Project Label:	PCAP		Plot No	: 1047 Date Sampled: 7-611 Lead: Eyste
				Comment required if item answer is NO
arking/Access outsi	ide of Park Boundaries	Y 2	<u>(b)</u>	If yes, write details in Comments section below
<u>ield journals compl</u>	cied		N	1
ite sketch made on	1.3000 map?		N	
heck cover page	X-axis Bearing of plot recorded	+Q	<u>N</u>	-
	GPS coords. Recorded		N	
	North direction recorded	<u> </u>	N	
<del>-</del>	Photographs taken?		N	
iot No., Date agreet	ment on all pages?		И	
leader data complet	ed all pages?	$\perp$ $(\underline{Y})$	<u>N</u>	
over classes record	ed in all Intensive modules	Ø	N	
Frowse Level By Sp	ecies		N	
Voody stem quality	control check		N	
nvasive plant qualit	y control check	( <u>(</u>	N	
sh trees mapped		Y	N	N/A
Cover by Strata? (co	nfirm cover type)	0	N .	
oil samples collecte	ed_with matching plot #.	Ø	<u>N</u>	
onchers labeled on	datasheet with initials and number	(3)	N	
ouchers labeled on	collection bag		N	
ink (lags removed			N	
Data sheet QA before leaving site?			N	
Common equipment returned to tub.		Y	N	
Data sheets scanned?		7/1	1 <u>/1</u>	Enter date to left
Final data sheets scanned?		<u> </u>		Enter date to left
Buffer Widths measured?		Ø′	N	
/cb Soil Survey		0	N	
oucher Location	Refrigerator	Y	N	
vouchers collected)	Press (#)			Eater unmber to left
	Drier	У	N	
	Identified	У	N	
	Mounicd	Y	N	
	Thrown away	Ÿ	N	
RIS point verific	ation: Is plot sampleable?			
~ Yes	Original GRTS point is sampleable			
n No	Original GRTS point lands in a non		e area (i	fill in category helow)
11 140	11 Point falls in a water (i.e. river,		o area (	in in one government
	Managed mowed area (i.e. got	f course, pieni	o area, tin	tht-of-way)
	□ Paved area (i.e. packinglot, road)			
	□ Unsafe to sample (i.e. steep sloj	ne)		
	D Other			
ddifional Comme	ots:			

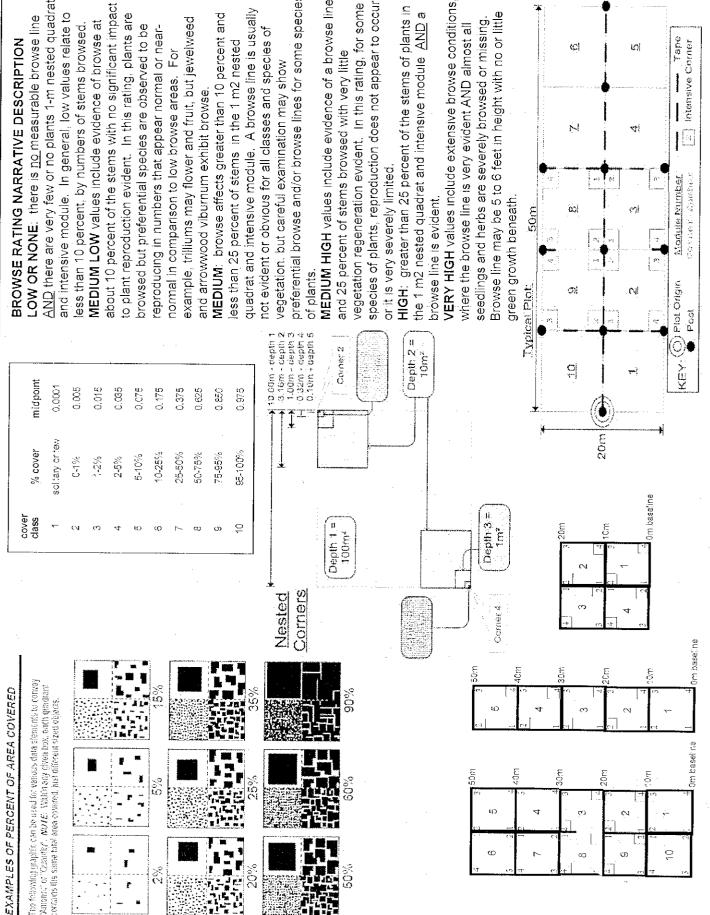
nd CVS Field Guide OVER	*Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide	s in Bold and Unde
	(	Authority: G&C Pub Date: 1998
Promantical Probabilism	Photo Nos.: 1043	TAXONOMIC STANDARD
	Camera No.: 2	lichen
inder las a comperation	Intensive modules: 2, 3, 8, 9 (EDIT IF MODIFIED)	ьтуо
	Depth: (1-5):	vascul. vascul.
DAY - NOTE BIRD	Stems present Plot size stems; O. / (ha)	high modera, low not smpl
	Stems not sampled on this plot Stems absent	TAXONOMIC ACCURACY
Ver Char Cak Shoot shear	Plot size for cover data: O, (hectares)	E Hurried data
	GPS File Name: 147	□ Accurate   may still provide good
Retionale GRIS Pt	Coord, Accuracy: Vm of ft +- 1,7	how much effort put into sampling. Hurried plots
	# 08/42851	Effort Level: subjective evaluation of
and colvent to plat	Latitude: 41.29803	SAMPLING QUALITY*
Takke squired trail across o	Datum: ■ NAD83/WGS84 □ NAD27	n Perm, water n Paved n Slope n Safety
LOCATION TAIK AT KOYAINIM TIOUS ONS	G O;her (specify) ■ m c ft c	PLOT NOT SAMPLED:   □ Other
	■ Lav Long ロ UTM ロ StatePlane - ■ deg ロ deg min	** Roles: Codecder, Asst. Ghido, Overer, faxonomist, etc.
Layout: 2XS	Coordinate system: Coord, Units	
	$x = \bigcirc y = \bigcirc \text{ (base of plot } x=0, y=0)$	7 Buton Botanical
NOTES: Include Layout (any unusual snape details), Location (directions and landscape (content), Rationale (why here), and Veg Characterization (description of community,	GPS location in plot $x=0$ to 5, $y=-1,0,\pm 1$ ):	いたいのなが、これのことが、
□ Transect component □ Systematic (grid) □ Capture specific feature □ Other	Source of coordinates   MAP GPS	6 (0/6)~
Plot piacement:   GREPresentative GRTS   Random   Stratified Random	If data not public why?	S. Ey Senbach Plot leader
(0,0) point point with direction	Reason:	Party Role**
GPS location	□ Fuzz 100m □ Fuzz 250m □ Fuzz 500m	End date (if > 1 day):
#2 #2 #2 #2 #2 #2 #2 #2 #2 #2 #2 #2 #2 #	Check one: Aublic data E Private Data	Date (mm/dd/yyyy): 7 /6 /2011
<u> </u>  2	Data Confidentialin:	Level 5 (nested corners sampled)
	X-axis Bearing of plot: []OS] o	□ Level 4 (no nested corners sampled)
Plot: #10 #9 #8 #7 #6	7	4
module 3 4 3 4	Atter Royalvan Franches	$\bigcirc$
3	Squire Tra	Plot Name: The Tropies
	Quadrangie: * Abor on Mayor Bores	Project Name: 01 MSDO
	State: OH County: Cuy whose	Project Label: PCAP
	LOCATION	GENERAL INFORMATION
nd Data Sheet જિલ્લાન્યોક્ષનાયાન્ય Page 1 of 2	CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	CLEVELAND METROPARKS Plant Co

