Project Label:	PCAP	Plot N	o: Quality Control Form © Clevel and Metroparks to: 1336 Date Sampled: 7-18-13 Lead: Lane,
Parking/Access out	side of Park Boundaries:	1 6	Comment required if stem answer is NO
. 00		YW	If yes, write details in Comments section below
Field journals comp		YN	
Site sketch made or		YN	
Check cover page	X-exis Bearing of plot recorded	(Y) N	
	GPS coords. Recorded	Y N	
	North direction recorded	(Y) N	
	Photographs taken?	(Y) N	• 6450 A1
	ement on all pages?	N (Y)	
Header data comple		YN	
A contract to	ded in all Intensive modules	YN	
Browse Level By S		Y N	
Woody stem quality		X N	
invasive plant qualit	ty control check	YN	
Ash trees mapped		YAN	NO ASH IN INTENSIVES
Cover by Strata? (co		YN	
	ed with matching plot #.	Y N	
ouchers tabeled on	datasheet with initials and number	N (K)	*
ouchers labeled on	collection bag	(Y) N	
ink flags removed	31.	Y (N)	INSTRUCTED TO LEAVE
Data sheet QA before	e leaving site?	N (X)	
Common equipment		Y) N	
ata sheets scanned?	Tree A. A.	7/4/13	Enter date to left Cond
inal data sheets scar	nned?	1100	Enter date to left
uffer Widths measu	ired?	(Y) N	BB 6-28-13
eb Soil Survey		Y N	AS 7-19-13
pusher Location	Refrigerator	N CR	110 1110
vouchers collected)	Press (#)	TO N	Enter number to left
TAM 129	Drier	YN	Extress removes to tent
المحرار المحرار	Identified	Y N	
20,128	Mounted	1	
5 1.5	Thrown away		
	13 allows away	YN	
Name of the second			
	tion: Is plot sampleable?		
Yes	Original CRTS point is sampleable		
D No	Original GRTS point lands in a non-s	ampleable area (fi	ll in category below)
	Point falls in a water (i.g. river, is		
1 3 = 7	Managed mowed area (i.e. golf o Paved area (i.e. parkinglot, road)	ourse, picnic area, righ	i-of-way)
	Unsafe to sample (i.e. steep slope)		
	D Other		
ditional Comment	-1-		
E.	\$ ²⁵		
	, it		x 4.
	4		

. . . .

THE STATE OF THE S

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	munity Assessment	Program - Backgrou	nd Data Shee	1			Chrylandikernante	1
Project Label:	PCAP	Project Name	Project Name: 01 5C 2013		Plot No.:	1336		of 2
MODIFIED NATURESERVE CLASS*			DISTURBANCES	NCES				Π
CODE (on separate form):	Fit= Conf=		type* seve	severity** yrs	yrs ago % of plot		description	
10-1			_				Sh	Γ
			Natural	}	3 ion 2	ひ	ood impact	
COMMUNITY NAME:	ALOS		Fire					
More El Li	4		Cut					
Mesic Floodplain Porsi			Animal	0	7,001	\sqcup	browse	П
			Other					T
HOMOGENEITY			**L=low, ML=	ned low, Mi	=med, MH=me	ed high, H≕h	**L=low, ML=med low, M=med, MH=med high, H=high, VH=very high	
a Homogeneous Compositional trend across	rend across the plot		Current Land Use:	Use: Pa	Park			
D Conspicuous inclusions D Irregular/pattern mosaic	mosaic		Former Land Use:	دے	holona			
	HYDROLOGIC REGIME*	GIME*						
	u Upland (seldom flooded)		Intermittently flooded					
SALINITY*	□ Intermittently/seasonally saturated		□ Semipermanently flooded	pol				
□ Saltwater	(seldom flooded)	□ Perm	 □ Permanently flooded 					
D Brackish	☐ Permanently/Semipermanent. saturated		□ Tidal/Seiche flooded daily	aily				
o Fresh	(dry <1/yr, seldom flooded)		☐ Tidal/Seiche flooded monthly	onthly				
Upland (n/a)	Occasionally flooded (<1/yr)		☐ Tidal/Seiche flooded irregular	regular				
ر ا	al Temporarily flooded	(e.g.	(e.g. wind, storms)					
(by default unless plot is a wetland)		n Unknown	own					
Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.) and prevalent in the Shvub langer.	s of plot to the stand, succes	ssional status, maturity, etc	C	-,	10			
Then is a considerable amount	e amount	ount of mud deposited by a recent flood event	possted	ng	recen	+	ood event,	
Wetland area is loca	ated just	northwest	of the	1010				

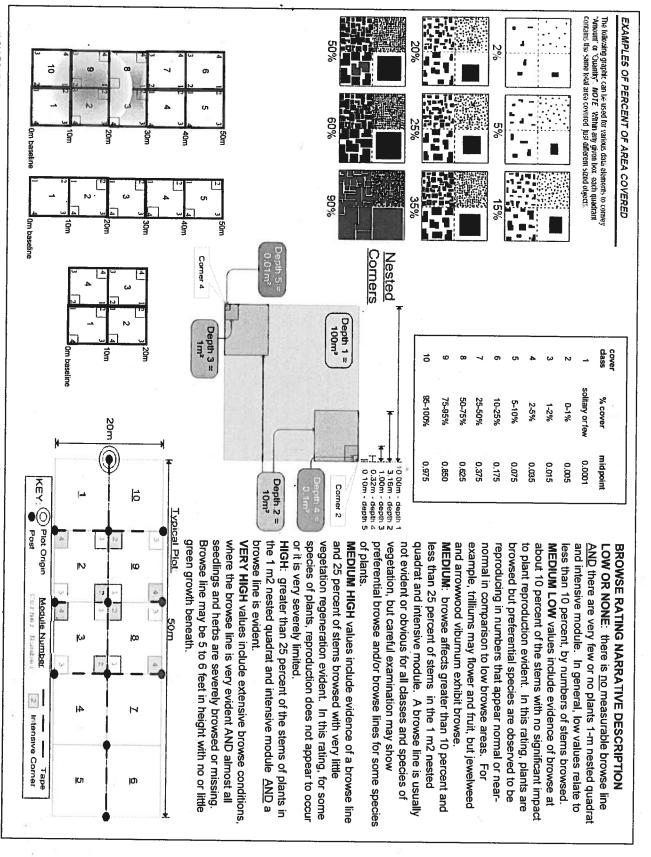
?a	Natural Resource Management FORM NR/2010-02a	FORM N	agement	urce Man	l Reso	Natura								2011 jjm	ed 6/9/	2aCM PCAP Species Cover Data sheet Page 1 of x_ver 1.5.xls last revised 6/9/2011 jjm	2aCM PCAP Species (N
					上	ىر			2)			_			<u> </u>			0
										-				(Thalictrum sp.		
											_			JAM 130	X	Bound letter of the Barrell of the B		
										ט		L		C3-1478		П		1
				6		_			-	رم	_	ļ				Acer sp. seedling		
						_				22		ļ				trisaema dracontium	23	
				-		_		98	93		-	ļ.,				Lysimachia numullana	2	1
						_						ļ		JAM 136 129	X	Carrentorius		
	100						-	ىع			_	 		SRE11-14-13		Sanicula Sp.		
									_	es	_				L	Hespecis matronalis		1
												82	-	C3-1477		action process	2:	
									S	رو		کو	_			Mas sp.	2.	
												_	-			•	23	
					<u> </u>				22	111	_					Ciragea lutetiana	<u>ا</u>	
								ಬ	02	6.3	_		_	9-27-13	4	Polyaphum virginianaum	6)	Т
								Ø	2	ع	-	رو		(3-1476	need median	Antonown allot & Hydreigh	N N	Т
		,	1								_	೪	_			Echinozystis lolata	3)	П
										1		6				Acer region do		(7)
			_						2	نه	دو					6	2)	
	4	ر د			5	به	上	S)		ربع	4					sina	1	
		x ع	ح		4 6	υ V	8	Ē		6	1 4					žo	7	-
		2000000	7 H	رو		צי		4	6	F	S	6	دو			1	200	
		4 8	3 4		6	4		L	6	-	7	7	h			ccideo	00	2
		4 P	L	_	0	エ		y	00	S	4	2	4			Reappolium ant podagrania	0	
		No. of Street, Square,	h				100000	4	7	0)	4	8	4			Matteuccia struthiopteris	&	Т
oth	cov depth	cov depth	dapth	epth cov	cov depth	depth	COV	n depth	th cov	cov depth	depth	COV .	depth	Voucher#	ဂ	Br Species	T S H (F)(A) Br	т.
		7)	-	+	9	_			57		4	N	_	%unveg. litter (bare litter)	%	ot	Strata - Cov. entire plot	S
		36	-	+	3	_ -			מפ		4	77/0		%unvegerared open water %unveg. ground (bare soil)	% "	erme bron		
		-	-	+	> C	4		T			\perp		1	%open water	2	describe amount of browse per species over	Cleveland	-1
	D AGO	cov depth	depth	epth cov	cov depth	depth	VGD	depth	Mh cov	cov depth	depth	7	depth	intensive module:	⊒.	Br = Browse Level. Use cover classes to	+	
R Comer	comer mod	comer mod	Som mod	mod corner	comer r	mod	S) comer	L mod	modī comer	corner m	₩	comer.	W _M	Estimate for each	ற		3	
						/site:	- entire	Visual est. %invesives eatife site:	39t- %H	Visuat	$\ \ $	/		visual est. %unveg.o.w. entire site.	St. %u		Visualest 10 Open water etime sing	7 (
		4).	riotalea (iia).	5			Ú	١	200	9	3						Visit Name of the contract of	<)
		ָּב <u>ּ</u>	א) בפוב			6	ń		Plot configuration:	onfici	할	- 19	2	Intensive modules:	E	10	Total modules:	-
r	k	-				727	N	no.	<u>p</u>		2013	0	2	Project name: C) < C		PCAP	Project Label:	
	2,	P	P		ĺ					Sheet)ata	ver [es Co	Program Speci	≡ent ent	CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet	CLEVELAND ME	

