CLEVELAND METI	ROPARKS Plant Community Asses	sment Program:	Quality Control Form
Project Label:	PCAP	_ Plot No:	1352 Date Sampled: 7-12/7-24 Lead: LANCE
- 530			Comment required if item answer is NO
Parking/Access outside	of Park Boundaries:	Y(N)	If yes, write details in Comments section below
Field journals complete		(y)N	
Site sketch made on 1:		YN	
Check cover page	X-axis Bearing of plot recorded	Y N	
	GPS coords. Recorded	Y N	
	North direction recorded	И	
	Photographs taken?	N	
Plot No., Date agreeme		Y N	
Header data completed		(Y) N	
	in all Intensive modules	Y) N	
Browse Level By Spec		N	
Woody stem quality co		(X) N	
Invasive plant quality		Y N	
Ash trees mapped		Y N	NONE IN INTENSIVES
Cover by Strata? (conf	irm cover type)	Y N	
Soil samples collected		Y N	
	atasheet with initials and number	Y N	
Vouchers labeled on co		YN	
Pink flags removed	site ettori oug	YN	
Data sheet QA before	leaving site?	N	
Common equipment re		YN	
Data sheets scanned?	turned to tub.	2/2/13	Enter date to left \$6
Final data sheets scann	and?	101611	Enter date to left
Buffer Widths measure		(Y) N	BB 6-78-13
	<u>au'</u>	N N	AC 7-26-13
Web Soil Survey	D-Girinata	Y N	7.0 7 5.0 13
Voucher Location	Refrigerator	I N	Enter number to left
(# vouchers collected)	Press (#)	V N	Enter itulibes to lett
A(1/100)	Drier	YN	
103 104.	Identified	Y N	
112	Mounted	Y N	
110	Thrown away	Y N	
GRTS point verificat	ion: Is plot sampleable?		
L ∕Yes	Original GRTS point is sampleable		
□ No	Original GRTS point lands in a non-	-sampleable area (fill in category below)
	D Point falls in a water (i.e. river,		
	Managed moved area (i.e. gold	course, picnic area, rig	ht-of-way)
	☐ Paved area (i.e. parkinglot, road) ☐ Unsafe to sample (i.e. steep slop	e)	
	Other		
Additional Comment	s:		
!			
1			*
			Natural Description Management Form ND

Bring pmo

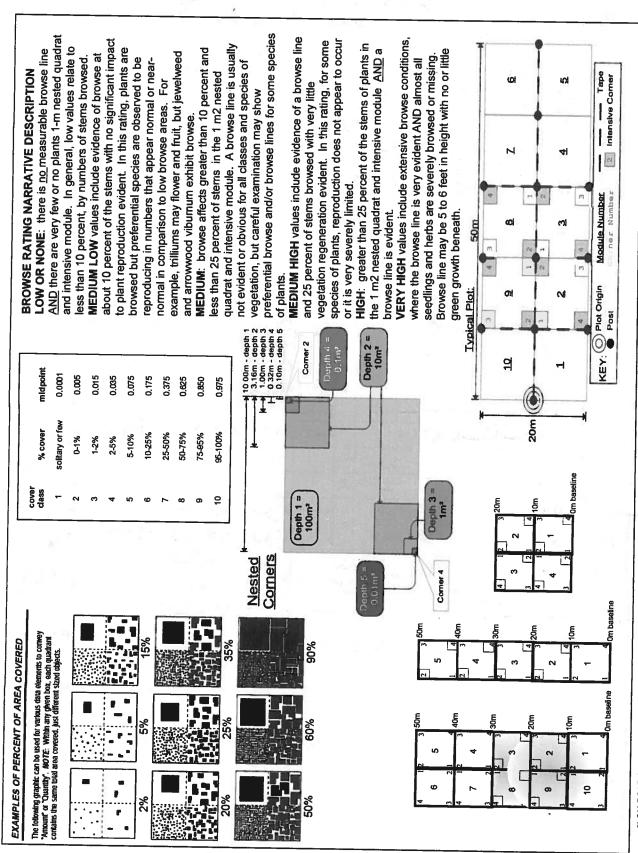
CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet GENERAL INFORMATION PLOT NOT SAMPLED: SAMPLING QUALITY* Party roject Name: () 5/ 2012 Minimum required fields in Bold and Underlined TAXONOMIC STANDARD vascul TAXONOMIC ACCURACY Very thorough Effort Level: Perm. water and date (if > 1 day):07' 1231 26 is ate (mm/dd/yyyy):67 /22 2013 Wooly (aphid) World Roles: Co-leader, Asst., Guide, Owner, Taxonomisi, etc. Hurried Accurate aceral Level 4 (no nested corners sampled Level 5 (nested corners sampled) Lance high ☐ Paved ☐ Slope ☐ Safety G&C modera. how much effort put into subjective evaluation of may still provide good sampling. Hurried plots Pub Date: Role** Plot leader low *padactreu* S □ Other not smp **7/**a LOCATION Source of coordinates

MAP If data not public why? □ Fuzz 100m □ Fuzz 250m □ Fuzz 500m Check one: Public data Private Data Data Confidentiality: Quadrangle Keason: Local Place Names: Camera No.: C3 GPS location in plot x=0 to 5, y=1,0,+1): ■ Lat/Long □ UTM □ StatePlane Landowner: □ Systematic (grid) □ Capture specific feature □ Other Plot placement: #GRTS Depth: (1-5): Plot size for cover data: (). GPS File Name: \352 A Coord. Accuracy: Km n ft Datum: ■ NAD83/WGS84 □ NAD27 Other (specify) Coordinate system: Random
 Stratified Random
 Transect component ntensive modules: 2 3 8 9 3 4 7 8 (EDIT IF MODIFIED ongitude: 08), 41735 *Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide HO X-axis Bearing of plot: CMP Squam Rock (base of plot x=0, y=0) 1215 County: Cuy who ag ■ deg □ deg min Coord. Units Representative m oft o S15 - HO [Ob!] ° hectares) species found along the trail edge.
Otherwise, the herbaceous layer was quite sparse. Beech was abundant in all 3 strata.
Sugar maple was also abundant, although forest plot. A trail runs through modules Veg. Characteristics - A nice beech-maple content), Rationale (why here), and Veg Characterization (description of community. NOTES: Include Layout (any unusual shape details), Location (directions and landscape 1 and 10, There was an abundance of dominants, strata, BROWSE). Additional notes in space on back thate trees were still relatively young. Ney: O(0,0) point OFS location Ked maple was present, as was a Layout: 2x5 Rationale: GRTS ocation: SC, parked a Squaw Rock picnic and a walked foot trail accross road (N) 300m up path #10 #1 į, #5 Ē (B) Chevland Matruparky Page 1 of 2 location of permanent posts OVER あ 5

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet Project Label: PCAP Project Name: O\SC 201	nmunity Assessment Progi	am - Background Data Sheet	O Plot No.:	(352	©ClurelundMulrepublic
MODIFIED NATURESERVE CLASS*		DISTURBANCES			
CODE (on separate form):	Fit=Conf=	type* severity**	ity** yrs ago % of plot	lot description	
		-	0		
		Natural	7		
COMMUNITY NAME:		Fire			
present maple to rest		Cut			
	<i>x</i>	Animal	0 1007.	2. bowse	
HOMOGENEITY		**L=low_ML=med low	ed low M=med MH=m	M=med MH=med high 14=high VII	
ra Homogeneous Compositional	□ Compositional trend across the plot	Current Land Use:			angui
□ Conspicuous inclusions □ Irregular/pattern mosaic	mosaic	Former Land Use:			
	HYDROLOGIC REGIME*		Ц		
	D'Upland (seldom flooded)	□ Intermittently flooded			53.00
SALINITY*	□ Intermittently/seasonally saturated	ed	<u>.</u>		
□ Saltwater	(seldom flooded)	□ Permanently flooded			
□ Brackish	□ Permanently/Semipermanent. saturated	turated 🛘 🗖 Tidal/Seiche flooded daily	Гу 		
a Fresh	(dry <1/yr, seldom flooded)	☐ Tidal/Seiche flooded monthly	nthly		
a Epland (n/a)	□ Occasionally flooded (<1/yr)	☐ Tidal/Seiche flooded irregular	gular		
	□ Temporarily flooded	(e.g. wind, storms)			
(by default unless plot is a wetland)		a Unknown			
Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.) Cucumber magnetia. Blue-stemmed goldewood and beechdrops were two horbarders	ss of plot to the stand, successional. Blue-S-kmmed	golder of and	beechdrop	s were tw	o herbarea
species of note: Brow	se was minimal	throughout the	e plot.	. i	
* Intensive modules were modified in order to colin as	modified in ar	to the solution of			
intensives.			impact or	the trail	edge on
::61					

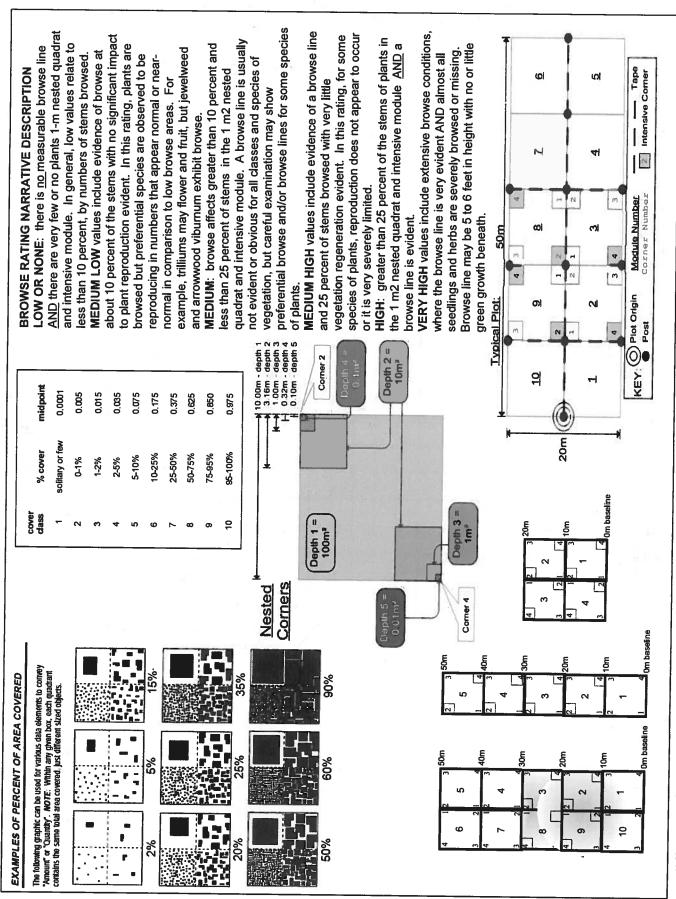
Françaila colonis - SW Lonicora marporis - SW Berberis - SW

