CLEVELAND MET Project Label:	ROPARKS Plant Community Asse		Quality Control Form © Green and Metroparks: 3440 Date Sampled: 7/29/13 Lead: 610
			0
Parking/Access outside	de of Park Boundaries:	100 D	Comment required if item answer is NO
Field journals comple			If yes, write details in Comments section below
Site sketch made on 1	<u> </u>	~	
Check cover page	X-axis Bearing of plot recorded	(Y) N	
Check cover page	GPS coords. Recorded		
	North direction recorded		
	Photographs taken?		
Plot No., Date agreem		(Y) N	
Header data complete			
	d in all Intensive modules	Y N	
Browse Level By Spe		400	
Woody stem quality c			
		OY N	
Invasive plant quality Ash trees mapped	CORROT CHECK	Ŷ N	
		ÝN	
Cover by Strata? (con		O N	
	with matching plot #.	₩ N	
	atasheet with initials and number	Y N	
Vouchers labeled on c	offection bag	Ý N	·
Pink flags removed	•	V N V N	
Data sheet QA before			
Common equipment re	eturned to tub.	Ý N	200
Data sheets scanned?		8/2/13	Enter date to left By
Final data sheets scan			Enter date to left
Buffer Widths measur	ed?	Y N	116 819
Web Soil Survey		Øи	&c
Voucher Location	Refrigerator	Y N	
# vouchers collected)	Press (#)	<u> </u>	Enter number to left
C11-170	Drier	Y N	
5)	Identified	Y N	
U	Mounted	Y N	
	Thrown away	YN	
9			
GRTS point verificat	ion: Is plot sampleable?		
√g Yes	Original GRTS point is sampleable		
□ No	Original GRTS point lands in a non-s	ampleable area (fi	ll in category below)
	☐ Point falls in a water (i.e. river, la		
	☐ Managed mowed area (i.e. golf o	course, picnic area, righ	(-of-way)
	Paved area (i.e. parkinglot, road)		
	 Unsafe to sample (i.e. steep slope) Other)	
dditional Comments			



cVs Field Guide ack. OVER	*Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide	Minimum required fields in Bold and Underlined
through must made and a good amount of Sassafras		Authority: G&C Pub Date: 1998
Here - spanse, un abundance of try black chance	□ Transect component	TAXONOMIC STANDARD
	Plot placement: 7GRTS - Representative	lichen
into residuals.	Photo Nos.: 2542	bryo
Shrut - mostly sugar maples some spicebush shade	Camera No.: <u>CS</u>	vascul. × n/a
black chary and a few red maples	Intensive modules: 2. 3, 8, 9 (EDIT IF MODIFIED)	high modera low not smpl
and sycamore. Also had a good amount of	Depth: (1-5): +	TAXONOMIC ACCURACY
Veg. Char: Camppy - A mix of predominantly sugar more	X-axis Bearing of plot: [17] 0	n Hurried data
Kanonale: GRIS	Plot size for cover data: (hectares)	Accurate may still provide good
Just 666 - The trail to the east.	GPS File Name: 344CA	Very thorough how much effort put into
, विटि	Coord. Accuracy: Spm of 8 6 +-	Effort Level: subjective evaluation of
should be marked as you cross the little	Longitude: 81, 53216	SAMPLING QUALITY*
ara llel	Latitude: 41, 55459	□ Perm. water □ Paved □ Slope □ Safety
- (x = (y = -) (base of plot x=0, y=0)	PLOT NOT SAMPLED: a Other
3,	GPS location in plot $x=0$ to 5, $y=-1,0,+1$):	** Roles: Co-leader, Asst. Guide, Owner, Taxonomist, etc.
	Datum: ■ NAD83/WGS84 □ NAD27	S. Eyechbach
land more at Habland Receive District	□ Other (specify) ■ m □ ft □	A. Schraufnagel wood
Layout 2+5	■ Lat/Long □ UTM □ StatePlane ■ deg □ deg min	C. Devono Woody
dominants, strata, BROWSE). Additional notes in space on back.	Coordinate system: Coord. Units	T. Lacerda assist
ls), Location (directions and landscape rization (description of community	Source of coordinates □ MAP ■ GPS	S. Catella Plot leader
Key: (0,0) point point with direction permanent posts	If data not public why?	Party Role**
4 3 4 3	Reason:	End date (if > 1 day): / /
#1 #2 #3 #4 #5	□ Fuzz 100m □ Fuzz 250m □ Fuzz 500m	Date (mm/dd/yyyy): 07/29/2013
2	Check one:	■ Level 5 (nested corners sampled)
2 1	Data Confidentiality:	Level 4 (no nested corners sampled)
#8	CMP	Plot No.: 3440
3 4 3		
Spicebush	Local Place Names: Highland Reserve	Plot Name: Suca burnel
<u> </u>	angle:	Project Name: 01FC2013
1	State: OH County: Chulahogo	Project Label: PCAP
	LOCATION	GENERAL INFORMATION
d Data Sheet (9) Clurulum Mulrum Market Page 1 of 2	CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	CLEVELAND METROPARKS Plant Co

