

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



Project Label:

PCAP

Plot No: 1222

Date Sampled: 6/12/12

Lead: Barton

Comment required if item answer is NO

Parking/Access outside of Park Boundaries:	Y	<input checked="" type="radio"/>	If yes, write details in Comments section below
Field journals completed	<input checked="" type="radio"/>	N	
Site sketch made on 1:3000 map?	<input checked="" type="radio"/>	N	
Check cover page	<input checked="" type="radio"/>	N	
X-axis Bearing of plot recorded	<input checked="" type="radio"/>	N	
GPS coords. Recorded	<input checked="" type="radio"/>	N	
North direction recorded	<input checked="" type="radio"/>	N	
Photographs taken?	<input checked="" type="radio"/>	N	
Plot No., Date agreement on all pages?	<input checked="" type="radio"/>	N	
Header data completed all pages?	<input checked="" type="radio"/>	N	
Cover classes recorded in all Intensive modules	<input checked="" type="radio"/>	N	
Browse Level By Species	<input checked="" type="radio"/>	N	
Woody stem quality control check	<input checked="" type="radio"/>	N	
Invasive plant quality control check	<input checked="" type="radio"/>	N	
Ash trees mapped	<input checked="" type="radio"/>	N	
Cover by Strata? (confirm cover type)	<input checked="" type="radio"/>	N	
Soil samples collected with matching plot #.	<input checked="" type="radio"/>	N	
Vouchers labeled on datasheet with initials and number	<input checked="" type="radio"/>	N	
Vouchers labeled on collection bag	<input checked="" type="radio"/>	N	
Pink flags removed	<input checked="" type="radio"/>	N	
Data sheet QA before leaving site?	<input checked="" type="radio"/>	N	
Common equipment returned to tub.	<input checked="" type="radio"/>	N	
Data sheets scanned?	6/15/12		Enter date to left NE
Final data sheets scanned?			Enter date to left
Buffer Widths measured?	<input checked="" type="radio"/>	N	KEL 6-29-12
Web Soil Survey	<input checked="" type="radio"/>	N	SAC 6/15/12
Voucher Location	Refrigerator	Y	N
(# vouchers collected)	Press (#)		Enter number to left
	Drier	Y	N
	Identified	Y	N
	Mounted	Y	N
	Thrown away	Y	N

## GRTS point verification: Is plot sampleable?

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

## Additional Comments:

ASTAR  
yellow curve  
arrow  
sign

Park on the west of Valley Pkwy after Spafford Rd and crossing the river bridge. Cross river near larger concrete wall, there is a shallow riffle - depending on rain may only need rubber boots

# CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

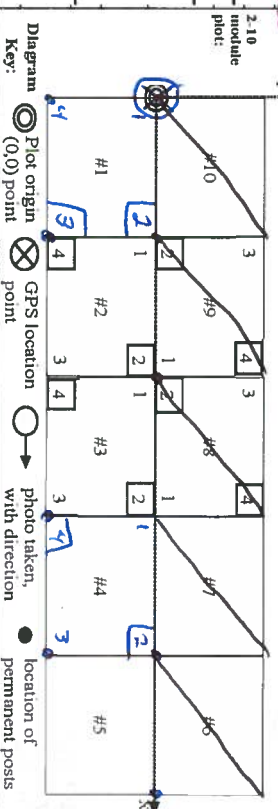
<b>GENERAL INFORMATION</b>			
Project Label: <b>PCAP</b>			
Project Name: <b>WIR 2012</b>			
Plot Name: <b>Plot of Death</b>			
Plot No.: <b>1222</b>			
<input type="checkbox"/> Level 4 (no nested corners sampled) <input checked="" type="checkbox"/> Level 5 (nested corners sampled)			
Date (mm/dd/yyyy): <b>6/12/2012</b>			
End date (if > 1 day): <b>1/1</b>			
Party	Role**		
<b>Z. Barton</b>	<b>Plot leader</b>		
<b>A. Young</b>	<b>Bot. Asst.</b>		
<b>S. Catella</b>	<b>Wedge/Soil</b>		
<b>L. Huffman</b>	<b>Wedge/Soil</b>		
<b>T. Kistler</b>	<b>Wedge/Soil</b>		
** Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc.			
PLOT NOT SAMPLED: <input type="checkbox"/> Other			
<input type="checkbox"/> Perm. water <input type="checkbox"/> Paved <input type="checkbox"/> Slope <input type="checkbox"/> Safety			
<b>SAMPLING QUALITY*</b>			
Effort Level: <input checked="" type="checkbox"/> Very thorough <input type="checkbox"/> Accurate <input type="checkbox"/> Hurried subjective evaluation of how much effort put into sampling. Hurried plots may still provide good data.			
<b>TAXONOMIC ACCURACY</b>			
	high	modera.	low not simpl
vascul.	<b>X</b>		n/a
brvo		<b>X</b>	
lichen			<b>X</b>
<b>TAXONOMIC STANDARD</b>			
Authority:	G&C	Pub Date:	1998