2aCM PCAP Spec	تو		ي	<u>ූ</u>	S S	<u>م</u>	25	<u>い</u>	<u>پ</u>		ည	95 20	以	66	ر ة	88.5	9)	92	23	S	93	CQ	ಶು	875	Т S H (F)(A)	Strata - Cov. entire plot	in the second second	Cleveland	4	9	Total modules:	CLEVELAND M Project Label:
- L	2	Majorthamin racenosus	\sim	7 Solidago caesia	5	Enforces virginiona	Lonicera morrowii	5 Taxicollendron radicons	Podophyllum peltatum	1	Eminymus Obovatus 2000	Pracea #				2	מוזייט .	Fraxinus sp. seedling	la l	Carex sp. 1 states	ea	Allium tric	Ž,	3 Fagus gra	Br Species	olot	enure ploc	describe amount of browse per species over	Br = Browse Level. Use cover classes to		10	CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a Project Label: PCAP Project name: 01 50 3013
ed 5/29/2012 ceh											31-	ACT 104							X ACL HOBIOS		04-512				c Voucher#	%unveg. litter (bare litter)	%unveg ground (bare soil)	%open water	intensive module:	Estimate for each	Intensive modules:	ment Program Species (Project name: 0
6							رد د	_	<u>-</u>		ر م	بر م	<u>-</u> س	ູ ນ	2	F	دو _	_	_	ر د د	ンジ	2 2 3 3	3 3 3 3	たった	depth cov depth		22	1	depth cov depth	mod comer mod	7	ies Cover Data : 01 SC 2013
5			9			2) 2)						22	0) (1)	H 3 8	2	4	ー 2	73	دع	<u>ನ</u>		نع نع		10 11	1000	1 8	1	1 -	cov depth cov dept	comer mod corner mo	Plot configuration:	Sheet 2a Plot no
Natura	U)			S S S S S S S S S S S S S S S S S S S	1 W	0.			-5					7	2	(N)	2					S W W	ره ره		depth cov depth cov	1	-	-	h cov depth	d corner mad	2×5	0:1352
Resource Manager	دوا			2	نو	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \							-	X 3 4	¥	37		ر د د	_			333	3	7	v depth cov depth	<u>0</u>	1	-1	cov depth cov depth	comer mod comer mod	Plot area (ha):	סר
Natural Resource Management FORM NR/2010-02a			2	23		92				-	_		رد د	6.3	دو		0.		2	نو		ىع	<i>S</i> 3	9.4	cov depth cov	q	4		cov depth cov	corner mod corner n	(ha):	Page of
0-02a	-	-	_	\vdash	,		-			-			-	-	\vdash			-			\vdash				depth cov			1	depth cov	R comer		W



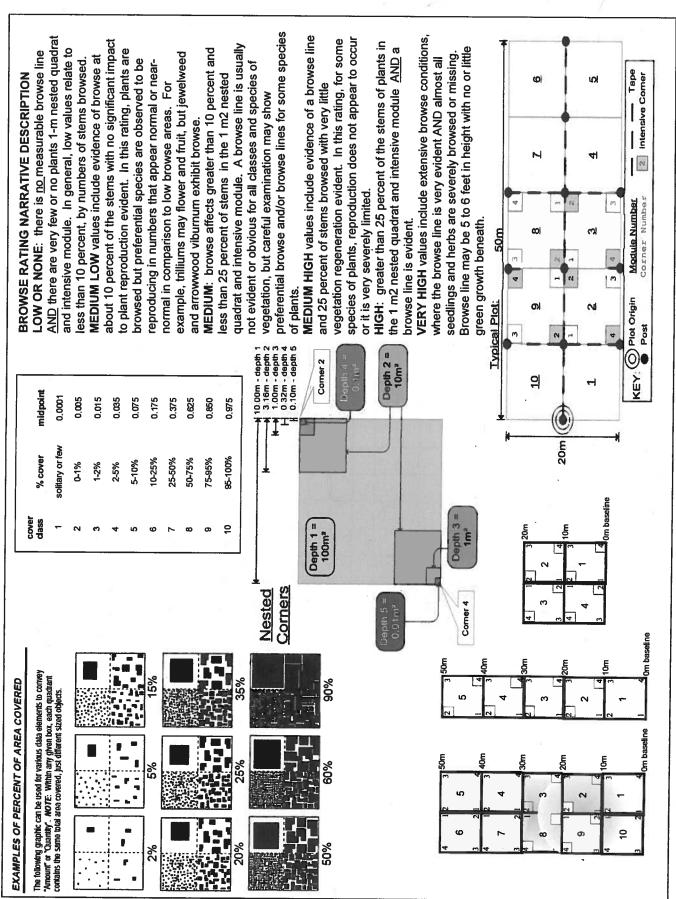
2bCM PCAP Species Cover Data Sheet Back Page_ver 1.3.ppt

PCAP Project name: 01 SC 2013 Pol not: 1252 Pol area 10 Intensive modules: 4 Pol configuration: 2x S Pol area Br = Browse Level, Use cover classes to describe annual of throwse pre- species over the pol of the po	OnDAA BOAD Conning	<u>ک</u>	دو	دو	حو	92	دو			න ව	93	دو	ಖ	2)	دو	ىع	حع	کو	`	<u></u>		2	9.) (A)	2)	2)	9)	T S H (F)(A) Br	Strata - Cov. entire plot	Wetvoparks	Cleveland	8	9	l Otal Hilodules.	Total modules:	Project Label:
Plot no.: 135%	Pount Data shoot Dags 1 of 4 ups 3 de last routines		# 2 Hackalla		Cornus		Unknown dicot	sp. Sped	_	0	hiriodendron tulipifera	# 2 Bidens 3	ONUM I			Leersia virginica	Geum canadénse	Policipanian virginiansia	Berberis Hunbergii	Viola Sp. o	Carva Sp. seedling				Avisaema triphyllun + Pringlum	Polyanatum			entire plot	describe amount of browse per species over	Dr = Browse evel lise rover riseses to			5	PCAP
Plot no.: 135%	4 8730/3013 ~~h	K	CH-51				C4-497					C4-496	X ACL 095	Ct-495						,		7					1	%unveg. litter (bare litter	%unvegetated open wate	%open wate	intensive module:	Estimate for each	ilicilate illocalea	Intensive modules	Project name
Plot no.: 135%																,											depth cov depth	П		1	cov depth	comer mod		1	Of SC 2013
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Viot area (ha): Conv depth cov dept	Nintural Danaura										,										N	<u>-</u>	ಖ 	<u> </u>	<u>ー</u>	<u> </u>	depth cov	<u></u>	-	-	depth	mod corner mod			455
	Management CODI	_																		ص عن	シ -					بو	depth			1	depth	x mod	111		9



2bCM PCAP Species Cover Data Sheet Back Page_ver 1.3.ppt

Project Label:	EIROPARNS PIAM COMMUNITY ASSESSIN	וופוונ דיטטרמווו באפני Project name:	Ol Sc 2013		1352		raye 🏅 (\ \ \ \
Total modules:	10	Intensive modules	4	configuration:	225	Plot an	ea (ha):	
>		Tatimata for pook	mod comer mod c	DOM	mod	ner mod comer n	nod comer mod co	corner mod corner
3	Rr = Rrawse evel. Use cover classes to	intensive module:	depth cov depth	depth	cov dapth	60	cov depth	
Heveland	describe amount of browse per species over	%open wate	Т	2 -				
•		%unveg. ground (bare soil					_	
ata - Cov. entire p	blot	%unveg. litter (bare litter	13	1	-1		1	
S H (F)(A)	Br Species	c Voucher#	depth cov depth	cov depth cov de	cov depth	g/	cov depth	+-
رو	Pilea punila						-	
دو	Plantago Sp.	505 1-10-1-						$\overline{}$
2)	Carey 20 olatocinos	X ACL112				-	_	ア 23
دو								
2		C4 - 514	-			-		ا الا الا
5	Fraxinus sp.							-
92	Rumex obhusitalius							+
E								RH
						-		
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-			_			_	-	
						-		
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	Project Label: Total modules: Strata - Cov. entire F T S H (F) (A)	Total modules: Project Label: PCAP	Tolget Label: PCAP PCAP PCAP Project name: Pro	replications: A	PCAP PCAP POST Intensive modules: ### Plot configuration of browse per species over describe amount of browse per species over entire plot ### Species Plantage Species C S	Plot no.: 135 2 ion: 2 v 5 ion: 2 v 5 cov depth cov depth 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Plot no.: 135 2 ion: 2 v 5 ion: 2 v 5 cov depth cov depth 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Plot no.: 1352 Plot area (ha):