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet CODE (on separate form): ☐ Conspicuous inclusions M Homogeneous COMMUNITY NAME: MODIFIED NATURESERVE CLASS* HOMOGENEITY Sycamore Woodland 103 □ Irregular/pattern mosaic □ Compositional trend across the plot Project Label: Fit=__Conf= □ Upland (seldom flooded) HYDROLOGIC REGIME* Project Name: UFC2013 □ Intermittently flooded Other DISTURBANCES Former Land Use: LAK Current Land Use: CMP **L=low, ML=med low, M=med, MH=med high, H=high, VH=very high Fire Natural Human Animal severity** 3 yrs ago % of plot 100 Plot No.: 3440 00 browse and some sma trash, edge effects from description (Clumbund Multuperlas Page 2 of 2 PULLYOWS.

SE 9/7-13 n Brackish SALINITY* (by default unless plot is a wetland) Fresh □ Saltwater Temporarily flooded gjOccasionally flooded (<1/yr) ☐ Permanently/Semipermanent. saturated ☐ Intermittently/seasonally saturated (dry <1/yr, seldom flooded) (seldom flooded) □ Tidal/Seiche flooded daily □ Permanently flooded □ Unknown ☐ Tidal/Seiche flooded irregular □ Tidal/Seiche flooded monthly □ Semipermanently flooded (e.g. wind, storms)

Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)

Blamas looked good in all directions but sideline opposite the stake was boom too long. Did not adjust since correction looked way off. Herb layer was depauperate and consisted mostly of try seedlings. The bird trail followed one sideline all the way up, doubt whether the stake or pins will be there for return trp.

