CLEVELAND METROPARKS Plant Community Assessment Program: Quality Control Form Cleveland Metroparks

Project Label: PCAP **Plot No:** 265 **Date Sampled:** 7-26-12 **Lead:** Eysenbach

			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	X-axis Bearing of plot recorded	(Y) N	
	GPS coords. Recorded	(Y) N	
	North direction recorded	(Y) N	
	Photographs taken?	(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	
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	
Vouchers labeled on collection bag		(Y) N	
Pink flags removed		(Y) N	
Data sheet QA before leaving site?		(Y) N	
Common equipment returned to tub.		Y N	
Data sheets scanned?		7/27/12	Enter date to left NZ
Final data sheets scanned?			Enter date to left
Buffer Widths measured?		(Y) N	KL 7-3-12
Web Soil Survey		(Y) N	TK 7-27-12
Voucher Location	Refrigerator	Y N	
(# vouchers collected) SRE 580-586	Press (#)		Enter number to left
	Drier	Y N	
	Identified	(Y) N	
	Mounted	Y N	
	Thrown away	Y N	

GRTS point verification: Is plot sampleable?	
☑ Yes	Original GRTS point is sampleable
☐ No	Original GRTS point lands in a non-sampleable area (fill in category below)
	☐ Point falls in a water (i.e. river, lake)
	☐ Managed mowed area (i.e. golf course, picnic area, right-of-way)
	☐ Paved area (i.e. parkinglot, road)
	☐ Unsafe to sample (i.e. steep slope)
	☐ Other

Additional Comments:

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

GENERAL INFORMATION

Project Label: PCAP

Project Name: 01Br 2012

Plot Name: Wild Turkey

Plot No.: 1265

☐ Level 4 (no nested corners sampled)

■ Level 5 (nested corners sampled)

Date (mm/dd/yyyy): 7/26/2012

End date (if > 1 day): / /

Party	Role**
S. Eysenbach	Plot leader
A. Young	Asst
M. Breath	Asst

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

PLOT NOT SAMPLED: ☐ Other

☐ Perm. water ☐ Paved ☐ Slope ☐ Safety

SAMPLING QUALITY*

Effort Level:

☑ Very thorough

☐ Accurate

☐ Hurried

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

TAXONOMIC ACCURACY

	high	modera.	low	not smpl
vascul.	✓			n/a
bryo			✓	
lichen				✓

TAXONOMIC STANDARD

Authority: G&C Pub Date: 1998

LOCATION

State: OH County: Cuyahoga

Quadrangle: Northfield

Local Place Names: Brecksville Stables

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: ■ Lat/Long ☐ UTM ☐ StatePlane ☐ Other (*specify*)

Coord. Units: ■ deg ☐ deg min ■ 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: 41.29888

Longitude: 81.60904

Coord. Accuracy: ☑ m ☐ ft +23

GPS File Name: 1265A

Plot size for cover data: _____ (hectares)

X-axis Bearing of plot: [267] °

Depth: (1-5): 4

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

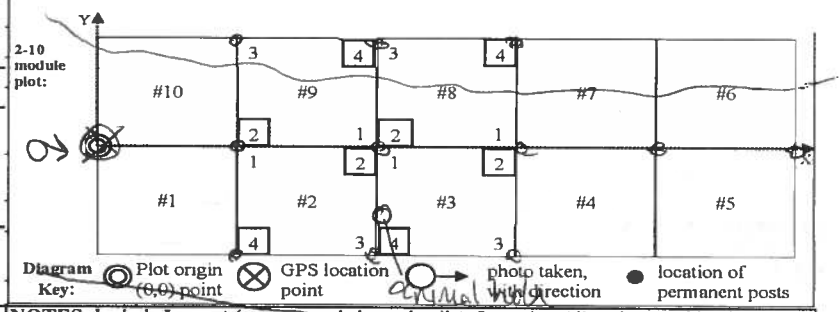
Camera No.: 2

Photo Nos.: C2-2001

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.

Horse Pasture

Layout: 2X5

Location: Park at Brecksville Stables. Walk Approx 200 m SW to plot South of fenced pastures

Rationale: GRTS pt.

Veg Char. Disturbed Edge Community

Canopy: Red Maple, Ash, Elm

Shrub: Red Maple, Bush honeysuckles Privet

Herb: Grasses + Sedges White grass, Sweet Kernal grass, Velvet grass, ~~Sedg~~ Carex debilis

Solf heal, Poison Ivy, Calico Aster

OVER

Minimum required fields in Bold and Underlined

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

CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a Page 1 of 4

Project Label: PCAP Project name: OIBr2012 Plot no.: 1265

Total modules: 10 Intensive modules: 4 Plot configuration: 2x5 Plot area (ha): 0.1

Cleveland Metroparks

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

Strata - Cov. entire plot

Estimate for each intensive module:

	mod 2	corner 4	mod 2	corner 2	mod 3	corner 4	mod 3	corner 2	mod 8	corner 4	mod 8	corner 2	mod 9	corner 4	mod 1	corner 2	mod R	corner R
	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov
%open water	1	8			1	0			1	8			1	0				
%unvegetated open water	1	8			1	0			1	8			1	0				
%unveg. ground (bare soil)	1	2			1	1			1	2			1	1				
%unveg. litter (bare litter)	1	5			1	5			1	5			1	5				