75 BES

0/1/20

0

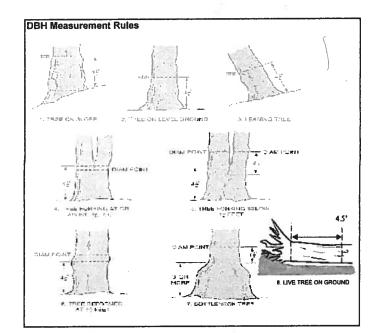
4120



Project Label:	Project Label: PCAP Project name:ش کر ہے، اعتراض المعادل المع	пепт	Project name:(3) X 2013	≥ % > %			91166		Plot no.:	ಕ.	بر	336				-	Fage	6.	Page 2 or	þ.	r	
Total modules:	10	ī,	Intensive modules:	4		Plot configuration:	onfig	urati	9.		ار ار	2			Plot	Plot area (ha):	(ha)			1		
•		ח וו	timate for each	N B	omer	mod c	comer	<u>S</u>	comer	mod	comer) mod	COMBIT I	7 8	Somer Comer	X3 gg	comer	N N	mod comer	1- 11	comer	
8	Br = Browse Level Use cover classes to	፷: [intensive module:	depth		-	the second second		8	9	8 8	depth	18	depth	8 8	_	- 1		ST COV	depth		
Cleveland	describe amount of browse per species over		%open water		1.	\downarrow	\bot	-	1.	1	\perp	1	1.		T	1-		+-	+			
		%	%unveg. ground (bare soil)				Ц		1						П			-	H			1
Sta - Cov		, s	%unveg. litter (bare litter)	_,	L	_	\downarrow	-	L	L	$oxed{}$	-	L		Γ	_		1	-		T	
T S H (F)(A) Br	Species Species	Ċ	Voucher#	depth	8	depth	8	depth	8	depth	8	depth	1	depth	8	depth	CQV	depth	9 00v	depth	69V	۱۲
122 8	Francis sp.			`	L.		_					ဃ	ىع			98						l
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					L.								L.				J					I
<u></u>														,						N	ည	~
<u>ي</u>	Fusatorum rugo sum						0.15=30											-		~		
2 10	Liaustrum v				L		pa Indias		_					,				-		ア	\vdash	
	<i>C. A</i>						_													R		
00	Lusimachia																18			R		
22	1	20																		7	S	~~
2	5 \$																			סל	2	
ಶ	Solidano Sp.																			P	Q).	
<u>බ</u>	Teucritum canadense				L				L				L.,							R	<u> </u>	~
	Pilea pumila				<u>_</u> .		_		L.			Ĺ	L.							X		
<u>စ</u>	Ó		JAM 188 131		_,_								L.						ecurer.	R	2	
	Pholon's arrangement				.	\perp							. <u> </u>					-				
					_ -				_ -								1				+	
		\perp				\downarrow						\perp						+		+	+	
					ļ																	
					<u> </u>				L													
					L.,		L					L.										l l
•					L.								L.					-				l l
					<u> </u>		201000					L			Г							
			,	-																		- 1

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

		CLEVELAND ME I KUPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Project Label: PCAP Project Name: (5 SC 20) 2 Plot No.	r Com	ommunity PCAP	Assessi	nent Projec	gram A	Vatural	nt Program Natural Woody Ste	Stem Da	Ita Shee	1221	•	J	_		(Slow	Sieweland Metaparks
		Explain subsample (additional room on back):	ı back):			1 3					FIGURE: 1000	100		rage:	+	ا 9	N	32
			\dashv		# stems	% sub	#	size class	size class (cm) woody stems >1.4m	dy stems :	>1.4m				╢		\parallel	
	mod #	# species	ი ŏ	voucher#	0-1.4m browsed	or super	shrub dumps	<u>7</u> -	2 1-<2.5	3 2.5-<5	5-<10	10 - <15	15 - <20	7 - <25	8 25 - <30	30 - <35	35 - <40	>40 (record each in
		Acsculus alabra										•		_		_		
		sace	3												\top		•	H. S. 65
	F	Whows americana											•					
6		Stroling dead										•		,				
~		Frayings So.			6 6							7						
-	2	- Frayinus so											•					
	7	Aesovius Glabra						•			• •							
4	7	Liquistry mulgar	0		•													
	W	Aesculus Glabia								60	000	`	0					
	W	Acer regulado	5.2										• •					
	1	Standing duad												٠				
	L	Aeswhos glaba	75		•					XII.	• •	• •						
	IU	Standing Good								8. %								
	G	Mesculus chabre	Total									• •	0					
	6	ifesculus alubra									8 0		•					
	6	Pktanus occidenta	blis.													ŧ	-	5.12
	6	Popular sdel toicles													×			h.8t
/	6	ACER Negundo										•	•					
1	10	Standing doad								•								
	1	Hesculus glaba							•	9 9	• •	•						
	14	Her Saccharinum														9	١	76.2
	+	Travious prisylvani	A CO		•													
-	a	Standing dead						•					9					
	00	Herovius slaba							•									



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 1















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.



Δ

В

С

D

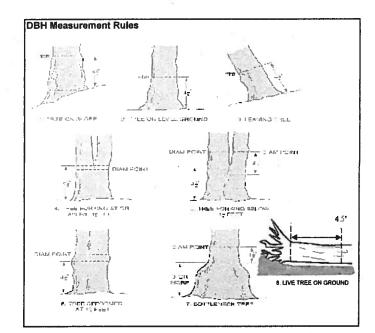
E

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: 150 SC 2013 Plot No.: 1	el: PCAP	- Assessme	Int Program Natural Woody St Project Name: 01 SC 7013	n Natural	Woody St 22013	em Data Pic	ta Sheet Plot No.: 336	36	Page: 2	of	Oleveland Metroparks
		# stems	% sub #	- 11	size class (cm) woody stems >1.4m	stems >1.4	3	$-\parallel$		\parallel	
mod # species	c voucher#	_	or super shrub		1-52.5	2.5-45	5-<10 10-	5 6 . <15 15 - <20	7 8	×30 30 ×35	10 11 11 35 20 240 (record each tr
Paten	7				-	-	- 6			_	3
8 Ulmus americano									,		
9 Aesculus sluba	*					9	-				
9 Boulous deltoide	les										42512
9 Standing dead									¢		
10 hours deltoides	des									(<u>-</u>	45.9
110 Asculus stubra							•				
								•	8		
10 Frusi Aux Sp.		0									
	8800										
						_					
			-			-	-				
						17 (17 (17 (17 (17 (17 (17 (17 (17 (17 (
			1000				-				
									1	+	1



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

Е

ASH CANOPY BREAKUP CONDITION (for dead trees):

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

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

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey Cleveland Metroparks Tier 1: Early detection/ Rapid response **GPS Presence** NE SE SW NW Presence Microstegium vimineum X: yes Japanese stiltgrass Ranunculus ficaria Lesser Celandine Cvnanchum louiseae (vine) Black Swallow-wort Butomus umbellatus (wetland) Flowering Rush Heracleum mantegazzianum Giant Hogweed Tier 2: Assess as Needed # of Piants comments SE SW NW # of Plants NE 1: 1-10 Acer platanoides Norway Maple Ailanthus altissima Tree of Heaven 2: 11-50. Lonicera japonica (vine) Japanese Honeysuckle 3: 51-100 Lythrum salicaria 4: 101-1.000 (wetland) Purple Loosestrife 3 46 Aegopodium podagraria (G-cover) | Bishop's Goutweed ц 5: >1,000 Celastrus orbiculatus Asian Bittersweet (vine) Torilis sp. Hedgeparsley Conium maculatum Poison Hemlock Rhamnus cathartica Common Buckthorn (shrub) Berberis thunbergii Japanese Barberry (shrub) Alnus glutinosa European Alder **Cut-leaf Teasel** Dipsacus laciniatus Elaeagnus umbellata Autumn Olive (shrub) Lonicera maackii Amur Honeysuckle (shrub) Euonymus fortunei Wintercreeper **Tier 3: Presence is of Interest** # of Plants comments SW NW NE SE # of Plants Convallaria 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 4: 101-1,000 Pachysandra terminalis (G-cover) Japanese Pachysandra Philadelphus coronarius **Mock Orange** (shrub) 5: >1.000 (G-cover) Lungwort Pulmonaria officinalis Rubus phoenicolasius Wineberry 2 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 SE sw NW # of Plants NE Alliaria petiolata 1-10 Garlic Mustard Ligustrum vulgare **Common Privet** (shrub) 11-50. L. morrowii, L. tatarica **Bush Honeysuckles** 3: 51-100 (shrub) 4: 101-1,000 Phalaris arundinacea Reed Canarygrass 5: >1,000 Phragmites australis (wetland) Phragmites Polygonum cuspidatum Japanese Knotweed 2 Frangula alnus Glossy Buckthorn (shrub) Rosa multiflora Multiflora Rose (shrub) 3 Typha angustifolia, T. x.glauca (wetland) Cattails Canada thistle Cirsium arvense Dipsacus fullonum Common Teasel

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

(G-cover)

Dame's Rocket

Periwinkle

Hesperis matronalis

Vinca minor

2

* If Ash Condition scores 5 (dead) provide breakup score (A-E)
Count EAB exit holes 1.25m2 x 21.5m
Woodpecker and epicormic marked present (1) or absent (0)