2bCM PCAP Species Cover Data Sheet Back Page_ver 1.3.ppt

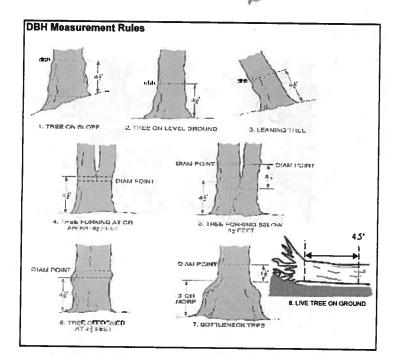
CLEVELAND MICI RUFARRS FIGIIL CUIIIIIIIIIIII ASSESSIIIEIIL FIUGIGIII NGIUIGI YYUUUY SIEIII DAIG SIIEEL Project Name: 015C 2013 Oleveland Metaparks

Project Label: PCAP

Plot No.: 1351

Page:

mod # エ 9 GI 01 Standing dead Standing dead Corno's sp. Aver southwen Explain subsample (additional room on back): Standing dave Toxicodend on adians Standura dead Aces sacchision Standing dead Fagus grand. Folks Acer sp. Parthonassis quinquelicha Texticolendron radicans Francious so. Francula Olas Standing dead Aces Sacchardon Mos rubrum Acer cubrum Linder penzoin ragus grandifolia voucher# browsed 0-1.4m stems or super % sub shrub clumps # size class (cm) woody stems >1.4m 200 M, 9 6 0-<1 9 0 0 Q No. 九/40区10区区 図 図 图: 00 区区:区区 1-<2.5 M 2.5-<5 :1 7 5×10 10 - <15 15 - <20 0 20 - <25 25 - <30 30 - <35 35 - <40 ಕ 65.7 73 >40 (record each tree) 65.6 76.5,53.8 65.0 78.4 40.3



Woody Stem Deer Browse

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

Record using the tally system from 1 to













ASH CANOPY CONDITION

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



В

С

D

E

ASH CANOPY BREAKUP CONDITION (for dead trees):

(if an ash receives a score of 5 (dead) under canopy condition it must also receive a breakup condition rank as described below)

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

Project Label:

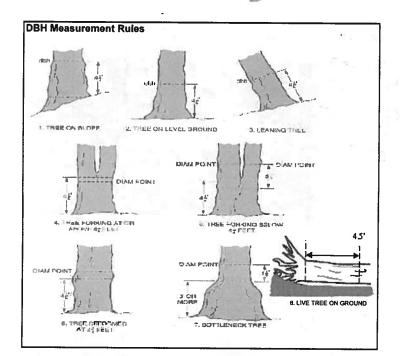
PCAP

Project Name: OFSCTSSA O(%263 Plot No.: 1352

Page: ______o

of Coleveland Metroparks

6 0 9 0 و Acer sexchain Magnolia acominata Explain subsample (additional room on back): Robbys serving Standing dead Ostraa virginana Stonding doad Mangolia ocomionta Fayors arond bolica Acer Suddivision Acer sacurano नेकां व्याप्त किरान Standing dual Acor ruscum Carya Cordibum Linder Venzoin Fagus good; fola Acer down Hoer saccharum loxicodendon radicans mouse braza in species voucher# # stems . browsed 0-1.4m 0 or super sample % sub shrub clumps *a* # size class (cm) woody stems >1.4m 阿 e C 9 7 त 0-<1 四四 調 具 न H 1-<2.5 K Ħ 2.5-<5 四 00 N 0 01 以 :1 11 5-<10 10-<15 5 15 - <20 Ф 20 - <25 25 - <30 30 - <35 35 - <40 ō 5.5 67.0, 55.7 >40 (record each tree) 53,7 上,5 66.3 54.3



Woody Stem Deer Browse

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C

D

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		y															Module		CLEVE
4	16	5	14	13	12	=	10	9	00	7	6	On .	4	u	2	1	₽ I		LAND
																NO ASH	Species		CLEVELAND METROPARKS Emeraid Ash Borer - Fraxinus Sheet Project Label: PCAP Project
						-				H						\vdash	Dead		h Bore
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																	Voucher#		xinus Shee
	10							T									(cm)		et Nam
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																	Woodpecker hales		INTENSIVE MODULES ONLY Plot No.: 552 Date: 13
			В	nseilr	ne							240					40.		Date:
					_					*** Change i									1852 TREES
	2						9			ntensive module nu				Z					ES > 10CM ONLY +/22/13
[·						®	-		*** Change intensive module numbers when necessary									Page: 1 of 2

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

18

24 23 22 21 20 . 19

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey Cleveland Metroparks Tier 1: Early detection/ Rapid response Presence **GPS** NE SW NW Presence Microstegium vimineum Japanese stiltgrass X: yes 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 NE SE SW NW # of Plants 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 5: >1,000 Celastrus orbiculatus (vine) Asian Bittersweet Torilis sp. Hedgeparsley Conium maculatum Poison Hemlock Rhamnus cathartica Common Buckthorn (shrub) Berberis thunbergii Japanese Barberry (shrub) Alnus glutinosa European Alder Dipsacus laciniatus **Cut-leaf Teasel** Elaeagnus umbellata Autumn Olive (shrub) Lonicera maackii Amur Honevsuckle (shrub) Euonymus fortunei Wintercreeper **Tier 3: Presence is of Interest** # of Plants comments NE SE Isw NW # of Plants Convallarla majalis (G-cover) Lily of the Valley 1: 1-10 Coronilla varia (G-cover) Crown Vetch 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) Viburnum plicatum Doublefile Viburnum (shrub) Tier 4: Widespread and abundant **Presence** comments NE SE sw NW # of Plants Alliaria petiolata Garlic Mustard 1: 1-10 Ligustrum vulgare Common Privet (shrub) 2: 11-50. L. morrowii, L. tatarica **Bush Honeysuckles** (shrub) 3: 51-100 Phalaris arundinacea Reed Canarygrass 4: 101-1,000 Phragmites australis (wetland) **Phragmites** 5: >1,000 Polygonum cuspidatum Japanese Knotweed Frangula alnus Glossy Buckthorn (shrub) Rosa multiflora Multiflora Rose (shrub) Typha angustifolia, T. x.glauca Cattails (wetland) Cirsium arvense Canada thistle Dipsacus fullonum Common Teasel Hesperis matronalis Dame's Rocket Vinca minor (G-cover) Periwinkle

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

CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover and Earth Surface Project Label: PCAP Project Name: 01 SC 20 STANDING BIOMASS (required for emergent wetlands) collected in 0.1m clip plots (32x32 cm) from comes 1 and 3 in each intensive

Plot No.: 352

Page: 1 of 1

n 0.1m clip plots (32x32 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. C?=check when collected	from corners I and score calculation. C	3 in each	intensive when
Module #	C?	Corner Corner	Camer

□ FOREST □ swamp forest □ bog forest □ forest seep
□ EMERGENT □ marsh □ wet meadow □ open bog CLASSIFICATION a SHRUB a shrub swamp a tall sh bog a tall sh. fen n COASTAL (specify subclass) □ SLOPE (ground water hydrology or on a physical slop) n RIVERINE o Headwaler o Mainstem o Channel n IMPOUNDMENT o Beaver n Human DEPRESSION hydrogeomorphic class (WETLANDS ONLY): FIT = excellent, g Fit and Confidence Thio EPA VIBI Plant Community Class (WETLANDS ONLY): FRINGING D Reservoir D Natural Lake BOG (strongly, moderately, weekly ombrotrophic) 7 7 Fit T Ŧ 1 Conf Conf= Conf Conf Conf Conf=__ Conf-Conf=

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

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

- feature is absent or functionally absent from the wettand
- feature is present in the wetland in very small amounts or if more common, of low quality
- teature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality

10 feature is present in moderate or greater amounts and of highest quality

					c.w.d coun	for pieces with	c.w.d count for pieces with minimum 1m length	
		no. of	no of	no. macro.	c.w.d	c.w.d	c.w.d	microhab.
		tussocks	hununocks	depressions	(2-12 cm)	(12-40cm)	>40 cm	interspers.
			uplands (Tip-Ups)					
	descent.	depth 3	depth 2	depth I	depth 1	depth 1	depth 1	depth 1
		lxim	3.16x3.16m	10x10m	10x10m	10x10m	10x10m	10x10m
mod#	corner	(count)	(count)	(count)	(count)	(count)	(count)	(rank)
de		0	0	-		V	0	1
b		0	0		6	0	0	ည
1		S	0		17	0	-	t
٦		0	0	لع	7	N	-	نی
æ		0	0	2	9	-	0	b

CROWN COVER (DENSIOMETER): Make 4 readings per module facing N. S. E. W. Place dot count in

		$\overline{}$			$\overline{}$				
corresonding space	Module			8	•	(ju	_£		00
1	:ÎN	ala	1	1	1	7	4	9	4
(4 dots per grid square)	s	9	_1	91	12	4	ហ	12	13
	e e	-	S C	8	4	6	S	6	9
_	2	ß	ijĠ	9	6	13	立	6	2
							Carlotte Control		

McNAB INDICES (degrees) + for up - for down

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

+315 degrees	esorgan ov 7.	+770 danson	+225 degrees	+180 degrees	+135 degrees	+90 degrees	+45 degrees	At aspect	
NW	1		WS	S	SE	E	NE	z	
									LFI•
									TSI**
		away	eye of person	recorders eye to	TSI measure	angles formed by local slopes. For	horizon. TSI is	LFI is angle of	

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

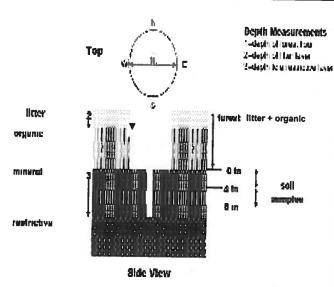
SaCM PCAP Plant Cover_Earth Surface Data sheet Page 1_ver 3.xls last revised 5/29/2012 ceh

COVER BY STRATA

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

*Very tall shrubs are sometimes included in the tree stratum

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



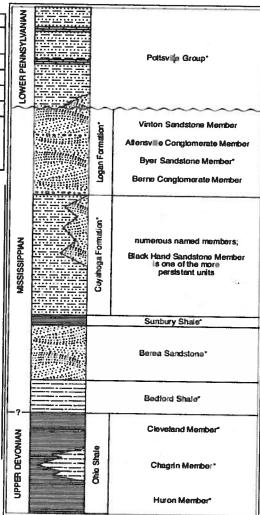


FIGURE 3-20.—Generalized section of Upper Devonian, Missasippian, and Lower Pennsylvanian formations in northeastern Ohio. Asterisks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses indicated are proportional. The term "Waverly is used in the older literature to refer to Missasippian rocks in Ohio. Some geologists use the European term "Carboniferous," which encompasses the Missasippian and Pennsylvanian Periods of the U.S. Many units have been named within the Cuyahoga Formation, but most units are local and cannot be traced over great distances. The Black Hand Member 1s a spectarular massive sandstone that is fairly undespread but discomminuous. See Hyde (1953), Hoover (1950), and Collins (1979) for more information on Mississippian rocks in Ohio. See figure 3-18 for explanation of rock types.