browsed. The common to changes to much younger forest to the northwest.	of chan	of the wood	trowse or	25
There is a lot of past	25 05 A	and Unders	Midstory	Irregular/pattern mosaic
ye is a vary depaupements	St. Fr.	issas nos ene	booch so	Compositional nend across the plot Conspicuous inclusions
1 with sugar Marple Some	ed Oak	To maraly of	The old	Monogeneous
Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)	of plot to the stanc	ams: (Representativeness	Additional notes & diagr	HOMOGENEITY
nkaown Dinkaown			Y-1	
ooded (<1/yr)   ☐ Tidal/Seiche flooded irregular  ooded (e.g. wind, sionns)	□ Occasionally flooded (<1/yr) □ Temporarily flooded	(by default unless plot is a constant)	Tor25t	COMMUNITY NAME: BEACH - RED OAK FORZST
om flooded)   ☐ Tidal/Seiche flooded monthly	(dry <1/yr, seldom flooded)	χύpland (n/a)		
□ Permanently/Semipermanent, saturated □ Tidal/Seiche flooded daily	□ Pennanently/Se	□ Fresh	Fit= Conft Nov	CODE (on separate form): 254
d)   Permanently flooded	(seldom flooded)	ם Brackish	300	MODIFIED NATURESERVE CLASS*
□ Intermittently/seasonally saturated □ Semipermanently flooded	□ Intermittently/s	□ Saltwater	Fit= Conf=	⊐ SHRUB ⊐ shrub swamp ⊏ tall sh. bog ⊃ tàll sh. fen
1 flooded)    Intermittently flooded	Kupland (seldom flooded)	SALINITY*	Fir=Conf=	□ EMERGENT □ marsh □ wet meadow □ open bog
HYDROLOGIC REGIME*	HYDROLOG		Fit=Conf=	□ FOREST □ swamp forest □ bog forest □ forest seep
ie: [NK	Former Land Use:		NETA):	Ohio EPA VIBI Plant Community Class (VETLANDS ONLY):
se: Tooth	Current Land Use: Park		Fit= Conf=	BOG (strongly, moderately, weekly ombrotrophic)
**L=low, ML=med low, M=med, MH=med high, H=high, VH=very high	**L=low, ML=m		Fir=Conf=	COASTAL (specify subclass)
	Other	□ < plot size	Fil=Conf=	с FRINGING п Reservoir п Natural Lake
H O 100 Der Brows	Animal :	C 1-3 x plot size	Fir= Conf=	□ SLOPE (ground water hydrology or on a physical slope)
	Cut	□ 3-10 x plot size	Fit= Conf=	□ RIVERINE □ Headwater □ Mainstein □ Channel
	Fire	□ 10-100 x plot size	Fit Conf=	□ IMPOUNDMENT □ Beaver □ Human
the state of the s	Natural	> 100 x plot size	Fit=Conf=	d DEPRESSION
	Human	□ >1,000 x plot size		Hydrogeomorphic class (WETLANDS ONLY):
ty** yrs ago % of plot description	type* severity**	1	Fit and Confidence	(FIT = excellent, good, fair, poor; CONF = high, med, low)
CES	DISTURBAN	STAND SIZE		CLASSIFICATION
Plot No.: 14 + Page 2 of 2	Project Name: 01 MS 8011	Project Name:	PCAP	Project Label:
(PéluvelondMuinjantha	Sheet	n - Background Data	Assessment Program	CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

hairy sheath CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet Visual est. % open water entire site: Strata - Cov. entire plot Total modules: Project Label: S S[H](F)(A)[BrS 5 0 N  $\omega$  $\mathcal{U}|\mathcal{U}$ Fears grandifour Prunus Acor seecherum Awis see Nuro Sussyruss abidition describe amount of browse per species over Carua Espedunia Codo, phyllum Br = Browse Level. Use cover classes to COXIDIS lak grass renanthes arex Xaye itis tiparies sp COULDING were 10/CUS OWEL COU SPRI くのいはりると Ova Ta entire plat Species benzoin Jan of Fixal (eed/no tolipitera MAN CONTRACT 25.0 1-15-11 Visual est. %unveg.o.w. entire site: -48-8-TJS o Intensive modules: %unveg. ground (bare soil) intensive module: Estimate for each %unvegetated open water %แก่veg. litter (bare litter Subsp. Triphyllum SRE417 C2-1044 Project name: DIMS 301 Voucher# %open water 7 1 2 5 1 (V)1 9 Ω N (N Plot configuration:  $\frac{1147}{200}$ 7 Į2 H  $\mathbb{T}$ Visual est. %invasives entire site:  $\boldsymbol{L}$ 1  $\bar{c}$ 00 WL Ŵ L. W  $\mathcal{L}$ N (v) Δ 1  $\infty$ gepth 7 300  $\mathcal{L}$ O L Plot area (ha): (), l Ş (M 7 CR Page 0 m 60% 0 ۵ 1  $\overline{L}$ mod 1 1 207 8 depin Œ 878 33 æ

thin, sough

Wetroparks | CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet Strata - Cov. entire plot Visual est. % open water entire site: Total modules: Project Label: S H (F)(A) Br Pelysti. Rubus describe amount of browse per species over entire plot Berbens thunbergi Parthenocisis quinquetella Leersia Fraggula alaus chiceria striata Rosa Multitlora oxicodendion talls Br = Browse Level. Use cover classes to Jace X NON X leroniva bycown acerifolium Õ hum acrosticheides /vtom Species 20 U SAI NEWY L 50500 la pauliniasum is americana 300 prectum 一ちのか Visual est. %unveg.o.w. entire site: Estimate for the each intensive modules: %unveg. ground (bare soil) intensive module: %unvegetated open water 記やーのエー รัฐบางeg. Etter (bare litter) DSS 7-15-11 SRE 419 SRE 418 Project name: 0/MS2011 Voucher# Scopen water depth dep:n M Ţ. 7 cov | septh cov depth Plot configuration: 2x5 2 M 400 g Visual est. %invasives entire site: depth r comer, mod 10 Plot no.. cov | depth cov | deptr (V) ocrner 8 1147 207 depir 7.0d corner cov i depth F DC DC Plot area (ha): O./ 00,100 90 depin Ω. 200 Page 2 of 2 6 mon a depth. *Q.*. ŝ 3100 depth depth .tı  $\alpha$  $\sim$ Ŋ V  $\wedge$ 007 g



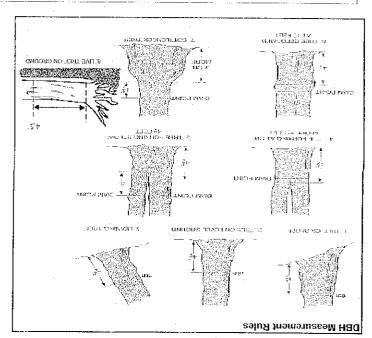
2 CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet <u>اح</u> 12 Ţ  $\dot{\sigma}$ ()s Σ (i) n N 7 N U 'n 5 W Explain subsample (additional room on back): Ostry virginiana Tilla americana Her Sourcerum Acer socchown Standing dead Starteling benzoln fler soucharum Rev Southern Quercus rubro Carya conditormis Dur saccharum VIHS CORNERS SOLI Acer soccharum Lindera benzoin Quercus rubre Linders proson Fagus grandifolia Ostrus virginiano Rosa multiflova Lindera brozero Fasus Symmelifolia Acer saccharum BUZOID Project Label: youcher# # stems 0 browsed 2 2 0 0.5-1m or super % sub Project Name: (2)m52e11 clumps ghirds  $\mathsf{L}$ 5 ò ¥‡: 6 力 size class (cm) woody stems >1m 0-41 1-<2.5 6 0 4 P ¢ 0 # 2 안 상 ; ] 4 P Plot No.: 1147 . . • :1 • 10 - <15 15 - <20 20 - <25 Page: 25 - <30 ø 6 30 - <35 약. Develond Metropaits 35 - <40 5 Ö 0 >40 (record each iree) \$ (<del>5)</del> 55.5 N <u>\_</u>: F 83

## Woody Stem Deer Browse

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

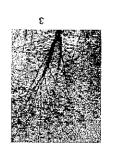
Record using the tally system from 1 to















## ASH CANOPY CONDITION

- 1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as maple
- sunlight, die naturally and are not considered 3. Dieback: Canopy is thinning and some top branches exposed to sunlight are dead (have no leaves). Lower branches, not exposed to 2. Thinning canopy: There aren't as many leaves as there ought to be, but all top branches exposed to sunlight have leaves.
- 2" Dosq csnoby: 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 ₹ >20% Dieback: The canopy has less than half of the leaves that should be there and/or half of the top branches are dead.

(lowest branch) on the trunk.

(if an ash receives a score of 5 (dead) under canopy condition if must also receive a breakup condition ASH CANOPY EREAKUP CONDITION (for dead trees):

- $A: \mathbb{A}$  Man 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 tertlary main branches present
- E: Central stem still standing.

rank as described below)

i O Q /0 و 10 ò 6 هـ ک۔ **с**го CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet 10 Smiles valuaditolia 6 ۵ے Standing Berberis - mumbergi Fasus grandifolia Sanding dead Lindera benzain Acer socchown Acer succhanim Explain subsample (additional room on back) Standing dead Prunus surdired Caryo cuatas Fasus sandifolia Quercus rubra Standing dead VITIS April 00 40. Querous robone Vitis - Trouver CO Vitis + poots sp Acer saceharum dead Project Label: PCAP e fo o ¢ # stems browsed sample clumps 0.5-1m or super % sub Project Name: 01ms zoll shrub M <u>ē</u> # ø size class (cm) wodcy stems >1m <u>^</u> • . . 9 • 2,5-45 Plot No.:1)4 7 e ø ø \* 5-<10 8 Ð . 20 + A108 6 15 - <20 ø Ġ ð 20 - <28 Page: N , भूगी सिक्स्बातास सिक्स्ब्स्बातेल 2 50.2 46.7,60.3 >40 (record sect tree) =;

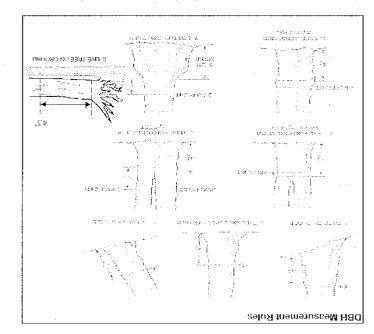


tall that exhibit evidence of this years deer browse Record the number of stems/plants between 0.5-1.0 meters

Record using the fally system from 1 to



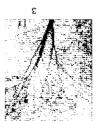


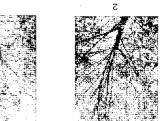


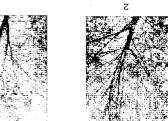


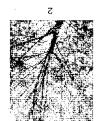


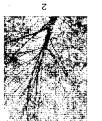






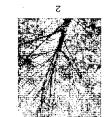


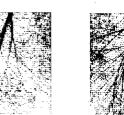






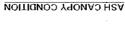












- 3. Thirming canopy: There sren't as many leaves as there ought to be, but all top branches exposed to sunlight have leaves t. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as mapte
- shulight, die naturally and are not considered 3° Diopack: Canoby is fujiming and some top branches exposed to similight are dead (have no leaves). Lower branches, not exposed to
- 2" Doaq cauobà: No leaves temain in the cauobà bortion of the free It still counts as a 2 even it there are objecturic abunits pelow the cauobà 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
- (lowest branch) on the trunk.