Project Label: PCAP

Page: 1 of 2

25	24	23	22	21	20	19	18	17	16	15	14	13	12	=	_	9	8					L		Ĺ	Moduje ID.	
Ċ	4	ω	2	-	0	9	8	7	6	5	4	ω	2	-	6	6	6	7	6	5	•	ω	2 N	-	.⊃ &	
																							No Ash		Species	
																									Dead n	
																									c Voucher#	
																	A								DBH (cm)	
																									DHG ₩	L
		L																							Ash condition	
i																									Ash *Dead condition	
																									#Exit Epic	ASH
																									Epicormic present	Only
																									Woodpecker hales	
											Ва	seiine	•													
				Map all ash trees ≥10cm in each module using Tree ID numbe					2					۳]			*** Change intensive module numbers when necessary		(z				
			,	iodule using Tree ID numb				۵]					Co]			mbers when necessary			,		,			

CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover and Earth Surface Project Label: PCAP Project Name-61AC2-550/5C20/5	ment Program - Plant Cover and Earth Surface
STANDING BIOMASS (required for emergent wetlands) collected in 0. Im clip plots (32x32 cm) from comers 1 and 3 in each intensive module. Required for VIBL-E score calculation. C7=check when	
collected	CLASSIFICATION
Module # C? Comer Comer	(FII = excellent, g Fit and Confidence
	Hydrogeomorphic class (WETLANDS ONLY):
	DEPRESSION
	o IMPOUNDMENT o Beaver o Human

Plot No.: 1336

@ Gleveland Websparks Page: 1 of 1

FILLED OUT USING GIS PROGRAM - DO NOT FILL OUT IN FIELD] McNAB INDICES (degrees) + for up - for down

CLASSIFICATION		
(FII = excellent, g Fit and Confidence		
Hydrogeomorphic class (WETLANDS ONLY):		
DEFRESSION	7	Conf-
□ IMPOUNDMENT □ Beaver □ Human]	Conf≃
n RIVERINE o Headwater o Mainstem o Channel	=======================================	Conf-
SLOPE (ground water hydrology or on a physical slop)	Fit	Conf
n FRINGING n Reservoir n Natural Lake	Fit	Conf
a COASTAL (specify subclass)	Fi	Conf
D BOG (strongly, moderately, weekly ombrotrophic)	Fit=	Conf
Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):	T.	
□ FOREST □ swamp forest □ bog forest □ forest seep · □ EMERGENT □ marsh □ wet meadow □ open bog	# # 	Conf=
	Fit=	Conf

+135 degrees

SE

+45 degrees +90 degree

H

piot to the horizon. TSI is angles formed by local slopes. For TSI measure

LFI is angle of

At aspect

+225 degrees +270 degrees

eye of person standing ~10 m

angle from

+315 degrees

Z

¥ WS +180 degrees

when			
	CLASSIFICATION		
Comer	(FII = executent, g Fit and Confidence		
	Hydrogeomorphic class (WETLANDS ONLY):		,
	DEFRESSION	Fig	Conf
	n IMPOUNDMENT in Beaver in Human	F	Conf=
	n RIVERINE n Headwater n Mainstern n Channel	1	Conf
	□ SLOPE (ground water hydrology or on a physical slop)	1	Conf
	o FRINGING o Reservoir o Natural Lake	Fit	Conf
	a COASTAL (specify subclass)	- Fi	Conf
	BOG (strongly, moderately, weekly ombrotrophic)	Fit=	Conf=
	Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):	:CX	
	□ FOREST □ swamp forest □ bog forest □ forest seep +] 	Conf=
	n EMERGENT n marsh n wel meadow n open bog	Fi	Conf=
	□ SHRUB □ shrub swamp □ tall sh. bog □ tall sh. fen	Fit=	Conf≃

27 15	27 16	mucrohab 14 3 20	Module	CROWN COYER (DENSIOMETER): Make 4 readings per module facing N. S. E. W. Place dot count in corresonding space. (4 dots per grid square)
- 7	71 71	20 15	z.	ER (DENSIOMETER): N dule facing N, S, E, W. Place. (4 dots per grid square)
1/1	17-5	14	E	Make 4 ace dot count i 'e)
1	;	27	₹	_ #

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

depth 3 m1x1

3.16x3.16m depth 2

00

10

GP

12 VI

(count) 10x10m depth 1

(count) 10x10m depth 1

Q (com)

10x10m depth (

10x10m depth 1

10x10m depth 1

10x10m

uplands (Tip-Ups)

tussocks no. of

hummocks no. of

depressions no macro.

(2-12 cm)

(12-40cm)

>4() cm

interspers. microhab.

c.w.d

c.w.d

c,w d

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

feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality feature is present in the wetland in very small amounts or if more common, of low quality MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

ilope 1 = sight elevational grade across module (hill)

feature is absent or functionally absent from the wettand

tanks for microhabitat features. Select one or select two and everage the score, NOTE: If mod falls on a slope automatically gets ranked based on steepness (1-3) to begin + any factures present

Slope 2 = fails on slope ~20°

Slope 3 = maximum sleepness that can be safely sampled ~45°

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

NOTE: fussock and hummocks are counted in BOTH nested quadrat comers but counts are appreciated. SaCM PCAP Plant Cover_Earth Surface Data sheet Page 1_ver 3.xis last revised 5/29/2012 cah.

8

Natural Resources Mangement FORM NR/2010-05a

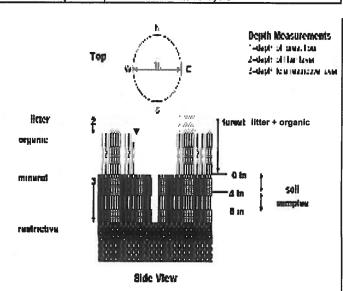
COVER BY STRATA

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

"Very tall shrubs are sometimes included in the tree stratum

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

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



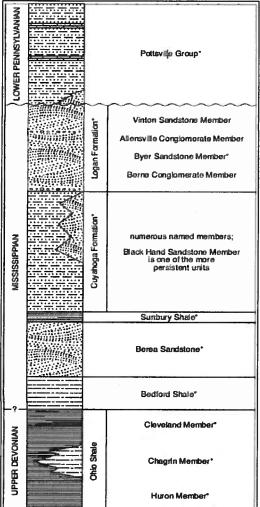


FIGURE 3-20.—Generalized section of Upper Devonian, Mississippian, and Lower Pennsylvanian formations in northeastern Ohio Asteriaks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to exale, but the thicknesses indicated are proportional. The term "Waverty is used in the older literature to refer to Mississippian rocks in Ohio. Some geologists use the European term "Carboniferous," which encompasses the Mississippian 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 is a spectacular massive sandstone that is fairly undespread but discontinuous. See Hyde (1953), Hoover (1960), and Collins (1979) for more information on Mississippian rocks in Ohio. See figure 3-18 for explanation of rock types.

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

Project label: PCAP Project Name 250 5

Poleveland Metroparks

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 # 2 (one per entire plot) 20 cm 5 cm matrix color hydro. cond.*** matrix color redox features** hydr. cond.*** texture* exture* oxid roots redox features** oxid roots %mottle mottle ottle colorttle color 0 2.544/2 I S 🐼 D I S M D ~ < 2) z 2 z

refer to texture classes on reverse side

Circle one: ** e.g. hydrogen sulfide odor, gleying. etc.

Notes: include evidence of earthworms (worms astings, middens) indundated S=saturated M=moist D=dry

Worms present extensive worm いないないの cosing present

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

Soil Collection Mc	Soil Collection Moduld Horizon (A. B. C)	
2,3,8,9 composited	>	
Web Soll Survey Info	aformation:	
Soil Series/Type: TQ	Tiaga	oam
Soil Series Source: Ohio Soil Survey	io Soil Survey	
Landform type:	Flood plains	
Depth to rest. Layer: more	more than 80	200
Parent Material:	Allurium	
DKAINAGE*		2 0
Excessively dr	Somewhat excessively	₹

□ Impermeable surface Excessively dr. Somewhat poorly dr. Well drained Moderately well dr. Very poorly dr.

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

_	_		_	
8	4	4	3	mod#
Ö	0.1	Ø. l	Ø. 2	1 litter+ organic depth (cm)
Ø	D.2	ъ.	0.2	2 litter depth (cm)
Ø	ø	Ø	Ø	water depth (cm)
>30	>30	86	730	depth sat soil (cm)

Underlying Earth Surface*	Surface*	Ground Cover
(Sum = 100%)	percent	(Link = 100%)
Histosol	1,0	Coarse Woody Debris***
Mineral Soil	1,00	Fine Woody Debris****
Gravel-Cobble*	27.0	Litter
Bouider**	1,0	Duff (Ferm. + Humus)
Bedrock	700	Bryophyte- Lichen
* Gravel-Cubble = 1/16-10*	1/16-10*	Water
**Boulder = > 10 in	5	Bare Soil
••• >5 cm in diameter	cter	Road/Trail
**** <5 cm in diameter	meter	Other

COVER BY STRATA estimate using midpoi	COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13	%,ex:3, 8, 13
Strata	Height Range (m)	Total Cover (%)
Tree	~ 5m	79%
Shrub	1.5 _ 5 %	i4 3%
Herb	51.5m	98%
(Floating)*	N/A	6
(Aquatic)*	NA	0
* 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.

□ Deer	□ Gravel	Bootleg unsanctioned	Bridle Hiking sanctioned

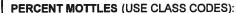
All Purpose Type

%Cover

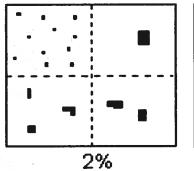
RAIL INFORMATION: cord type and cover for each

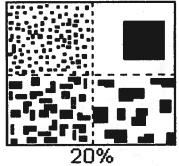
No trails

a < plot size	u 1-3 x plot size	□ 3-10 x plot size	10-100 x plot size	□ > 100 x plot size	□ >600 x plot size	STAND SIZE	
---------------	-------------------	--------------------	--------------------	---------------------	--------------------	------------	--



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





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

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

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

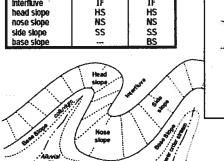
Code

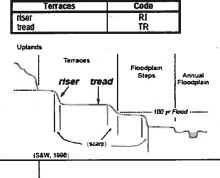
PDP

NASIS

(PJS, 1996; adapted from Ruhe, 1975

e.g., (for Hills) nose slope or NS.