Minimum required fields in Bold and Underlined

<b>LOCATION</b>	
State: <b>OH</b>	County: <b>Cuy</b>
Quadrangle: <b>North Olmsted</b>	
Local Place Names: <b>Valley Parkway</b> <b>between Stafford &amp; Willow bend</b>	
Landowner: <b>CM</b>	
<b>Data Confidentiality:</b>	
<input checked="" type="checkbox"/> Check one: Public data <input type="checkbox"/> Private Data <input type="checkbox"/> Fuzz 100m <input type="checkbox"/> Fuzz 250m <input type="checkbox"/> Fuzz 500m	
<b>Reason:</b>	
If data not public why?	
Source of coordinates: <input type="checkbox"/> MAP <input checked="" type="checkbox"/> GPS	
Coordinate system: <input type="checkbox"/> Lat/Long <input type="checkbox"/> UTM <input type="checkbox"/> StatePlane <input checked="" type="checkbox"/> Coord. Units	
<input type="checkbox"/> Other (specify): <input type="checkbox"/> m <input type="checkbox"/> ft <input type="checkbox"/> deg <input type="checkbox"/> min	
Datum: <input checked="" type="checkbox"/> NAD83/WGS84 <input type="checkbox"/> NAD27	
GPS location in plot x=0 to 5, y=-1.0, +1): <b>SAE 8-3-12</b>	
<b>x = 0 y = 0</b> (base of plot x=0, y=0)	
Latitude: <b>41.39321</b>	
Longitude: <b>-81.88471</b>	
Coord. Accuracy: <b>4</b> m <input type="checkbox"/> ft <b>+ - 2.1</b>	
GPS File Name: <b>1222A</b>	
Plot size for cover data: <b>0.05</b> (hectares)	
X-axis Bearing of plot: <b>[360]°</b>	
Depth: (1-5): <b>4</b>	
Intensive modules: <b>2, 3, 8, 9, 12, 3, 4</b> (EDIT IF MODIFIED)	
Camera No.: <b>4</b>	
Photo Nos.: <b>0071</b>	
Plot placement: <input checked="" type="checkbox"/> RTRTS <input type="checkbox"/> Representative	
<input type="checkbox"/> Random <input type="checkbox"/> Stratified Random <input type="checkbox"/> Transect component <input type="checkbox"/> Systematic (grid) <input type="checkbox"/> Capture specific feature <input type="checkbox"/> Other	

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

OVER



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: 1x5

Location: Plot lands on small island between Rocky River and an old oxbow

GENERAL INFORMATION			
Project Label:	PCAP		
Project Name:	O/RK 2012		
Plot Name:	Plot of Death		
Plot No.:	1222		
<input type="checkbox"/> Level 4 (no nested corners sampled)			
<input checked="" type="checkbox"/> Level 5 (nested corners sampled)			
Date (mm/dd/yyyy):	06/12/2012		
End date (if > 1 day):	/ /		
Party:	Z. Barta		
Role**	Plot leader		
	A. Young		
	B. J. Arst		
	S. Catella		
	Woody/Soil		
	A. L. Hoffman		
	Woody/Soil		
	T. Kistner		
	Woody/Soil		
** Notes: Co-leader, Asst. Guide, Owner, Taxonomist, etc.			
PLOT NOT SAMPLED: <input type="checkbox"/> Other			
<input type="checkbox"/> Perm. water	<input type="checkbox"/> Paved	<input type="checkbox"/> Slope	<input type="checkbox"/> Safety
SAMPLING QUALITY*			
Effort Level:	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
vascul.	X		n/a
bryo		X	
lichen			X
TAXONOMIC STANDARD			
Authority:	G&C	Pub Date:	1998

Minimum required fields in Bold and Underlined

LOCATION	
State:	OH
County:	Cuy
Quadrangle:	North Olmsted
Local Place Names:	Valley Parkway between Spafford & Willow bend
Landowner:	CM
Data Confidentiality:	
Check one: <input checked="" type="checkbox"/> Public data	<input type="checkbox"/> Private Data
<input type="checkbox"/> Fuzz 100m	<input type="checkbox"/> Fuzz 250m
<input type="checkbox"/> Fuzz 500m	
Reason:	
If data not public why?	
Source of coordinates:	<input type="checkbox"/> MAP <input checked="" type="checkbox"/> GPS
Coordinate system:	<input type="checkbox"/> Coord. Units
<input checked="" type="checkbox"/> Lat/Long	<input type="checkbox"/> UTM <input type="checkbox"/> StatePlane
<input type="checkbox"/> Other (specify):	<input type="checkbox"/> deg <input type="checkbox"/> deg min <input type="checkbox"/> m <input type="checkbox"/> ft <input type="checkbox"/>
Datum:	<input checked="" type="checkbox"/> NAD83/WGS84 <input type="checkbox"/> 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:	41.39321
Longitude:	-81.88471
Coord. Accuracy:	A m <input type="checkbox"/> ft + - 2.1
GPS File Name:	1222A
Plot size for cover data:	0.1 (hectares)
X-axis Bearing of plot:	[350] °
Depth: (1-5):	4
Intensive modules: 2, 3, 8, 9	(EDIT IF MODIFIED)
Camera No.:	4
Photo Nos.:	0071
Plot Placement:	<input checked="" type="checkbox"/> GRTS <input type="checkbox"/> Representative
<input type="checkbox"/> Random	<input type="checkbox"/> Stratified Random
<input type="checkbox"/> Systematic (grid)	<input type="checkbox"/> Capture specific feature
<input type="checkbox"/> Other	