^{**}Can also include seedlings of shrubs, i.e. all shrubs <0.5m

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet 6a
Project label: PCAP Project Name: 01 SC 2013
Ptot No.: 13 52

City Chand Methoparks

Page: 1 of 1

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

Soil pit module # _ _ (one per entire plot)

20 cm 5 cm matrix color 2.54 oxid roots matrix color hydr. cond.*** oxid roots redox features** mottle nottle color ottle color I S M D 2 2 2 Soil Series Source: Ohio Soil Survey

hydro. cond.*** redox features** I S M Z

*** Circle one:

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

Notes: include evidence of earthworms (worms ** e.g. hydrogen sulfide odor, gleying, etc. refer to texture classes on reverse side

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

3428 2000 composited Soil Collection Moduld Horizon (A. B. C)

soil Series Type: FCB-Fitch will sit loan Veb Soil Survey Information:

Parent Material: LACUSTING DEPOSITY, DOW Depth to rest. Layer: More than 80 in Cles with androm type Knolls on terrocal, glacial

RAINAGE

□ Excessively dr. □ Somewhat excessively

 Well drained Somewhat poorly dr. Moderately well dr. U Very poorty dr.

 Impermeable surface AS 7-26-13

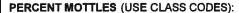
0.1 cm in center of intensive modules. If >30.5 cm,
SOIL DEPTH MEASUREMENT: Measure to the nearest

8	7	4	3	mod#
5. 6	45	25	<i>3</i> 5	l litter+ organic depth (cm)
3,0	4,5	2.5	3.5	2 litter depth (cm)
Ø	Ø	φ	ϕ	water depth (cm)
730	730	730	730	depth sat soil (cm)

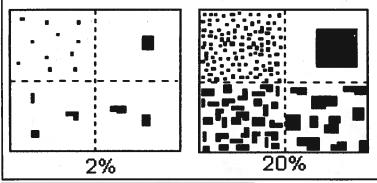
			Ī
(Non = 100%)	Derront	(F.a. 4 < 100sc)	
9 I	26	Coarse Woody Debris***	77 0
Mineral Soil	10000	Fine Woody Debris****	رن و
Gravel-Cobble*	0%		288
Boulder**	0%	Duff (Ferm.+ Humus)	Ö,
Bedrock	0%	Bryophyte- Lichen	
* Gravel-Cobble = 1/16-10*	1/16-10"	Water	(3)
**Boulder = > 10 in	5	Bare Soil	2)
*** >5 cm in diameter	cter	Road/Trail	5%
		D.L	0

COVER BY STRATA estimate using midpol	COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13	,ex:3, 8, 13
Strata	Height Range (m)	Total Cover (%)
Tree	ئ .	9870
Shrub	•5.5	687.
Herb	0-,5	28%
(Floating)*	•	
(Aquatic)*	•	
* rooted and fic	rooted and floating or slightly emersed	sed
" submersed,	"submersed, most plant mass below surface	w surface
SEE BACK OF DESCRIPTION	SEE BACK OF PAGE FOR "TYPICAL"STRATA DESCRIPTIONS. STRATA CAN VARY BY CO	SEE BACK OF PAGE FOR "TYPICAL"STRATA DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE.
	-	The second secon

0	0	0	*	0	0	J	ā	7	100
□ Deer	נו Gravel	□ Bootleg unsanctioned	Kiking sanctioned	n Bridle	a All Purpose	Туре	record type and cover for each	RAIL INFORMATION:	
			52			%Cover	ech .		



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

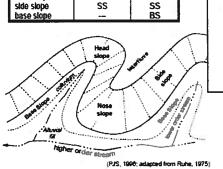


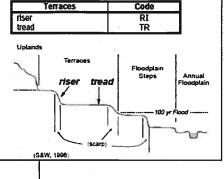
SOIL TEXTURE: Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper; the sample should be wet enough that all of the particles are saturated but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

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

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

Hills Code
PDP NASIS
Interfluve IF IF
head slope HS HS
nose slope NS NS
slde slope SS SS
has slope RS





Hilistope - Profile Position (Hilistope Position in PDP) - Twodimensional descriptors of parts of line segments (i.e., slope position) along a transect that runs up and down the slope; e.g., backslope or BS. This is best applied to transects or points, not areas.

- 1		0000		
ı	summit	SU		
ı	shoulder	SH		
1	backslope	BS		
1	footslope toeslope	FS		
1	toesiope	TS		
1				
ı	Su Sh		Sh Su	
ł	Bs.		Bs I	
ı				
ı	1	Fs drawn	Fs /	
ı	1	I Ts / Ts		
ı	73		1	
ı		Albuvium		
ı	(PJA, 1996; acaptes from Rune, 1			

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

UPLAND: Not a wetland. Very rarely flooded.

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

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

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

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

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

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

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

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

A LANGE SERVE

FORM B-1: BUFFER SAMPLE PLOTS (Front) Site ID: PCAP SC 1352 DATE: 0.7 24 20 13																			
Site ID: PCAP	5	C	13	52								DATE	: <u>0.7</u>	124	12	-0	(3.	
Location:						FIII	in b	ubb	le(s)	If p	lot(ald not be						
O AA Center O N		S	01	E O	W		Plot 1			Plot			Plot 3						
Fill in bubbles for all that apply: Ca	nopy	Type	D = [Peciduoi		Buffer							Ahsent: No tre	e canony					
Strata Section: Fill in appropriate of															vy (40-75%	s); 4 = \	Very H	leavy	(>75%)
Buffer Canopy Type: ©) () AI	bsen	ıt: 🙆	Buffer	Canop	у Тур	e: 📵) () Al	bsen	t: ()	Buffer	Canopy	Type: () () At	osent	t: O
Plot 1 Leaf Type: ①) (_	Flag	Plot 2	Lea	of Typ	e: 🔞) <u>(</u>		_	Flag	Plot 3	Leaf	Type: (0)	-	Flag
Big Trees (>0.3m DBH)	0	0	0		Big Trees (>0.3m DBH)	0	0	(0	0		Big Trees	(>0.3m DBH)	\odot	0	0	0	
Small Trees (<0.3m DBH)	0	0	0		Small Trees (<u> </u>	0	(0	\odot			(<0.3m DBH)	$\stackrel{\smile}{\sim}$	0	0	0	
Woody Shrubs, Saplings (0.5m-5m HIGH)	0	0	0			n-5m HIGH)	19	0	0	(0		(0.5	ubs, Saplings 5m-5m HIGH)	\odot	0	0	0	
Woody Shrubs, Saplings (<0.5m HIGH)	0	0	0			0.5m HIGH)		(1)	0	0	0		(-	ubs, Saplings <0.5m HIGH)	0 @	0	0	0	
Herbs, Forbs and Grasses	0	0	0		Herbs,	Forbs and Grasses		0	0	0	0		Herbs	, Forbs and Grasses	0 0	0	0	0	
Bare ground 🕐 🕦	0	0	0	ŀ	Bare	ground	(3)	0	0	0	0		Bai	re ground	0	0	0	0	
Litter, duff 🙆 🕕	0	0	0					0	0			Litter, duff 💿 🕦				0			
Rock 🕡 🕕	0	0	0			Rock	(1)	0	0	0	0			Rock	1	0	0	0	
Water 💿 🕦	②	0	0		Submarred C C				0	0	0		Water (i)				0	0	
Submerged Vegetation	0	0	0			ubmerged /egetation	0	0	0	0			Submerged Vegetation	(b)	0	0	0		
Stressor Presence/Absence - Confirm that a filled data bubble indicates presence and												unfilled			nce by fil	ling th	is but	oble.	0
Residential and Urban Stressors Hydrology Stressors Agricultural & Rural Stressors															3				
Flil bubble if present - Plot	1	2	3	Flag					1	2	3	Flag	Fili bubble	e if presen	t - Plot	1	2	3	Flag
Road - gravel	0	0	0		Ditches, C	-	100		0	0	0		Pasture/Ha	а у		0	0	0	to all and
Road - two lane	0	0	0		Dike/Dam/ (IMPEDE FLO		≀ Bed		0	0	0		Range			0	0	0	
Road - four lane	0	0	0	9	Water Lev	el Contro	ol Stru	cture	0	0	0		Row Crops			0	0	0	
Parking Lot/Pavement	0	0	0		Excavation	ı, Dredgii	ng		0	0	0		Fallow Fiel	.D) (Q.		0	0	0	
Golf Course	0	0	0		Fill/Spoil B		^ - dim		0	0	0		Fallow Fiel SHRUBS, TRI		ASS,	0	0	0	
Lawn/Park	0	0	0		Freshly De	ED)	1000000		0	0	0		Nursery	11116	17173	0	0	0	
Suburban Residential	0	0	0		Soil Loss/F		osure		0	0	0		Dairy			0	0	0	
Urban/Multifamily	0	0	0		Wall/Ripra	1111			0	0	0		Orchard			0	0	0	
Landfill	0	0	Ö		Inlets, Out Point Sour				0	0	0		Confined A		ding	9			
Dumping	0	0	0		(EFFLUENT C	OR STORMV			0	0	0		Rural Resi	denuai		0	0	0	
Trash	0	0	0		(SHEETFLOW	V)	* ·		0	0	0		Gravel Pit Irrigation		TO THE	9		0	
Other:	00	0	0		Other:		071-12-	_	0	0	0		_			0	0	0	,
Other:		0	0		Other	Art Carlo	Callin			0			Other:					<u> </u>	
Industrial Developme	ent S					No. 11 Inc.	5 1		_				tion Stress						
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble	if prese	nt - P	lot	1	2	3	Flag	Fill bubb	le if prese	nt - Plot	\vdash	2		Flag
Oil Drilling	0	0	0		Forest Clea	r Cut			의	0	0		Herbicide U	lse		0	0	0	
Gas Wells	0	0	0		Forest Sele	ctive Cut			0	0	0		Mowing/Sh	rub Cutting		0	0	0	<u> </u>
Mine (surface)	Tree Planta				<u> </u>	0	0		Trails			0	0	0					
Mine (underground)	Tree Canop (INSECT)				0	0	0		Soil Compa (ANIMAL OR H		٠	0	0	0					
Military	Shrub Laye (WILD OR DO)	MESTIC)			0	()	(4)		Offroad veh			0	0	0					
Other:	0	0	0		Highly Graz (OVERALL <3"	HIGH)			0	0	0		Soil erosion OR OVERUSE		D, WATER,	0	0	0	
Other: OOO Canopy							rest	7	0	0	0		Other:	NOTHE	ow	0	0	0	コ
Other:	irned Gra	isslan	d	0	0	0		Other:			0	Ö	0						
Flag codes: K = No mea	uspect measi flags in comm							igned by	y each field c	rew.	242	8168	3304						

