM:** browse affects greater than 10 percent and less than 25 percent of stems in the 1 m2 nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of vegetation, but careful examination may show preferential browse and/or browse lines for some species of plants.

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

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

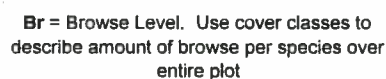
**VERY HIGH** values include extensive browse conditions, where the browse line is very evident AND almost all seedlings and herbs are severely browsed or missing. Browse line may be 5 to 6 feet in height with no or little green growth beneath.



Page 2 of 7

Plot no.: 3398

Plot area (ha): 0.1



Estimate for each intensive module:

mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner
2	4	2	2	3	4	3	2	8	4	8	2	9	4	9	2			R	R
depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov
1				1				1				1							
1				1				1				1							
1				1				1				1							
1				1				1				1							

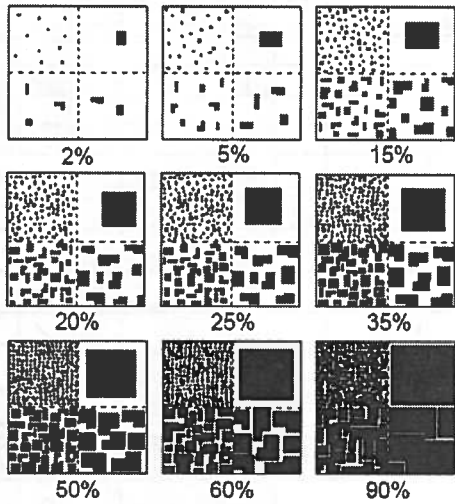
Strata - Cov. entire plot

[illegible]



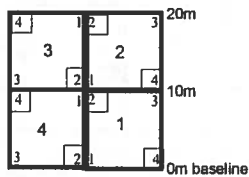
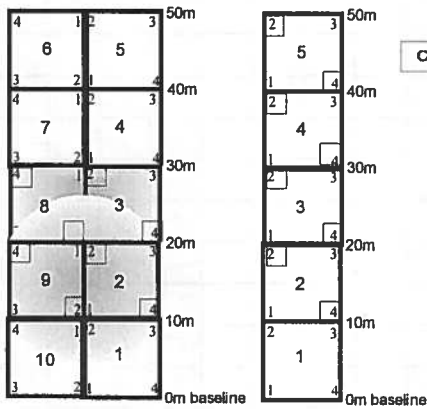
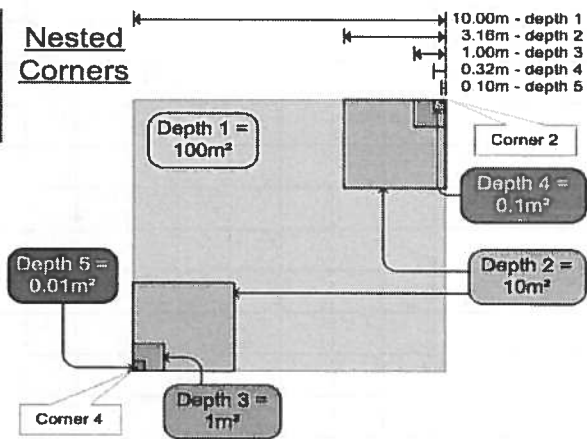
EXAMPLES OF PERCENT OF AREA COVERED

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



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

Nested Corners



BROWSE RATING NARRATIVE DESCRIPTION

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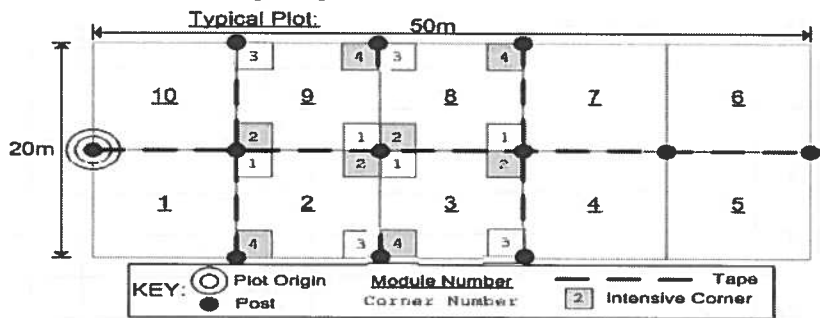
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**VERY HIGH** values include extensive browse conditions, where the browse line is very evident AND almost all seedlings and herbs are severely browsed or missing. Browse line may be 5 to 6 feet in height with no or little green growth beneath.





CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: Ol Br 2012

Plot No.: 3398

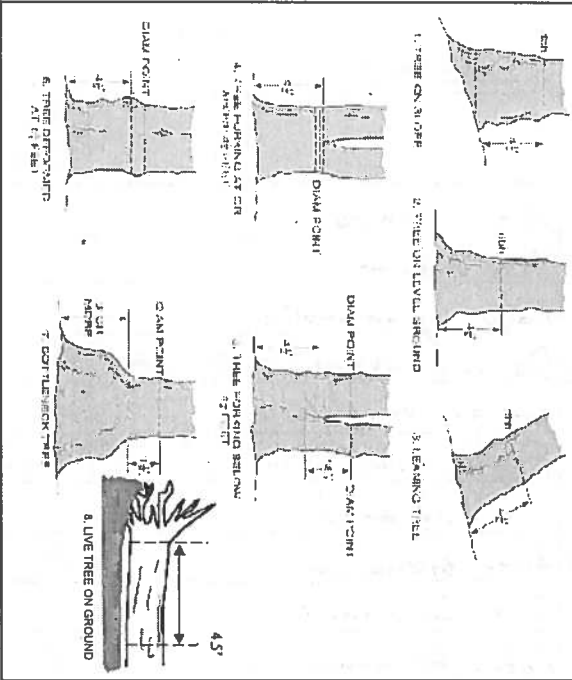
Page: 1 of 2



Explain subsample (additional room on back):

mod #	species	c	voucher#	# stems	% sub	#	size class (cm) woody stems >1.4m											11 >40 (record each tree)
				0-1.4m browsed	or super sample	shrub clumps	1 0-<1	2 1-<2.5	3 2.5-<5	4 5-<10	5 10 - <15	6 15 - <20	7 20 - <25	8 25 - <30	9 30 - <35	10 35 - <40		
✓ 1	Acer saccharum						::	□	.		.		.					54.2,
✓ 1	Acer rubrum			.				::	.									
✓ 1	Fagus grandifolia							::	:									
✓ 1	Quercus rubra																	81.7
✓ 1	Smilax rotundifolia			::		:												
✓ 2	Fagus grandifolia						.	1:	1:	::								
✓ 2	Standing dead						:	.										
✓ 2	Acer saccharum						:	⊠:	:		.						.	
✓ 2	Quercus rubra																	85.8
✓ 3	Acer saccharum			.				::	:	:								49.5
✓ 3	Fagus grandifolia							.		.								
✓ 3	Smilax <del>rotundifolia</del> hispida			.														
✓ 4	Acer saccharum						.	1:	⊠	::					.			51.0
✓ 4	Quercus alba																	92.2
✓ 4	Fagus grandifolia							:	.									
✓ 4	Standing dead						::											
✓ 4	Nyssa sylvatica																	51.8
✓ 4	Lindera benzoin			.														
✓ 5	Fagus grandifolia			.				::		.			.					
✓ 5	Acer saccharum							□	::	::								
✓ 6	Acer saccharum						.	.	:	⊠	.							
✓ 6	Prunus serotina																	71.3
✓ 6	Standing dead						.	:										
✓ 6	Fagus grandifolia							.										