T	S	H	(F)	(A)	Br	Species	c	Voucher #	mod depth	mod cov	corner depth	corner cov	mod depth	mod cov	corner depth	corner cov	mod depth	mod cov	corner depth	corner cov	mod depth	mod cov	corner depth	corner cov	mod depth	mod cov	corner depth	corner cov	mod depth	corner cov
5	5	2			10	Fagus grandifolia			4	4															4	3				
		2			9	Fraxinus sp. (seedlings)			3	6	2		2	2	3		3	2	3		2	2	3							
8	5					Acer rubrum			4	7	3		4	9	4		4	9	4		4	7	4							
	2	2			10	Ligustrum vulgare					2	3	1	3			-		2	2	1	2								
	2	2			10	Rosa multiflora					2	3	3	3	2		2	2	2		2	2								
		6				Leersia virginica			4	2	3	3	4	5	4		2	5			4	6	4							
3		2				Picea abies)?			2	2	3		2	2			-		3	2	1	3								
						~~Xanthonia~~																								
		2				Dactylis glomerata			1	2			1	2																
		3				Holcus lanatus			4	3			3	3							1	1								
		3				Poa trivialis			4	3			3	2			-		2	2	2	2	2							
		2				Toxicodendron radicans			2	2	2		1	2			2	2			2	2	3							
		2				Prunella vulgaris			3	2			1	2					3	2										
		2				Oxalis stricta			3	2	4		3	2			2	2	3		1	2								
		2			9	Aster lateriflorus			2	2	3		2	2	2		-		2	2	4	2	2							
		2				Panicum lanuginosum	X	SRE 580	2	2							1	1					2	2						
	2	1			9	Rubus occidentalis			2	2			2	2																
	2	2			8	Rubus allegheniensis			2	2			3	2																
		6				Anthoxanthum odoratum			2	6	4		4	3					4	3	-		3	2						
		2			6	Rhamnus frangula			2	2	2		4	2					3	2	1	2								
tardy ex sort		2				~~Poa~~ Agrostis stolonifera 2533 in 3	X	SRE 581	2	2			2	1																
		2			10	Ulmus sp (seedlings)			2	2			3	2	3		2	2	3		2	2								
Dark green		1				~~Unk~~ poaceae sp. 258		C2-2002	2	2																				
		1				Carex cephalophora 10412	X	SRE-582	1	2																				
		2				Parthenocissus quinquefolia			1	2			2	1							1	2								

CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a Page 2 of 4

Project Label: PCAP Project name: 01 Br 2012 Plot no.: 1265

Total modules: 10 Intensive modules: 4 Plot configuration: 2x5 Plot area (ha): 0.1

Cleveland Metroparks

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

Strata - Cov. entire plot

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
%open water	1				1				1				1							
%unvegetated open water	1				1				1				1							
%unveg. ground (bare soil)	1				1				1				1							
%unveg. litter (bare litter)	1				1				1				1							

T	S	H	(F)	(A)	Br	Species	c	Voucher #	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov
✓	2	2			10	Lonicera morrowii			1	2			2	2			2	2	4		2	2						
✓		2				Carex ~~sp~~ digitalis ZSB 10-9-12	X	SRE 583	1	2																		
✓		3				Carex complanata var hirsuta			1	3			1	2			1	2			2	2	4					
✓	4	1				Sassafrass albidum					2	5									+1	2						
✓	6				10	Fraxinus ~~sp~~ americana SRE 8-22-12					4	7	2	7					4	4			4	5				
✓		2				Alliaria petiolata			1	1													2	2				
✓		2			6	Carya sp. (seedling)			1	2			+1	1			1	1			+1	1						
✓		2				Vitis sp (seedling)			1	2			3	2	2						+		2	1				
✓		1				Liriodendron tulipifera			1	1																		
✓		2				Hackelia virginiana					3	2					+1	1			3	1						
✓		2				Prunus serotina			1	1			2	2							+		2	1				
✓		2				Veronica officinalis					2	2	3	2			-		3	2			2	1				
✓		2				Taraxacum officinale			1	1			→		2	2			3	2	1	1						
✓	2	2			10	Lonicera maackii					2	2	+		2	2					+1	2						
✓		2				moss sp.			1	2			2	2			1	2			1	2						
✓		1				bevm sp. ZSB 10-9-12			1	1			+1	1			→		3	1								
✓		2				Torilis ~~sp~~ japonica	X	SRE 584	1	2			+1	1														
✓		2				Circaea lutiana			1	1																		
✓		1				Phleum pratense			1	1																		
✓		2				Potentilla simplex			1	2																		
✓		1				Galium aparine			1	1			2	1														
✓	2	2			8	Berberis thunbergii			1	2			+1	1			-1	3			+		4	2				
✓		2				Poaceae sp. ZSB 10-9-12		SRE 585					3	2														
✓		1			9	Cornus sp.							2	1														
✓		2				Cinna arundinacea							2	2	2		-		2	2	2	1						

thin

CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a Page 3 of 4

Project Label: PCAP Project name: 01Br2012 Plot no.: 1265

Total modules: 10 Intensive modules: 4 Plot configuration: 2x5 Plot area (ha): 0.1

Cleveland Metroparks

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

Strata - Cov. entire plot

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
%open water	1				1				1				1					
%unvegetated open water	1				1				1				1					
%unveg. ground (bare soil)	1				1				1				1					
%unveg. litter (bare litter)	1				1				1				1					