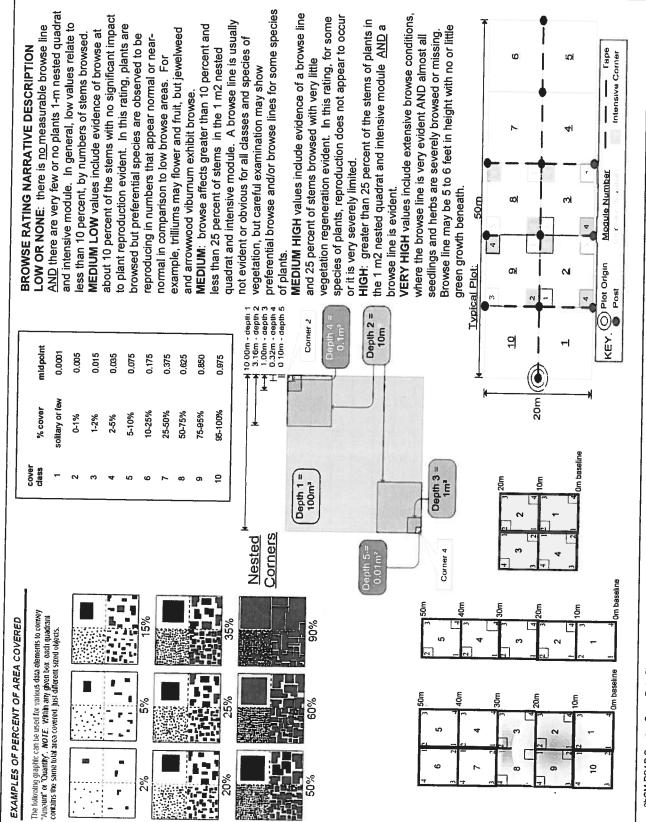
Pr	CEVELAND ME	CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a	nent Program Specie	S Cover Data		Plot no.: 2440		Page	1 of 2
T _o	Total modules:	(0	Intensive modules:	H Plot	Plot configuration:	2×5		Plot area (ha):	
			Estimate for each	mod comer mod	comer mod come	corner mod corner mod	corner mod corner	ner mod corner, mod corner	nod comer mod come
	-	Br = Browse Level. Use cover classes to	intensive module:	depth cov depth	cov depth cov	depth cov depth	cov depth cov	w depth cov depth	depth
활약	Cieveland Metroparks	describe amount of browse per species over	%open water %open water) (0 0	00	
			%unveg. ground (bare soil)	1 5	1 4		カ	1 2	のは、
Strata	Strata - Cov. entire plot	lot	%unveg. litter (bare litter)	1 90	198	1 100 200	9	1 9	
-	S H (F)(A) Br	Br Species	c Voucher#	depth cov depth	cov depth cov	depth cov depth	_	depth cov	apth cov depth cov
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6	12	Prunus seration		464	(V)	(V)	4-4	4642	7
6	3	10 Acer rubrum		372			12		9 0
	2	Fraxion pronsulvania		2	Sugar Uta		R	21	
		Clude Octuber Streets		21					
	2	Vitis Sp. (Se'edling)		22	2	i	2 2	22	
	7, 2	BLINDER benzon		2	211	2		24	2
6	2.	Liriodendron tulipitea		2	8 4 8	2			
	2	Prenanthus SP		72	22	2	22	22	2
α	2	Lo Matanue occidentalia		16	46	4 4	72		
	2	Fleosa multiflora		ト					
	2	Solidogo calsia		12			2	.1.2	
	2	Polygonatum pubescens		22					
	2				32	12 4	22		22
	=	Frazinus Sp. (seedling)	SRE 11-6-13		W -				
	2	mysychopenojich	X SJC-175		A	1 4	2		
	2	Rubits Sp. (seedling)			A	1 4	2		
	7	Bramnus frangula			¥	4	2	21	
	2	Carex Swanii				4	2		
	_	Bidens Sp.				ΰ			ŲĀ.
	12.					2			
		18-				2	-		
	نې	Rubus pensylvanicus				1 2	72	23	
	۲,		a			7	2	2 1	
	7	Arisacka triphullum				1 2	ت 2	3 2 1)