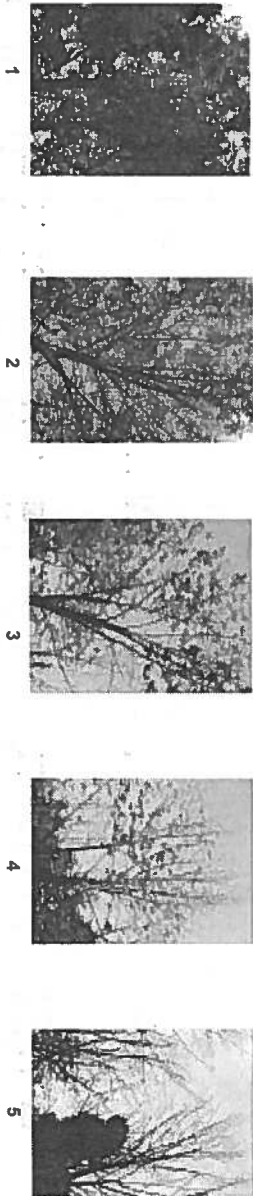
DBH Measurement Rules



Woody Stem Deer Browse

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

Record using the tally system from 1 to 10



ASH CANOPY CONDITION

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



A

B

C

D

E

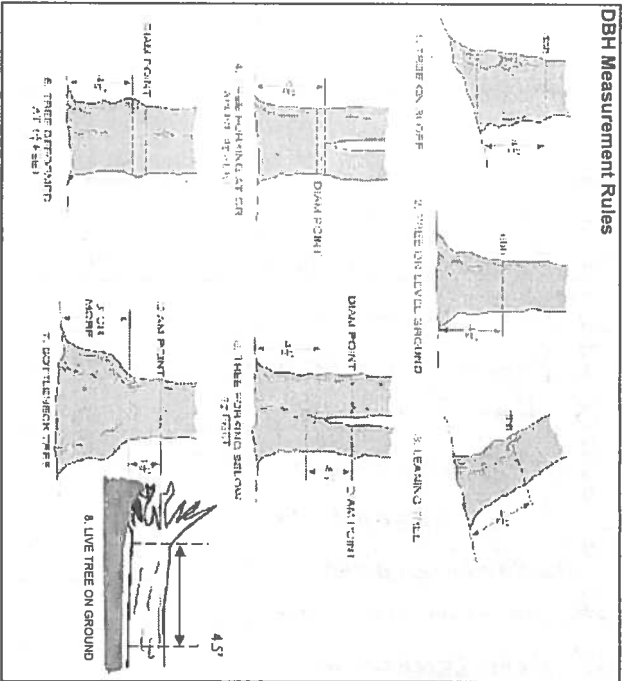
ASH CANOPY BREAKUP CONDITION (for dead trees):  
(if an ash receives a score of 5 (dead) under canopy condition it must also receive a breakup condition rank as described below)

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

 Cleveland Metroparks

Page: 2 of 2

[illegible]



**Woody Stem Deer Browse**

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

Record using the tally system from 1 to 10

•

☒

**ASH CANOPY CONDITION**

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B: Over 50% of main branches have fine twigs.

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D: Stem still standing and tertiary main branches present.

E: Central stem still standing.





Tier 1: Early detection/ Rapid response		Presence				GPS
		NE	SE	SW	NW	
Microstegium vimineum	Japanese stiltgrass					
Ranunculus ficaria	Lesser Celandine					
Cynanchum louiseae	Black Swallow-wort					
Butomus umbellatus	Flowering Rush					
Heracleum mantegazzianum	Giant Hogweed					
Tier 2: Assess as Needed		# of Plants				comments
		NE	SE	SW	NW	
Acer platanoides	Norway Maple					
Allanthus altissima	Tree of Heaven					
Lonicera japonica	Japanese Honeysuckle					
Lythrum salicaria	Purple Loosestrife					
Aegopodium podagraria	Bishop's Goutweed					
Celastrus orbiculatus	Asian Bittersweet					
Torilis sp.	Hedgeparsley					
Conium maculatum	Poison Hemlock					
Rhamnus cathartica	Common Buckthorn					
Berberis thunbergii	Japanese Barberry		21	3	1	
Alnus glutinosa	European Alder					
Dipsacus laciniatus	Cut-leaf Teasel					
Elaeagnus umbellata	Autumn Olive					
Lonicera maackii	Amur Honeysuckle			1		
Euonymus fortunei	Wintercreeper					
Tier 3: Presence is of Interest		# of Plants				comments
		NE	SE	SW	NW	
Convallaria majalis	Lily of the Valley					
Coronilla varia	Crown Vetch					
Eleutherococcus pentaphyllus	Five-leaf Aralia					
Pachysandra terminalis	Japanese Pachysandra					
Philadelphus coronarius	Mock Orange					
Pulmonaria officinalis	Lungwort					
Rubus phoenicolasius	Wineberry					
Iris pseudacorus	Yellow Flag Iris					
Ornithogalum umbellatum	Star of Bethlehem					
Viburnum opulus var. opulus	European Cranberry					
Viburnum plicatum	Doublefile Viburnum					
Tier 4: Widespread and abundant		Presence				comments
		NE	SE	SW	NW	
Alliaria petiolata	Garlic Mustard	2	2	3	3	
Ligustrum vulgare	Common Privet					
L. morrowii, L. tatarica	Bush Honeysuckles	1				
Phalaris arundinacea	Reed Canarygrass					
Phragmites australis	Phragmites					
Polygonum cuspidatum	Japanese Knotweed		1			
Frangula alnus	Glossy Buckthorn					
Rosa multiflora	Multiflora Rose		1			
Typha angustifolia, T. x.glauca	Cattails					
Cirsium arvense	Canada thistle					
Dipsacus fullonum	Common Teasel					
Hesperis matronalis	Dame's Rocket					
Vinca minor	Periwinkle					