T	S	H	(F)	(A)	Br	Species	c	Voucher #	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov
✓		2				Acer sp. (Seedlings)							2	1																
✓		1				Smilax rotundifolia							2	1																
✓		2			10	~~Oak tree~~ Populus grandidentata (2-3003 (woody, fuzzy)							1	2																
✓		1				Cerastium vulgatum							1	2																
✓		1				Quercus sp (seedlings)									2	1			2	1										
✓		1				Bidens sp.							1	1																
✓		2				Juncus tenuis							1	2			1	1												
✓		3				Glyceria striata									2	2			2	3										
✓	6					Ulmus americana							1	6	1															
✓		1			10	Viburnum dentatum							1	1																
✓		1				Plantago major							1	1																
✓		6				Carex debilis var rudgei											1	3			3	2								
✓		1				Crataegus sp															1	1								
✓		2				Carex vulpinoidea															2	2								
✓		2				Juncus effusus															2	2								
✓		1				Polygonum virginianum															1	1								
✓		2				Polystichum acrostichoides																							R	2
✓	3					Ostrya virginiana																							R	3
✓	6					Carya ovata																							R	6
✓		1				Fraxinus tomentosa																							R	1
✓		2				Carex sp. (blue/glaucous)																							R	2
✓		2				Galium triflorum 2013, 2012, 12	X	SRE 586																					R	2
✓		2				Carex sp (rosea/radiata)																							R	2
✓		2				Veronica serphyllifolia ssp?																							R	2
✓	5					Cornus florida																							R	4

dark wide brac

CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a Page 4 of 4

Project Label: PCAP Project name: 01 Br2012 Plot no.: 1265

Total modules: 10 Intensive modules: 4 Plot configuration: 2x5 Plot area (ha): 0.1

Cleveland Metroparks

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

Strata - Cov. entire plot

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	29	4	19	2		R	R		
	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov		
%open water	1				1				1				1							
%unvegetated open water	1				1				1				1							
%unveg. ground (bare soil)	1				1				1				1							
%unveg. litter (bare litter)	1				1				1				1							

T	S	H	(F)	(A)	Br	Species	c	Voucher #	mod depth	mod cov	corner depth	corner cov	mod depth	mod cov	corner depth	corner cov	mod depth	mod cov	corner depth	corner cov	mod depth	mod cov	corner depth	corner cov	mod depth	mod cov	corner depth	corner cov	mod depth	mod cov	corner depth	corner cov	mod depth	mod cov
shedding in																																
✓ 2						Acer saccharum																									R	2
✓		1				Dryopteris carthusiana																									R	1
✓		1				Rumex crispis																									R	1
✓ 5						Quercus rubra																									R	6

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP Project Name: 01Br 2012 Plot No.: 1265 Page: 1 of 4

Cleveland Metroparks

Explain subsample (additional room on back):

mod #	species	c	voucher#	# stems 0-1.4m browsed	% sub or super sample	# shrub clumps	size class (cm) woody stems >1.4m 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	11 >40 (record each tree)
1	Quercus rubra													•			
1	Standing dead								•	••	•		•				
1	Fagus grandifolia			□						•	•						
1	Acer rubrum								•	••	•	••	•				
1	Picea abies											•		•			
1	~~Sas~~ Fraxinus ~~sp~~ americana											•					
1	Ligustrum vulgare			•		⊠											
1	Lonicera morrowii					••											
1	Rosa multiflora					•											
1	Berberis thunbergii					•											
2	Fraxinus ~~sp~~ americana			•													41.3
2	Sassafras albidum												•				
2	Standing dead								•								
2	Acer rubrum													•	••		
2	Rosa multiflora			••		••											
2	Lonicera ~~morrowii~~ maackii			••		••											
2	Rubus occidentalis			••		••											
2	Berberis thunbergii					•											
2	Ligustrum vulgare					°											
3	Fraxinus ~~sp~~ americana																40.7
3	Acer rubrum								••		••	••					
3	Standing dead								••	•							
3	Ulmus americana										•						
3	Lonicera morrowii			••		••											

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP Project Name: 01 Br 2012 Plot No.: 1265 Page: 2 of 4

Cleveland Metroparks

Explain subsample (additional room on back):

mod #	species	c	voucher#	# stems 0-1.4m browsed	% sub or super sample	# shrub clumps	size class (cm) woody stems >1.4m 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	11 >40 (record each tree)
3	Rosa multiflora																
3	Ligustrum vulgare																
4	Standing dead																
4	Ulmus americana																
4	Acer rubrum																
4	Fraxinus sp. americana																
4	Berberis thunbergii																
4	Rosa multiflora																
4	Ligustrum vulgare																
4	Lonicera maackii																
5	Standing dead																
5	Fraxinus sp. americana																
5	Acer rubrum																
5	Cornus florida																
5	Ligustrum vulgare																
5	Lonicera maackii																
5	Rosa multiflora																
6	Standing dead																45.1
6	Acer rubrum																
6	Fraxinus sp. americana																
6	Ulmus americana																
6	Rosa multiflora																
6	Berberis thunbergii																

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP Project Name: 01Br2012 Plot No.: 1265 Page: 3 of 4