Natural Resource Management FORM NR/2010-02a

preferential browse and/or browse lines for some species MEDIUM HIGH values include evidence of a browse line VERY HIGH values include extensive browse conditions, AND there are very few or no plants 1-m nested quadrat vegetation regeneration evident. In this rating, for some species of plants, reproduction does not appear to occur about 10 percent of the stems with no significant impact HIGH: greater than 25 percent of the stems of plants in quadrat and intensive module. A browse line is usually the 1 m2 nested quadrat and intensive module AND a Browse line may be 5 to 6 feet in height with no or little to plant reproduction evident. In this rating, plants are MEDIUM: browse affects greater than 10 percent and and intensive module. In general, low values relate to LOW OR NONE: there is no measurable browse line example, trilliums may flower and fruit, but jewelweed seedlings and herbs are severely browsed or missing. MEDIUM LOW values include evidence of browse at where the browse line is very evident AND almost all browsed but preferential species are observed to be reproducing in numbers that appear normal or nearess than 10 percent, by numbers of stems browsed not evident or obvious for all classes and species of Intensive Corner ωl IO) **BROWSE RATING NARRATIVE DESCRIPTION** less than 25 percent of stems in the 1 m2 nested and 25 percent of stems browsed with very little normal in comparison to low browse areas. For vegetation, but careful examination may show and arrowwood viburnum exhibit browse. 4 М 2 or it is very severely limited. Module Number green growth beneath. browse line is evident. σd of plants. Plot Origin Ø α Typical Plot Post 10 00m - depth 1 3.16m - depth 2 0 1.00m - depth 3 0.32m - depth 4 0.10m - depth 5 Depth 2 = Corner 2 10m2 KEY:, 9 midpoln(0.0001 0.015 0.975 0.005 0.035 0.175 0.375 0.625 0.850 0.075 20m olitary or few 95-100% 25-50% 50-75% 75-95% % cover 10-25% 5-10% 2% 1-2% 2-5% Om baseline Depth 3 = cover Depth 1 = 100m² 턴 Corners Nested Dapth 5 = 0.01m² Corner 4 Om baseline ê 30m ē The following graphic can be used for various data elements to correst Yansount' or "Quantist", NOTE: Within any given box each quadrant contains the same total area covered. Just different sized ulijects. %06 EXAMPLES OF PERCENT OF AREA COVERED 35% Om baseline 20m 0 2% S 2 0 P 20% 2% r

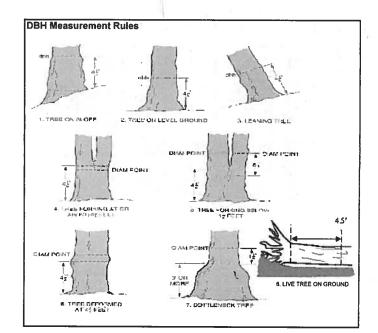
2bCM PCAP Species Cover Data Sheet Back Page_ver 1.3.ppt

	Project Label:	Project Label: PCAP Project name: 01 Ec 2-01 3	Project name: <u>のほんみの</u> ろ	01 802	510-		Plot no.: 3440	340	10				Ġ		•		
	Total modules:		Intensive modules:		Plot configuration:	figura	tion:			1	Plot	Plot area (ha):	(ha):			-	
	>			mod comer	corner mod corner mod corner mod corner	mod	comer mod	comer	mod co	mod comer mod	d corner	er mod	come	mod comer mod comer	comer	mod	come
	3		Estimate for each							-						D	Z Z
	Cleveland	Br = Browse Level. Use cover classes to	%open water	\	30						-		\rightarrow				
	Metroparks	entire plot	%unvegetated open water			_	-					_1					
			%unveg. ground (bare soil)	<u>-</u>					-	-	Н	1					100
	Strata - Cov. entire plot		%unveg. litter (bare litter)	3		-	-		-	+	+		t	T			
	T S H (F)(A) Br	Species	c Voucher#	depth cov	depth cov	depth	cov depth	V00	depth	cov depth	COV	depth	COV	depth	co _V	depth	Ş
		Frentites hieracifolia							7				48				
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2bCM PCAP Species Cover Data Sheet Back Page_ver 1.3.ppt

5	EVELAND METROPARKS Plan	ζ Έ	mmunity	Assessn	nent Pro	gram	Natural I	Woody S	tem Da	a Sheet						•	
	Project Label: PCAP Project Name: 0 EC 2013 Plot No.:		PCAP		Project	Name	0 E	Cao	S	Plot No. 344C	448	0	Page	-	of	Miciene	Gleveland Metroparks
	Explain subsample (additional room on back)	on bac	Q												!		
		\dashv		# stems	% sub	#	size class	size class (cm) woody stems >1.4m	y stems >	1.4m							
mod #	# species	ი	voucher#	browsed	or super sample	clumps	፳ -	1-<2.5	2.5-<5	5-<10	3 10 - <15	15 - <20	20 - <25	25 - <30	30 - <35	35 - <40	>40 (record each tre
\dashv	Platanus occidentali																60,5
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لع	ROSA MULTIFLORA			•													
وو	Aver rubrum																52.4
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ي	Platanus occidentalis			ě.						÷					•		
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t	Platanus occidental	4															Lakh
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T.	Magnolia acuminato	9															۶۱° ه
E	Prunus serotina																10,44
Л	Ctanding do ca	_										0					



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 10















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.