Presence
X: yes

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

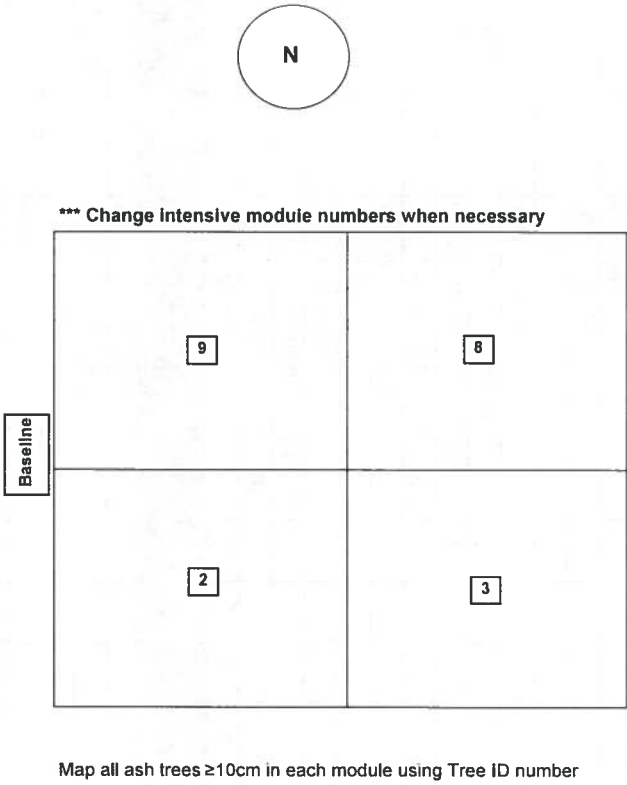
# of Plants
1: 1-10
2: 11-50.
3: 51-100
4: 101-1,000
5: >1,000

Presence
X: yes

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

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

\* If Ash Condition scores 5 (dead) provide breakup score (A-E)  
Count EAB exit holes 1.25m<sup>2</sup> x ≥1.5m  
Woodpecker and epicormic marked present (1) or absent (0)



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

Module #	C?	Corner	Corner

CLASSIFICATION

(FIT = excellent, g Fit and Confidence

Hydrogeomorphic class (WETLANDS ONLY):

☐ DEPRESSION

Fit= Conf=

☐ IMPOUNDMENT ☐ Beaver ☐ Human

Fit= Conf=

☐ RIVERINE ☐ Headwater ☐ Mainstem ☐ Channel

Fit= Conf=

☐ SLOPE (ground water hydrology or on a physical slope)

Fit= Conf=

☐ FRINGING ☐ Reservoir ☐ Natural Lake

Fit= Conf=

☐ COASTAL (specify subclass)

Fit= Conf=

☐ BOG (strongly, moderately, weekly ombrotrophic)

Fit= Conf=

Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):

☐ FOREST ☐ swamp forest ☐ bog forest ☐ forest seep

Fit= Conf=

☐ EMERGENT ☐ marsh ☐ wet meadow ☐ open bog

Fit= Conf=

☐ SHRUB ☐ shrub swamp ☐ tall sh. bog ☐ tall sh. fen

Fit= Conf=

McNAB INDICES (degrees) + for up - for down

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

		LFI*	TSI**
At aspect	N		
+45 degrees	NE		
+90 degrees	E		
+135 degrees	SE		
+180 degrees	S		
+225 degrees	SW		
+270 degrees	W		
+315 degrees	NW		

LFI is angle of plot to the horizon. TSI is angles formed by local slopes. For TSI measure angle from recorders eye to eye of person standing ~10 m away.