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D: Stem still standing and tertiary main branches present

E: Central stem still standing.

: :

X X (qnuqs) Multiflora Rose Rosa multiflora Χ (apuqs) elossy Buckthom Frangula alnus Japanese Knotweed Polygonum cuspidatum Phragmites (wetland) Phragmites australis Reed Canarygrass Phalaris arundinacea (qnuqs) Bush Honeysuckles L. morrowii, L. tatarica (qnuys) Common Privet aregluv murtzugi.l Garlic Mustard staloiteq anaillA Presence MN MS NE comments Tier 4: Widespread and abundant Presence Doublefile Viburnum (qnuqs) muteoilg mumudiV European Cranberry Alburnum opulus var. opulus (qnuqs) Star of Bethlehem Ornithogalum umbellatum ziril gali wolleY (wetland) lris pseudacorus Міперекгу Rubus phoenicolasius Lungwort Pulmonaria officinalis (G-cover) 000'T< :5 (qnuqs) Mock Orange Philadelphus coronarius 4: 101-1'000 (G-cover) Japanese Pachysandra Pachysandra terminalis Eleutherococcus pentaphyllus 3: 21-100 (qnuys) Five-leaf Aralia 717-20 :7 Crown Vetch (G-cover) Coronilla varia 1-10 (G-cover) Lily of the Valley Convallaria majalis stnelg to # MN MS 3N comments stnely to # Tier 3: Presence is of Interest Wintercreeper Euonymus fortunei (qnuqs) Amur Honeysuckle Lonicera maackii Elaeagnus umbellata (qnuqs) Autumn Olive Cut-leaf Teasel Dipsacus laciniatus European Alder esoniJulg sunlA (qnuųs) Jabanese Barberry Berberis thunbergii (qnuqs) Common Buckthorn Rhamnus cathartica Poison Hemlock Conium maculatum Hedgeparsley Torilis sp. Asian Bittersweet (Aine) Celastrus orbiculatus 000'T< Bishop's Goutweed (G-COVET)Aegopodium podagraria 000'T-TOT :# Purple Loosestrife (wetland) Lythrum salicaria Lonicera Japonica 00T-TS Japanese Honeysuckie (aniv) 11-50 Tree of Heaven smissifle surfneliA Norway Maple 1-10 Acer platanoides \* stnely to # MM MS 3S comments sinely to # Tier 2: Assess as Needed Giant Hogweed Heracleum mantegazzianum (wetland) Flowering Rush Butomus umbellatus Black Swallow-wort Cynanchum louiseae Lesser Celandine Ranunculus ficaria Microstegium vimineum x: AG2 szengtlitz ezeneget Presence ME MN MS : IS **CPS** Presence Tier 1: Early detection/ Rapid response emegosisin brasisvasio (p) CLEVELAUD METROPARKS Plant Community Assessment Program: Invasive Species Survey

Note: For Ground-cover plants record "stem #" but in comment field describe # of colonies and patch size (5,M, L)

(wetland)

(G-cover)

Periwinkle

Cattails

Dame's Rocket

Common Teasel

Canada thistle

Vinca minor

Hesperis matronalis

Munollut subseqiQ

Typha angustifolia, T. x.glauca

Cirsium arvense

Project label: PCAP CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet Plot No.:

Project Name: Olms 2011

7 41

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Page: 1 of 1

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

Soil pit module # 3 (one per entire plot)

						20 cm							5 cm
hydro. cond.***	redox features**	техгите*	oxid roots	%mottle	mottle color	matrix color / O	hydr, cond,***	redox features**	rexture*	oxid roots	%mottle	mottle color	mairix color /O YE
I S	¥		<b> </b> <		\	2	S	~		K			6
N D	0		Ð			5/Y	§ ∑	(Z)	(	3		-	32
.h		<del></del>		•			•						

- refer to texture classes on reverse side
- \*\* ం.g. hydrogen sulfide odor, gleying, etc.
- \*\*\* Circle one:

Excessively drained

□ Somewhat excessively

DRAINAGE

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

tarthworms C)

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

	Parent Material: Till
35	Landform type: Till plains
urvey	Soil Series Source: Ohio Soil Survey
Sil+ bam	Soil Series/Type: Maloning Silt bam
	Web Soil Survey Information:
	Soil Description/notes:
Α	2,3,8,9 composited
Horizon (A, B, C)	Soil Collection Module
	, , , , , , , , , , , , , , , , , , ,

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

Corner

C?=check when collected

			<u></u>
1	-		 <b>7</b>
			Module #
			#
			C?
			Comer
		ĺ	

SOIL DE	PTH MEA	SUREME	NT INSTR	UCTIONS:	SOIL DEPTH MEASUREMENT INSTRUCTIONS. Measure to the
neare	st 0.1 cm	n center o	er of intensive record as >30	nearest 0.1 cm in center of intensive modules. If >30.5 cm, record as >30	f >30.5 cm,
	l litter -	2 litter	3 restrict.	water	depth
	organic depth	depth	depth(cm)	depth	sat soil
mod⊭	(cm)	(cm)	*[WSS]	(cm)	(cm)
در	4,25	4.25	93	1	>30
ريغ	1.5	1.5	ν./ Φ	\	> 30
a	R V	10. 10.	62	1	>3€ <
۵_	4.25 4.25	425	$\omega$	ł	> 30
Length of	Length of soil probe = 125 cm	= 125 cm			
* Use Wel	Soil Surv	ev for #3 R	* Use Web Soil Survey for #3 Restrictive layer dept.	aver dept.	

than so inches

down who 214244S

ď,

e a per serio a a	manheul	апиния Жарн	
			Top 0.4
B In	\$011	1. litter + organic	Deficit Moneuroments  object of particles  colors to restrict the  colors to restrict these

6aCM PCAP Soils\_Crown cover\_Landform\_Standing Biomass\_Data Sheet\_Ver 2xls.xls last revised 6/23/2011 ceh

 Impermeable surface □ Very poorly dr. XSomewhat poorly dr. n Moderately well dr. ⊆ Well dramed

≡ Poorly dr.

Natural Resources Mangement FORM NR/2010-06a

Blide Vitery

7/8/1 WS AM

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

EZ

28

HS

ns

9000

along a fransect that tuns up and down the slope; e.g., backslope or

-owT - (909 ri notizeo aqolaliH) notizeo abitor . oqolaliH

dimensional descriptors of parts of thre segments (i.e., slope position)

oinsgnO =0 which form a ball but not a ribbon should be coded as loamy.

1 = Loamy

S= Clayey

4= Coarse Sand 3 = Sandy

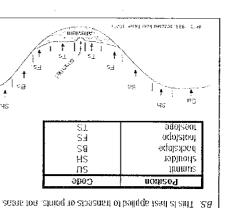
9= Not measured - make plot note

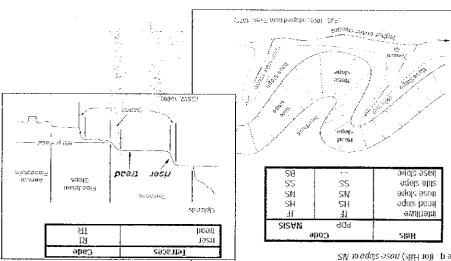
**%**.7  $\geq 50$ ш Many 71.  $S_i \otimes S_i \leq S_i \otimes S_i$ попшиол ĵ, Lem Sufface Area Covered SISVN Com. Criteria: % of COM6CPS2

descriptors are available for Hills. Terraces, Mountains, and Flat Plains;

Geomorphic Component - Paree dimensional descriptors of parts of birdiorins or microfeatures that are best applied to steas. Unique

**PERCENT MOTTLES** (USE CLASS CODES):





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

UPLAND: Not a wetland. Very rarely flooded

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

OCCASIONALLY FLOODED; Surface water can be present for brief periods during growing season, but not in most years. Often eaturated to surface for extended periods during the growing season. Equivalent to Cowardin's Saturated modifier

TEMPORARILY FLOODED: Surface water present for brief periods during growing season, but water table usually lies well below soil sabsmactenizes flood-plain upper terraces

INTERMITTENTLY FLOODED: Substrate is usually exposed, but surface water can be present for variable periods without detectable surface. Often characterizes flood-plain levees and lower terraces. Equivalent to Cowardin's Temporary modifier

the U.S. where appropriate. This modifier can be applied to both wetland and non-wetland situations. Equivalent to Cowardin's 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 seasonal periodicity Inundation is not predictable to a given season and is dependent upon highly localized rain storms This modifier was