Hilistope - Profile Position (Hillstope 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	rosition	0000	
	summit	SU	
	shoulder backslope	SH BS	
	footslope	FS	
	toeslope	TS	
	_ Sh		Sh Su
	Su 1		4 4
-	Bs		Bs
		Fs Ts Ts	Fs /
		Ts Ts	
	(PJD, 1996; ecopled from Rune, 1		

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

UPLAND: Not a wetland. Very rarely flooded.

higher order street

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.

				700	170.00										61							
•		0-	Λ ~					RM B-1:	BUFF	ER	SAI	MPL	ΕP	LO.				Reviewed				
Site	ID:	PCI	46	S	$C_{\underline{}}$	13	34	0							DATI	<u>5.7</u>	1 _ 1 8	3/2	20	1	3	
Locati				400												uld not be	sample	ed and	flag	\rightarrow		
Ø AA	Center	С	N	0	S	01	E 0	W		lot			Plot			Plot 3						
Fill in bubble Strata Section	es for all th on: Fill in a	nat app approp	oly: Ca oriate c	nopy	Type: class i	D = C	eciduou for eac	s; E = Evergr h strata type f	Buffer een. Leaf T or each plo	'vpe: E	3 = Bro	oadlea	f. N =	Need	le Leaf.	Absent: No tred loderate(10-40	e canopy. %); 3 = Hea	vy (40-75	5%); 4 =	Very H	leavy	(>75%)
Buffer	Canop	у Тур	e: 🥝	() AI	bsen	t: O	Buffer	Canop	у Тур	e: 🕞) () AI	bsen	t: O	Buffer	Canopy	Type:	0 0) AI	bsent	: O
Plot 1	Lea	f Typ	e: 傻	<u>(</u>			Flag	Plot 2	Lea	f Typ	e: () (Flag	Plot 3	Leaf	Туре:	0 0			Flag
Big Trees (>	0.3m DBH)	0	0		(0		Big Trees (>0.3m DBH)	0	0	0	0	0		Big Trees	(>0.3m DBH)	0	0 (0	0	0	
mall Trees ((0.3m DBH)	0	0	(0	0		Small Trees	(<0.3m DBH)	0	0	0	0	<u>O</u>		Small Trees	(<0.3m DBH)	00	<u> </u>	0	0	
	-5m HIGH)	-	0		0	0			n-5m HIGH)	0	0	3	0	<u>O</u>		(0.5	ıbs, Saplings im-5m HIGH)	0) (O	0	0	
	.5m HIGH)		0	<u> </u>	0	0		Woody Shrut (<	os, Saplings 0.5m HIGH)	0	0	0	0	<u> </u>			:0.5m HIGH)	0	0 0	0	0	
Herbs, F	orbs and Grasses	0	0	0	0	@		Herbs,	Forbs and Grasses	0	0	0	0	0	30 miles 47	Herbs,	Forbs and, Grasses	0	0 0	0	0	
Bare	ground	0		0	0	0		Bar	e ground	0	0	0	0	0		Bar	e ground	0	0 (0	0	0	
Lit	ter, duff	@	0	0	0	0		L	itter, duff	0	0	0	0	0		L	itter, duff	0	0	0	0	
	Rock	(1)	0	0	0	0			Rock	0	0	0	0	0			Rock	00	00	0	0	
	Water	9	0	0	0	0			Water	0	0	0	0	0			Water	0	0	0	0	
	ibmerged egetation	(B)	0	0	0	0			ubmerged /egetation	0	0	0	0	0			Submerged Vegetation	00	00	0	0	
Stress	or Pres	sence	e/Ab	senc	e - (Confi	rm that	a filled data	bubble is	ndica	tes pr	esen	ce an	d an	unfilled	bubble indic		nce by	filling th	nis bu	oble.	•
Resi	dential	and	Urba	ın S	tress	sors	-8		Hydrolo	gy S	tres	sors		63			Agricult	ıral & l	Rural	Stres	sors	
Fill bubble	if prese	ent - F	Piot	1	2	3	Flag	Fill bubbl	e if prese	ent - I	Piot	1	2	3	Flag	Fill bubble	if preser	ıt - Plot	1	2	3	Flag
Road - gra	avel			0	0	0		Ditches, C	hanneliza	ation		0	0	0		Pasture/Ha	ıy	The L	0	0	0	
Road - twe	ane		10.00	0	0	0		Dike/Dam		Bed		0	0	0		Range	115		0	0	0	
Road - fou	ır lane			0	0	0		Water Lev		l Stru	cture	0	0	0		Row Crops	SSEVER!		0	0	0	
Parking Lo	ot/Pavem	ent		0	0	0		Excavation	n, Dredgir	ng		0	0	0		Fallow Field	d (RECENT-	RESTING	0	0	0	
Golf Cours	se			0	0	0		Filt/Spoil E	Banks			0	0	0		Fallow Field SHRUBS, TRE	d (OLD - GR	ASS.	0	0	0	
Lawn/Parl			164.1	0	0	0		Freshly De (UNVEGETA)		Sedim	ent	0	0	0		Nursery	1.1/2.1		0	0	0	
Suburban	Residen	tial		0	0	0		Soil Loss/	Root Expo	osure		0	0	0		Dairy		We triban	0	0	0	
Urban/Mul	tifamily			0	0			Wall/Ripra	p	×.		0	0	0		Orchard			0	0	0	
Landfill				0	0	0		Inlets, Out				0	0	0		Confined A	nimal Fee	ding	0	0	0	
Dumping		100		0	0	0		Point Sour	OR STORMY	VATER	()	0	0	0		Rural Resid	dential		0	0	0	
Trash				0	0	0		Impervious (SHEETFLOW		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:			10	0	0	
Indu	strial De	evelo	opme	ent S	itres	sor	3	REAL PROPERTY.				ŀ	labit	at/V	egeta	tion Stress	ors					
Fiii bubble	if prese	ent - F	Plot	1	2	3	Flag	Fiii bubble	if preser	nt - F	Plot	1	2	3	Flag	Fill bubb	le if prese	nt - Plo	t 1	2	3	Flag
Oil Drilling				0	0	0		Forest Clea	r Cut			0	0	0		Herblcide U	se	graying.	0	0	0	
Gas Wells				0	0	0		Forest Sele	ctive Cut			0	0	0		Mowing/Shr	ub Cutting		0	0	0	
Mine (surf	ace)			0	0	0		Tree Planta	ition			0	0	0		Trails			0	0	0	
Mine (und	erground)		0	0	0		Tree Canop	y Herbivo	ory		0	0	0		Soil Compa	ction		0	0	0	\neg
Military	KRET			0	0	0		Shrub Laye	r Browsed	d		0	0	0		Offroad vehi	-	ge	0	0	Ō	
Other:			J.W	0	0	0		Highly Graz	ed Grass	es		0	0	0		Soil erosion	(FROM WIN			0	0	
Other:				0	0	Ö		(OVERALL <3* Recently Bu		est		0	0	0		OR OVERUSE) Other:			0	0	0	
Other:	-			0	0	0		Canopy Recently Bu		sslar	ıd	0	0	0		Other:			0		0	-
	ag codes:	K=N	lo me			-		(BLACKENED)	Perforance in comment	F1.F2	, etc.			$\overline{}$		y each field cr	ew.	LIII_		<u> </u>	_	100
	uffer San					Exp		lags in comm							J			24	2816	304		

• FO	RM	B-	1: E	BUFF	ER SAMPLE PLOTS -	TAF	RGE	TEI) ALI	EN SPECIES (Back) Reviewed by	/ (Initia	l):		
Site ID:	P	CA	ρ	50	2 1334	DAT	E:	<u>)</u>	71_	1.81.2013				
Confirm	a fille	ed da	ta b	ubble i	ndicates presence and an unf	illed I	oubbi	e inc	dicates	absence by filling in this bubl	ble			
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag
Eurasian Watermilfoil	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	
Glant 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	o	
Birdsfoot Trefoil O O Common Reed O O O ther: O O														
Canada Thistle	0	0	0		Leafy Spurge	0	0	0		Other:	0	0	ol	
				ST.			-		7	Other:	0	0	o	
			Will 9		PLOT COORI	DINA	TES	U.V.					_	VIII
● AA CENTER O N Latitude N	3	O S	3	O E3	O W3 O Nearest pra	Lon	gitud	le W		and comment below)	3.			
													71.11	
Flag Comments														
VO. 200														
										-				
													100	, parage
													_	
	STAR					and the			-W					
										7960	6623	548	1	