\* Landform Index (position within landscape)  
\*\* Terrain Shape Index (site microtopographic shape)

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

Ranks for microhabitat features. Select one or select two and average the score.NOTE: If mod falls on a slope automatically gets ranked based on steepness (1-3) to begin + any features present  
Slope 1 = slight elevational grade across module (hill)Slope 2 = falls on slope ~20°Slope 3 = maximum steepness that can be safely sampled ~45°

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

c.w.d. - count for pieces with minimum 1m length

mod#	corner	no. of tussocks	no. of hummocks	no. macro. depressions	c.w.d (2-12 cm)	c.w.d (12-40cm)	c.w.d >40 cm	microhab. interspers.	microhab. SLOPE
		depth 3	depth 2	depth 1	depth 1	depth 1	depth 1	depth 1	
		1x1m	3.16x3.16m	10x10m	10x10m	10x10m	10x10m	10x10m	10x10m
		(count)	(count)	(count)	(count)	(count)	(count)	(rank)	(rank)
2	-	0	0	0	10	0	1	2	1
3	-	0	0	0	7	2	1	2	1
8	-	0	0	0	10	0	0	2	1
9	-	0	0	0	9	2	0	2	2

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

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

Module	N	S	E	W
2	3	4	2	2
3	5	3	4	4
8	4	4	3	2
9	4	3	2	5

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

\*Very tall shrubs are sometimes included in the tree stratum

\*\*Can also include seedlings of shrubs, i.e. all shrubs <0.5m

\*\*\*Tree seedlings are often defined as up to 1.4 m height or as <2.5 cm DBH in which case they would span the herb and shrub layers.

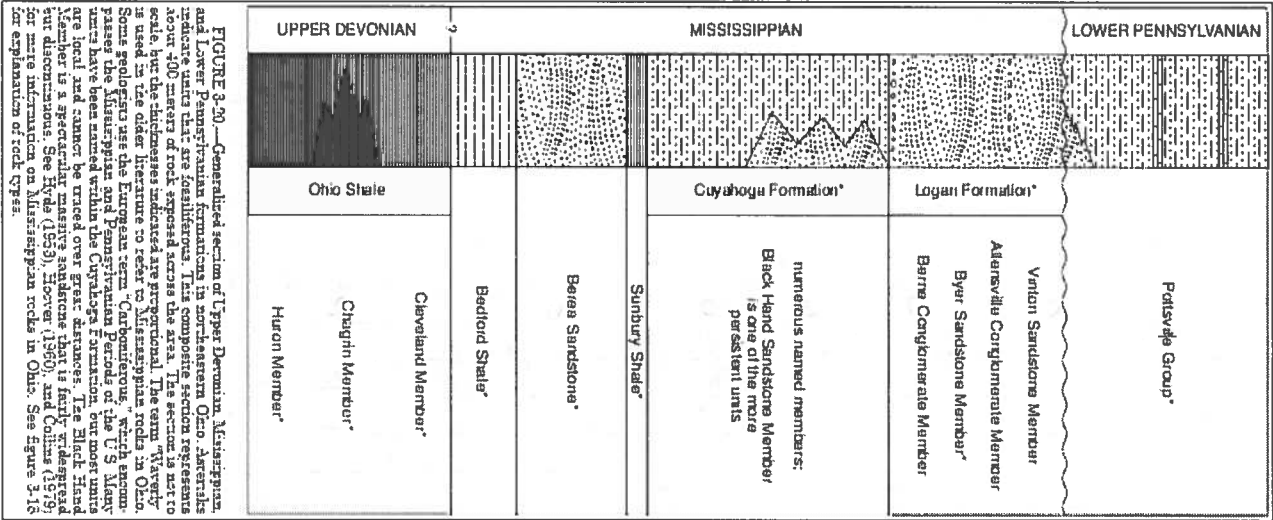
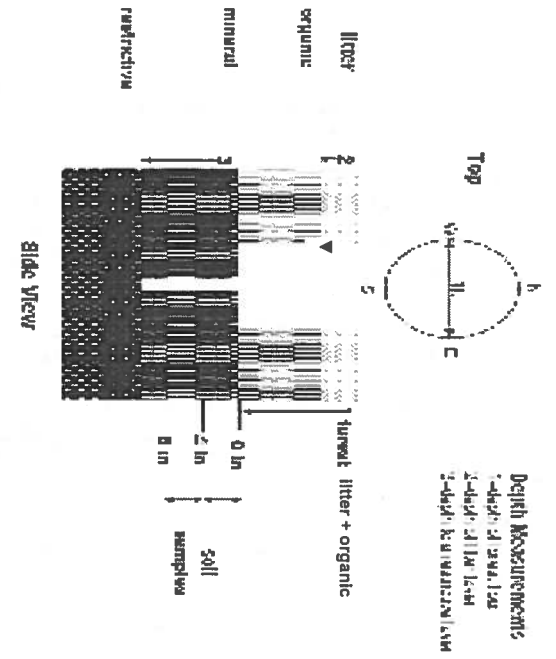