• FO	ORM	B-	1: [BUFF	ER SAMPLE PLOTS -	TAI	RGE	TEI) ALI	EN SPECIES (Back) Reviewed b	y (Initia	ıl):		
Site ID:	PC	AP	50	13	52	DAT	E: _	0.	7.13	2412013				
O Confirm	a fili	ed da	ata b	ubbie i	ndicates presence and an uni	filled	bubbi	le Inc	iicates	absence by filling in this bub	bie			
Fill bubble if present - Plot	1	2	3	Fiag	Fill bubble if present - Piot	1	2	3	Fiag	Fill bubble if present - Plot	1	2	3	Fiag
Eurasian Watermilfoil	0	0	0		Purple Loosestrife	0	0	0		Johnson Grass	0	0	0	
Water hyacinth	0	0	0		Knotweed	0	0	0		Kudzu	0	0	0	
Yellow Floating Heart	0	0	0		Japanese Knotweed	0	0	0		Multiflora Rose	0	0	0	
Giant Salvinia	0	0	0		Perennial Pepperweed	0	0	0		Common Buckthorn	0	0	0	
Garlic Mustard	0	0	0		Giant Reed	0	0	0		Himalayan Blackberry	0	0	0	
Poison Hemlock	0	0	0		Cheatgrass	0	0	0		Tamarisk	0	0	0	
Mile-A-Minute Weed	0	0	0		Reed Canary Grass	0	0	0		Other:	0	0	0	
Birdsfoot Trefoii	0	0	0		Common Reed	0	0	0		Other:	0	0	0	
Canada Thistle	0	0	0		Leafy Spurge	0	0	0		Other:	0	0	0	
	LINE SE									Other:	0	0	0	
					PLOT COORI	DINA	TES	4			1			
O AA CENTER O No		4		O E3	O W3 O Nearest practice of the Control of the Contr	Lon	gitud	le W		8.1. 4.1.7.3	4.			
Flag Comments														
1 SI falls	on	1	Le	edo	ge of Hauthorn	P	kwi	1.						
2 harge tree	is	d	OW	از ۸	ust outside of	_5	<u>3</u> .							
	_							***						
					The state of the s							*		
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			<u> </u>											
			1001					d) is						
Buffer Sample Po	ints -	Targ	eted	Alien S	pecies 05/27/2011					7966	5623	548		

			FORM B-1: BUFFER SAMPLE PLOTS (Front) Reviewed by (initial):																				
Site ID:	PG	A	P	SC	U	35	2								DATE	0.7	12.	4	12	0	1	3	
Location:									FIII	in b	ubb	ie(s)	lf p	ot(s) cou	ld not be	samp	led	and	flag ·			
O AA Cente	er (0	N	0	S	OE	Ø	W		lot			Plot			lot 3				85,			1
Fill in bubbles for a Strata Section: Fill	li that aj in appro	pply opri	y: Car ate c	nopy 1 over c	Гуре: I lass b	D = D oubble	eciduous for eact	s: E = Everare	Buffer en. Leaf T or each plo	voe: E	3 = Br	oadleat	: N = 1	leedle	Leaf. A	bsent: No tree derate(10-40	e canopy. %); 3 = Не	eavy (40-75%); 4 = \	/ery H	eavy (>75%)
Buffer Can	ру Ту	pe	: 🙋	() At	sen	t: ()	Buffer	Canop	у Тур	e; () () At	sent	: O	Buffer	Canop	у Ту	ре: () () Ab	sent	, (
Plot 1 L	eaf Ty	pe	: 🐠) (Flag	Plot 2	Lea	f Typ	e: 🌘	O			Flag	Plot 3	Lea	af Ty	ре: (\odot	닟		Flag
Big Trees (>0.3m D	зн) 🗿		\odot	0		0		Big Trees (>0.3m DBH)		0	0	0	0		Big Trees	(>0.3m DB	н) [(0	0	
Small Trees (<0.3m D	вн) 🚷) (0	0	0	0		Small Trees (<0.3m DBH)	0	0		0	0		Small Trees	(<0.3m DB	H) 🕼		0	0	0	
Woody Shrubs, Saplir (0.5m-5m HIG) (0	0		0		Woody Shrub (0.5m	s, Saplings 1-5m HIGH)	0	0	(B)	0	0		Woody Shru (0.5	ıbs, Sapling im-5m HIGI			0	0	0	
Woody Shrubs, Saplin (<0.5m HIG) (0	0	0		Woody Shrub	s, Saplings).5m HIGH)	0	(0	0	0		Woody Shru	ibs, Sapling <0.5m HIGH			(2)	0	0	
Herbs, Forbs a Grass	nd 6) (0	0	0	0		Herbs, Forbs and Grasses O			0	®	<u>o</u>		Herbs,	, Forbs an Grasse			0	0	(
Bare grour		_	Ò	0	0	0		Bare	ground	0	0	0	0	0		Bar	re ground			0	0	0	
Litter, du	-	-	Ŏ	<u>0</u>	(1)	<u></u>		Litter, duff 💿 🔕				(2)	ŏ	Ō	-	Litter, duff 🕦 🕦					0	0	-
Rock 🚳 🔾 🔾 🔾								Rock					ŏ	$\tilde{\odot}$		Rock 0 0				0	0	Ŏ	
Water (1) (1) (2) (3) (4)											-	0	<u></u>	$\frac{\circ}{\circ}$			Wate			0	0	0	
Submerg	$\dot{\sim}$	0	$\frac{\circ}{\circ}$							$\stackrel{\sim}{\sim}$	$\overline{}$			Submerge	d 🌈		0	0	<u></u>				
Vegetat	\odot)	\simeq	- Ab - A	Vegetation W O O O						\leq	unfilled		Vegetatio	11 3					<u> </u>			
Stressor Presence/Absence - Confirm that a filled data bubble indicates presence and an unfilled bubble indicates absence by filling the Residential and Urban Stressors Hydrology Stressors Agricultural & Rural S																							
				Floor					T	1 2 3 Flag Fill bubble If present - Plot				1	2	3	Flag						
Fill bubble if pro	esent -	· P	JOI	1	2	3	Fiag	Fill bubble if present - Plot							riay	Pasture/Hay					0	0	· lug
Road - gravel		-		0	0	0		Divelor-location per			0	0	0		Range					0	0	***	
Road - two lane		_	_	0	0	0		(IMPEDE FLOW)					0	0		Row Crops			- 3	10		0	
Road - four lane				0	0	0		Water Level Control Structure Excavation, Dredging					00	0		Fallow Fiel		T-RES	TING	0	0	0	
Parking Lot/Pay	ement	_		0	0	0				ıy	-	10	0	0		ROW CROP FIELD) Fallow Field (OLD - GRASS,					0	0	
Golf Course	_	-	-	0	0	0		Fill/Spoil B		Sedin	nent	10	0	0		SHRUBS, TREES)					0	0	
Lawn/Park	41-1	-		0	0	0		(UNVEGETAT	0.000	OCUTO		18	0	0		Nursery		, U	1100	0	0	0	
Suburban Resid		_		0	0	0				USUIC		응	0	0		Orchard				0		0	_
Urban/Multifami	ly	-	_	0	0	0		Wall/Ripra		-		10	0	0			nimal E	andir		+ -	0		
Landfill	-			0	0	0		Point Sour	ce/Pipe			10	0	0		Confined Animal Feeding Rural Residential				0	0	00	
Dumping		-	-	0	0	0		(EFFLUENT (OR STORM	Inpu	(1)	Ѥ	0	0		Gravel Pit	- Contian		MIE	6	0	0	
Trash		_		0	0	0		(SHEETFLOV	V)			16	0	0		Irrigation				0	0	0	
Other:		7	-	0	0	0		Other:	- Marian		-	10	0	0		Other:				6	0	0	
Other:				0	0	0		Other:	10000			0	0	0						10	\square	\overline{o}	
Industrial	Deve	lo	pme	ent S	itres	sor	S									tion Stress		-		_			
Fili bubble if pr	esent ·	- P	iot	1	2	3	Fiag	Fill bubble	if prese	nt -	Plot	1	2	3	Flag	Fiii bubb	le if pre	sent	- Pio	1	2	3	Flag
Oil Drilling				0	0	0		Forest Clea	er Cut			0	0	0		Herbicide U	Jse			0	0	0	
Gas Wells OOOF							Forest Sele	ctive Cut	1		0	0	0		Mowing/Sh	rub Cutti	ng		0	0	0		
Mine (surface) O O O Tr							Tree Planta				0	0	0		Trails				0	0	0		
Mine (underground)							Tree Canor (INSECT)	y Herbiv	ory	1101=0	0	0	0		Soil Compa (ANIMAL OR H				0	0	0		
Shrul							Shrub Laye	er Browse	ed		0	0	0		Offroad veh		_		0	0	0		
OH OH High							Highly Graz		ses		0	0	0		Soil erosion	*	VIND,	WATER	0	0	0		
Other: Rec						Recently Bo		rest		0	0	0		OR OVERUSE) Other:			0	0	0				
Recent								Recently Burned Grassland						0	0								
	les: K =	= N	o me	_		mad	e, U = S	uspect meas	urement.	F1,F	2, etc.	= mis	c. flag	s ass	igned by	y each field c	rew.	1	24	816			
	Flag codes: K = No measurement made, U = Suspect measurement., F1,F2, etc. = misc. flags assigned by each field crew. Exolain all flags in comment section on the back of this form Buffer Sample Plots 05/27/2011																						