05/27/2011

Buffer Sample Points - Targeted Alien Species

				MIDNE CO.C.				RM B-1:	BUFF	ER	SAI	MPL	E P	LO.	TS (F	ront)	o l All	Reviev	ved by	(initial):		•
	ID: J	CF	tp_	_ {	C		331	0	_							E 0.7						3	
Locati								V TELL VALVE	Fill	in b	ubb	e(s) if p	lot(s) co	uld not be	sample	ed a	nd f	lag ·	→		<i>,</i>
OAAC	Center	•	N	0	S	0	E C	W		Plot		_ 0.1	Plot		A STATE	Plot 3							
Fill in bubble Strata Section	es for all ti on: Fill in	hat appaprop	ply: Ca priate	anopy cover	Type:	D = (bubbl	Deciduo: e for eac	us: E = Everan	Buffer een. Leaf or each plo	Type: 6	3 = Br	oadlea	f: N =	Need	le Leaf.	Absent: No tree loderate(10-40	e canopy. %); 3 = Hea	ivy (40	-75%)	; 4 = \	/ery H	leavy ·	(>75%)
Buffer	Canop	у Тур	e: (§	9 () A	bsen	t: O	Buffer	Canop	у Тур	e: (=	(() A	bsen	t: O	Buffer	Canopy	Тур	e: (D	(-)) At	bsent	: ()
Plot 1	Lea	f Typ	e: 🥑	9 (Flag	Plot 2	Lea	of Typ	e: (0	5		Flag	Plot 3		Туре	_	$\widetilde{\odot}$	\uparrow		Flag
Big Trees (>	0.3m DBH	0	0	0	1	0		Big Trees (>0.3m DBH)	0	0	0	0	0	Π	Big Trees	(>0.3m DBH)	0	0	0	0	0	
Small Trees (<	0.3m DBH	(1)	(0	0	0		Small Trees (<0.3m DBH		0	0	0	0		Small Trees	(<0.3m DBH)	0	0	0	0	0	
Woody Shrubs (0.5m-	s, Saplings -5m HIGH)		0	()	0	0		Woody Shrub	s, Saplings 1-5m HIGH)		0	0	0	Ō			ıbs, Saplings im-5m HIGH)		0	0	0	0	
Woody Shrubs		_	0	0	0	0		Woody Shrub			Ō	0	0	Ŏ	1	Woody Shru		Ō	0	0	Õ	Ō	
	orbs and Grasses	0	0	(2)	0	(4)			Forbs and Grasses	0	0	0	0	Ŏ			Forbs and	0	Ö	0	0	Ö	
Bare	ground	0	(a)	0	0	0		Bare	ground		0	0	Ō	ŏ		Bar	Grasses e ground	Ō	Ō	$\overline{0}$	Ō	Ŏ	
Lit	ter, duff	0	0	0	0	Ō	İ	Li	tter, duff	0	0	0	Ö	ŏ			itter, duff	Ö	Ö	0	Ō	$\overline{0}$	
	Rock	<u></u>	0	0	0	0			Rock	0		0	0	$\frac{\circ}{\circ}$			Rock	0	0	ō	0	0	
	Water	0	ŏ	0	0	ō			Water	0	0	0	0	$\frac{\circ}{\circ}$			Water	0	0	0	0	0	
	bmerged		0	0		0			ubmerged	1	\odot		<u></u>	$\bar{\sim}$			Submerged	0	0	0	0	0	
Stressor Presence/Absence - Confirm that					irm that	Vegetation U U U U U U U U U								Vegetation						0			
Residential and Urban Stressors								1000	Hydrology Stressors								Agricult	_		-			_
Fili bubble if present - Piot 1 2 3 Flag						Fiji bubbic		-	_	1	2	3	Flag	Fill bubble		_		1	2	3	Flag		
Road - gra		311(-1	TIOL	-			riag				100	1			riay		- Iko	11 1-1					riay
Road - two		No. of	(604)	0	0	0		Ditches, C Dike/Dam/				0	0	0		Pasture/Ha Range	y	-			9		
Road - fou				0	0	0	-	Water Lev		l Stru	cture	+	0	0		Row Crops		VA TITLE		0	0	0	
Parking Lo		nent		0	0	0	-	Excavation			Otal C	0	0	0		Fallow Field		RESTIN	NG	0	0	0	
Golf Cours	- 77		_	0	0	0		Fill/Spoil B		.9		0	Ö	0		Fallow Field	(OLD - GR	ASS,		ö	0	0	
Lawn/Park				0	0	0		Freshly De	posited S	Sedin	ent	0	0	0		SHRUBS, TRE Nursery	ES)			0	0	0	
Suburban	Residen	itial		0	0	0		Soil Loss/F		osure		0	0	0		Dairy				ŏ	0	Ö	\dashv
Urban/Mul	tifamily			0	0	Ō		Wall/Ripra	р			0	0	0		Orchard				ŏ	0	0	\dashv
Landfill				0	0	0		Inlets, Out				0	0	ō		Confined A	nimal Fee	ding		ठी	ō	0	
Dumping				0	0	0		Point Sour		NATER	1	0	0	0		Rural Resid	lential			0	0	0	
Trash			-81	0	0	0		Impervious (SHEETFLOW	surface			0	0	0		Gravel Pit	A 1 -			0	0	0	
Other:				0	0	0		Other:			ŽIII AS	0	0	0		Irrigation	La Tak		4	0	0	0	
Other:	_			0	0	0		Other:				0	0	0		Other:				0	0	0	
Indus	strial D	evel	opm	ent S	Stres	sor	s					ŀ	labit	at/V	egeta	tion Stress	ors	Y .					
Fiii bubble	If pres	ent - I	Piot	1	2	3	Fiag	Fill bubble	If prese	nt - F	Piot	1	2	3	Flag	Flii bubbi	e If prese	nt - F	Piot	1	2	3	Flag
Oil Drilling				0	0	0		Forest Clea	r Cut			0	0	0		Herbicide Us	se	W.		0	0	0	
Gas Wells				0	0	0		Forest Sele	ctive Cut			0	0	0		Mowing/Shr	ub Cutting			0	0	0	
Mine (surfa	ace)			0	0	0		Tree Planta	tion			0	0	0		Trails				0	0	0	
Mine (unde	erground)	g Ib	0	0	0		Tree Canop		ory		0	0	0		Soil Compac (ANIMAL OR HU				0	0	0	\neg
Military				0	0	0		Shrub Layer		d		0	0	0		Offroad vehi		ne .		0	0	0	
Other:				Ö	Ö	0		WILD OR DOM	ed Grass	es		0	0	0		Soil erosion	(FROM WIN		TER,	9	0	0	
Other:				0	<u></u>	0		(OVERALL <3° Recently Bu		est		0	0	0		OR OVERUSE) Other:				-	-	_	
					5	0		Canopy Recently Bu	rned Gra	sslan	d	0	0	0		Other:		ii.				0	
Other:	a codes	K = N	lo me	O asure	_		_	(BLACKENED)	rement	F1 F2	etc		_			each field cre	aw.	-	-1	0	이	0	
	iffer San					Expl		lags in comm							J 0 0 1	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		2	428	168	304		

FC	RM	B-1	l: E	BUFF	ER SAMPLE PLOTS -	TAF	RGE	TEI) ALI	EN SPECIES (Back)				
				h Alba						Reviewed by	/ (initia	1):	_	
Site ID:	P	A	P	Sc	1336	DAT	E: _(<u>).</u>	孔.	1.9.1.2.0.13.				
	a fille	ed da	ta bı	ubble l	ndicates presence and an unf	iiled I	oubbl	e inc	dicates	absence by filling in this bubi	bie			
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Fiag	Fill bubble if present - Plot	1	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	
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 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	
		- Carrier								Other:	0	0	0	
					PLOT COORI	DINA	TES							
Location of coordinate O AA CENTER O N Latitude I	3	O S	3	O E3	O W3 Nearest pra	Lon	gitud	de V		o and comment below)	8.		1	
Flag Comments													10	
1 RAFFORD	100	ts	2	L 2	1 lect 10-12	m (F	R	,FC	e-Dist 1 ace e.	17	5 1		-
DUITE I	1.	(<u>ے</u>	<u> </u>	as fulac Tula	0 . 6	000	P	W C	er Plot 1 are in	P	- 0		
144048	<u> </u>		11/6	9.	W. MAG. COM.	70	رحد	H	ccsc	10 C1033				
	-							_					_	
					F15000E1		_							
			_											
			_											
											271000		250,000	
Buffer Sample Pe	oints	- Tar	geted	d Alien	Species 05/27/2011					796	6623	3548	3 (•