FIGURE 3-30.—Generalized section of Upper Devonian, Mississippian, and Lower Pennsylvanian formations in northeastern Ohio. Asterisks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the relative thicknesses are approximately correct. The Ohio Shale is a massive, gray to black, fine-grained sandstone. The Berea Sandstone is a massive, gray to black, fine-grained sandstone. The Sunbury Shale is a massive, gray to black, fine-grained sandstone. The Cuyahoga Formation is a massive, gray to black, fine-grained sandstone. The Logan Formation is a massive, gray to black, fine-grained sandstone. The Pottsville Group is a massive, gray to black, fine-grained sandstone. The Ohio Shale is a massive, gray to black, fine-grained sandstone. The Cleveland Member is a massive, gray to black, fine-grained sandstone. The Chagrin Member is a massive, gray to black, fine-grained sandstone. The Huron Member is a massive, gray to black, fine-grained sandstone. The Bedford Shale is a massive, gray to black, fine-grained sandstone. The Berea Sandstone is a massive, gray to black, fine-grained sandstone. The Sunbury Shale is a massive, gray to black, fine-grained sandstone. The Cuyahoga Formation is a massive, gray to black, fine-grained sandstone. The Logan Formation is a massive, gray to black, fine-grained sandstone. The Pottsville Group is a massive, gray to black, fine-grained sandstone.



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

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

Soil pit module # 3 (one per entire plot)

5 cm	matrix color	10YR 2/2		
	mottle color	—		
	%mottle	0		
	oxid roots	Y	(N)	
	texture*	1		
	redox features**	Y	(N)	
	hydr. cond.***	I S M	(D)	
20 cm	matrix color	10YR 3/2		
	mottle color	—		
	%mottle	0		
	oxid roots	Y	(N)	
	texture*	1		
	redox features**	Y	(N)	
	hydro. cond.***	I S M	(D)	

\* refer to texture classes on reverse side  
\*\* e.g. hydrogen sulfide odor, gleying, etc.  
\*\*\* Circle one:  
I=indurated S=saturated M=moist D=dry

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

No earthworms in soil pit, casting found around plot

Soil Collection Module	Horizon (A, B, C)
2,3,8,9 composited	A
Web Soil Survey Information:	
Soil Series/Type: E1B, Ellsworth Silt Loam	
Soil Series Source: Ohio Soil Survey	
Landform type: End moraines	
Depth to rest. Layer: >80"	
Parent Material: Till	
DRAINAGE:	
<input type="checkbox"/> Excessively dr. <input type="checkbox"/> Somewhat excessively	
<input type="checkbox"/> Well drained <input checked="" type="checkbox"/> Moderately well dr.	
<input type="checkbox"/> Somewhat poorly dr. <input type="checkbox"/> Very poorly dr.	
<input type="checkbox"/> Impermeable surface	

JP 8/22/12 (WSS)

SOIL DEPTH MEASUREMENT: 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)	water depth (cm)	depth sat soil (cm)
2	5.2	5.2	0	>30
3	1.1	1.1	0	>30
8	2.4	2.4	0	>30
9	2.6	2.6	0	>30

EARTH SURFACE & GROUND COVER			
Underlying Earth Surface*		Ground Cover	
(Sum = 100%)	percent	(Each ≤ 100%)	percent
Histosol	0	Coarse Woody Debris***	5
Mineral Soil	23	Fine Woody Debris****	3
Gravel-Cobble*	75	Litter	96
Boulder**	2	Duff (Ferm.+ Humus)	0
Bedrock	0	Bryophyte- Lichen	2
* Gravel-Cobble = 1/16-10"		Water	0
**Boulder = > 10 in		Bare Soil	2
*** >5 cm in diameter		Road/Trail	0
**** <5 cm in diameter		Other	