Cleveland Metroparks

Explain subsample (additional room on back):

mod #	species	c	voucher#	# stems 0-1.4m browsed	% sub or super sample	# shrub clumps	size class (cm) woody stems >1.4m 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	11 >40 (record each tree)
6	Ligustrum vulgare					••											
7	Fraxinus sp. americana SRE 8-23-12											•		•			
7	Acer rubrum									••	•	•					54.0
7	Ulmus americana									•	•			•			
7	Standing dead													•			
7	Rosa multiflora			••		••											
7	Ligustrum vulgare					•											
7	Lonicera morrowii					••											
7	Berberis thunbergii					•											
8	Standing dead											•					
8	~~Ulm~~ Ligustrum vulgare					•											
8	Acer rubrum									•		•	••	•			
8	Rosa multiflora			••		••											
8	Lonicera morrowii					•											
8	Berberis thunbergii					••											
9	Acer rubrum									••	•		•				43.8
9	Picea ~~sp.~~ abies SRE 8-23-12													•			
9	Berberis thunb					•											
9	Rosa multiflora			••		••											
9	Ligustrum vulgare					•											
10	Acer rubrum								••	••							
10	Fraxinus ~~sp.~~ americana																43.1
10	Carya ovata										•						
10	Ostrya virginiana									•							

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Cleveland Metroparks

Project Label: PCAP Project Name: 01Br2012 Plot No.: 1265 Page: 4 of 4

Explain subsample (additional room on back):

mod #	species	c	voucher#	# stems 0-1.4m browsed	% sub or super sample	# shrub clumps	size class (cm) woody stems >1.4m 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	11 >40 (record each tree)
10	Picea ~~sp.~~ abies		10-23-12											•			
10	Standing dead										•						
10	Ligustrum vulgare			••		::											
10	Berberis thunbergii					::											
10	Rosa multiflora			•		•											

3aCM PCAP Natural Woody Stem Data Sheet ver 2.0.xls last revised 5/29/2012 jjm

Natural Resources Management FORM NR/2010-03a

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet 6a

Project label: PCAP Project Name: 01Br 2012 Plot No.: 1265

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

Soil pit module # 3 (one per entire plot)

5 cm	matrix color	10YR 4/3	
	mottle color	NA	
	%mottle	NA	
	oxid roots	Y	(N)
	texture*	1	
	redox features**	Y	(N)
	hydr. cond.***	I S M	(D)
20 cm	matrix color	10YR 4/4	
	mottle color	NA	
	%mottle	NA	
	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=indundated S=saturated M=moist D=dry

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

(+) castings

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

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

Soil Series/Type: MgB, Mahoning silt loam

Soil Series Source: Ohio Soil Survey

Landform type: Till Plains

Depth to rest. Layer: 780 inches

Parent Material: Till

- ☐ Excessively dr.
- ☐ Somewhat excessively
- ☐ Well drained
- ☐ Moderately well dr.
- ☑ Somewhat poorly dr.
- ☐ Very poorly dr.
- ☐ Impermeable surface

TK 7-27-12

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	1.8	1.8	0	>30
3	2.1	2.1	0	>30
8	2.1	2.1	0	>30
9	1.6	1.6	0	>30

EARTH SURFACE & GROUND COVER

Underlying Earth Surface* (Sum = 100%)	percent	Ground Cover (Each ≤ 100%)	percent
Histosol	0	Coarse Woody Debris***	15
Mineral Soil	99	Fine Woody Debris****	8
Gravel-Cobble*	1	Litter	68
Boulder**	0	Duff (Ferm.+ Humus)	0
Bedrock	0	Bryophyte- Lichen	2
* Gravel-Cobble = 1/16-10"		Water	0
**Boulder = > 10 in		Bare Soil	3
*** >5 cm in diameter		Road/Trail	0
**** <5 cm in diameter		Other	

TRAIL INFORMATION:

record type and cover for each

Type	%Cover
☐ All Purpose	
☐ Bridle	
☐ Hiking sanctioned	
☐ Bootleg unsanctioned	
☐ Gravel	
☐ Deer	

No trails

COVER BY STRATA %

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

Strata	Height Range (m)	Total Cover (%)
Tree	>5	83
Shrub	.5 - 5	8
Herb	<.5	48
(Floating)*	-	
(Aquatic)*	-	

* rooted and floating or slightly emersed

** 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

CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover and Earth Surface

Project Label: PCAP Project Name: OLBC 2012 Plot No.: 1265

Cleveland Metroparks

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

Module #	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 depth 3 1x1m (count)	no. of hummocks uplands (Tip-Ups) depth 2 3.16x3.16m (count)	no. macro. depressions depth 1 10x10m (count)	c.w.d (2-12 cm) depth 1 10x10m (count)	c.w.d (12-40cm) depth 1 10x10m (count)	c.w.d >40 cm depth 1 10x10m (count)	microhab. interspers. depth 1 10x10m (rank)	microhab. SLOPE 10x10m (rank)
2		0	0	1	32	5	0	2	1
3		0	0	2	36	2	0	2	1
8		0	0	1	24	2	0	2	1
9		0	0	1	13	2	1	2	1