TORNIC I TOR															
•				FC	ORM B-1: BUFFER SA	MP	LEF	PLC	TS (Front) Reviews	ed by (in	tial):			
Site ID: PCAP	<u>Sc</u>	13	3	6_					DAT	E: 071(81:	2,0	> 1	. 3		
Location:					Fill in bub	ble(s) if	plot	(s) co	ould not be sampled an	d flag	, —	T	l.	
O AA Center O N	C	S	0	E	OW Plot 1	8	Plo	t 2		Plot 3				1	
FIII in hubbles for all that anniv	Canon	v Tvne	. D =	Dooldus	Buffer Natura ous; E = Evergreen. Leaf Type: B = E	I Co	ver (Stra	ta			ls.			
Strata Section: Fili In appropria	e cove	r class	bubb	le for ea	ch strata type for each plot. 0 = Abs	iroadie ent; 1 :	ar; N =	= Nee se(<1	die Leat 0%); 2=I	. Absent: No tree canopy. Moderate(10-40%); 3 = Heavy (40-7	75%); 4	= Very	Heav	y (>75%	
Buffer Canopy Type:		① A	bse	nt: C	Buffer Canopy Type: (<u> </u>	7	bse	nt: (Buffer Canopy Type:	0	Absen			
Plot 1 Leaf Type:		O		Flag	Plot 2 Leaf Type: (<u>)</u> (51		Flag	Diet 2	~	<u> </u>		Flag	
Big Trees (>0.3m DBH)			O		Big Trees (>0.3m DBH)	10	0	10		101	Ŏ G	*)IC		
Small Trees (<0.3m DBH)		0	0		Small Trees (<0.3m DBH)	13	0	Ō	1		0 0		+=	-	
Woody Shrubs, Saplings (0.5m-5m HIGH)	0	0	0		Woody Shrubs, Saplings (0.5m-5m HIGH)	+=	0	0		 	5 6	—	+=		
Woody Shrubs, Saplings (<0.5m HIGH)	0	10	O		Woody Shrubs, Saplings (<0.5m HIGH)	+=	Ō	ŏ	,	Woody Shrubs, Saplings) (-	+	
Herbs, Forbs and Grasses	0	0	6		Herbs, Forbs and Grasses	10	Ö	ō		Herbs, Forbs and	3 6	+=	+=	+	
Bare ground ① [) (2)	0	0		Bare ground ① ①	+-	0	ō	1		0 0	_	+=		
Litter, duff 💿 🐔	0	10	0		Litter, duff 0 1	tõ	0	ŏ	+) [+=	-	_	
Rock 🗿 🕼	+=	10	0		Rock ① ①	0	0	0	+		30	+ =	0	+	
Water ① ①	+=		10		Water 💿 🖸	0	0	0	+	 	3 6	_		+	
Submerged (10	$\overline{0}$	10		Submerged ()	0	0	0		Submorged	=	1 =	+=	+ -	
Stressor Presence/A		1		îrm tha	1 3		\sim		unfillo	1 - 3 - 1 - 1		_		ł	
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 - Pio	_	2	3	Flag		T	1	I	T =-				_	_	
Road - gravel			0	Flag	Fill bubble if present - Plot	1	2	3	Flag			2	3	Flag	
Road - two lane	0	0	0		Ditches, Channelization Dike/Dam/Road/RR Bed	10	10	0		Pasture/Hay	10	-	0		
Road - four lane	6	0	0		(IMPEDE FLOW) Water Level Control Structure	0	0	0		Range Row Crops	10	_	0	-	
Parking Lot/Pavement	0	0	10	-	Excavation, Dredging	0	0	0		Fallow Field (RECENT-RESTING	C	-	0	-	
Golf Course	o	0	0		Fill/Spoil Banks	0	0	0		Fallow Field (OLD - GRASS,	C	_	0	-	
Laum/Dark		0	ō		Freshly Deposited Sediment	0	0	0		SHRUBS TREES) Nursery	C	0	0	-	
Lawn/Park	IU	_	-	_		1 ~	_	-	1	Traisery		$'$ \cup	0	_	
Suburban Residential	0	0	10	l	Soil Loss/Root Exposure			I O	1 1	Dairy	_	0		_	
	1	0	0		Soil Loss/Root Exposure Wall/Riprap	0	0	0			C	0	+ -	ı	
Suburban Residential	0	0 0	_			0	0	0		Orchard	0	0	0		
Suburban Residential Urban/Multifamily	0	0	0		Wall/Riprap Inlets, Outlets Point Source/Pipe	0	0	0			0	0	0		
Suburban Residential Urban/Multifamily Landfill	000	0	0		Wall/Riprap Inlets, Outlets	0	0	0		Orchard Confined Animal Feeding	0000	0 0	000		
Suburban Residential Urban/Multifamily Landfill Dumping	0000	0 0	000		Wall/Riprap Inlets, Outlets Point Source/Pipe (EFFLUENT OR STORMWATER) Impervious surface input	0 0	0 0	000		Orchard Confined Animal Feeding Rural Residential	0000	0000	0000		
Suburban Residential Urban/Multifamily Landfill Dumping Trash	0000	0000	0000		Wall/Riprap Inlets, Outlets Point Source/Pipe (EFFLUENT OR STORMWATER) Impervious surface input (SHEETFLOW)	0000	0000	0000		Orchard Confined Animal Feeding Rural Residential Gravel Pit	0000	00000	00000		
Suburban Residential Urban/Multifamily Landfill Dumping Trash Other:	000000	00000	00000	S	Wall/Riprap Inlets, Outlets Point Source/Pipe (EFFLUENT OR STORMWATER) Impervious surface input (SHEETFLOW) Other:	00000	00000	00000		Orchard Confined Animal Feeding Rural Residential Gravel Pit Irrigation	00000	0000	0000		
Suburban Residential Urban/Multifamily Landfill Dumping Trash Other:	0 0 0 0 0	00000	00000	s	Wall/Riprap Inlets, Outlets Point Source/Pipe (EFFLUENT OR STORMWATER) Impervious surface input (SHEETFLOW) Other:	00000	00000	00000		Orchard Confined Animal Feeding Rural Residential Gravel Pit Irrigation Other:	000000	00000	00000		
Suburban Residential Urban/Multifamily Landfill Dumping Trash Other: Other:	0 0 0 0 0 0	0 0 0 0 0 0 Stress	0 0 0 0 0 0		Wall/Riprap Inlets, Outlets Point Source/Pipe (EFFLUENT OR STORMWATER) Impervious surface Input (SHEETFLOW) Other: Other: Fill bubble if present - Plot	0 0 0 0 0	O O O O Habit	0 0 0 0 0 at/V	'egeta	Orchard Confined Animal Feeding Rural Residential Gravel Pit Irrigation Other: tion Stressors Fill bubble if present - Pic	O O O O O	0 0 0 0 0 0	00000		
Suburban Residential Urban/Multifamily Landfill Dumping Trash Other: Other: Industrial Developm	0 0 0 0 0 0	0 0 0 0 0 0 Stress	0 0 0 0 0 0 sor		Wall/Riprap Inlets, Outlets Point Source/Pipe (EFFLUENT OR STORMWATER) Impervious surface input (SHEETFLOW) Other: Other: Fill bubble if present - Plot Forest Clear Cut	000000	O O O O O O O O O O O O O O O O O O O	0 0 0 0 0 0	'egeta	Orchard Confined Animal Feeding Rural Residential Gravel Pit Irrigation Other: tion Stressors FIII bubble if present - Pic Herbicide Use	000000000000000000000000000000000000000	0 0 0 0 0 0	00000		
Suburban Residential Urban/Multifamily Landfill Dumping Trash Other: Other: Industrial Developm Fill bubble if present - Plot	0 0 0 0 0 0 0	0 0 0 0 0 0 Stres	0 0 0 0 0 0		Wall/Riprap Inlets, Outlets Point Source/Pipe (EFFLUENT OR STORMWATER) Impervious surface Input (SHEETFLOW) Other: Other: Fill bubble if present - Plot Forest Clear Cut Forest Selective Cut	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	O O O O O O O O O O O O O O O O O O O	0 0 0 0 0 0 0 at/V	'egeta	Orchard Confined Animal Feeding Rural Residential Gravel Pit Irrigation Other: tion Stressors FIII bubble if present - Plot Herbicide Use Mowing/Shrub Cutting	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0		
Suburban Residential Urban/Multifamily Landfill Dumping Trash Other: Other: Industrial Developm Fill bubble if present - Plot Oil Drilling Gas Wells Mine (surface)	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	Flag	Wall/Riprap Inlets, Outlets Point Source/Pipe (EFFLUENT OR STORMWATER) Impervious surface input (SHEETFLOW) Other: Other: Fill bubble if present - Plot Forest Clear Cut Forest Selective Cut Tree Plantation Tree Canopy Herbivory	000000000000000000000000000000000000000	O O O O O O O O O O O O O O O O O O O	0 0 0 0 0 0 0 0 0	'egeta	Orchard Confined Animal Feeding Rural Residential Gravel Pit Irrigation Other: tion Stressors Fill bubble if present - Plate Herbicide Use Mowing/Shrub Cutting Trails Soil Compaction	0 0 0 0 0 0	000000000000000000000000000000000000000	0 0 0 0 0 0 0	Flag	
Suburban Residential Urban/Multifamily Landfill Dumping Trash Other: Other: Industrial Developm Fill bubble if present - Plot Oil Drilling Gas Wells Mine (surface) Mine (underground)	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	Flag	Wall/Riprap Inlets, Outlets Point Source/Pipe (EFFLUENT OR STORMWATER) Impervious surface input (SHEETFLOW) Other: Other: Fill bubble if present - Plot Forest Clear Cut Forest Selective Cut Tree Plantation Tree Canopy Herbivory (INSECT) Shrub Layer Browsed	000000000000000000000000000000000000000	O O O O O O O O O O O O	0 0 0 0 0 0 0 0 0 0	'egeta	Orchard Confined Animal Feeding Rural Residential Gravel Pit Irrigation Other: tion Stressors FIII bubble if present - Plot Herbicide Use Mowing/Shrub Cutting Trails Soil Compaction (ANIMAL OR HUMAN)	0 0 0 0 0 0	O O O O O O O O O O	0 0 0 0 0 0 0		
Suburban Residential Urban/Multifamily Landfill Dumping Trash Other: Other: Industrial Developm Fill bubble if present - Plot Oil Drilling Gas Wells Mine (surface) Mine (underground) Military	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	3 0 0 0 0 0 0	Flag	Wall/Riprap Inlets, Outlets Point Source/Pipe (EFFLUENT OR STORMWATER) Impervious surface input (SHEETFLOW) Other: Other: Fill bubble if present - Plot Forest Clear Cut Forest Selective Cut Tree Plantation Tree Canopy Herbivory (INSECT)	1 0 0 0 0	0 0 0 0 0 0 0 Habiti 2 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	'egeta	Orchard Confined Animal Feeding Rural Residential Gravel Pit Irrigation Other: tion Stressors FIII bubble if present - Plot Herbicide Use Mowing/Shrub Cutting Trails Soil Compaction (ANIMAL OR HUMAN) Offroad vehicle damage	0 0 0 0 0 0	O O O O O O O O O O	3 0 0 0 0	Flag	
Suburban Residential Urban/Multifamily Landfill Dumping Trash Other: Other: Industrial Developm Fill bubble if present - Plot Oil Drilling Gas Wells Mine (surface) Mine (underground) Military Other:	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	Flag	Wall/Riprap Inlets, Outlets Point Source/Pipe (EFFLUENT OR STORMWATER) Impervious surface input (SHEETFLOW) Other: Other: Fill bubble if present - Plot Forest Clear Cut Forest Selective Cut Tree Plantation Tree Canopy Herbivory (INSECT) Shrub Layer Browsed (WILD OR DOMESTIC) Highly Grazed Grasses (OVERALL 3" HIGH)	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	egeta Flag	Orchard Confined Animal Feeding Rural Residential Gravel Pit Irrigation Other: tion Stressors FIII bubble if present - Plot Herbicide Use Mowing/Shrub Cutting Trails Soil Compaction (ANIMAL OR HUMAN) Offroad vehicle damage Soil erosion (FROM WIND, WATER OR OVERUSE)	x 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 0 0 0 0 0	3 0 0 0 0 0	Flag	
Suburban Residential Urban/Multifamily Landfill Dumping Trash Other: Other: Industrial Developm Fill bubble if present - Plot Oil Drilling Gas Wells Mine (surface) Mine (underground) Military	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	3 0 0 0 0 0 0	Flag	Wall/Riprap Inlets, Outlets Point Source/Pipe (EFFLUENT OR STORMWATER) Impervious surface Input (SHEETFLOW) Other: Other: Fill bubble If present - Plot Forest Clear Cut Forest Selective Cut Tree Plantation Tree Canopy Herbivory (INSECT) Shrub Layer Browsed (WILD OR DOMESTIC) Highly Grazed Grasses	1 0 0 0 0	0 0 0 0 0 0 0 Habiti 2 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	egeta	Orchard Confined Animal Feeding Rural Residential Gravel Pit Irrigation Other: tion Stressors Fill bubble if present - Plot Herbicide Use Mowing/Shrub Cutting Trails Soil Compaction (ANIMAL OR HUMAN) Offroad vehicle damage Soil erosion (FROM WIND, WATER	0 0 0 0 0 0	O O O O O O O O O O	3 0 0 0 0	Flag	