TRAIL INFORMATION:

record type and cover for each

Type	%Cover
<input type="checkbox"/> All Purpose	
<input type="checkbox"/> Bridle	
<input type="checkbox"/> Hiking sanctioned	
<input type="checkbox"/> Bootleg unsanctioned	
<input type="checkbox"/> Gravel	
<input type="checkbox"/> Deer	

No trails

COVER BY STRATA

estimate using midpoints of 5,ex:3, 8, 13

Strata	Height Range (m)	Total Cover (%)
Tree	7.5	83
Shrub	5.5	78
Herb	<.5	8
(Floating)*	-	
(Aquatic)*	-	

\* rooted and floating or slightly emerged

\*\* submersed, most plant mass below surface

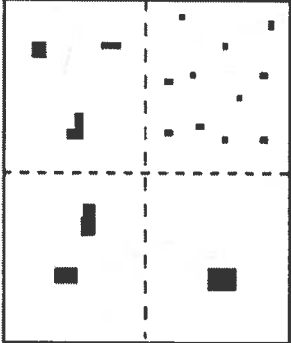
SEE BACK OF PAGE FOR "TYPICAL" STRATA DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE.

STAND SIZE

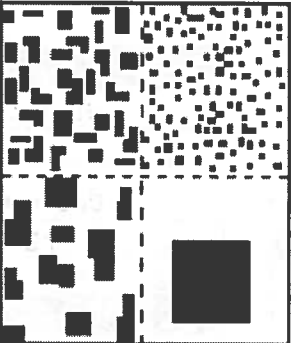
- ☐ >600 x plot size  
☐ > 100 x plot size  
☒ 10-100 x plot size  
☐ 3-10 x plot size  
☐ 1-3 x plot size  
☐ < plot size

PERCENT MOTTLES (USE CLASS CODES):

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



2%



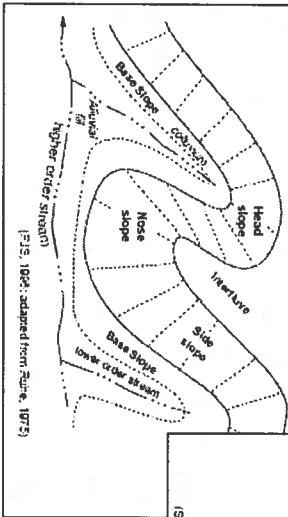
20%

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

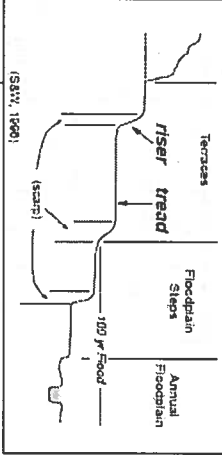
- 0= Organic
- 1= Loamy
- 2= Clayey
- 3= Sandy
- 4= Coarse Sand
- 9= Not measured - make plot note

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

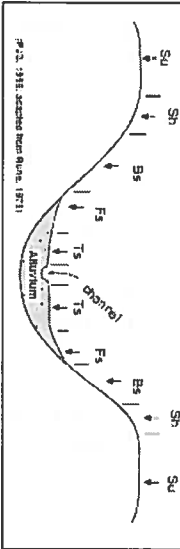
Hills	Code	Code	Code
	PPP	NASIS	
interfluvial	IF	IF	
head slope	HS	HS	
nose slope	NS	NS	
side slope	SS	SS	
base slope	—	BS	



Terraces	Code
riser	RI
tread	TR



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



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

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

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

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

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

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

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

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

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

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

●

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): ●

Site ID: PLAP

DATE: 08/21/2012

Location:

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

○ AA Center

○ N

○ S

○ E

● W

○ 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 plot. 0 = Absent; 1 = Sparse(<10%); 2=Moderate(10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (>75%)

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

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

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

Habitat/Vegetation Stressors

Industrial Development Stressors				Habitat/Vegetation Stressors						
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	
Oil Drilling						Forest Clear Cut				
Gas Wells						Forest Selective Cut				
Mine (surface)						Tree Plantation				
Mine (underground)						Tree Canopy Herbivory (INSECT)				
Military						Shrub Layer Browsed (WILD OR DOMESTIC)				
Other:						Highly Grazed Grasses (OVERALL <3' HIGH)				
Other:						Recently Burned Forest Canopy				
Other:						Recently Burned Grassland (BLACKENED)				