• FC	DRN	B-	1: 1	BUFF	ER SAMPLE PLOTS -	TA	RGE	TE	D AL	IEN SPECIES (Back)	oy (îniti:	al);	W	
Site ID:	P	CF	1P	SC	1352	DAT	re: _	<u></u>	2./_	2412013				
⊘ Confirm	a fiii	ed da	ata b	ubble i	ndicates presence and an uni	filled	bubb	ie in	dicates	absence by filling in this bub	ble	1 200		
Fill bubble if present - Plot		2	3	Flag	Fill bubble if present - Plot	T-	2	3	Flag		r -	2	3	Flag
Eurasian Watermilfoil	0	0	0		Purple Loosestrife	0	0	0		Johnson Grass	0	0	0	
Water hyacinth	0	0	0		Knotweed	0	0	0		Kudzu	0	0	0	
Yeilow Floating Heart	0	0	0		Japanese Knotweed	0	0	0		Multiflora Rose	0	0	0	-
Giant Salvinia	0	0	0		Perennial Pepperweed	0	0	0		Common Buckthorn	0	0	0	
Garlic Mustard	0	0	0		Giant Reed	0	0	0		Himalayan Blackberry	0	0	0	
Poison Hemlock	0	0	0		Cheatgrass	0	0	0		Tamarisk	0	0	0	
Mile-A-Minute Weed	0	0	0		Reed Canary Grass	0	0	0		Other:	0	0	0	
Birdsfoot Trefoil	0	0	0		Common Reed	0	0	0		Other:	0	0	0	
Canada Thistle	0	0	0		Leafy Spurge	0	0	0		Other:	0	0	0	
										Other:	0	0	0	
				William	PLOT COORE	INA	TEC				9	<u> </u>	9	1000
O AA CENTER O N3 Latitude N				O E3	1.75.8.	Lon	gitud	le W		and comment below)	2			
					Use Decimal Degr	ees;	NAD	83			1			
Flag Comments				40			1	0						
1 W3 fall	5	at	- 0	M	owed picnic	an	ea							
	_			<u> </u>										
									-					
			-							,				:
		-					•	_						
Buffer Sample Poi	nts -	Targe	eted .	Alien S	pecies 05/27/2011					7966	623	548		

FORM B-1: BUFFER SAMPLE PLOTS (Front) Reviewed by (initial): Site ID: PCAP SC 1352 DATE: 0.7 2.4 2.0.1.3																						
Site I	D: _0	CA	P	SC	ľ	35	2														3	
Location	on:	13					1	MANUAL STREET	FIII	in b	ubb	le(s	if p	iot(s	s) cou	ild not be	sample	d an	d flag	→		
⊕ AA €	Center	C	N	0	S	OE	E 0	W	1	lot '			Plot			lot 3						
Fill in bubble Strata Section	es for all th on: Fill in a	nat app approp	oly: Ca oriate d	nopy cover o	Type: :lass t	D = C oubble	eciduou for eacl	s: E = Everare	Buffer en. Leaf T or each plo	vpe: E	3 = Bn	oadlea	f: N = I	Needle	e Leaf. A	Absent: No tree oderate(10-409	e canopy. %); 3 = Heav	vy (40-7	5%); 4 =	Very H	ieavy [,]	(>75%)
Buffer Plot 1	Canop		$-\tilde{z}$	$\overline{}$	_	sen		Buffer Plot 2	Canop		\rightarrow	$\stackrel{\leftarrow}{\sim}$	\leftarrow	sent		Buffer Plot 3	Canopy		<u> </u>		osení	
Big Trees (>		f Typ	e: (·) (·	1		Flag			f Typ	$\overline{\sim}$		$\frac{1}{2}$		Flag		(>0.3m DBH)	Type:				Flag
		 	0	9	0	9		Big Trees (>		-	0	⊙	<u> </u>	0		Small Trees		-	0 0 0 0	0	\odot	
Small Trees (< Woody Shrubs		-	-		0	<u>⊙</u>		Small Trees (- Woody Shrub		-	0	_		<u>⊙</u>			ibs, Saplings	- +	- -	 	0	-
(0.5m- Woody Shrubs	5m HIGH)	0	0		_	=			-5m HIGH)	0	0	0	9		_	(0.5 Woody Shru	m-5m HIGH) bs. Saplings	-		0	-	
(<0.	5m HIGH)	9		0	\odot	\odot		(<0	.5m HIGH) orbs and		\odot	0	<u> </u>	$\overline{\odot}$		(<	(0.5m HIGH) Forbs and	_		10	0	
	Grasses	0	0	0	0	0		116103, 1	Grasses	0	0	0	<u> </u>	<u>0</u>			Grasses	<u> </u>	<u>) (0</u>	10	0	
Bare	ground	0	(0	0	\odot		Bare	ground	0	0	0	0	<u>O</u>		Bar	e ground		00	0	0	
Lit	ter, duff	0	0	0	0			Lit	iter, duff	0	0	0	0	<u>O</u>		L	itter, duff	\odot	$\mathbb{O}[\mathbb{O}]$	0	\odot	
	Rock		0	0	0	0			Rock	0	0	0	0	0			Rock	0	$\mathbb{O}[\mathbb{O}]$	0	0	
	Water		0	0	0	0			Water	0	0	0	0	<u>O</u>			Water	0	<u> </u>	0	0	
	ibmerged egetation		0	0	0	0			ubmerged egetation	0	0	2	0	<u>o</u>			Submerged Vegetation	0	<u> </u>	0	0	
		-	e/Ab	senc	e - (Confi	rm that			ndica	tes p	esen	e and	d an o	unfilled	bubble indic			filling t	nis bu	oble.	Ø
Resi	dential	and	Urba	an S	tress	sors			Hydrolo	gy S	tres	sors					Agricultu	ral &	Rural	Stres	sore	
Fiii bubble	if prese	ent - I	Piot	1	2	3	Flag	FIII bubble		_	_	1	2	3	Flag	Fiii bubble	t 1	2	3	Flag		
Road - gravei 0 0					0		Ditches, C	hanneliza	ation		0	0	0		Pasture/Ha	0	0	0				
Road - two	lane			0	0	0		Dike/Dam/		Bed		0	0	0		Range		mr _a	0	0	0	
Road - fou	ır lane	7		0	0	0			w) el Control Structure			0	0	0		Row Crops		- 10	0	0	0	
Parking Lo	ot/Paven	nent		0	0	0		Excavation	ng		0	0	0		Fallow Field		RESTING	0	0	0		
Golf Cours	se		200.530	0	0	0		Fill/Spoil B	anks			0	0	0		Fallow Field	0	0	0			
Lawn/Park				0	0	0		Freshly De		Sedin	nent	0	0	0		Nursery			0	0	0	
Suburban	Residen	itial		0	0	0		Soil Loss/F		osure		0	0	0		Dairy			0	0	0	,
Urban/Mul	tifamily			0	0	0		Wall/Ripra	p			0	0	0		Orchard					0	
Landfill		711-		0	0	0		Inlets, Out	lets			0	0	0		Confined A	Confined Animal Feeding					
Dumping	21 5510			0	0	0		Point Sour		WATER	8)	0	0	0		Rural Resid	dential	0	0	0		
Trash				0	0	0		Impervious (SHEETFLOW	surface	input	,	0	0	0		Gravel Pit			0	0	0	
Other:				0	0	0		Other:				0	0	0		Irrigation			0	0	0	
Other:				0	0	0		Other:				0	0	0		Other:				0	0	
Indu	strial D	evel	opm	ent S	Stres	son	3						labit	at/V	egetat	ion Stress	ors					
FIII bubbie	if pres	ent - I	Piot	1	2	3	Fiag	Fiii bubbie	if prese	nt - F	Plot	1	2	3	Fiag	Fill bubb	le if prese	nt - Pi	ot 1	2	3	Flag
Oil Drilling				0	0	0		Forest Clea	r Cut			0	0	0		Herbiclde U	se		0	0	0	
Gas Wells				0	0	0		Forest Sele	ctive Cut			0	0	0		Mowing/Shr	rub Cutting	1	0	0	0	
Mine (surf	ace)	ATT.		0	0	0		Tree Planta	tion			0	0	0		Trails	2011/2		0	0	0	
Mine (und	erground	1)		0	0	0		Tree Canop	y Herbivo	ory		0	0	0		Soil Compa	ction UMAN)		0	0	0	
Military OOO							Shrub Layer		d	, pri	(7)	0	0		Offroad veh		ge	0	0	0		
Other: O O O							Highly Graz (OVERALL <3°	ed Grass	ses		0	0	0		Soil erosion OR OVERUSE)	*	D, WATI	R O	0	0		
Other:			T	0	0	0		Recently Bu		est		0	0	0		Other:	_ 0	0	0			
Other: 0 0 0						Recently Bu	rned Gra	asslar	nd	0	0	0		Other:	0	0	0					
Flag codes: K = No measurement made, U = Sus							= Suspect measurement., F1,F2, etc. = misc. flags assigned by each field crew. all flags in comment section on the back of this form															
В	uffer Sar	nple i	Plots	05	/27/2		lain ali f	lags in comm	ent section	on on t	the ba	ick of	this fo	m			7.0		.2010	550.		