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

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

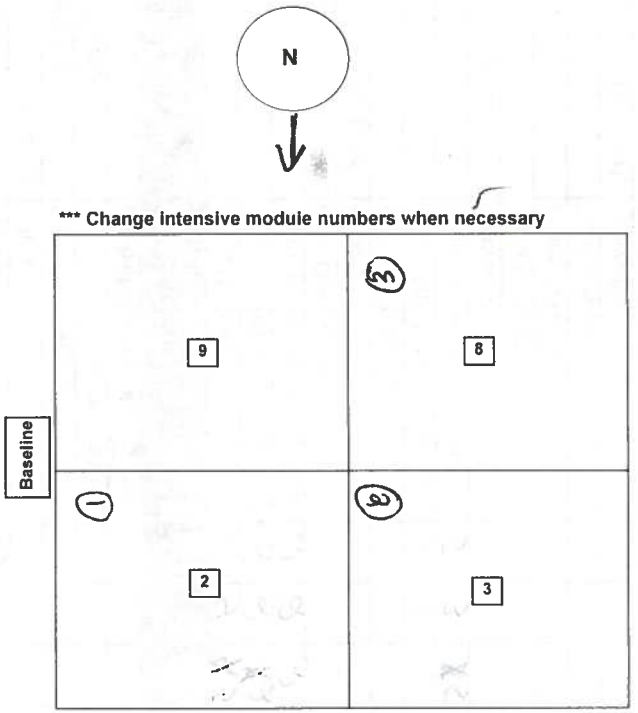
Module	N	S	E	W
2	10	12	15	9
3	3	7	5	9
8	4	12	8	7
9	9	7	7	5

34 38 26
5 1 1
1 2 1

CLEVELAND METROPARKS Emerald Ash Borer - Fraxinus Sheet — *INTENSIVE MODULES ONLY* — *TREES ≥ 10CM ONLY*

Project Label: PCAP Project Name: 01 Bx 2012 Plot No.: 1265 Date: 7-26-2012 Page: 1 of 2

Module	Tree ID.	Species	Dead	c	Voucher #	DBH (cm)	Ht @ DBH	ASH Only: Ash condition	ASH Only: *Dead condition	ASH Only: # Exit holes	ASH Only: Epicormic present	ASH Only: Woodpecker holes
2	1	Fraxinus sp. americana				41.3		3		0	0	1
3	2	Fraxinus sp. americana				40.7		2		0	0	1
8	3	Fraxinus sp. americana				17.7		5	C	0	0	1
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											
	13											
	14											
	15											
	16											
	17											
	18											
	19											
	20											
	21											
	22											
	23											
	24											
	25											



Map all ash trees ≥10cm in each module using Tree ID number

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

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial): _____

Site ID: PCAPBC1265

DATE: 07 / 26 / 2012

Location: ● AA Center ○ N ○ S ○ E ○ W

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

Buffer Natural Cover Strata

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

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

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

Residential and Urban Stressors

Fill bubble if present - Plot	1	2	3	Flag
Road - gravel	○	○	○	
Road - two lane	○	○	○	
Road - four lane	○	○	○	
Parking Lot/Pavement	○	○	○	
Golf Course	○	○	○	
Lawn/Park	○	○	○	
Suburban Residential	○	○	○	
Urban/Multifamily	○	○	○	
Landfill	○	○	○	
Dumping	○	○	○	
Trash	○	○	○	
Other:	○	○	○	
Other:	○	○	○	

Hydrology Stressors

Fill bubble if present - Plot	1	2	3	Flag
Ditches, Channelization	○	○	○	
Dike/Dam/Road/RR Bed (IMPEDE FLOW)	○	○	○	
Water Level Control Structure	○	○	○	
Excavation, Dredging	○	○	○	
Fill/Spoil Banks	○	○	○	
Freshly Deposited Sediment (UNVEGETATED)	○	○	○	
Soil Loss/Root Exposure	○	○	○	
Wall/Riprap	○	○	○	
Inlets, Outlets	○	○	○	
Point Source/Pipe (EFFLUENT OR STORMWATER)	○	○	○	
Impervious surface input (SHEETFLOW)	○	○	○	
Other:	○	○	○	
Other:	○	○	○	

Agricultural & Rural Stressors

Fill bubble if present - Plot	1	2	3	Flag
Pasture/Hay	○	○	○	
Range	○	○	○	
Row Crops	○	○	○	
Fallow Field (RECENT-RESTING ROW CROP FIELD)	○	○	○	
Fallow Field (OLD - GRASS, SHRUBS, TREES)	○	○	○	
Nursery	○	○	○	
Dairy	○	○	○	
Orchard	○	○	○	
Confined Animal Feeding	○	○	○	
Rural Residential	○	○	○	
Gravel Pit	○	○	○	
Irrigation	○	○	○	
Other: Horse Farm	●	○	○	1

Industrial Development Stressors

Fill bubble if present - Plot	1	2	3	Flag
Oil Drilling	○	○	○	
Gas Wells	○	○	○	
Mine (surface)	○	○	○	
Mine (underground)	○	○	○	
Military	○	○	○	
Other:	○	○	○	
Other:	○	○	○	
Other:	○	○	○	

Habitat/Vegetation Stressors

Fill bubble if present - Plot	1	2	3	Flag
Forest Clear Cut	○	○	○	
Forest Selective Cut	○	○	○	
Tree Plantation	○	○	○	
Tree Canopy Herbivory (INSECT)	○	○	○	
Shrub Layer Browsed (WILD OR DOMESTIC)	●	○	○	
Highly Grazed Grasses (OVERALL <3" HIGH)	○	○	○	
Recently Burned Forest Canopy	○	○	○	
Recently Burned Grassland (BLACKENED)	○	○	○	