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

Buffer Sample Plots 05/27/2011

2428168304





Site ID: PCAP Br 3488

















































































































DATE: 08/21/2012

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



































































































































AA Center ON S OE OW Plot 1 Plot 2 Plot 3

Buffer Natural Cover Strata

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

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

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

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

Industrial Development Stressors					Habitat/Vegetation Stressors									
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag
Oil Drilling	<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"/>	





Site ID: PCAP R 3318



























































































































DATE: 08/21/2012

Location: AA Center    ON    OS    OE    OW    Plot 1    Plot 2    Plot 3

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

Buffer Natural Cover Strata

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

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

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

Residential and Urban Stressors				Hydrology Stressors				Agricultural & Rural Stressors						
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag
Road - gravel	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Ditches, Channelization	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Pasture/Hay	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Road - two lane	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Dike/Dam/Road/RR Bed (IMPERME FLOW)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Range	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Road - four lane	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Water Level Control Structure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Row Crops	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Parking Lot/Pavement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Excavation, Dredging	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Fallow Field (RECENT-RESTING ROW CROP FIELD)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Golf Course	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Fill/Spoil Banks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Fallow Field (OLD - GRASS, SHRUBS, TREES)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Lawn/Park	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Freshly Deposited Sediment (UNVEGETATED)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Nursery	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Suburban Residential	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Soil Loss/Root Exposure	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" 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 IMPERVIOUS surface input (SHEETFLOW)	<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"/>			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Gravel Pit	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: <input type="text"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other: <input type="text"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Irrigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: <input type="text"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other: <input type="text"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other: <input type="text"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

Industrial Development Stressors					Habitat/Vegetation Stressors				
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag
Oil Drilling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Forest Clear Cut	<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"/>	
Mine (surface)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Tree Plantation	<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"/>	
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"/>	
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"/>	
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"/>		Recently Burned Grassland (BLACKENED)	<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.

Buffer Sample Plots    05/27/2011

2428168304



GARC  
Burbank  
Rosa

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

Reviewed by (initial):

Site ID:

PCA BC 3398

DATE:

08/21/2012

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

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

PLOT COORDINATES

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

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

Flag

Location of coordinates (choose one):

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

Latitude North 41.32074 Longitude West 081.61198

Use Decimal Degrees; NAD83

Flag

Comments

1 Gravel Hiking trail Falls in plot 1 and plot 3

Buffer Sample Points - Targeted Alien Species

05/27/2011

7966623548



FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initials):

Site ID: PCAP B, 3348

DATE: 08/21/2012

Location:

☐ AA Center ☒ N ☐ OS ☐ OE ☐ OW

Fill in bubbles (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(<10%); 2=Moderate(10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (>75%)

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

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

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

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

Buffer Sample Plots

05/27/2011

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

2428168304



Site ID: RCAF Br 3398

DATE: 08/21/2012

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

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

PLOT COORDINATES

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

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

Location of coordinates (choose one):

Flag

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

2

Latitude North 41.32156

Longitude West 081.61335

Use Decimal Degrees: NAD83

Flag	Comments
1	Plot 3 could not be sampled because of steepness down to creek safety hazard
2	GPS taken near plot 3 at top of steep cliff



FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial):

Site ID: RAB&3396

DATE: 08/ 01/ 2012

Location: AA Center    ON   OS   OE   OW      Fill in bubble(s) if plot(s) could not be sampled and flag →

AA Center    ON   OS   OE   OW      O Plot 1    O Plot 2    O Plot 3

Buffer Natural Cover Strata

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

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

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

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

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

Industrial Development Stressors					Habitat/Vegetation Stressors				
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag
Oil Drilling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Forest Clear Cut	<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"/>	
Mine (surface)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Tree Plantation	<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"/>	
Military	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Shrub Layer Browsed (WILD OR DOMESTIC)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Highly Grazed Grasses (OVERALL <7 HIGH)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Recently Burned Forest	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Canopy Recently Burned Grassland (BLACKENED)	<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"/>	

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

Buffer Sample Plots

05/27/2011

2428168304