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

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

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



MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only CAN VARY BY COVER TYPE. STRATA DESCRIPTIONS, STRATA COVER BY STRATA(% estimate using teature is present in moderate or greater amounts and of highest quality Stape f = a gnt stever'onal grade across mode e (h.) SEE BACK OF PAGE FOR TYPICAL kanka for microthathor featured. Selectional or selectivic aird average the score. NOTE: If mod felision a dispensive authorizing eis ranked based on stopphose (1-3) " supmersed impstiplant mass below surface coded and ripating one gally emersed nacro depressions = magorispographic depressions with module. These may extend into other modules and the counted again IOTE: Tussock and nummoods are counted in BOTH rigsted quadrat comers but obut Is are aggregated w.c. = gourse woody debtis Strata feature is present in moderate emounts, but not of highest quality, or in small amounts of highest quality facture is present in very email amounts or if more common lief low quality croheb. Interspers.. = ottersi renking of protimicolopegraphic interspersion complexity using sosie before feature is absent or functionally absent (Golf Course Flat) 2 W S 7, 7 1 7 carner 13 Remember: in a standard 2x5 plot each module = 10% cover Total Cover (3) depth 3 nissocks 0  $\bigcirc$ o 0 lx!m 3.16x3.16m depth 2 Sycounters. O 20.01 G Ю 0 Slepe 2 = fs is on slope ~20 ° EARTH SURFACE & GROUND COVER \*\*\* <5 cm in d'ameter Goulder = > 10 in Gravel-Outbble = 1/16 to 10 in fistoso: \* >5 cm in dismater sdrock oolder\*\* ravel-Cobble nderlying Earth Surface\* 020 đợp th 1 depressions DO RECORD 10x16m 00 W 0 percent  $\circ$ 1919 1919 (2-12 cm) 10v10m մերդի 1 2 c.w.d c.w.d. - count for pieces with minimum 1th length Ground Cover Fine Woody Debris\*\*\*\* Bryephyte-Lichen RoadTrail Coarse Woody Debtis\*\*\* off (Ferro, + Humbe) Stope 3 = maximum steepness that can be safely sampled ~45  $^\circ$ (12-40en) 10x10m depth 1 0.44.0 90 N cO (mb) w west S 10x10m depth 1 >46 cm C.W. C 0 O macrehab. 10x10m depth 1 interspers mierolich.  $\bigcirc$ 10x10m SLOPE O 0 (rank) 0 \*\* Terrain Shape Index (site microtopographic shape)

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

Project Name: OIMS 2011

Plot No.: 1147

Project Label:

PCAP

TRAIL INFORMATION: If trail falls in plot record type and cover for Bootlee unsanettored Hiking sanctioned All Purpose %Cover

CROWN COVER (DENSIONETER): Make 4 readings per module fromg N. S. E. W. Place dat count in corresonding space.

(4 dots per grid square)

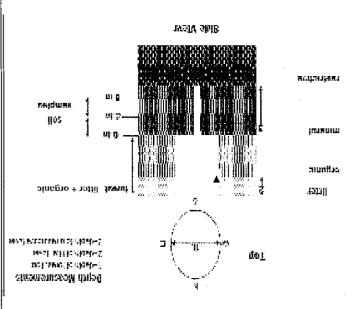
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IFILLED OUT USING GIS PROGRAM - DO NOT FILL OUT IN FIELD)	06RAM - DO N	OT FILL OUI	TIN FIELD)
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At aspect	ĸ		LFI is engile of
		_	bonzen. TSI is
+45 Gegrees	ZE	-	angles formed
±90 degrees	Е		lay local slopes
±135 dagrees	SE		For TSI
+180 degrees	S		from recorders
+225 degrees	SW.		eye to eye of person standing
+270 degrees	W		~10 m away.
+3)5 degrees	NA NA		

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Capacitand Menther	£		NIAN
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Pateville Grants.			LOWER PENNSYLVANIAN

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Î	muter beet stratum	'Very tall shrubs are sometimes inclu
	Submerged	Aquatic (submerged)
$\ $	€Position	Floating
╢	Herb, dwarf-shrub**, tree (seedling***)	Herb (Field)
	Tree (sapling), shrub, liana, epiphyte)	Shrub (generally 0.5 to 5 m)
li	epiphyte)	
l	Tree (overstory), very tall shrubs*, liana,	Tree (generally ≥5 m)
ļ	GENERAL FORM	MUTAATS
j		COVER BY STRATE



														4.04.00							
<b>(</b>						FO	RM.	- 1: NW	CA BUF	FER	S/M/M	P.E.				Reviewed				G.	9
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mall Troes (	<0.3m DBH)	0	0	0	0	0		Small Trees	(<0,3m DBH)		0	9	C		Small Trees	(<0.3m DDH)	$\bigcirc  \bigcirc$	) (	) (C	<b>D</b>	
Voody Shrub	s Saplings -5m.HIGH)	0	0	0	$\bigcirc$	0		Worldy Strut (0.5r	os, Saplings n-5m:HIGH).	<b>9</b>	0	$\bigcirc$	$\supset$			ubs, Saptings on 5m (HIGH)		<u>)</u> (		$\supset$	
Voody Shrub		0	0	0	$\circ$	0		Woody Shoul	os, Saplings. 0,5m HIGH)	<b>0</b>	0	$\overline{\bigcirc}$	Ð.			ibs, Saplings n.5m H(GH)				3	
	Forbs and Grasses	0	0	0	$\odot$	0		Herbs,	Forbs and Crasses	<b>O</b>	0	$\bigcirc$	<u> </u>		Herbs	Foras and Grosses O	•	)	C	$\bigcirc$	
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	Rock	<b>9</b>	$\overline{\bigcirc}$	O	Ŏ	Ō			Rock (		0	0	<u> </u>			Rock 🔞	0		0	<b>3</b>	
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Other:				0	0	О		Recently (BLACKENE	Burned Gra	ssland	0	0	0		Other:			0	Ο	0	