B

C

D

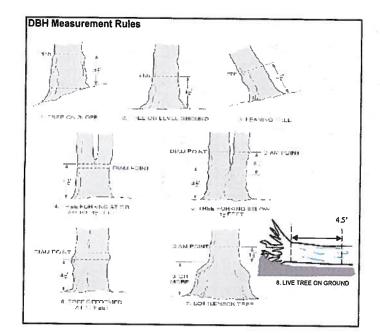
E

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.

C	e LEVI	CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Project Label: PCAP Project Name: () EC 2013 Plot No.: 2 Explain subsample (additional room on back):	Community , PCAP back):	Assessm	e nt Pro ect	gram N Name:	nt Program Natural Woody Ste Project Name: つしもくえの3	Voody S	Stem Da	ata Sheet Plot No.:344	3440		Page:	2)	of O	West	Serveland Metropains
	$-\parallel$			# stems 0-1.4m	% sub	shrub	size class (cm) woody stems >1.4m	(cm) woo	dy stems	>1.4m	Un Un	ø	7	œ	٠	10	±
M 3	_ i	A Car e de la crista	c voucher#	browsed	sample	clumps	<u>7</u>	1-<2.5	2.5-<5	S y	0-515	15-<21	275 - 07	25- 30	30 - <35	35 - 240	() and a summary of the
3/10		Platanus occidentalis															47.3,51.0
4		frunus serotina															
		Sassafrasalbidum													6		
4	5	Lirio dendron tulipitora															63.5
Cal	S	Lobinso oscudancari	2	٥								-					
N	6	Acer sarcharum				1			9		•						
1		Platanus occiolentalis															57.1,40.5
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+	7	Rubu Spensylvanious		•						9 4							
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1,	0	Ulmus americana										•				•	
L	<u> </u>	IN BERRERIC THINI REPORT				•											



Woody Stem Deer Browse

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В

С

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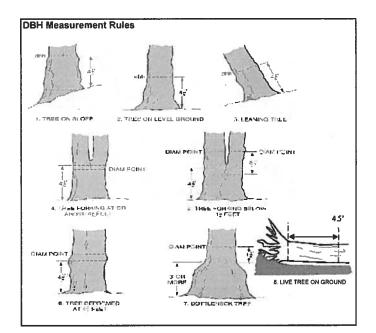
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_	CLE	CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet	Con	nmunity ,	Assessm	ent Pro	gram N	atural M	loody S	tem Dai	a Sheet)	.	"	
		Project Label:	ס	PCAP		Project	Project Name:	OI E	EC 2013	W	Plot No.:	Plot No.: 3440	0	Page:	a	으,	Cievel	Cleveland Metroparks
		Explain subsample (additional room on back):	back)															
			\dashv		# stems	% sub		size class (size class (cm) woody stems >1.4m	y stems >	1.4m	`	,	,	.]	·	;	
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Woody Stem Deer Browse

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Natural Resources Management FORM 2010-04a

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)



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

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

CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover and Earth Surface
Project Label: PCAP Project Name: 01 EC 2013

Plot No.: 3440

(A) Observed am d Weeks painting Page: 1 of 1

in (I In clip plots (32x32 cm) from corners. I and 3 in each intensive module. Required for VIBI-E score calculation. C%-check when collected	from corners 1 and score calculation. C	3 in each	intensive when
Module #	C7	Corner Corner	Corner