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

Shale cliff

old oxbow

2.10 nesting plot:

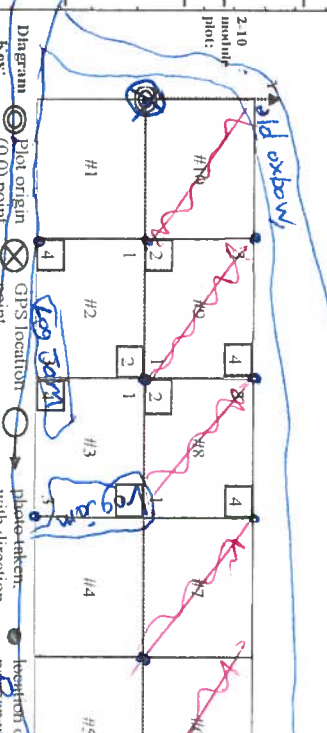


Diagram Key: Plot origin (0,0) point, GPS location, photo-taken, direction of river flow

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: 12x5. There are no pins at (3,0) and (3,1) because of large debris piles. Location: see 2nd coversheet

Original layout

OVER



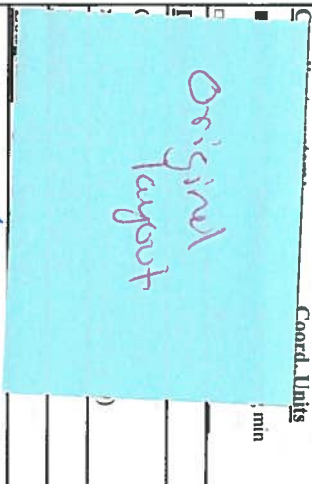
# CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Shale Cliff

Page 1 of 2

<b>GENERAL INFORMATION</b>	
Project Label:	PCAP
Project Name:	B1R2A012
Plot Name:	
Plot No.:	1222
<input type="checkbox"/> Level 4 (no nested corners sampled) <input checked="" type="checkbox"/> Level 5 (nested corners sampled)	
Date (mm/dd/yyyy):	/ /
End date (if > 1 day):	/ /
Party:	Role**
	Plot leader
** Roles: Co-leader, Asst. Guide, Observer, Taxonomist, etc.	
<b>PLOT NOT SAMPLED:</b> <input type="checkbox"/> Other	
<input type="checkbox"/> Perm. water <input type="checkbox"/> Paved <input type="checkbox"/> Slope <input type="checkbox"/> Safety	
<b>SAMPLING QUALITY*</b>	
Effort Level:	subjective evaluation of how much effort put into sampling. Hurried plots may still provide good data
<input type="checkbox"/> Very thorough <input type="checkbox"/> Accurate <input type="checkbox"/> Hurried	
<b>TAXONOMIC ACCURACY</b>	
	high modera. low not simpl
vascul.	n/a
bryo	
lichen	
<b>TAXONOMIC STANDARD</b>	
Authority:	G&C Pub Date: 1998

<b>LOCATION</b>	
State:	OH
County:	Cuy
Quadrangle:	
Local Place Names:	
Landowner:	CM
Data Confidentiality:	
Check one:	<input type="checkbox"/> Public data <input type="checkbox"/> Private Data <input type="checkbox"/> Fuzz 100m <input type="checkbox"/> Fuzz 250m <input type="checkbox"/> Fuzz 500m
Reason:	
If data not public why?	
Source of coordinates:	<input type="checkbox"/> MAP <input checked="" type="checkbox"/> GPS
Coord. Units	