(i)	ORI	M B	-18:	NWC	CA BUFFER SAMPLE	FLC	TS.	. TA	\RGE	TEL ALIEN SPECIES	(Вас			
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<b>©</b> Confirm	a fille	∋d da	ata bi	ubble i	ndicates presence and an unf	illed	bubbl	e inc	ficates	absence by filling in this bub	ble			
ill 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	О	0	0	*******	Johnson Grass	0	0	0	
Water hyacinth	0	0	0		Knotweed	О	0	О		Kudzu	0	0	0	
Yellow Floating Heart	0	0	0		Japanese Knotweed	О	О	0		Multiflora Rose	0	О	O	· · · · · · · ·
Giant Salvinia	0	0	0		Perennial Popperweed	O	0	0		Common Buckthern	O	Ö	0	
Garlic Mustard	0	0	0		Giant Reed	0	0	0		Himalayan Blackberry	Ö	o	Ō	:
Poison Hemlock	0	0	0		Cheatgrass	0	0	0		Tamarisk	0	ō	Ō	<del>- \ </del>
Mile-A-Minute Weed	О	0	О		Reed Canary Grass	О	0	0		Other	0	Ŏ	Ō	<del></del>
Birdsfoot Ttefoil	О	0	О		Common Reed	О	0	0		Other:	O	ō	0	
Canada Thistle	0	0	0		Leafy Spurge	0	О	0		Other:	Ō	0	O	-
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Location of coordinate	ente s (c	r of F hoos	Plot 3 se oi	as pos ne):	sible or at the center of the last	acce.	ssible	Buffe	er Plot.	dinates of the nearest practicab	le loc	ation	can I	
		) <u>4</u>	<b>)</b>	. 2	9929 Use Decimal Degr	Lon	gituc	le W		0,8,1, 7,9,8,6	7			
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ill in bubbles for all that apply: Can					633	er Natural	عافدالمص	NE'- Nic	ا مالحمٰه	Leaf. Ab	gent. No tres	савору.				
Till in bubbles for all that apply: Can Strata Section: Fill in appropriate co	ver cla	ype: D	ipple	or each	strata type for each	plot 0. Absen	t; 1 = S <sub>[</sub>	oarse(	:1,0%)	; 2=fvlod	lerate(10-401	4); 3 = Heavy (40-75%);	4 = Ve	ry Hoa	vy.(>)	(5%)
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mall Trees (<0.3m DBH) 💿 🚺 (	$\bigcirc$	C	0		Small Trees (<0.3m t	эвн) 🔘 🔘	$\bigcirc$	$\bigcirc  $	$\supset$		Small Tree:	-			<u>)</u> _	
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Stressor Presence/Abs	enc	e - C	onfi	m that	a filled data bubb	ole indicates p	resenc	e and	an u	ເກເມີເຊີ	bubble indi	cates absence by filli	ng this	bubt	ole. G	<b>)</b> 4
Residential and Urba	n St	ress	ors		Hydr	ology Stres	sors					Agricultural & Ru	ıral St	ress	ors	
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if p	resent - Plot		2	3	Flag	Fill bubbl	e if present - Plot	1	2	3	Flag
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Road - two lane	0	0	О		Dike/Dam/Road	I/RR Bed	0	0	0		Range		0		0	
Road - four lane	0	0	0		Water Level Co	rurol Structur		0	0		Row Grop	<u> </u>	0		의	
Parking Lot/Pavement	0	0	0		Excavation, Dre	eaging		0			ROW CROPLEIF	Id (RECENT-RESTING LD) Id (OLD GRASS,	0	0	의	
Galf Course	0	0	0		Fill/Spoil Banks		0	0	0		SHRUBS TE		0	9	0	
Lawn/Park	0	0	0		Freshly Deposit (UNVEGETATED)			0	0		Nursery		<u> </u>	0	의	
Suburban Residential	0	0	0		Sail Loss Roof	Exposure	0	O	_0		Dairy		0	0	0	
Urban/Multifamily	0	0	0	<u>Qarea</u>	V/all/Kiprap		0	0	Ó		Orchard	And Directors	0	$\frac{\circ}{\circ}$	$\frac{9}{2}$	
Landfill	0	0	0		Inlets, Outlots Point Source/P	ine	0	0	O		Rural Res	Animal Feeding	0	0	0	
Dumping	0	0	0	l ·	(EFFLUENT OR ST Impervious sur	ORMWATER)	0	0	0		Gravel Pi		0	0	0	
Trash	0	0	0		(SHEETELOW)	aga (Angilia) in a sa	0	0	0	_	Irrigation		0	0	0	
Other:	0	0	0		Other:		_	0	0		Other:		0	0	0	
Other:	0	O	0	L	Other:		· · · · · · · · · · · · · · · · · · ·	4		L	<u> </u>				$\mathcal{I}$	
Industrial Developm	efit S	Stres	sor	S			1	·	-		tion Stres				-	
Fill bubble if present Plot	1	2	3	Flag	Fill bubble if p	resent - Plot	1	2	3	Flag		ble if present - Plot	-	2	3	Flag
Oil Drilling	0	0	0	ļ. 	Forest Clear Cu	11		0	$ \circ $		Herbicide		0	0	0	
Gas Wells *	0	0	0		Forest Selective	e Cut	0	0	0	ļ	Mowing/S	hrub Cutting	0	0	0	.,
Mine (surface)	0	0	0		Tree Plantation		0	0	0		Trails Soil Com	partion	0	О	0	
Mine (underground)	0	0	0		Tree Canopy Ho (INSECT)		0	0	0	ļ	(ANIMAL OF	HUMAN)		0	0	
Military	0	0	O		Shrub Layer Brownest	IG)	0	0	0		The second section	ehicle damage	0	0	0	
Other.	О	0	0		Highly Grazed (	Grasses n	0	0	0		Soil erosi OR OVERUS	ƏD (FROM WIND, WATER SE)	0	0	0	
The state of the s	0	О	0		Recently Burne	d Forest	0	0	0		Other:		0	0	0	
Other:	Ō	Ō	O	<del>                                     </del>	Canopy Recently Burne (BLACKENPD)	d Grassland	0	0	0		Other:		0	О	0	
		1	1	<u>1</u>	(INLAGRENICA)			1 1 1 1 1 1	ــــــــــــــــــــــــــــــــــــــ	V 2.	-	86	2 1 N N	504 <i>i</i>	5 6	<b>A</b>

NWCA Buffer Sample Plots 03/09/2011

horian	FORI	M G		NWC	A GUFFER SAMPLE	⊵! ເ	TS.	 - TA	. DCF	TED ALIEN SPECIES	/10 %	-9-3	<del></del> .	~
Site					P(AP MS 1147					Reviewed b	y (initia	が代す (1):		
<b>©</b> Co			<del></del>			<u> </u>		·		absence by filling in this bub	r.i.			
Fill bubble if present	1	2	3	1 2 2 2	Fill bubble if present Plot	·	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag
Eurasian Walermilfoil	0	0	0		Purple Loosestrife	0	0	0		Johnson Grass	0	0	0	
Water hyacinth	0	0	0		Knotweed	0	O	0		Kudzu	0	0	0	-
Yellow Floating Fleart	0	0	0	-	Japanese Knotweed	0	O	0		Multiflora Rose	0	0	0	
Giánt Salvinia	0	0	0		Perennial Popperweed	0	0	o		Common Buckthorn	0	ō		·
Garlic Mustard	0	0	0		Giant Reed	0	0	0		Himalayan Blackberry	Ö	0	O	<del></del>
Paison Hemlock	0	0	0		Cheatgrass	0	0	0		Tamarisk	Ō	ō	0	<del> </del>
Mile-A-Minute Wood	0	O	О		Reed Canary Grass	0	0	0		Other:	0	0	Ō	-4* <u>!! </u>
Birdsfoot Trefoil	0	0	0		Common Reed	0	0	0		Other	O	0	O	<del></del>
Ganada Thistle	0	0	0	and the comments	Leafy Spurge	0	0	0		Other:	0	O	Ō	<del></del>
				**************************************			<b>L</b>	لبــــــــــــــــــــــــــــــــــــ		Other:	0	O	O	
Plots are centered on the flag box, and describe to	ne Butter Ti where the c o the cente	ranse oordi r of f	cts a nates lot 3	ind the swere t as pos	coordinates will indicate the loc	ation. Réctio	of the a bold	trans w. T	sect, Fi	TRANSECT. This is important I If in the "nearest practicable location of the nearest practical indicates of the nearest practical."	aftern"	hubb	ic fill	I in the be
			S. 11 1	Asset State	O W3 O Nearest pra	ctical	ole Io	catio	n (flag	and comment below)		Γ		
Latit	ude North	١, Ц	, (	<b>.</b> .Z	의 8 I Z Use Decimal Degr	Lon ees;	gituc NAD	le W 83	est ِر	0,8,1,7,9,8,3	٥,			
Flag Comm	ents													
		1	,	F.	<u> Articulation of the Articles of the Articles</u>		<u></u>	****			فستفيف أ	المشت		- Turnelle
		<del>The second of the second of t</del>												
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	**************************************		(1818 (1919) —		жүү жана жана талын түртүү жүү жүү жүү жүү жүү жүү жүү жүү жүү			• • • • • • • • • • • • • • • • • • • •				·	TOTAL CONTRACTOR	
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NWCA Buffer Sample Points - Targeted Alien Species 03/08/2011