CLASSIFICATION		
(FIT = excellent, g Fit and Confidence		
Hydrogeomorphic class (WETLANDS ONLY):		
□ DEPRESSION	7	Conf=
D IMPOUNDMENT D Beaver D Human	7	Conf=
DRIVERINE DHeadwater DMainstein DChannel	F	Conf=
□ SLOPE (ground water hydrology or on a physical slop)	7	Conf=
□ FRINGING □ Reservoir □ Natural Lake] 	Conf=
COASTAL (specify subclass)	7	Conf"
BOG (strongly, moderately, weekly ombrotrophic)	File	Conf=
Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):	NLX):	
□ FOREST □ swamp forest □ bog forest □ forest seep	Fire	Conf=
□ EMERGENT □ marsh □ wet meadow □ open bog	ੂ 	Conf=
SHRUB a shrub swamp a tall sh. bog a tall sh. fen	7	Conf=

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

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

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

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

998	188	3	മ	mod#						
				comer						===
0	O	0	0	(count)	lxlm	depth 3		tussocks	no of	
0	0	0	0	(count)	3.16x3 16m	depth 2	uplands (Tip-Ups)	hummocks	no of	
Q	O	g)	رو	(count)	10x10m	depth 1		depressions	по пасто	
4	C	S)	ව ව	(count)	10x10m	depth 1		(2-12 cm)	cw.d	C.W.C 000
	000	()	Е	(count)	10x10m	depth 1		(12-40cm)	c.w.d	I I Dieces Will I
0	0	0	Ø	(count)	10x10m	depth I		>40 cm	c w.d	C.W.d codit for pieces with minimum in length
ע	と	W	W	(rank)	10x10m	depth 1		interspers	nucrohab.	
0	0	0	0	(rank)	10x10m	SLOPE			microhab	

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

+315 degrees	+270 degrees	+225 degrees	+180 degrees	+135 degrees	+90 degrees	+45 degrees	At aspect	
WN	W	SW	s	SE	E	NE NE	z	
		22						LFI*
								TSI**
	away	eve of person	recorders eye to	TSI measure	angles formed by local slopes. For	horizon TSI is	LFI is angle of	

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

CROWN COVER (DENSIOMETER) Make 4 readings per module facing N. S. E. W. Place doi count in corresonding space (4 dots per gnd square)

٥	8	3	14	Module	contraction distraction
9	9	0	13	z	
10	113	5	8 E	w	Annually part but alone
لع	=	9	9	m	
	12	8	7	=	

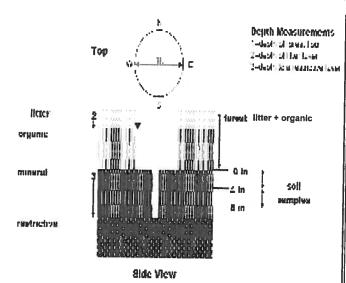
COVER BY STRATA

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.



LOWER PENNSYLVANIAN	A Company of the Comp	Poltsvi∮e Group*
	Logan Formation*	Virten Sandstone Member Altensville Conglomerate Member Byer Sandstone Member
$\ $	3	Berne Conglomerate Member
MISSISSIPPIAN	Cuyuhogu Formsálon*	numerous named members; Black Hand Sandstone Member is one of the mure perestent units
		Sunbury Shale*
		Berea Sandstone*
		Bedford Shale*
IAN		Cleveland Member
UPPER DEVONIAN	Otto Stele	Chagrin Member*
JAN		Huran Member*

FIGURE 3-20.—Generalized section of Upper Devoman, Mississippian, and Lower Pennsylvanian formations in northeastern Ohio. Asterisks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses indicated are proportional. The term "Waverty is used in the older literature to refer to Mississippian rocks in Oxio. Some geologists use the European term "Caroboniferous," which enouppases 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 sanistone that is fairly widespread but discontinuous See Hyde (1953), Hoover (1960), and Colins (1979) for more information on Mississippian rocks in Ohio. See figure 3-16 for explanation of rock types.