Coord. Accuracy: <input checked="" type="checkbox"/> m <input type="checkbox"/> ft GPS File Name: 1222A Plot size for cover data: 0.1 (hectares) X-axis Bearing of plot: 125° 350° Depth: (1-5): 4 Intensive modules: 2, 3, 8, 9 (EDIT IF MODIFIED) Camera No.: Photo Nos.: Plot placement: <input checked="" type="checkbox"/> GRTS <input type="checkbox"/> Representative <input type="checkbox"/> Random <input type="checkbox"/> Stratified Random <input type="checkbox"/> Transect component <input type="checkbox"/> Systematic (grid) <input type="checkbox"/> Capture specific feature <input type="checkbox"/> Other	*Definitions and values in CM PCAP FORM v. 1.0 and CVS Field Guide Veg Char: Sycamore, Maples Herb: <del>Dense herbaceous layer w/ Equis. Limestone</del> Natural Resources Management FORM NR2010-01a *Please use caution, lots of giant log jams and you can fall through Spiraebush, Hawthorn ROSA multiflora, Eupatorium, Platanus OVER
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## CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet

Page 1 of 5

Project label: \_\_\_\_\_

PCAP

Project name: CURRADAPlot no.: 1222Plot area (ha): 0.05

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

5

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

Plot configuration: 1x5

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

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

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

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

Strata - Cov. entire plot

T	S	H	(F)	(A)	Br	Species	c	Voucher #	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	
9	5					<i>Acer saccharum</i>			4	8			4	9	4		4	9	4		4	9	4		4	6	2
						<i>Impatiens</i> sp			3	2			4	2	2		2	2	3		2	2	3		2	2	
						<i>Toxicodendron radicans</i>			4	3	4		3	2	3		4	2	3								
						<i>Rosa</i> sp			4	1																	
						<i>Carex blanda</i> <del><i>digitalis</i></del>		25B021	4	2	2		1	1			1	2			2			1	1		
						<i>Taraxacum seedling</i>			4	2	2		3	2			2	2			2			3	2	2	
						<i>Polygonum cepitatum</i>		25B023	4	3			3	2	2		4	2			4	2		4	2	2	
6						<i>Platanus occidentalis</i>			2	5							4	5			4	5		3	7	4	
						<i>Eupatorium rugosum</i>			3	3	3		3	2			3	2	2		3	2	2		3	4	
						<i>Lythrum alatum</i>			3	2	4		3	2			3	2			3	2		3	1		
						<i>Brenthia</i> sp			3	1			2	1	2												
						<i>Aster lateriflorus</i>			3	2	4		1	2			4	2	2		4	2	2		3	2	2
						<i>Flumina</i> <del>sp.</del> <i>villosa</i>		25B005	3	3	3		1	1			3	3			3	3	2		3	3	2
						<i>Phlox acutifolia</i>			3	3	3													2	2		
						<i>Saxifraga</i> sp			3	2	3		3	2										1	1		
						<i>Pilea pumila</i>			3	2			3	2													
						<i>Alliaria petiolata</i>			3	2	2		3	2	2				4	2			4	2		2	
						<i>Tanacetum officinale</i>			3	1							3	1			3	1		4	4		
						<i>Equisetum arvense</i>			3	5	4				2	3	4	2	2		3	4	2	4	4		
						<i>Galium virginicum</i>			2	2	4				2	2		2	2		2	2		1	2	*	
						<i>Cypripedium</i> sp			3	2	3		3	2	2		1	1			4	2	4		3	1	
						<i>Loesia virginiana</i>			2	2	2		2	2			4	2	4		1	1		3	2	2	
						<i>Urtica</i> sp			2	2	4		3	2			1	1			2	4		3	7	4	
5	3					<i>Fesculus glabra</i>			2	4	2		1	3			2	4			2	4		3	7	4	
						<i>Ridgwaya</i> sp			2	2			2	2										2	1		

8-5-12



# CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet


Page 2 of 5

Project Label: PCAP Project name: CARROLL Plot no.: 1000  
 Total modules: 5 Intensive modules: 4 Plot configuration: 1x5  
 Visual est. % open water entire site: — Visual est. %unveg. o.w. entire site: — Visual est. %invasives entire site: —



Cleveland Metroparks

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

		Cleveland Metroparks	
Strata - Cov. entire plot		Br = Browse Level. Use cover classes to describe amount of browse per species over entire plot	
T S H (F)(A) Br		Estimate for the each Intensive module: %open water %unvegetated open water %unveg. ground (bare soil) %unveg. litter (bare litter)	
Species		Voucher #	
5	<i>Rosa trivialis</i>	25B016	2 4 2 2 3 4 3 2 4 4 2 1 3 2 3 2 2
1	<i>Hesperis matronalis</i>		2 1 2 2 2 2 1 1 3 2 2 2 3 2 2 2 2
2	<i>Phlox subulata</i>	25B017	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
2	<i>Hebe xanthiifolia</i>		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
3	<i>Lindera borealis</i>		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
2	<i>Ulmus seedling</i>		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
2	<i>Asplenium platyneuron</i>	25B019	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
2	<i>Plantago sp.</i>		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
2	<i>Quercus seedling</i>		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
2	<i>Cryptotaenia canadensis</i>		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
2	<i>Ranunculus abortivus</i>	25B027	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
1	<i>Carex diocot</i>	25B028	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
1	<i>Carex diocot</i>	25B029	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
2	<i>Limonium vulgare</i>		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
2	<i>Alnus canadensis</i>		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
2	<i>Rumex obtusifolius</i>		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
1	<i>Carex diocot</i>	25B029	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
2	<i>Lyimachia ciliata</i>		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
2	<i>Acer negundo</i>		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
2	<i>Verbena alternifolia</i>		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
2	<i>Crataegus sp.</i>		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
2	<i>Buxus grandifolia</i>	25B029	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
2	<i>Rosa multifida</i>		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
2	<i>Stellaria media</i>	25B006	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
2	<i>Festuca subverticillata</i>	25B026	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2



CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet

Project Label: PCAP Project name: 01A0002 Plot no.: 1222  
 Total modules: 5 Intensive modules: 4 Plot configuration: 1x5 Plot area (ha): 0.05  
 Visual est. % open water entire site: — Visual est. %unveg. o.w. entire site: — Visual est. %invasives entire site: —



Cleveland Metroparks

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

Cleveland Metroparks										Strata - Cov entire plot										Estimate for the each Intensive module:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Br = Browse Level. Use cover classes to describe amount of browse per species over entire plot																				%open water %unvegetated open water %unveg. ground (bare soil) %unveg. litter (bare litter)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
T	S	H	(F)	(A)	Br	Species	c	Voucher #	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	depth	corner	mod	

Dryopteris  
 species  
 SE 10-12-12







Project Label: PCAP Project name: Plot no.: Plot area (ha):



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

Strata - Cov. entire plot	T	S	H	(F)	(A)	Br	Species	C	Voucher #	Estimate for each intensive module:											
										%open water			%sunvegetated open water			%unveg. ground (bare soil)			%unveg. litter (bare litter)		
										depth	cov	depth	depth	cov	depth	depth	cov	depth	depth	cov	depth
1							Unknown brassicaceae		C1000000												
1							Ampelachier sp.														
1							Poleophyllum peltatum														
1							Lonicera mackii														
2							Hemerocallis filva														
1							Sisyrinchium		ZSB014												
1							Asteraceae sp.														
1							Eudymnopus obovatus														
1							Zizia sp.		C2-1653												
1							Unknown dicot #9		C4-80-81												
1							Unknown dicot #10		C2-1654, 1655												
1							Satigeo Salidago sp. Dk Blue		C2-1656, 1657												
1							Unknown dicot #11		C2-1658, 1659												
1							Unknown dicot #12		C2-1660												
1							Unknown dicot #13		C2-1662												
1							Asplenium adnigrum		C2-1663												
1							Am Philocarpa bracteata														
1							Carpinus caroliniana														
1							Festuca canadensis		ZSB 028												
1							Unknown dicot #14		C2-1664, 1665												
1							Erigeron annuus														
1							Solidago macrophylla														
1							Barbarea sp.														
1							Solanum dulcamara														

opposite  
bristly  
tail leaf  
leaved  
midvein  
marked  
laxing  
main vein  
whorled  
glaucous  
hairy  
rate  
POCACA  
ovate  
basal  
leaved





**SOIL PIT DESCRIPTION:** Excavate 20 cm plug with 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	10Y-2/2
	mottle color	N/A
	%mottle	N/A
	oxid roots	Y (N)
	texture*	1
	redox features**	Y (N)
	hydr cond.***	1 S (N) D
20 cm	matrix color	2.5Y 3/2
	mottle color	N/A
	%mottle	N/A
	oxid roots	Y (N)
	texture*	2
	redox features**	Y (N)
	hydr cond.***	1 S (N) D

\* refer to texture classes on reverse side  
 \*\* e.g. hydrogen sulfide odor, gleying, etc.  
 \*\*\* Circle one:  
 I=undrained S=saturated M=moist D=dry  
 Notes: include evidence of earthworms (worms, castings, middens)

None

Soil Collection Module	Horizon (A, B, C)
2,3,8,9	compacted
Soil Series/Type	Ch. chagrin silt loam
Soil Series Source	Ohio Soil Survey
Landform type	Flood Plains
Depth to test layer	>80"
Parent Material	Alluvium

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

WSS: JTP 6/8/12  
 SAC 6/15/12

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

mod#	1 liter+ organic depth (cm)	2 liter depth (cm)	water depth (cm)	depth sat soil (cm)
1	1.5	1.5	0	>30
2	1	1	0	>30
3	1	1	0	>30
4	0.4	0.4	0	>30