Fill bubble if present - Plot	1	2	3	Flag
Herbicide Use	○	○	○	
Mowing/Shrub Cutting	○	○	○	
Trails	○	○	○	
Soil Compaction (ANIMAL OR HUMAN)	○	○	○	
Offroad vehicle damage	○	○	○	
Soil erosion (FROM WIND, WATER, OR OVERUSE)	○	○	○	
Other:	○	○	○	
Other:	○	○	○	

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

2428168304

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial): _____

Site ID: PCAPBr 1265 DATE: 07/26/2012

Location: ○ AA Center ● N ○ S ○ E ○ W

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

Buffer Natural Cover Strata

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

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

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

Fill bubble if present - Plot	1	2	3	Flag
Road - gravel	○	○	○	
Road - two lane	○	○	○	
Road - four lane	○	○	○	
Parking Lot/Pavement	○	○	○	
Golf Course	○	○	○	
Lawn/Park	○	○	○	
Suburban Residential	○	○	○	
Urban/Multifamily	○	○	○	
Landfill	○	○	○	
Dumping	○	○	○	
Trash	○	○	○	
Other:	○	○	○	
Other:	○	○	○	

Hydrology Stressors

Fill bubble if present - Plot	1	2	3	Flag
Ditches, Channelization	○	○	○	
Dike/Dam/Road/RR Bed (IMPEDE FLOW)	○	○	○	
Water Level Control Structure	○	○	○	
Excavation, Dredging	○	○	○	
Fill/Spoil Banks	○	○	○	
Freshly Deposited Sediment (UNVEGETATED)	○	○	○	
Soil Loss/Root Exposure	○	○	○	
Wall/Riprap	○	○	○	
Inlets, Outlets	○	○	○	
Point Source/Pipe (EFFLUENT OR STORMWATER)	○	○	○	
Impervious surface input (SHEETFLOW)	○	○	○	
Other:	○	○	○	
Other:	○	○	○	

Agricultural & Rural Stressors

Fill bubble if present - Plot	1	2	3	Flag
Pasture/Hay	●	●	○	2
Range	○	○	○	
Row Crops	○	○	○	
Fallow Field (RECENT-RESTING ROW CROP FIELD)	○	○	○	
Fallow Field (OLD - GRASS, SHRUBS, TREES)	○	○	○	
Nursery	○	○	○	
Dairy	○	○	○	
Orchard	○	○	○	
Confined Animal Feeding	○	○	○	
Rural Residential	○	○	○	
Gravel Pit	○	○	○	
Irrigation	○	○	○	
Other:	○	○	○	

Industrial Development Stressors

Fill bubble if present - Plot	1	2	3	Flag
Oil Drilling	○	○	○	
Gas Wells	○	○	○	
Mine (surface)	○	○	○	
Mine (underground)	○	○	○	
Military	○	○	○	
Other:	○	○	○	
Other:	○	○	○	
Other:	○	○	○	

Habitat/Vegetation Stressors

Fill bubble if present - Plot	1	2	3	Flag
Forest Clear Cut	○	○	○	
Forest Selective Cut	○	○	○	
Tree Plantation	○	○	○	
Tree Canopy Herbivory (INSECT)	○	○	○	
Shrub Layer Browsed (WILD OR DOMESTIC)	○	○	○	
Highly Grazed Grasses (OVERALL <3" HIGH)	●	●	○	3
Recently Burned Forest Canopy	○	○	○	
Recently Burned Grassland (BLACKENED)	○	○	○	

Fill bubble if present - Plot	1	2	3	Flag
Herbicide Use	○	○	○	
Mowing/Shrub Cutting	○	○	○	
Trails	○	○	○	
Soil Compaction (ANIMAL OR HUMAN)	○	○	○	
Offroad vehicle damage	○	○	○	
Soil erosion (FROM WIND, WATER, OR OVERUSE)	○	○	○	
Other:	○	○	○	
Other:	○	○	○	

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

2428168304

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial): _____

Site ID: PCAPBr1265 DATE: 07/26/2012

Location: ○ AA Center ○ N ● S ○ E ○ W

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

Buffer Natural Cover Strata

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

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

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

Buffer Plot 3 (Canopy Type: D ● E ○ Absent: ○ Leaf Type: B ● N ○ Flag)	0	1	2	3	4	Flag
Big Trees (>0.3m DBH)	○	○	●	○	○	
Small Trees (<0.3m DBH)	○	○	●	○	○	
Woody Shrubs, Saplings (0.5m-5m HIGH)	●	○	○	○	○	
Woody Shrubs, Saplings (<0.5m HIGH)	○	●	○	○	○	
Herbs, Forbs and Grasses	○	○	○	○	●	
Bare ground	○	●	○	○	○	
Litter, duff	○	○	●	○	○	
Rock	●	○	○	○	○	
Water	●	○	○	○	○	
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	1	2	3	Flag
Road - gravel	○	○	○	
Road - two lane	○	○	○	
Road - four lane	○	○	○	
Parking Lot/Pavement	○	○	○	
Golf Course	○	○	○	
Lawn/Park	○	○	○	
Suburban Residential	○	○	○	
Urban/Multifamily	○	○	○	
Landfill	○	○	○	
Dumping	○	○	○	
Trash	○	○	○	
Other: _____	○	○	○	
Other: _____	○	○	○	