Site ID: LCAP SC 3552 Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble. Fill bubble if present - Plot 1 2 3 Flag Fill bubble if present. P	Straing Strain					ER SAMPLE PLOTS -	TA	RGE	TE	D AL	IEN SPECIES (Back) Reviewed b	y (Initia	al):		
Fill bubble if present - Plot 1 2 3 Flag Fill bubble if present - Plot 1 2 3 Flag Fill bubble if present - Plot 1 2 3 Flag Eurasian Watermiifoil O O O Pupple Loosestrife O O O O Johnson Grass O O O O Volver O O O O O O O O O O O O O O O O O O O	Site ID:	PC	AF	2 (SC.	1352	DAT	E:	0.	<u>7</u> ,	2412013				
Fill bubble if present - Plot 1 2 3 Flag Fill bubble if present - Plot 1 2 3 Flag Fill bubble if present - Plot 1 2 3 Flag Eurasian Watermiifoil O O O Pupple Loosestrife O O O O Johnson Grass O O O O Volver O O O O O O O O O O O O O O O O O O O	€ Confirm	a fili	ed da	ata b	ubbie i	ndicates presence and an uni	filled	bubb	le in	dicates	absence by filling in this bub	ble			
Eurasian Watermilfoil O O O Purple Loosestrife O O O O Johnson Grass O O O O Water hyacinth O O O O Knotweed O O O O Knotweed O O O O Knotweed O O O O O Multiflora Rose O O O O O O O O O O O O O O O O O O O		1		1	100	and the second s	_	T	1	1			2	3	Fiag
Water hyacinth O O O Notes Knotweed O O O Notes Knotweed O O O Notes Knotweed O O O O Notes Note	Eurasian Watermilfoil	0	0	0		Purple Loosestrife	0	0	0			-	0	0	
Yellow Floating Heart	Water hyacinth	0	0	0		Knotweed	0	0	0		Kudzu		100		
Glant Salvinia O O O Glant Reed O O O O Himselyan Blackberry O O O O O O O O O O O O O O O O O O O	Yeilow Floating Heart	0	0	0		Japanese Knotweed	0	0	0		Multiflora Rose	_	-		
Garlic Mustard O O O Himmalayan Blackberry O O O O Himmalayan Blackberry O O O O O O O O O O O O O O O O O O O	Giant Salvinia	0	0	0		Perennial Pepperweed	0	0	0		Common Buckthorn		-		
Poison Hemlock O O O Cheatgrass O O O Tamarisk O O O O Mile-A-Minute Weed O O O Reed Canary Grass O O O O O O O O O O O O O O O O O O	Garlic Mustard	0	0	0		Giant Reed	0	0	0		Himalayan Blackberry			-	
Mile-A-Minute Weed O O O Reed Canary Grass O O O O Other: O O O O Other: O O O O OTHER Birdsfoot Trefoil O O O O Common Reed O O O O Other: O O O O OTHER CANADA O O O O O OTHER CANADA O O O O OTHER CANADA O O O O OTHER CANADA O O O O O OTHER CANADA O O O O O O O O O O O O O O O O O O	Poison Hemlock	0	0	0		Cheatgrass	0	0	0		Tamarisk		-		
Birdsfoot Trefoil Canada Thistle O O O D Common Reed O O O O D Common Reed O O O O D D D D D D D D D D D D D D D	Mile-A-Minute Weed	0	0	0		Reed Canary Grass	0	0	0		Other:				
Canada Thistle O O O O O O O O O O O O O O O O O O O	Birdsfoot Trefoil	0	0	0		Common Reed	0	0	0		Other:		-	-	
Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble. If Buffer Plot 3 can not be accessed, take the coordinates at the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plots are centered on the Buffer Transects and the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" bubble, fill in the placed as close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot. Location of coordinates (choose one): AA CENTER O N3 O S3 O E3 O W3 O Nearest practicable location (flag and comment below) Latitude North Longitude West S1 917 140 Use Decimal Degrees; NAD83	Canada Thistle	0	0	0		Leafy Spurge	0	0	0		Other:	-		-	
Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of the piot coordinates by filling in the appropriate bubble. If Buffer Plot 3 can not be accessed, take the coordinates at the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plots are centered on the Buffer Transects and the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" bubble, fill in the last placed as close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot. Location of coordinates (choose one): AA CENTER O N3 O S3 O E3 O W3 O Nearest practicable location (flag and comment below) Latitude North Use Decimal Degrees; NAD83			.035								Other:				A 20 CH 12 CA
Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble. If Buffer Plot 3 can not be accessed, take the coordinates at the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plots are centered on the Buffer Transects and the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" bubble, fill in the flag box, and describe where the coordinates were taken and why in the comment section below. The coordinates of the nearest practicable location can be either placed as close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot. Location of coordinates (choose one): Plag AA CENTER O N3 O S3 O E3 O W3 O Nearest practicable location (flag and comment below) Latitude North Longitude West S1 . 41.7.4.0 Use Decimal Degrees; NAD83						PLOT COORE	DINA	TES						91	
	Latitude N	lorth	4	! [. 4	1737.	Long	gitud	e W			0.	_ 		
	Flag Comments						W.								
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					FOF	RM B-1:	BUFF	ER	SAI	MPL	E PI	LOT	S (Fi	ront)		Reviewed by	(initial)):	— (
Site ID:	CAP	SC	: 1:	35.	2								DATE	:07	124	412	0	1.	>	
Location:			127000				FIII	in b	ubb	le(s)	if p	lot(s		ld not be					Γ	
O AA Center	ON	0	S	Ø E	. 0	W	OF	lot	1	01	Plot	2	OP	lot 3						
Fili in bubbles for all that	t annhe Ca	nonu.	Timo:	0-0	ociduou	s: E = Every	Buffer							hsent: No tree	canony					
Strata Section: Fill In app	propriate o	cover	class t	bubble	for eacl	n strata type f	or each plo	t. 0 =	Abser	it; 1 = 3	Sparse	(<10%	6); 2=M	oderate(10-40	%); 3 = Hea	vy (40-75%); 4 = \	/ery H	eavy (>75%
Buffer Canopy	Type: 🕡	•) AI	bsen	: O	Buffer	Canop	у Тур	e: () () At	sent	: O	Buffer	Canopy	Type:) Ab	sent	: C
Plot 1 Leaf 1	Type: 🕼) (Flag	Plot 2	Lea	f Тур	e: ((Flag	Plot 3	Leaf	Туре: 🏈	• •	<u>)</u>		Flag
Big Trees (>0.3m DBH)	0 0	0	0	0	1	Big Trees (>0.3m DB H)	0	0	0		0	2	Big Trees	(>0.3m DBH)	00	0	•	0	
Small Trees (<0.3m DBH)	0	0	•	0		Small Trees	(<0.3m DBH)	0	0			0		Small Trees	(<0.3m DBH)	00		0	0	
Woody Shrubs, Saplings (0.5m-5m HIGH)	<u> </u>	0	1	0		Woody Shrul	s, Saplings n-5m HIGH)	0	0	0	•	0			ıbs, Saplings im-5m HIGH)		0	0	4	
	00		0	0		Woody Shrul		0	9	B	0	0			ibs, Saplings <0.5m HIGH)	00	0	0	0	
Herbs, Forbs and	00	0	0	Ō			Forbs and	0	Ō	0	0	Ō			Forbs and Grasses	0 4	0	0	0	
Giassos	O	0	ō	ŏ	_	Bar	Grasses e ground	Ō	0	0	Ŏ	ŏ	_	Bai	re ground	00	0	0	Ō	
	30	0	0	6			tter. duff	0	0	0	ŏ			1	itter, duff	00	0	Ō		
Rock		0	0	0			Rock		0	0	0	0			Rock		0	0	Ō	
		0	0	0	1		Water		0	0	0	$\frac{\circ}{\circ}$			Water		0	0	0	
Submerged 4						S	ubmerged				0	$\frac{0}{0}$			Submerged		0	0	0	
Vegetation		0	0	0	41. 4		/egetation		\odot	0	\leq	_		bubble indi	Vegetation	1-1-				0
Stressor Prese					m that						ce an	o an	unillea			1	-		-	
Residential a		1					Hydrolo			Т.			-		Agricult		1			Fia
Fill bubble if presen	t - Piot	1	2	3	Flag	Fili bubbi	e if prese	ent -	Plot	1	2	3	Flag	Fili bubbi	-	nt - Plot	1	2	3	ria
Road - gravel		0	0	0		Ditches, C	A CONTRACTOR OF THE PARTY OF TH	-		0	0	0		Pasture/Ha	Э		0	0	0	
Road - two lane		0	0	0		(IMPEDE FLO	OW)			0	0	0		Range			0	0	0	
Road - four lane		0	0	0		Water Lev			icture	-	0	0		Row Crops Fallow Fiel		DESTING	0	0		
Parking Lot/Paveme	ınt	0	0	0		Excavatio		ng		0	0	0		ROW CROP FIE	.D)		0	0	0	
Golf Course		0	0	0		Fill/Spoil &	The same of the same of	Sedin	nent	10	0	0		SHRUBS, TRI			10	0	0	
Lawn/Park		0	0	0		(UNVEGETA	TED)			0	0	0		Nursery			0	0		
Suburban Residentia	al	10	0	0		Soil Loss/		osure)	10	0	0		Dairy	-		0	0	의	
Urban/Multifamily		0	0	0		Wall/Ripra		- /.		10	0	0		Orchard	-115	dia a	0	0		
Landfill		0	0	0		Inlets, Ou Point Sou				0	0	0		Confined A		eaing	5	0	0	
Dumping		0	0	0		(EFFLUENT	OR STORM			0	0	0		Rural Resi	denuai		0	0	의	
Trash		0	0	0		(SHEETFLO	N)	при		0	0	0		Gravel Pit			0	0		
Other:		0	0	0		Other:				0	0	0		Irrigation	100 TH		0	0		
Other:		10	0	0		Other:				0	0	0		Other:	-		0	0	0	
Industrial De	velopm	ent S	Stres	sor	3	Habitat/Vegeta						egeta	ation Stressors						10	
Fiii bubble if preser	nt - Piot	1	2	3	Fiag	Fiii bubbi	if prese	nt -	Piot	1	2	3	Flag	Fiii bubt	le if pres	ent - Piot	1	2	3	Flag
Oil Drilling		0	0	0		Forest Clea	ar Cut			0	0	0		Herbicide (Jse		0	0	0	
Gas Wells		0	0	0		Forest Sele	ctive Cul	t		0	0	0		Mowing/Sh	rub Cuttin	g	0	0	0	
Mine (surface)		0	0	0		Tree Plant	ation			0	0	0		Trails		- 1	0	0	0	
Mine (underground)	7/.1	0	0	0		Tree Cano	py Herbiv	огу		0	0	0		Soil Compa			0	0	0	
Military	214.C	0	0	0		Shrub Laye		d		•	0	0		Offroad vel		age	0	0	0	
		0	0	0		(WILD OR DO Highly Gra	zed Grass	ses		0	0	0		Soil erosion	(FROM WII			0	0	
Other:		+		\vdash		Recently B		rest	135.00		-			OR OVERUSE Other:	1			0	0	
		+	t .	-		Canopy Recently B	urned Gr	assla	nd	_			-				1			
Other:						(BLACKENED											10	Γ_{Ω}	10	L
Other: Other: Flag codes: I Buffer Sam				Exp	e, U = S lain all (Canopy Recently B (BLACKENED	urned Gra	assla F1,F	2, etc.	O = mis	O c. flag this fo	O o s ass	igned b	Other:	rew.	242	0 0 816	0	0	