<u> </u>				FO	KW.	. C NWCABUFFER S					A contract of the contract of			1.	
	NWCA	11-	PC	AP	ms	1147	## ( +2 +	• .	[	DATE:	on location of the sampled and flow	0 -	i 1		
Location:						Fill in bubbl	e(s)	if plo	ot(s)	) coul	d not be sampled and fla	-g -	>		
O AA Center	ON	0.8	3	<b>6</b>	0	W O Plot 1	O F	fot 2		O.PI	ot 3				
						Buffer Natural C	OVE	er Str	ata dodla	Lear Al	sent. No tree capopy				
di in bubbles for all that Strata Section: Fill in app	appiy: Ca propriate c	nopy i over cl	ype, i lass b	ubble ubble	for each	strata type for each plot 0 = Absent	4 S	parso(*	<10%	); 2=Moc	lerate(10-40%); 3 = Heavy (40-75%);	4 = V€	ry Hu	ivý (>	75%)
Buffer Canopy 7	уре: 🐠	()	) Ab	sent		Buffer Canopy Type:		Abs	sent:	0	Buffer Canopy Type:	0	Abs	ent:	$\circ$
Plot 1 Leaf 1	уре: 🔇	) (	)		Flag	Plot 2 Leaf Type;	(6)	)		Flag	Plot 3 Leaf Type:	<u>(e)</u>		F	Flag
Big Trees (>0,3m DBH)	O C	0		$\odot$		Big Trees (>0.3m (PBI I)) (1)	$\bigcirc $		$\supset$		Big-Trees (>0.3m DBH)	(0)		0	
mall Trees (<0.3m DBH)	0 C	$\bigcirc$	$\bigcirc$	<b>(3)</b>		Small Trees (<0.3m DBH)	$\bigcirc$				Small Trees (<0.3m/DBH)	$\odot$	<b>6</b>	0	
Woody Shrubs Saptings (0.5m-5m HIGH)	<b>0</b> C	0	0	0		Weody Shrubs, Saptings (0.5m-5m-HIGR)	<b>©</b>	O	$\supset$		Woody Strubs, Saplings (0.5m-5m HIGH)	<b>(2)</b>	<u> </u>	0	
	) <b>(3</b>	0	0	0		Woody Strubs, Saplings (<0.5m HIGH)	$\odot$	$\bigcirc$	$\supset$		Woody Shrubs, Soptings C (C)	0	O	0	
	<b>O</b>	0	0	0		Hertis, Forbs and O O	0	O	$\supset$		Horbs, Ferbs and Greenes C	$\bigcirc$	$\bigcirc$	0	
		0	0	0		Bare ground 🕒 🚳	0	0	$\bigcirc$		Bare ground 🔘 🚳	$\odot$	$\bigcirc$	0	
Litter, duff (	00	0	0	<b>(3)</b>		Litter, duff 🔘 🕦	0	$\bigcirc$	0		A Litter duff 🕜 🕦	$\bigcirc$	$\odot$	0	
Rock 1		0	$\bigcirc$	0		Rock 🔞 🔘	0	0	$\bigcirc$		Rack 🙆 🕤	0	0	0	
Water (		Ō	0	0		Water 🚳 🔾	0	0	0	7	Water 🚳 🕥	0	$\bigcirc$	0	
Submerged A		$\overline{\bigcirc}$	$\overline{\bigcirc}$	$\overline{\odot}$		Submerged O	$\bigcirc$	$\bigcirc$	$\bigcirc$		Submerged	0	0	0	
		senc		Conti	rm that		eseno	ce and	lan u	ırıfill d	bubble indicates absence by filli	ng this	s bub	ble (	<b>o</b> 4
Residential a	<del></del>			<del></del> -		Hydrology Stress					Agricultural & Ru				
Fill bubble if preser		1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag
Road - gravel			0	О		Dirches Channelization	O	0	O		Pasture/Hay	0	0	0	
Road - two lane		0	0	0		Dike/Dam/Road/RR Ead	Ō	o	O		Range	0	0	0	
Road - four lane		0	O	0		йменне ноw) Water Level Central Structure	0	0	0		Row Crops	0	0	0	
Parking Lot/Paveme	ent	Ō	Ō	Ō		Excavation, Dreaging	0	0	0		Fallow Field (RECENT-RESTING	0	0	0	
Golf Course		Ō	Ō	Ō		Fill/Speil Banks	0	0	0		Pallow Field (OLD - GRASS, SHRUBS TREES)	0	0	0	
Lawn/Park		0	0	0		Freshly Deposited Sediment	0	0	0		Nursery	0	0	0	
Suburban Residenti	al	O	0	0		Soil Loss/Root Exposure	0	0	0		Dairy	0	0	0	
Urban/Muttifamily		0	0	0	e Ciliano	Walli/Riptap	O		0		Orchard	0	0	0	
Landfill		0	O	0		Inlets, Outlets	0	0	0		Confined Animal Feeding	0	0	0	
Dumping		0	0	0		Point Source/Pipe (6FFLUENT OR STORMWATER) Impervious surface input	0	0	0		Rural Residential	0	0	0	
Trash		0	0	0		Impervious surface input (SHEETHLOW)	0	0	0		Gravel Fit	0	0		
Other:		o	0	$ \circ$		Other:	0	0	0		Irrigation	0	0	0	
Others		Jo	0	0		Other:	0		0		Other:	0	0	0	<del></del>
Industrial De	velopn.	ent S	Stres	ssor	s			Habit	at/V	egeta	tion Stressors			N	 
Fill bubble if prese	nt-Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag
Oil Drilling		0	0	О		Forest Clear Cut	0	0	0		Herbicide Use	0	0	0	
Gas Wells		0	0	0		Forest Selective Cut	0	0	0		Mowing/Shrub Cutting	0	0	0	
Mine (surface)		0	0	0	-	Tree Plantation	0	0	0		Trails	0	0	0	
Mine (underground)		0	0	0	-	Tree Canopy Flerbivory		0	0		Soil Compaction (ANIMAL OR HUMAN)	0	0	0	
				-	<b> </b>	(INSECT) Shrub Layer Browsed	<b>O</b>	<b>O</b>	<b>©</b>		Offroad vehicle damage	0	0	Ö	
Military		0	0	0	<u> </u>	(WILD OR DOMESTIC) Highly Grazed Grasses		-	0		Soil erosion (FROM WIND, WATER,	0	0	0	
Other:		0				(OVERALL 3" HIGH) Recently Burned Forest	0	0			or overush) Other:		0	0	
Other:		0	0	0	ļ	Canopy Recently Burned Grassland	0		0	<u> </u>		0			
Other.	en e	0	О	0		(BLACKENFD)	0		0	<u></u>	Other:	0	0	0	<u></u>

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F	ORI	VI E	-1:	MWC	( A BUFFER SAMPLE I	PLO	TS -	7/4	NRGE	TEU ALIEN SPECIES (				
Site ID:		ΝW	/CA	11-	PLAP MS 1147	DAT	E: _C	) (	) ] [	06/2011				
<b>∂</b> Confirm									· · · · ·	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 - 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	
Yellow Floating Heart	0	О	0		Japanese Knotweed	0	0	0		Multiflora Rose	0	0	•	
Giant Salvinia	0	0	0		Perennial Pepperweed	О	0	0		Common Buckthorn	0	O	0	:
Garlic Mustard	0	0	0		Giant Reed	0	0	0		Himalayan Blackberry	O	0	0	
Poison Hemlock	0	0	О		Cheatgrass	0	0	0		Tamarisk	0	0	O	
Mile-A-Minute Weed	0	0	0		Reed Canary Grass	0	0	0		Other:	0	0	0	· · · · · · · · · · · · · · · · · · ·
Birdsloot Trefoil	О	0	0		Common Reed	0	0	O		Other:	0	0	0	
Canada Thistle	0	0	0		Leafy Spurge	0	0	0		Official Control of the Control of t	0	0	0	
										Others:	0	0	0	
	189				PLOT COORE	AMIC	TES				on a sec			Wager 19
	3 (	os:	3	● E3	OW3 O Nearest prac	Lon	gituc	le V		and comment below)	.3,			ag J
Flag Comments														
		<u> </u>		p <sup>r</sup>										
	, 20°5''	X												
<u> </u>				*****************					····					
														20 may 20
NWCA Buffer Sample	e Poir	ıts - T	Targe	ted Ali	en Species: 03/08/2011					756	8341	1903	· · · · · · · · · · · · · · · · · · ·	<b>9</b>