• FO	RM	B-1	l: E	BUFFER SAMPLE PLOTS - 1	TAR	GE	TED	ALI	EN SPECIES (Back) Reviewed by	(initial):		
Site ID:	DC	A	15	(1336	:: <u>_</u> C	7	_/_	1812013					
Confirm :	a fille	d da	ta bu	ubble Indicates presence and an unfil	lied b	ubbl	e ind	licates	absence by filling in this bubi	oie			
Fill bubble if present - Piot	1	2	3	Flag Fili bubble if present - Piot	1 2 3		Fiag	Fili bubble if present - Plot	1	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	
Yellow Floating Heart	ating Heart O O O Japa		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	
			1						Other:	0	0	0	
		7 11 1		PLOT COORD	DINA	TES							
O AA CENTER O N Latitude	13	o s	3		Lon	gitud	de V		g and comment below)	1]	Fla	
Flag Comments													
		7		shorr of BP#1, en			1	5000	Toda COS and	~ C	+		
Marchael	G ,).{\	MI ves		an	100	السلك	.40	1, 100m BF3 10	KU'S_			=
	y												
		·											
8			41					***				-	
													_
Q													
										5662	25.4	0	

05/27/2011

Buffer Sample Points - Targeted Alien Species

			-	_			- 100									~						_	
FORM B-1: BUFFER SAMPLE PLOTS (Front) Reviewed by (Initial): Out of the second of th																							
Site I	D: 4	134	26	40	50	2	0/3	5 PCA	PScl	33	6				DATE	: 0.7	11.5	31	2.	0	13	3.	
Locatio	on:											le(s) if p	lot(s	s) cou	ld not be	sample	ed an	d fl	ag -	→ 1		T
OAAC	enter	C	N	•	S	01	≣ 0	W	OP	lot	1	0	Plot	2	OF	Plot 3							
Cill to bubble	- f all ti	hat an	-bu Ca		T	0-5) a aldı sa ı	. C - Ever	Buffer											250			
																Absent: No tree oderate(10-409		vy (40-	75%);	4 = V	ery He	avy (>75%)
Buffer	Canop	у Тур	ie: (0) AI	bsen	t: O	Buffer	Canopy	у Тур	e: 4) () AI	osent	: O	Buffer	Canopy	Туре	: 📵	(1)	Ab	sent	0
Plot 1	Lea	f Typ	e: 🔞	(Flag	Plot 2 Leaf Type:				O			Flag	Plot 3 Leaf Type:			<u></u>			Flag	
Big Trees (>	0.3m DBH)	0	0	0		0		Big Trees (>0.3m DBH)	0	0	0	0	0		Big Trees	(>0.3m DBH)	0	0		0	0	
mall Trees (<	0.3m DBH)	0	0	0	9	0		Small Trees (<0.3m DBH)	0	0	0	0	0		Small Trees	(<0.3m DBH)	0	0	0	•	0	
Voody Shrubs (0.5m-	, Saplings 5m HIGH)	0	0	2	0	0		Woody Shrub (0.5m	s, Saplings n-5m HIGH)	0	0	0	0	0			ibs, Saplings m-5m HIGH)		0	0	0	0	
Voody Shrubs, (<0.	, Saplings 5m HIGH)		0	0	0	0		Woody Shrub (<(s, Saplings).5m HIGH)	0	9	0	0	0		Woody Shru	bs, Saplings :0.5m HIGH)	0	•	0	0	0	
Herbs, Fo	orbs and Grasses	0	0	0	0	0		Herbs,	Forbs and Grasses	0	0	0	•	0		Herbs,	Forbs and Grasses	0	0	0		0	
Bare	ground	0	0	0	0	0		Bare	ground	0		0	0	0		Bar	e ground	0	0	0	0	0	
Litt	er, duff	0	0		0	0		Li	tter, duff	0	0	0	0			L	itter, duff	0	0	0	0	9	
	Rock	1	0	0	0	0			Rock	0	0	0	0	0			Rock	0	<u></u>	0	0	0	
	Water	9	0	0	0	0			Water	0	0	0	0	0			Water		0	0	0	0	T
	bmerged egetation		0	2	0	0			ubmerged /egetation	9	0	0	0	0			Submerged Vegetation	9	0	0	0	0	
Stressor Presence/Absence - Confirm that a filled data bubble indicates presence and an unfilled bubble indicates absence by filling this bubble.														9									
Residential and Urban Stressors Hydrology Stressors Agricultural & Rural Stressors																							
ili bubble	if prese	ent - l	Plot	1	2	3	Flag	FIII bubble	Plot	1	2	3	Flag	Fill bubble	If preser	nt - Ple	ot	1	2	3	Flag		
Road - gra	vel			0	0	0		Ditches, Channelization				0	0	0		Pasture/Ha	ıy			0	0	0	
Road - two	iane	11 6	Shill	0	0	0	1	Dike/Dam/Road/RR Bed (IMPEDE FLOW)				0	0	0		Range				0	0	0	
Road - fou	r lane	19	WILL.	0	0	0		Water Lev		Str	icture	0	0	0		Row Crops				0	0	0	
Parking Lo	t/Paven	nent		0	0	0		Excavation	n, Dredgir	ng	T	0	0	0		Fallow Field		RESTIN	G	0	0	0	
Golf Cours	se			0	0	0		Fill/Spoil E				0	0	0		Fallow Field (OLD - GRASS, SHRUBS, TREES)				0	0	0	
Lawn/Park			1	0	0	0		Freshly De (UNVEGETAT		Sedin	nent	0	0	0		Nursery				0	0	0	
Suburban	Residen	ntial		0	0	0	ļ	Soil Loss/	Root Expo	osure		0	0	0		Dairy			\dashv	0	이	0	
Urban/Mul	tifamily			0	0	0		Wall/Ripra	p			0	0	0		Orchard			_	0	이	이	
Landfill	- 311			0	0	0		Inlets, Out				0	0	0		Confined A		ding		0	0	0	
Dumping	¥.			0	0	0		(EFFLUENT (OR STORMV	VATER	8)	0	0	0		Rural Resid	dential	100	-	0	\rightarrow	0	
Trash				0	0	0		(SHEETFLOV	V)			0	0	0		Gravel Pit			-	0		0	
Other:			-	0	0	0		Other:		_		0	0	0		Irrigation	***		\dashv	의		의	
Other:		_		0	0	0		Other:				0	0	0		Other:			_	0	0	이	
Indus	strial D	evel	opm	ent S	Stres	sor	8	general ex	1000	To be		9 115	Habit	tat/V	egeta	tion Stress	ors						
Fiii bubbie	If pres	ent -	Plot	1	2	3	Fiag	Fiii bubbie	if prese	nt - I	Plot	1	2	3	Fiag	Fili bubb	ie if prese	ent - P	lot	1	2	3	Flag
Oil Drilling	100	ne de		0	0	0		Forest Clea	r Cut			0	0	0		Herbicide U	se		-	0	0	0	
Gas Wells				0	0	0		Forest Sele	ctive Cut			0	0	0		Mowing/Shr	rub Cutting	3		0	이	0	
Mine (surfa	ace)			0	0	0		Tree Planta				0	0	0		Trails				0	0	0	
Mine (unde	erground	1)		0	0	0		Tree Canop (INSECT)				0	0	0		Soil Compa (ANIMAL OR H				0	0	0	
Military				0	0	0		Shrub Laye (WILD OR DO)	MESTIC)			0	0	0		Offroad veh		_		0	0	0	
Other:				0	0	0		Highly Graz (OVERALL <3*	HIGH)			0	0	0		Soil erosion OR OVERUSE		ID, WAT	ER,	0	0	0	
Other:				0	0	0		Recently Bu	rmed For	est		0	0	0		Other:				o	0	0	
Other:	311			0	0	0		Recently Burned Grassland (BLACKENED)					0	0		Other:				0	0	0	
Fia	g codes:	: K = 1	No me	_		made	, U=S	uspect meas	urement.,						igned b	y each field cr	ew.	2	428	168	304		
Bu	ıffer Sar	nple	Plots	05,	/27/2		ain ail f	lags in comm	ient sectio	n on	rue pa	ick of	ហេទេ fo	eril .	nue.		T and			_ 50			

• FC	RM	B-	1: E	BUFF	ER SAMPLE PLOTS -	TAF	RGE	TEI	D ALI	EN SPECIES (Back) Reviewed by	y (initia	ıl):		•	
Site ID:	CA	0	90	1336	DATE: 0711812013										
Confirm	a fill	ed da	ita bi	ubbie l	ndicates presence and an unf	illed	bubbl	le Inc	dicates	absence by filling in this bub	bie				
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Piot	1	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		
Yellow Floating Heart	0	0	0		Japanese Knotweed	0	0	0		Multiflora Rose	0	0	0		
Giant Salvinia	O O Perennial Pepperweed							0		Common Buckthorn	0	0	0		
Gartic Mustard	rd							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	a Thistle OOO Leafy Spurge									Other:	0	0	0		
	Other:	0	0	0											
					PLOT COORI	DINA	TES		A-H-						
Location of coordinate O AA CENTER O No	3	S:	3	O E3	O W3 O Nearest pra	10113				and comment below)	0				
		1	Mi		Use Decimal Degr					2.0.1. 4.0.3.7	2.				
Flag Comments											155				
nex are	(Dur	ir's	not	in BP#3)										
,															
													į.		
							-								
														\dashv	
														\dashv	
	IJ.	482		5x31=		388									
										7966	5623	354F	1		