**EARTH SURFACE & GROUND COVER**

Underlying Earth Surface*	Ground Cover	
(Sum = 100%) percent	(Each ≤ 100%) percent	
Histiosol	0	Coarse Woody Debris*** 25
Mineral Soil	100	Fine Woody Debris**** 8
Gravel-Cobble*	0	Litter 5
Boulder**	0	Duff (Fern + Humus) 0
Bedrock	0	Bryophyte-Lichen 1
* Gravel-Cobble = 1/16-10"		Water 0
** Boulder = > 10 in		Bare Soil 1
*** > 5 cm in diameter		Rock/Trunk 0
**** < 5 cm in diameter		Other

**COVER BY STRATA**

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

%

Strata	Height Range (m)	Total Cover (%)
Tree	>5	88
Shrub	1.5 - 5	8
Herb	0 - 1.5	73
(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

No trails

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	

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



Cleveland Metroparks

Project Label: PCAPProject Name: ORR 2012Plot No.: 1222Page: 1 of 3

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												11 >40 (record each tree)
							1 0-<1	2 1-<2.5	3 2.5-<5	4 5-<10	5 10-<15	6 15-<20	7 20-<25	8 25-<30	9 30-<35	10 35-<40			
1	Platanus occidentalis																		62.5, 83.0
1	Aesculus glabra																		
1	Acer saccharum																		
1	Lindera benzoin																		
1	Castanea sp.																		
1	Acer negundo																		
2	Standing dead																		
2	Acer saccharum																		
2	Fraxinus pennsylvanica																		
2	Acer nigrum																		
1	Fraxinus pennsylvanica																		
2	Lindera benzoin																		
3	Acer saccharum																		
3	Aesculus glabra																		
3	Standing dead																		50.9
3	<del>Fraxinus pennsylvanica</del>																		
3	Carya cordifolia																		
3	Quercus rubra																		85.0
3	Lindera benzoin																		
3	Fraxinus sp.																		
4	Acer saccharum																		44.3
4	Aesculus glabra																		
4	Fraxinus sp.																		
4	Lindera benzoin																		

SE  
8/3/10  
B. J. M.  
Calle  
sp.



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



Project Label: PCAP

Project Name: OLR2012

Plot No.: 1222

Page: 2 of 3

Explain subsample (additional room on back):

mod #	species	c	voucher#	# stems 0-1.4m browsed	% sub or super sample	# shrub clumps	size class (cm)	1	2	3	4	5	6	7	8	9	10	11
5	Acer saccharum																	56.4, 72*
5	<del>Acer</del> <sup>Aesculus</sup> glabra																	
5	Lindera benzoin					7												
6	standing dead																	46.4
6	Acer saccharum																	
6	Platanus occidentalis																	43.0, 50.3, 42.1
5	Toxicodendron radicans																	
6	Toxicodendron radicans																	
6	Pinus americana																	
6	Carya cordifolia																	
6	Lindera benzoin					7												
7	Quercus rubra																	
7	Acer nigrum																	
7	Carya cordiformis																	
7	Toxicodendron radicans																	
7	Prunus serotina																	
7	Platanus occidentalis																	63.8, 73.0, 54.5
7	<del>Aesculus</del> <sup>Aesculus</sup> sacchara																	86.0
7	Aesculus glabra																	
7	Lindera benzoin					11												
8	Acer negundo																	
8	Fraxinus pennsylvanica																	
8	Aesculus glabra																	
8	Tilia americana																	

over to  
in point  
1/2 DBH  
and  
doubt

\* Reduce  
plot  
to only  
10 m<sup>2</sup>  
SKE  
8-3-12

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

Project Label: PCAP

Project Name: OFR 2012

Plot No.: 1222

Page: 3

of



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)
8	Lindera benzoin					7												
9	Fraxinus sp.																	
9	Acer negundo																	
9	Vitis sp.																	
9	Acer saccharinum																	
9	Fraxinus pennsylvanica																	
9	Standing dead																	
9	Aesculus glabra																	
9	Lindera benzoin																	
10	Aesculus glabra																	
10	Acer negundo																	
10	standing dead																	
10	Fraxinus pennsylvanica																	
10	Fraxinus sp.																	
10	Lindera benzoin																	
10	multiflora rose																	
8	Quercus rubra																	



CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



Tier 1: Early detection/ Rapid response		Presence				GPS	Presence X: yes
		NE	SE	SW	NW		
Microstegium vimineum	Japanese stiltgrass						
Ranunculus ficaria	Lesser Celandine						
Cynanchum louiseae (vine)	Black Swallow-wort						
Butomus umbellatus (wetland)	Flowering Rush						
Heracleum mantegazzianum	Giant Hogweed						
Tier 2: Assess as Needed		# of Plants				comments	# of Plants
		NE	SE	SW	NW		
Acer platanoides	Norway Maple						1: 1-10
Ailanthus altissima	Tree of Heaven						2: 11-50.
Lonicera japonica (vine)	Japanese Honeysuckle						3: 51-100
Lythrum salicaria (wetland)	Purple Loosestrife						4: 101-1,000
Aegopodium podagraria (G-cover)	Bishop's Goutweed	X					5: >1,000
Celastrus orbiculatus (vine)	Asian Bittersweet			1	1		
Torilis sp.	Hedgeparsley	X					
Conium maculatum	Poison Hemlock						
Rhamnus cathartica	Common Buckthorn (shrub)						
Berberis thunbergii	Japanese Barberry (shrub)	1					
Alnus glutinosa	European Alder						
Dipsacus laciniatus	Cut-leaf Teasel						
Elaeagnus umbellata	Autumn Olive (shrub)						
Lonicera maackii	Amur Honeysuckle (shrub)	1		1			
Euonymus fortunei	Wintercreeper						
Tier 3: Presence is of Interest		# of Plants				comments	# of Plants
		NE	SE	SW	NW		
Convallaria majalis (G-cover)	Lily of the Valley						1: 1-10
Coronilla varia (G-cover)	Crown Vetch	1					2: 11-50.
Eleutherococcus pentaphyllus	Five-leaf Aralia (shrub)						3: 51-100
Pachysandra terminalis (G-cover)	Japanese Pachysandra						4: 101-1,000
Philadelphus coronarius	Mock Orange (shrub)						5: >1,000
Pulmonaria officinalis (G-cover)	Lungwort						
Rubus phoenicolasius	Wineberry						
Iris pseudacorus (wetland)	Yellow Flag Iris						
Ornithogalum umbellatum	Star of Bethlehem						
Viburnum opulus var. opulus	European Cranberry (shrub)	1				SPE 10-17-12	
Viburnum plicatum	Doublefile Viburnum (shrub)						
Tier 4: Widespread and abundant		Presence				comments	Presence X: yes
		NE	SE	SW	NW		
Alliaria petiolata	Garlic Mustard			2			
Ligustrum vulgare	Common Privet (shrub)	1					
L. morrowii, L. tatarica	Bush Honeysuckles (shrub)	2					
Phalaris arundinacea	Reed Canarygrass			3	4		
Phragmites australis (wetland)	Phragmites						
Polygonum cuspidatum	Japanese Knotweed	23	3	1	X		
Frangula alnus	Glossy Buckthorn (shrub)						
Rosa multiflora	Multiflora Rose (shrub)			3	4		
Typha angustifolia, T. x. glauca	Cattails (wetland)						
Cirsium arvense	Canada thistle						
Dipsacus fullonum	Common Teasel						
Hesperis matronalis	Dame's Rocket	1	1	1	1		
Vinca minor (G-cover)	Periwinkle	4	4			MNE, SSE	

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

LSE

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

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

Site ID: PCAP 1222 RRDATE: 06/12/2012

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

1

## Buffer Natural Cover Strata

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

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

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

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

Residential and Urban Stressors					Hydrology Stressors					Agricultural & Rural Stressors				
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag
Road - gravel	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Ditches, Channelization	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Pasture/Hay	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Road - two lane	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Dike/Dam/Road/RR Bed (IMPEDE FLOW)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Range	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Road - four lane	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Water Level Control Structure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Row Crops	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Parking Lot/Pavement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Excavation, Dredging	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Fallow Field (RECENT-RESTING ROW CROP FIELD)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Golf Course	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Fill/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	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 type="radio"/>	<input type="radio"/>	<input type="radio"/>		Offroad vehicle damage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Highly Grazed Grasses (OVERALL <3' HIGH)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Soil erosion (FROM WIND, WATER, OR OVERUSE)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Recently Burned Forest Canopy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Recently Burned Grassland (BLACKENED)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

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

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

Buffer Sample Plots 05/27/2011

2428168304



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

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

Site ID: PCAP 1222RRDATE: 0.6 / 12 / 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

1

## Buffer Natural Cover Strata

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

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

Buffer Plot 1	Canopy Type: <input checked="" type="radio"/> D <input type="radio"/> E	Absent: <input type="radio"/>	Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N	Flag	Buffer Plot 2	Canopy Type: <input type="radio"/> D <input type="radio"/> E	Absent: <input type="radio"/>	Leaf Type: <input type="radio"/> B <input type="radio"/> N	Flag	Buffer Plot 3	Canopy Type: <input type="radio"/> D <input type="radio"/> E	Absent: <input type="radio"/>	Leaf Type: <input type="radio"/> B <input type="radio"/> N	Flag
Big Trees (>0.3m DBH)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		Big Trees (>0.3m DBH)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Big Trees (>0.3m DBH)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Small Trees (<0.3m DBH)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Small Trees (<0.3m DBH)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Small Trees (<0.3m DBH)	<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"/>		Woody Shrubs, Saplings (0.5m-5m HIGH)	<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"/>	
Woody Shrubs, Saplings (<0.5m HIGH)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Woody Shrubs, Saplings (<0.5m HIGH)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Woody Shrubs, Saplings (<0.5m HIGH)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Herbs, Forbs and Grasses	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Herbs, Forbs and Grasses	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Herbs, Forbs and Grasses	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Bare ground	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Bare ground	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Bare ground	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Litter, duff	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Litter, duff	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Litter, duff	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Rock	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Rock	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Rock	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Water	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		Water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Submerged Vegetation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Submerged Vegetation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Submerged Vegetation	<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 (IMPEDE FLOW)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Range	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Road - four lane	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Water Level Control Structure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Row Crops	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Parking Lot/Pavement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Excavation, Dredging	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Fallow Field (RECENT-RESTING ROW CROP FIELD)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Golf Course	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Fill/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 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	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 type="radio"/>	<input type="radio"/>	<input type="radio"/>		Offroad vehicle damage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Highly Grazed Grasses (OVERALL <3' HIGH)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Soil erosion (FROM WIND, WATER, OR OVERUSE)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Recently Burned Forest Canopy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Recently Burned Grassland (BLACKENED)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