				· .						   - -	ER S	AM	ed e			(a OFFE) Reviewed by (			- 4	
Site I	iD:	W	NCA	411.	PC	AF	. W	5 70	<u> </u>				÷.	I	DATE:	07/06/2	()	1		
Locati	on:								Fill	in b	ubbl	e(s)	if plo	ot(s)	) cou	ld not be sampled and fl	g –	<b>-</b> ≱		
OAA	Center	0	N	<b>Q</b> :	3 (	OE	0		OP		,	OP			OP	lot 3				
ill in bubble trata Secti	es for all th on: Fill in a	at app	oly: Ca riate c	inopy l toyer c	ype: E lass be	) = Da	eriduous for each	E - Europan	Buffer I con Leaf To or each plot	mar B	Piro	ardioa(-	M No	oodle	Leat. Al ); 2≓Mo	osenf. No free canopy. derate(10-49%); 3 = Hoavy (40:75%);	4 = Vc	ery Hoa	avy (>	75%)
Buffer Plot 1	Canopy		e: <b>6</b>			sent	Flag	Buffer Plot 2	Canopy Leaf	· .	e: <b>(</b> e: <b>(</b>	_	Abs	sent:	O Flag	Buffer Canopy Type: S Plot 3 Leaf Type: S		Åbs	ent:	C Flag
Big Trees (?	<del>سنيب نيا</del> ء		0	$\overline{\bigcirc}$	Ol	•		Big Trees (	>0.3m\DB[4)	0	O	0 (		<b>3</b> )		Big Trees (>0.3m.DBH) (○	0	<b>6</b>	$\bigcirc$	
nall Trees (:	<0.3m DBH)	0	Ō	O	<b>(</b>	O		Small Trees	(<0:3m DB(1)	0	0	0	<b>(</b>	С		Small Trees (<0.3m,DisH)	$\bigcirc$	0	8	
oody Shrub		Ō	Ō	Ō	0	0		Woody Shrul	os, Saplingo n-5m HIGE)	0	0	0		$\supset$		Woody Shrubs, Saplings (0.5m-5m HIGH)	0	0	0	
loody Shrub		$\widetilde{\odot}$	<b>(</b>	$\odot$	Ō	Ŏ		Woody Shrul		Ō	Ŏ	<b>(</b>	+-	5		Woody Shrubs, Saplings (\$0.5m f (\$3H))	0		0	
	),5m H(GH) Forbs and	Ö	•	Ö	Ö	Ö			Forbs and	0			Ŏ (	Ō		Florbs, Fores and C	0	0	0	
Bare	Grasses ground	Ö	0	Ŏ	ŏ	$\overset{\smile}{\bigcirc}$		- Bar	Grasses e ground	$\tilde{\bigcirc}$	0	Ŏ		$\overline{)}$	~	Bare ground 🔘 🊳	0	$\circ$	0	
1 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	uer duff	0	0	0	$\overline{0}$				itter, duff	$\tilde{0}$	Ö	Ö		<b>(8)</b>		Litter duff 🔘 🕦	0	-II-4 :	0	
	Rock	0	0	0	$\overline{0}$	0			Rock	<b>6</b>	Ö	$\overline{}$		<u> </u>		Reck 🚳 🕦	-	Ō	0	
	Water	6	0	0		$\frac{\mathcal{O}}{\mathcal{O}}$			Water	6	Ŏ	0		$\tilde{}$		Water 🐠 🕕	Ŏ	ŏ	Ŏ	
S	vvater lubmerged			H		$\overline{}$			Submerged	9	0	0				Submerged 6	$\overline{\bigcirc}$	$\tilde{\cap}$	$\tilde{\odot}$	
	Vegelation		$ \bigcirc $	O	$\mathbb{Q}$	$\odot$	in that	Control of the contro	Vegetation					~~	milibed.	Vegetation   V	-	s bubl	~	<b>*</b>
<del></del>			<del></del>	<del></del>			riti tirat	a med dat					C. COR			Àgricultural & Ru		**		
	idential	1.2		an Si	1		24		Hydrolo			sors	2	1	TT Sec. as	Fill bubble if present - Plot	1 ]	2	3	Flag
iil bubbl	le if pres	ent -	Plot	1	2	3	Flag	-3	le if prese		Piot	,		3	Flag	We will be a second of the sec	0		Ŏ	. 10.5
Road - gr			<u> </u>	0	0	0			Channeliza //Road/RF	20 00 00 20		0	0	0		Pasture/Hay Rangé	0	0	0	
Road - tw				0	0	0		(IMPEDE EL	OW)			0	0	0		Row Grops	0	0	0	
Road - fo				0	0	0			vel Contro	· · · · · · ·	MACO CO	$+$ $\stackrel{\sim}{-}$	0	9		Fallow Field (RECENT RESTING	0	0	0	
Parking L	·····	nent		10	0	0		Fill/Spell	on, Drecoi Sanke	iy	<u> </u>	0	0	0		ROWCROPFIELD) Fallow Field (OLD 4 GRASS)	0		0	
Golf Cour			•	0	0	0		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	eposited.	Sedir	nent	1	0	0		SHRHBS TREES)  Nurserv	0	0	ŏ	
Lawn/Par				0	0	0		CONVEGED A	(Root Exp	nsur	7	0	0			Dairy	0		0	
Suburbar		mai		0		0		V/all/Ripr	<del></del>			0	0	0	,	Orchard	0	Ö	0	
Urban/Mu	шыатыу	<u> </u>		0	0	0	<u>Kürts</u> Nati	Inlets, O	<del></del>		1 4-1	0	0	0		Confined Animal Feeding	Ö	0	Ö	
Landfill			<u></u>	0	0	0		Point Sou	лсе/Ріре	<u> </u>		0	0	0		Rural Residential	Ō	Ö	Ö	
Dumping	<u> </u>				0	0	l-0 	Impervio	okstorm us surface	matei inpu	t .	0	0	0		Gravel Pit	O	O	Õ	
Trash Other;			<u></u>	0	0	0		(SHEETHLE Other:	0W)			0	0	0		Irrigation	Ō	O	Ō	
Other:			-1.527	0	0	0		Other:				0	0	0		Other	0	0	0	
	ustrial E	)eve	lopn	<del></del>	بنسسنساب	<del>!</del>	Ls				<del></del>	,1	المستسا		egeta	tion Stressors		ال من المناسبة	<u>ا</u>	
Fill bubb	le if pros	ent-	Plot	1	2	3	Flag	Fill bubb	le if preso	nt -	Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag
Oil Drillin	าต			0	0	0		Forest Cle	ear Cut			О	0	0		Herbicide Use	0	0	0	Laylon wildeling
Gas Wel	lls			0	0	0		Forest Se	lective Cu	i.		0	0	0		Mowing/Shrub Cutting	0	0	0	
Mine (su			<del></del>	Ō	Ō	0		Tree Plan		<del>Till t</del>		0	0	0		Trails	0	0	0	
	dergroun	ıd)		0	0	0		Tree Can	py Herbiv	огу		O	o	0	1	Soil Compaction (ANIMAL OR FILMAN)	0	0	0	
				+	0	0		(INSEG1) Shrub Lay	yer Brows	ed	<del></del> .		•	•		Offroad vehicle damage	0	O	0	
Military		-	- 1-1. - 1-1.	0	-	4	<u> -</u>		azed Gras	ses		0	0	0	<del> </del>	Soil erosion (PROMWIND, WATER,	O	0	0	
Other:	elecio este la				0	0		(OVERALL &	з"нісні Burned Fo	rest		0		0		or:overuse) Other:	0	0	0	<del>                                     </del>
Other: _		<u> </u>				0	ļ.,	Canopy			and		$\frac{1}{0}$	1	1			<b></b>		-
Other:				0	0	0		(BLACKENE					0	0	1	Other;	LO.	0	0	1

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Site ID:		MM	/C/	.11- F	PCAP MS 1147	DAT	E(	), <u> </u>	1/	06/2011				
Confirm	a fille	ed da	ıta bı	u <b>bbi</b> e i	ndicates presence and an unf	illed	ddud	le inc	dicates	absence by filling in this bub	ole			
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	О	0	O	
Water hyadinth	0	0	0		Knotweed	0	0	0	` <u></u>	Kudzu	0	0	0	
Yellow Floating Heart	0	0	0		Japanese Knotweed	О	O	0		Multiflora Rose	0	0	0	
Giant Salvinia	0	0	0		Perennial Pepperweed	О	0	0		Common Buckthorn	0	Ö	0	
Garlic Mustard	0	0	0		Giant Reed	0	0	0		Himalayan Blackberry	0	0	o	
Poison Hemlock	0	0	0		Cheatgrass	0	0	0		Tamarisk	0	0	0	
Mile-A-Minute Weed	0	0	О		Reed Canary Grass	0	0	О		Other:	0	0	0	
Birdsfoot Trefoil	0	0	0		Common Reed	0	0	О		Other:	0	0	0	
Canada Thistle	0	0	0		Leafy Spurge	0	0	0		Other:	0	0	0	
		ia :		d insurance and a		in a	3 i V.			Other:	0	0	0	
					PLOT COOR!	DINA	TES							Najarak
	3	<b>⊕</b> S	3	O E3	OW3 O Nearest pra <u>年毎月</u> Use <b>D</b> ecimal Degr	Lon	gitud	de V		and comment below) = 0.8 , 1 , 2 , 7 , 9 , 8 , 2	3			ig ]
Flag Comments						<u> </u>		<u> </u>						
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FORM		TS ( - OFFE) Reviewed by (initial):
Site ID: NWCATT- PCAP	MS 1047	TE: 0.7/06/2011
Location:	Fill in bubble(s) if plot(s) c	ould not be sampled and flag>
OAA Center ON OS OE		Plot 3
Fill in bubbles for all that apply: Canopy Type: D Deciduor	Buffer Natural Cover Strata s; E. Evergreen, Leaf Type; B. Broadleaf; N. Needle Lea	if. Absent. Ne tree cancepy. =Maderate(10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (≳75%)
Buffer Canopy Type: (a) Absent: (b) Plot 1 Leaf Type: (a) (b) Flag	Buffer Canopy Type: (1) Absent: (1) Plot 2 Leaf Type: (2) (1) Fla	Plot 3
Big Trees (+0,5m DBH)	Big-Trees (-0.5m DBH) ( ) ( ) ( ) ( )	Big Trees (>0,3m DBH) ① ① ② ① ②
mall Frees (<0.3m DBH) ① ① ① ⑥	Small Trees (<0.3m DBH)	Small/Frees (<0.3m/DBH) ( ) ( ) ( ) ( )
Noody Shruus, Saplings O O © O	Woody Strubs, Saplings (0.5m-5m HIGB)	Wondy Strubs, Saplings (0:5m-5m HIGH) (1) (2) (2) (3) (4) (5)
Woody Shrubs, Saptings (<0.5m +HIGH) (○ (○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	Woody Strinfrs; Saplings (a) (b) (c) (c) (c) (c) (d)	Woody Shrubs, Saptings O O O O
Herbs, Forbs and O O O	Horbs, Forbs and Grasses (a) (b) (1) (1)	Florbs, Ferbs and Greekes O O Ø Ø O
Bare ground 🔘 🚳 🔘 🔘	Bare ground 💿 🕦 🚳 🕥 🕕	Bare ground 🚱 🔾 🔘 🔾
Litter, duff O O O O	Litter, duff 🕑 🛈 🚳 🕥 🔘	Littler, duff O O O O
Rock ( 0 0 0 0	Rock 🙆 🔾 🔿 🔘 🔾	Rock Ø Ø O O
Water 🐠 🛈 🔘 🔾	Water 🚳 🕕 🔘 🔘	Water 🝘 🔾 🔾 🔾
Submerged    O O O	Submerged   O O O	Submerged © O O O
	t a filled data bubble indicates presence and an unit	led bubble indicates absence by filling this bubble. 🍪 🦽
Residential and Urban Stressors	Hydrology Stressors	Agricultural & Rural Stressors
Fill bubble if present - Plot 1 2 3 Flag	Fill bubble if present - Plot 2 3 F	ag Fill bubble if present - Plot 1 2 3 Flag
Road - gravel O O O	Ditches, Channelization O O O	Pasture/Hay O O O
Road - two lane OOO	Dike/Dam/Road/RR Bed: OOO	Rånge O O O
Road - four lane OOO	Water Level Control Structure O O	Row Crops O O O
Parking Lot/Pavement O O	Excavation, Dredging OOO	ROW GROP FIELDI
Gotf Course O O O	Frill/Spoil Banks O O O	SNRUBS TREES)
Lawn/Park O O O	(UEVEGE TATED)	Nursery         O O O           Dairy         O O O
Suburban Residential	Sail Lass/Root Exposure OOO	
Urban/Multifamily O O O	Walifilprap O O O	Confined Animal Feeding OOO
Landfill OOO	Inlets, Outlets O O O Point Source/Pipe CCELLIENT COD SYSTEMMALERY O O O	Rural Residential OOO
Dumping OOO	Impervious surface input	Grävel Pit O O
Trash         O O O           Officer         O O O	(SHEETFLOW)	Irrigation O O
	Other	Other: OOO
Industrial Development Stressors		etation Stressors
Fill bubble if present Plot 1 2 3 Flag		ag Fill bubble if present - Plot 1 2 3 Flag
Oil Drilling OOO	Forest Clear Cut OOO	Herbicide Use OOO
Gas Wells OOO	Forest Selective Cut O O O	Mowing/Shrub Cutting O O O
Mine (surface)	Tree Plantation OOO	Trails OOO
Mine (underground)	Tree Canopy Herbivory	Soil Compaction OOO
Military 000	Shrub Layer Browsed	Offroad vehicle damage OOO
Other: 000	Highly Grazed Grasses 0 0	Soil erosion (PROM WIND, WATER)
	Recently Burned Forest	Other: O O O
Other: 0 0 0	Recently Burned Grassland	Other: 0 0 0
Other: 0 0 0	(ELACKE(NPQ))	