Hydrology Stressors	1	2	3	Flag
Ditches, Channelization	●	○	○	
Dike/Dam/Road/RR Bed (IMPEDE FLOW)	○	○	○	
Water Level Control Structure	○	○	○	
Excavation, Dredging	○	○	○	
Fill/Spoil Banks	○	○	○	
Freshly Deposited Sediment (UNVEGETATED)	○	○	○	
Soil Loss/Root Exposure	○	○	○	
Wall/Riprap	○	○	○	
Inlets, Outlets	○	○	○	
Point Source/Pipe (EFFLUENT OR STORMWATER)	○	○	○	
Impervious surface input (SHEETFLOW)	○	○	○	
Other: _____	○	○	○	
Other: _____	○	○	○	

Agricultural & Rural Stressors	1	2	3	Flag
Pasture/Hay	○	○	○	
Range	○	○	○	
Row Crops	○	○	○	
Fallow Field (RECENT-RESTING ROW CROP FIELD)	○	○	○	
Fallow Field (OLD - GRASS, SHRUBS, TREES)	○	○	○	
Nursery	○	○	○	
Dairy	○	○	○	
Orchard	○	○	○	
Confined Animal Feeding	○	○	○	
Rural Residential	○	○	○	
Gravel Pit	○	○	○	
Irrigation	○	○	○	
Other: _____	○	○	○	

Industrial Development Stressors	1	2	3	Flag
Oil Drilling	○	○	○	
Gas Wells	○	○	○	
Mine (surface)	○	○	○	
Mine (underground)	○	○	○	
Military	○	○	○	
Other: _____	○	○	○	
Other: _____	○	○	○	
Other: _____	○	○	○	

Habitat/Vegetation Stressors	1	2	3	Flag
Forest Clear Cut	○	○	○	
Forest Selective Cut	○	○	○	
Tree Plantation	○	○	○	
Tree Canopy Herbivory (INSECT)	○	○	○	
Shrub Layer Browsed (WILD OR DOMESTIC)	●	○	●	
Highly Grazed Grasses (OVERALL <3" HIGH)	○	○	○	
Recently Burned Forest Canopy	○	○	○	
Recently Burned Grassland (BLACKENED)	○	○	○	

Habitat/Vegetation Stressors	1	2	3	Flag
Herbicide Use	○	○	○	
Mowing/Shrub Cutting	○	○	○	
Trails	○	○	○	
Soil Compaction (ANIMAL OR HUMAN)	○	○	○	
Offroad vehicle damage	○	○	○	
Soil erosion (FROM WIND, WATER, OR OVERUSE)	○	○	○	
Other: _____	○	○	○	
Other: _____	○	○	○	

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

2428168304

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial): _____

Site ID: PCAPBr1265 DATE: 07/26/2012

Location: ○ AA Center ○ N ○ S ● E ○ W

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

Buffer Natural Cover Strata

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

Buffer Plot 1	Canopy Type: ● E	Absent: ○	Buffer Plot 2	Canopy Type: ● E	Absent: ○	Buffer Plot 3	Canopy Type: ○ D ○ E	Absent: ●
	Leaf Type: ● N	Flag		Leaf Type: ● N	Flag		Leaf Type: ○ B ○ N	Flag

	Plot 1	Flag	Plot 2	Flag	Plot 3	Flag
Big Trees (>0.3m DBH)	4		3		4	
Small Trees (<0.3m DBH)	4		4		4	
Woody Shrubs, Saplings (0.5m-5m HIGH)	1		3		4	
Woody Shrubs, Saplings (<0.5m HIGH)	1		3		4	
Herbs, Forbs and Grasses	2		4		4	
Bare ground	1		0		4	
Litter, duff	3		3		4	
Rock	0		0		4	
Water	0		0		4	
Submerged Vegetation	0		0		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

Fill bubble if present - Plot	1	2	3	Flag
Road - gravel	○	○	○	
Road - two lane	○	○	○	
Road - four lane	○	○	○	
Parking Lot/Pavement	○	○	○	
Golf Course	○	○	○	
Lawn/Park	○	○	○	
Suburban Residential	○	○	○	
Urban/Multifamily	○	○	○	
Landfill	○	○	○	
Dumping	○	○	○	
Trash	○	○	○	
Other: Horse barn	○	○	●	1
Other:	○	○	○	

Hydrology Stressors

Fill bubble if present - Plot	1	2	3	Flag
Ditches, Channelization	○	○	○	
Dike/Dam/Road/RR Bed (IMPEDE FLOW)	○	○	○	
Water Level Control Structure	○	○	○	
Excavation, Dredging	○	○	○	
Fill/Spoil Banks	○	○	○	
Freshly Deposited Sediment (UNVEGETATED)	○	○	○	
Soil Loss/Root Exposure	○	○	○	
Wall/Riprap	○	○	○	
Inlets, Outlets	○	○	○	
Point Source/Pipe (EFFLUENT OR STORMWATER)	○	○	○	
Impervious surface input (SHEETFLOW)	○	○	○	
Other:	○	○	○	
Other:	○	○	○	