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

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

Buffer Sample Plots 05/27/2011

2428168304



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

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

Site ID: PCAP1222 RRDATE: 06/12/2012

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 (&lt;10%); 2 = Moderate (10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (&gt;75%)

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

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

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

Industrial Development Stressors					Habitat/Vegetation Stressors				
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag
Oil Drilling	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2				Forest Clear Cut	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2			
Gas Wells	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2				Forest Selective Cut	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2			
Mine (surface)	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2				Tree Plantation	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2			
Mine (underground)	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2				Tree Canopy Herbivory (INSECT)	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2			
Military	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2				Shrub Layer Browsed (WILD OR DOMESTIC)	<input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2			
Other: _____	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2				Highly Grazed Grasses (OVERALL <3' HIGH)	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2			
Other: _____	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2				Recently Burned Forest Canopy	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2			
Other: _____	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2				Recently Burned Grassland (BLACKENED)	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2			

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

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

2428168304

Buffer Sample Plots 05/27/2011



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

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

Site ID: PCAP 1222 ERDATE: 06 / 12 / 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 (&lt;10%); 2 = Moderate (10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (&gt;75%)

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

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 (IMPEDE FLOW)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Range	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Road - four lane	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Water Level Control Structure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Row Crops	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Parking Lot/Pavement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Excavation, Dredging	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Fallow Field (RECENT-RESTING ROW CROP FIELD)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Golf Course	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Fill/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 checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		Nursery	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Suburban Residential	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Soil Loss/Root Exposure	<input checked="" 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 checked="" type="radio"/>	<input type="radio"/>	<input checked="" 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	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 checked="" type="radio"/>	<input type="radio"/>	1
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 type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Offroad vehicle damage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Highly Grazed Grasses (OVERALL <3' HIGH)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Soil erosion (FROM WIND, WATER, OR OVERUSE)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Recently Burned Forest Canopy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Recently Burned Grassland (BLACKENED)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

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

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

Buffer Sample Plots 05/27/2011

2428168304



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

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

Site ID: PCAP 1222 RRDATE: 06/12/2012

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 (&lt;10%); 2 = Moderate (10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (&gt;75%)

Buffer Plot 1	Canopy Type: <input checked="" type="radio"/> D <input type="radio"/> E	Absent: <input type="radio"/>	Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N	Flag	Buffer Plot 2	Canopy Type: <input checked="" type="radio"/> D <input type="radio"/> E	Absent: <input type="radio"/>	Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N	Flag	Buffer Plot 3	Canopy Type: <input checked="" type="radio"/> D <input type="radio"/> E	Absent: <input type="radio"/>	Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N	Flag				
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"/>		Big Trees (>0.3m DBH)	<input checked="" type="radio"/>	<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"/>		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"/>	<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-5m HIGH)	<input type="radio"/>	<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"/>	<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"/>		Herbs, Forbs and Grasses	<input type="radio"/>	<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"/>		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"/>	<input 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"/>		Litter, duff	<input type="radio"/>	<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"/>		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"/>	<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"/>		Water	<input type="radio"/>	<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"/>		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"/>	<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 (IMPEDE FLOW)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Range	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Road - four lane	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Water Level Control Structure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Row Crops	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Parking Lot/Pavement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Excavation, Dredging	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Fallow Field (RECENT-RESTING ROW CROP FIELD)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Golf Course	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Fill/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 checked="" 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	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 checked="" type="radio"/>	2
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 type="radio"/>	<input type="radio"/>	<input type="radio"/>		Offroad vehicle damage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Highly Grazed Grasses (OVERALL <3' HIGH)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Soil erosion (FROM WIND, WATER, OR OVERUSE)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	1
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Recently Burned Forest Canopy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Recently Burned Grassland (BLACKENED)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

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

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

Buffer Sample Plots 05/27/2011

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