05/27/2011

Buffer Sample Points - Targeted Alien Species

	FORM B-1: BUFFER SAMPLE PLOTS (Front) Reviewed by (Initial):																							
							FOF	RM B-1:	BUFF	ER	SAN	IPL	E PL	OT	S (Fi	ront)		Review	red by (initial):	4	_ (
Site ID	: P	CA	P	SC		133	36								DATE	07	1.65	51	2	0.	ι	2		
Location						192			Fill	in b	ubb	le(s)	if pl	ot(s	s) cou	ld not be	sample	d a	nd fl	ag -	→			
O AA Ce	enter	0	N	0	S	OE	0	W	OP	lot 1	1	01	Plot	2	OP	lot 3								
Fill in bubbles Strata Section:	for all th	at app	oly: Ca riate d	nopy over o	Type: :lass t	D = D	eciduous for eact	s: E = Everare	Buffer en. Leaf T or each plot	voe: B	s = Bro	adleat	: N = N	veedle	e Leaf. A	Absent: No tree oderate(10-40	e canopy. %); 3 = Hea	vy (40	-75%)	; 4 = V	ery He	avy (>75%)	
Buffer C	Canopy	/ Тур	e: 🙋) () AI	oseni	: O	Buffer	Canopy	, Тур	e: 🏉	Absent: O		Buffer	Canopy Type: @			€	sent	0				
Plot 1	Lea	f Typ	e: 🙋) (Flag	Plot 2	Lea	f Тур	e: 🎩) (·			Flag	Plot 3	Leaf	Туре	e: 🙆	0	I,		Flag	
Big Trees (>0.3	3m DBH)	0	0	0	0	(1)		Big Trees (>	-0.3m DBH)	0	0	0	0	(Big Trees	(>0.3m DBH)	0		0	0	<u> </u>		
mall Trees (<0.	3m DBH)		0	②	0	0		Small Trees (0	0	@	<u> </u>	<u>O</u>		Small Trees		0	0	0	(0)	<u> </u>		
Noody Shrubs, S (0.5m-5n		0	0		0	0			-5m HIGH)	0	0	0	0	0		(0.5	ibs, Saplings im-5m HIGH)	_	0	0	(<u> </u>		
	n HIGH)		0	0	0	0).5m HIGH)	0	0	9	0	<u>⊙</u>		(4	bs, Saplings 0.5m HIGH)	0	0	②	<u> </u>	<u> </u>		
Herbs, For G	rbs and Frasses	0	0	0	0			Herbs,	Forbs and Grasses	0	0	0	0	(Herbs	Forbs and Grasses	0	0	0	9	<u> </u>		
Bare g	round		0	0	0	0		Bare	ground	0	0	(3)	0	0		Bar	e ground	(2)	0	<u> </u>	0	<u> </u>		
Litte	r, duff	0	0	②	0	0		Li	tter, duff	0	0		0	<u>O</u>		L	itter, duff	0	0	@	0	<u> </u>		
	Rock		0	0	0	0			Rock	(0	(2)	0	0			Rock	0	@	0	0	0		
i	Water	0	0	0	0	0			Water	0	0	0	0	0			Water	@	0	0	0	0		
	merged getation	0	0	0	0	0			ubmerged /egetation	(3)	0	0	0	0			Submerged Vegetation		0	0	0	0		
Stresso	r Pres	sence	e/Ab	senc	e - 1	Confi	rm that	a filled data	bubble i	ndica	tes p	resen	ce and	d an	unfilled	bubble indi	ng thi	s bub	ble.	9				
Reside	ential			Hydrolo	gy S	tres	sors					Agricult	ural -	& Ru	ral S	tres	sors	4.1						
Fill bubble if present - Piot 1 2 3 Flag						Flag	Fill bubbl	e if prese	nt - I	Plot	1	2	3	Flag	Fill bubble	o If prese	nt - P	lot	1	2	3	Flag		
Road - grav	el			0	0	0		Ditches, C	Ditches, Channelization				0	0		Pasture/Ha	ay			0	0	0		
Road - two I	lane		19,5	0	0	0		Dike/Dam/Road/RR Bed (IMPEDE FLOW)				0	0	0		Range		101		0	0	0		
Road - four	lane		NIS.	0	0	0		Water Level Control Structure				0	0	0		Row Crops			, i	0	0	0		
Parking Lot	/Paven	nent	5	0	0	0		Excavation, Dredging				0	0	0	(9)	Fallow Fiel ROW CROP FIEL	.D)		NG	0	0	0		
Golf Course				0	0	0		Fill/Spoil Banks					0	0		Fallow Fiel SHRUBS, TRI		ASS,		0	0	0		
Lawn/Park		31		0	0	0	-	Freshly Deposited Sediment (UNVEGETATED)					0	0		Nursery					0	0		
Suburban R		tial		0	0	0		Soil Loss/Root Exposure			0	0	0		Dairy				0	0	0			
Urban/Multif	family			0	0	0		Wall/Ripra				0	0	0		Orchard			_	0	0	0		
Landfill				0	0	0		Inlets, Out Point Sou				0	0	0		Confined A		ding		0	0	0		
Dumping				0	0	0		(EFFLUENT (OR STORM	VATER	(3)	10	0	0	_	Rural Resi	gential			0	0	의		
Trash				0	0	③		(SHEETFLOV	V)	- 10		10	0	0		Gravel Pit		-		0	9			
Other:		- 50		0	0	0		Other:			_	0	0	0		Irrigation		_		00	0	0		
Other:				0	0	0		Other:				0	0	0		Other:				0	0	<u></u>		
Indust	trial D	evel	opm	ent S	Stres	son						_			· ·	ation Stressors								
Fiii bubble i	f pres	ent -	Plot	1	2	3	Flag	Fili bubble	If prese	nt - I	Piot	1	2	3	Flag	Fiii bubb	ie if pres	ent -	Plot	1	2	3	Flag	
Oil Drilling	, and			0	0	0		Forest Clea	r Cut			0	0	0		Herbicide U	Jse		17.	0	0	0		
Gas Wells	2011			0	0	0		Forest Sele	ctive Cut			0	0	0		Mowing/Sh	rub Cuttin	9		0	0	0		
Mine (surfac	ce)			0	0	0		Tree Planta			-111	0	0	0		Trails	47			0	0	0		
Mine (under	rground	1)		0	0	0		Tree Canor				0	0	0		Soil Compa (ANIMAL OR H	IUMAN)			0	0	0		
Military			, To	0	0	0		Shrub Laye (WILD OR DO	WESTIC)			0	0	0		Offroad vel		-		0	0	0		
Other:				0	0	0		Highly Graz OVERALL <3*	HIGH)			0	0	0		Soil erosion OR OVERUSE	7.5	ND, WA	ATER,	0	0	0		
Other:				0	0	0		Recently B		rest	11 5	0	0	0		Other:				0	0	0		
Other:				0	0	0		Recently Burned Grassland (BLACKENED)					0	0		Other:				0	0	0		
Fiag	codes	: K =	No me			mad	e, U = S	uspect meas	urement.,	F1,F	2, etc.	= mis	c. flag	s ass	igned b	y each field c	rew.	116	242	3168	3304			
Buf	ffer Sai	mple	Plots	05	/27/			lags in comm	ient sectio	no ne	tue Da	ack of	uiis TC	PIEΠ		WARRY THE	N 5 18	97						

pr rose GB Jr

Site ID:	PC	AF) <u>(</u>	5C 1	37/2	DAT	E: 🚜	7 0-	7 1	Reviewed by	r (initia	1):		
	-	-	-			_	_							
		T					_			absence by filling in this bubl	ole			
Fill bubble if present - Plot	1	2	3		li bubble if present - Plot	1	2	3	Fiag	Fill bubble if present - Plot	1	2	3	Flag
Eurasian Watermilfoil	0	0	0		urple Loosestrife	0	0	0		Johnson Grass	0	0	0	
Water hyacinth	0	0	0		notweed	0	0	0		Kudzu	0	0	0	
Yellow Floating Heart			panese Knotweed	0	0	0		Multiflora Rose	0	0	9			
Giant Salvinia	O O Perennial Pepperweed			0	0	0		Common Buckthorn	0	0	0			
Garlic Mustard	G G G G G G G G G G G G G G G G G G G					0	0	0		Himalayan Blackberry	0	0	0	
Poison Hemlock	O O O Strangers				- U	0	0	0		Tamarisk	0	0	0	
Mile-A-Minute Weed	inute Weed OOO Reed Canary Grass			eed Canary Grass	0	0	0		Other:	0	0	0		
Birdsfoot Trefoil	0	0	0	Co	ommon Reed	0	0	0		Other:	0	0	0	- 300
Canada Thistle	0	0	0	Lea	eafy Spurge	0	0	0		Other:	0	0	0	
9	11.7									Other:	0	0	0	
			HE2	HE SE	PLOT COORD	DINA	TES							
Latitude N	lorth	4	.)	. 42	4, 3, 4, 6,				est _	.6.1.4.0.7.1.	8		LDIN	
Flag Comments							TUK S							
· · · · · · · · · · · · · · · · · · ·	_	100 - 100 - 1			9						- 22		38	•
									- 10		- 12		_	
**														
													Tres	611
Buffer Sample Po	ints -	- Tare	eted	Alien Sne	cies 05/27/2011					7966	5623	3548	3	
Daniel daniple i d			,	/ wich ope	GC3 03/27/2011									-