Agricultural & Rural Stressors

Fill bubble if present - Plot	1	2	3	Flag
Pasture/Hay	○	○	○	
Range	○	○	○	
Row Crops	○	○	○	
Fallow Field (RECENT-RESTING ROW CROP FIELD)	○	○	○	
Fallow Field (OLD - GRASS, SHRUBS, TREES)	○	○	○	
Nursery	○	○	○	
Dairy	○	○	○	
Orchard	○	○	○	
Confined Animal Feeding	○	○	○	
Rural Residential	○	○	○	
Gravel Pit	○	○	○	
Irrigation	○	○	○	
Other: Horse farm	●	●	●	

Industrial Development Stressors

Fill bubble if present - Plot	1	2	3	Flag
Oil Drilling	○	○	○	
Gas Wells	○	○	○	
Mine (surface)	○	○	○	
Mine (underground)	○	○	○	
Military	○	○	○	
Other:	○	○	○	
Other:	○	○	○	
Other:	○	○	○	

Habitat/Vegetation Stressors

Fill bubble if present - Plot	1	2	3	Flag
Forest Clear Cut	○	○	○	
Forest Selective Cut	○	○	○	
Tree Plantation	○	○	○	
Tree Canopy Herbivory (INSECT)	○	○	○	
Shrub Layer Browsed (WILD OR DOMESTIC)	●	●	○	
Highly Grazed Grasses (OVERALL <3" HIGH)	○	○	○	
Recently Burned Forest Canopy	○	○	○	
Recently Burned Grassland (BLACKENED)	○	○	○	

Fill bubble if present - Plot	1	2	3	Flag
Herbicide Use	○	○	○	
Mowing/Shrub Cutting	○	○	●	
Trails	○	○	○	
Soil Compaction (ANIMAL OR HUMAN)	○	○	○	
Offroad vehicle damage	○	○	○	
Soil erosion (FROM WIND, WATER, OR OVERUSE)	○	○	○	
Other:	○	○	○	
Other:	○	○	○	

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

2428168304

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial): _____

Site ID: PLAP Br 1265 DATE: 07/26/2012

Location: ○ AA Center ○ N ○ S ○ E ● W

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

Buffer Natural Cover Strata

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

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

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

Fill bubble if present - Plot	1	2	3	Flag
Road - gravel	○	○	○	
Road - two lane	○	○	○	
Road - four lane	○	○	○	
Parking Lot/Pavement	○	○	○	
Golf Course	○	○	○	
Lawn/Park	○	○	○	
Suburban Residential	○	○	○	
Urban/Multifamily	○	○	○	
Landfill	○	○	○	
Dumping	○	○	○	
Trash	○	○	○	
Other: _____	○	○	○	
Other: _____	○	○	○	

Hydrology Stressors

Fill bubble if present - Plot	1	2	3	Flag
Ditches, Channelization	○	○	○	
Dike/Dam/Road/RR Bed (IMPEDE FLOW)	○	○	○	
Water Level Control Structure	○	○	○	
Excavation, Dredging	○	○	○	
Fill/Spoil Banks	○	○	○	
Freshly Deposited Sediment (UNVEGETATED)	○	○	○	
Soil Loss/Root Exposure	○	○	○	
Wall/Riprap	○	○	○	
Inlets, Outlets	○	○	○	
Point Source/Pipe (EFFLUENT OR STORMWATER)	○	○	○	
Impervious surface input (SHEETFLOW)	○	○	○	
Other: _____	○	○	○	
Other: _____	○	○	○	

Agricultural & Rural Stressors

Fill bubble if present - Plot	1	2	3	Flag
Pasture/Hay	○	○	○	
Range	○	○	○	
Row Crops	○	○	○	
Fallow Field (RECENT-RESTING ROW CROP FIELD)	○	○	○	
Fallow Field (OLD - GRASS, SHRUBS, TREES)	○	○	○	
Nursery	○	○	○	
Dairy	○	○	○	
Orchard	○	○	○	
Confined Animal Feeding	○	○	○	
Rural Residential	○	○	○	
Gravel Pit	○	○	○	
Irrigation	○	○	○	
Other: _____	○	○	○	

Industrial Development Stressors

Fill bubble if present - Plot	1	2	3	Flag
Oil Drilling	○	○	○	
Gas Wells	○	○	○	
Mine (surface)	○	○	○	
Mine (underground)	○	○	○	
Military	○	○	○	
Other: _____	○	○	○	
Other: _____	○	○	○	
Other: _____	○	○	○	

Habitat/Vegetation Stressors

Fill bubble if present - Plot	1	2	3	Flag
Forest Clear Cut	○	○	○	
Forest Selective Cut	○	○	○	
Tree Plantation	○	○	○	
Tree Canopy Herbivory (INSECT)	○	○	○	
Shrub Layer Browsed (WILD OR DOMESTIC)	●	●	●	
Highly Grazed Grasses (OVERALL <3" HIGH)	○	○	○	
Recently Burned Forest Canopy	○	○	○	
Recently Burned Grassland (BLACKENED)	○	○	○	

Fill bubble if present - Plot	1	2	3	Flag
Herbicide Use	○	○	○	
Mowing/Shrub Cutting	○	○	○	
Trails	○	○	○	
Soil Compaction (ANIMAL OR HUMAN)	○	○	○	
Offroad vehicle damage	○	○	○	
Soil erosion (FROM WIND, WATER, OR OVERUSE)	○	○	○	
Other: _____	○	○	○	
Other: _____	○	○	○	

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

2428168304