Site ID:	A	CA	P	SC	1352	DAT	re: J	5.	71.	Reviewed b	y (Initia	al):		
◎ Confirm	a filic	d da	ta bu	ibbie in						absence by filling in this bub	bie			
iil bubble if present - Plot	1000	2	3		Fili bubble if present - Plot	1	2	3		Fill bubble if present - Plot		1.	1.	
Eurasian Watermilfoil	0	0	0		Purple Loosestrife	0	0	0	, lug	Johnson Grass	1	2	3	Fiag
Vater hyacinth	0	0	0		Knotweed	0	0	0	-	Kudzu	0	0	0	
ellow Floating Heart	0	0	0		Japanese Knotweed	0	0	0		Multiflora Rose	0	0	0	_
Siant Salvinia	0	0	0		Perennial Pepperweed	0	0	0	-	Common Buckthorn	0	0	0	
arlic Mustard	0	0	0		Giant Reed	0	0	0		Himalayan Blackberry	0		0	
oison Hemlock	0	0	0		Cheatgrass	0	0	0	-	Tamarisk	0	0 0		
file-A-Minute Weed	0	0	0		Reed Canary Grass	0	0	0		Other:	0		0	
irdsfoot Trefoil	0	0	0		Common Reed	0	0	0		Other:	0	0 0	0	
anada Thistle	0	0	0	ı	Leafy Spurge	0	0	0		Other:	-			
	100							<u> </u>		Other:	00	0		
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FORM B-1: BUFFER SAMPLE PLOTS (Front) Reviewed by (initial): Site ID: PCAPSC 1361 1352 DATE: 0710 419 Fill in bubble(s) if plot(s) could not be sampled and flag Location: O Plot 3 O Plot 2 OS OE OW O AA Center ON **Buffer Natural Cover Strata** Fill in bubbles for all that apply: Canopy Type: D = Deciduous; E = Evergreen. Leaf Type: B = Broadleaf; N = Needle Leaf. Absent: No tree canopy.

Strata Section: Fill in appropriate cover class bubble for each strata type for each plot. 0 = Absent; 1 = Sparse(<10%); 2=Moderate(10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (>75%) **(1)** Absent: Canopy Type: Absent: Buffer Canopy Type: Canopy Type: 🍘 (\cdot) Absent: (**Buffer** Buffer Plot 3 Plot 2 \odot Leaf Type: Plot 1 Leaf Type: \odot Leaf Type: Flag Flag Flac \odot ↶ ၢ **②** ① \odot Big Trees (>0.3m DBH) Big Trees (>0.3m DBH) Big Trees (>0.3m DBH) \odot (<u>-</u>) \odot Œ Small Trees (<0.3m DBH) Small Trees (<0.3m DBH Small Trees (<0.3m DBH Woody Shrubs, Saplings Woody Shrubs, Saplings \odot Woody Shrubs, Saplings \odot ① \odot \odot (0.5m-5m HiGH) (0.5m-5m HIGH) (0.5m-5m HIGH) Woody Shrubs, Saplings (<0.5m HIGH) Woody Shrubs, Saplings (<0.5m HIGH) Woody Shrubs, Saplings (<0.5m HIGH) 0 0 ① 0 Œ \odot Œ 0 Herbs, Forbs and **(** Herbs, Forbs and Herbs, Forbs and \odot \odot 0 (\cdot) \odot **①** \odot Grasses Grasses Grasses $^{(2)}$ \odot \odot ◐ Œ \odot \odot Bare ground O Bare ground Bare ground \odot (2) 0 (2) (\cdot) Œ Litter, duff Litter, duff Litter, duff (2) \odot \odot Rock (2)① • Œ 2 ① Rock Rock \odot $^{(2)}$ (E) \odot \bigcirc \odot Water Water 0 2 Water Submerged Submerged Œ Submerged **(**2) Œ \odot Vegetation Vegetation Vegetation Stressor Presence/Absence - Confirm that a filled data bubble indicates presence and an unfilled bubble indicates absence by filling this bubble. **Agricultural & Rural Stressors Hydrology Stressors** Residential and Urban Stressors Fili bubble if present - Plot 3 Flag 1 2 3 Flag 2 Fiii bubble if present - Plot 2 FIII bubble if present - Plot 3 Flag 0 0 0 0 0 0 0 0 Pasture/Hay 0 Ditches, Channelization Road - grave Dike/Dam/Road/RR Bed 0 0 0 0 0 Range 0 0 0 0 Road - two lane (IMPEDE FLOW) 0 O 0 Water Level Control Structure O 0 0 **Row Crops** 0 0 0 Road - four lane Fallow Field (RECENT-RESTING 0 0 0 0 0 0 Excavation, Dredging 0 0 Parking Lot/Pavement O ROW CROP FIELD)
Fallow Field (OLD - GRASS, 0 0 0 0 0 0 Fill/Spoil Banks 0 0 **Golf Course** O SHRUBS, TREES Freshly Deposited Sediment O 0 0 0 0 0 0 0 0 Nursery Lawn/Park (UNVEGETATED) 0 O Soil Loss/Root Exposure Dairy 0 0 0 0 0 0 Suburban Residential 0 0 0 O 0 Orchard Wall/Riprap 0 **Urban/Multifamily** 0 0 0 0 O 0 0 0 **Confined Animal Feeding** 0 0 0 Inlets, Outlets Landfill O Point Source/Pipe Rural Residential O 0 0 0 O 0 0 0 0 (EFFLUENT OR STORMWATER)
Impervious surface input **Dumping** 0 0 O Gravel Pit O 0 0 0 0 Trash (SHEETFLOW) 0 O O 0 O Irrigation 0 O 0 Other: 0 Other: 0 0 Other: 0 0 0 Other: 0 0 0 Other: Habitat/Vegetation Stressors **Industrial Development Stressors** 1 2 3 Fiag Fiii bubble if present - Piot 1 2 3 Flag 2 Fili bubble if present - Plot 3 Fiii bubbie if present - Plot 0 0 O 0 0 0 0 0 O Herbicide Use Oil Drilling Forest Clear Cut 0 0 0 O 0 Gas Wells O 0 0 Forest Selective Cut O Mowing/Shrub Cutting 0 0 O O 0 O O 0 0 **Trails** Mine (surface) Tree Plantation Tree Canopy Herbivory Soil Compaction 0 O 0 0 O O Mine (underground) 0 0 0 (ANIMAL OR HUMAN) INSECT) Shrub Layer Browsed 0 0 0 0 0 Offroad vehicle damage O 0 0 Military WILD OR DOMESTIC) Soil erosion (FROM WIND, WATER Highly Grazed Grasses 0 0 0 O 0 0 0 O 0 Other: (OVERALL <3° HIGH) OR OVERUSE) Recently Burned Forest 0 Other: 0 0 0 0 0 0 Other: O О Сапору Recently Burned Grassland 0 0 0 0 Other: 0 0 0 0 O Other: (BLACKENED) Flag codes: K = No measurement made, U = Suspect measurement., F1,F2, etc. = misc. flags assigned by each field crew.

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

Buffer Sample Plots 05/27/2011

2428168304

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Water hyacinth	0	0	0		Knotweed	0	0	0		Kudzu	0	0	0	
Yellow Floating Heart	0	0	0		Japanese Knotweed	0	0	0		Multiflora Rose	0	0	0	
Giant Saivinia	0	0	0		Perennial Pepperweed	0	0	0		Common Buckthorn	0	0	0	_
Garlic Mustard	0	0	0		Giant Reed	0	0	0		Himalayan Blackberry	0	0	0	_
Poison Hemlock	0	0	0		Cheatgrass	0	0	0		Tamarisk		_		_
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