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

Site ID:			UM.	13-1	17 115 1194	DAT	ک =	<u>').                                     </u>	[][	) 6,12011	6. <u>C.</u>			
<b>®</b> Confirm	a fille	ed da	ta bi	a <b>bbi</b> e i	ndicates presence and an unf	illed	bubbl	e ind	ficates	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 Watermilfoរ์ไ	0	0	0		Purple Loosestrife	0	0	0		Johnson Grass	0	0	0	
Water hyacinth	0	0	0		Knotweed	0	0	0		Kudzu	0	ري ا	0	<del></del>
Yellow Floating Heart	0	O	0		Japanese Knotweed	0	0	0		Multiflora Rose	C	0	<b>@</b>	
Glant Salvinia	0	0	0		Porennial Pepperweed	0	0	0		Common Buckthorn	0	ō	0	<del></del>
Garlic Mustard	0	0	0		Giant Reed	0	0	0		Himalayan Blackberry	0	0	0	
Poison Hemlöck	0	О	0		Cheatgrass	0	0	0		Tamarisk	0	О	0	<u></u>
Mile-A-Minute Weed	0	0	O		Reed Canary Grass	0	0	0		Other:	0	0	О	reference
Birdsfoot Trefeil	О	0	0		Common Reed	0	0	0		Other:	О	O	0	·
Canada Thistle	0	0	0	- Land Statement	Leafy Spurge	0	0	0		Others	0	0	0	manager de minimission de la constitución de la con
		- <u> </u>	11 12							Office: 2	0	0	0	· · · · · · · · · · · · · · · · · · ·
					PLOT COORE	DINA	TES				<del>1977 V.</del> 21,770		garagea.	
Latitude N	Vorth	<u>y</u>			역구 일 공 Use Decimal Degr	11/20/19/20	and the second		/est Z	S.8.1 <u>8.0.6.1</u>	3			
Flag Comments				Market State of State				***************************************	i jida					
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			11.5									<del></del>		





and CVS Field Guide OVER	*Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide	Minutum required fields in Bold and Underlined
		Authority: G&C Pub Date: 1998
	Photo Nes.:	TAXONOMIC STANDARD
	Сашета No.:	lichen
(SD)	Intensive modules: 2, 3, 8, 9 (EDIT IF MODIFIED	bryo
	<u>Depth:</u> (1-5):	vascui. n/a
	□ Stents present Plot size stems: O (ha)	high modera low not simpl
	C Stems not sampled on this plot C Stems absent	TAXONOMIC ACCURACY
1	Plot size for cover data: O (hectares)	c Hurried data
	GPS File Name: (147A	□ Accurate may still provide good
	Coord. Accuracy: Am oft + 3	D Very thorough how much effort put into sampling. Hurried plats
	Longitude: 81, 79859	Effort Level: subjective evaluation of
3,	Latitude: 41, 29807	SAMPLING QUALITY*
4:3	Datum: 異NAD83/WGS84 ロNAD27	□ Perm. water □ Paved □ Slope □ Safety
15+ TO C	□ Other (specify)	PLOT NOT SAMPLED: 5 Other
Retincte - Fairly homogenous in all directions flot	■ LavLong ⊃ UTM ⊃ StatePlane 📉 deg ⊃ deg min	** Roles: Co-leader, Asst., Golde, Owner, Toxonomist, etc.
Layeut 2x5	Coordinate system: Coord, Units	
	x = O y = O  (base of plot $x=0, y=0$ )	
content), Rationale (why here), and Veg Characterization (description of community,	GPS location in plot $x=0$ to 5, $y=1,0,+1$ ):	
□ Transect component □ Systematic (grid) □ Capture specific feature □ Other	Source of coordinates DMAP GPS	
Plot placement:   Representative = GRTS = Random = Stratified Random	If data not public why?	Plot leader
with direction	Reason:	Party Role**
) allow or man	o Fuzz 100m to Fuzz 250m to Fuzz 500m	End date (if > 1 day):
3	Check one:   Public data   Private Data	Date (mnr/dd/yyyy): / /
100	Data Confidentiality:	Level 5 (nested corners sampled)
	X-axis Bearing of plot: [108]	Level 4 (no nested corners sampled)
plan	Landowner:	Plot No.: 1147
2.16) C 3 4 3 4 4	Local Place Names:	K POL I NAME:
	Quadrangle:	Project Name:
	State: OH County:	Project Label: PCAP
3	ATION	ા≒
Page 1 of 3		-
	CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	CLEVELAND METROPARKS Plant Co
<i>A</i> .		

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	ty Assessment Progr	am - Background Data	Sheet		(A) Clevoland Motroparks	Metroparks
Project Label:	et: PCAP	Project Name:		Plot No.:		Page 2 of 2
CLASSIFICATION		STAND SIZE	DISTURBANCES	ES		
(FIT = excellent, good, fair, poor, CONF = high, med, low)	Fit and Confidence	□ >i,000 x plot size	type*   severity**	** yrs ago % of plot	plot description	
Hvdrogeomorphic class (WETLANDS ONLY):		n > 100 x plot size	Human			
© DEPRESSION	FiteConfe	□ 16-100 x plot size	Natural			
E IMPOUNDMENT E Beaver in Human	Fit=Conf=	□ 3-10 x plot size	Fire			
n RIVERINE of Headwater of Mainstern of Channel	Fit=Conf=	□ 1-3 x plot size	Cut			
☐ SLOPE (ground water hydrology or on a physical slope)	FireConf=	o < plot size	Anımal			
🛭 FRINGING 🗈 Reservoir 🗈 Natural Lake	Fir Conf	DRAINAGE*	Other			
п COASTAL (specify subclass)	Fit=Conf=_	п Excessively drained	**L=low, ML=med	low, M=med, MH=1	**L=low, ML=med low, M=med, MH=med high, H=high, VH=very high	
п ВОС (strongly, moderately, weekly ombrotrophic)	Fit= Conf=	□ Somewhat excessively	Current Land Use:			
Ohio EPA VIBI Plant Community Class (WETLANDS ONLY);	ONLY):	□ Well drained	Former Land Use:		-	
□ FOREST ⊑ swamp forest ⊑ bog forest ⊐ forest seep	Fir=Conf=	□ Moderately well dr.	HYDROLOGIC REGIME*	C REGIME*		
⊂ EMERGENT ⊑ marsh □ wet meadow ⊂ open bog	FireConfe	C Somewhat poorly dr.	Dipland (seldom flooded)	(papcol	E Intermittently flooded	
o SHRUB o shrub swamp o tall sh. bog c tall sh. fen	Fi=Conf=	a Very poorly dr.	□ Intermittently/seasonally saturated	sonally saturated	o Seminermanently ilooded	
MODIFIED NATURESERVE CLASS*		n Impermeable surface	(seldom flooded)		□ Permanently flooded	<del> </del>
CODE (on separate form):	FireConf=	SALINITY	□ Permanently/Sem	□ Permanently/Semipermanent, saturated		
COMMUNITY NAME:		c Saitwater	(dry <1/yr, seldom fleoded)	n fleoded)		hly
		a Brackish	□ Occasionally flooded (<1/yr)	ded (<1/yr)	= Tidal/Setche flooded treesular	18
LANDFORM TYPE*;		o Fresh	□ Temporarily flooded	pe	(c.g. wind, storms)	
		⊇ Upland (n/a)			n Unknown	
HOMOGENEITY	Additional notes & dia	Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)	of plot to the stand, s	uccessional status, m	aturity, etc.)	
c Homogeneous						<del></del> -
a Compositional trend across the plot			as .			
a Conspicuous inclusions						
🗅 Irregular/pattern mosaic	~		4			
				4.		
						<del></del> -
						<del>-</del>



Perk at Royalview lot (Battom) and hite in