Project label: PCAP | CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet 6a | Project label: PCAP | Project Name: 0 | E C 2013 | Plot No.: 3 4 4 0

(Cleveland 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 # 8 (one per entire plot)

5 cm

2

W

20 cm matrix color matrix color 45 texture* ydr. cond.*** oxid roots exture* oxid roots mottle. edox features** edox features** mottle ottle color ttle color 0 I S (M) D $\left(\mathbf{z}\right)$ Z Z Z

refer to texture classes on reverse side

hydro. cond.***

S

N)

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

Notes: include evidence of earthworms (worms, mindundated S=saturated M=moist D=dry

astings, middens)

throughout plats EXCEDENTE WORM Secolo all mods many during 75cm

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

Soil Series/Type: Ocf Soil Collection Moduld Hortzon (A, B, C) Somewhat poorly dr. n Excessively dr. Depth to rest. Layer: 20 to 40 in Soil Series Source Ohio Soil Survey Well drained Parent Material: Presiding in Leathered from Shak .3,8,9 composited andform type: Drainage wews Somewhat excessively n Moderately well dr. Uery poorly dr. Brecksvil loum loum もしもと 76.2cm

□ Impermeable surface ac 8/9

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

T.	מכ	3	ع ا	mod#
	7.4	かみ	3.00	1 litter+ organic dept # (cm)
1	7.4	4.4	3.P	h 2 litter depth (cm)
) (5	0	Ø	water depth (cm)
(20	054	730	730	depth sat soil (cm)

9	Roud/Trail Other	neter meter	*** >5 cm in diameter
5	Bare Soil	5 ·	**Boulder => 10 in
0	Water	1/16-10"	* Gravel-Cobble = 1/16-10*
0	Bryophyte- Lichen	0	Bedrock
0	Duff (Ferm.+ Humus)		Boulder**
95	Litter	ָר ה	Gravel-Cobble*
10	Fine Woody Debris****	6b	Mineral Soil
4	Coarse Woody Debris***	0	Histosol
percent	(Each ≤ 100%)	percent	(Sum = 100%)
	Ground Cover	Surface*	Underlying Earth Surface*
	ND COVER	E & GROUP	EARTH SURFACE & GROUND COVER

Bootleg unsanctioned ☐ Bridle

○ Hiking sanctioned

7

Gravel

ecord type and cover for each TRAIL INFORMATION:

Υpe

%Cover

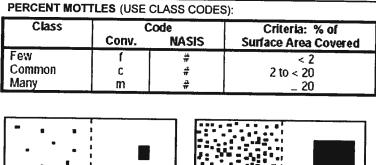
All Purpose

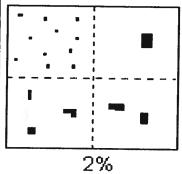
COVER BY STRATA estimate using midpol	COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13	,ex:3, 8, 13
Strata	Height Range (m)	Total Cover (%)
Tree	5	93
Shrub	5.5.	3
Herb	0 - 5	8
(Floating)*	-	\Diamond
(Aquatic)*	•	0
nooted and fl	 rooted and floating or slightly emersed 	rsed

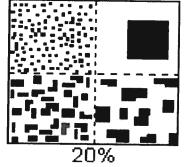
< plot size	1-3 x plot size	3-10 x plot size	10-100 x plot size	> 100 x plot size	>600 x plot size	TAND SIZE		
							-	

SEE BACK OF PAGE FOR "TYPICAL"STRATA
DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE

** submersed, most plant mass below surface







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

0= Organic

1= Loamy

2= Clayey

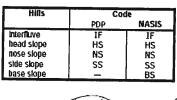
3= Sandy

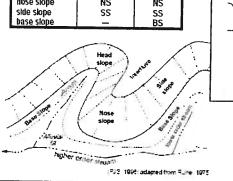
4= Coarse Sand

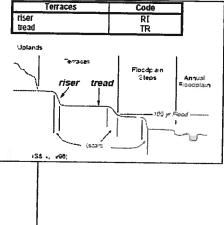
9= Not measured - make plot note

Position

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







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

Code

summit shoulder backslope footslope toeslope	SU SH BS FS TS	
Su Sr 9 5s	Fs Ts Ts ABURNAT	Sh Su

HYDROLOGIC REGIME Modified from Grossman et al 1998. (Frequency and duration of flooding.)
UPLAND: Not a wetland. Very rarely flooded.

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

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

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

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

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

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

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

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

FORM B-1: BUFFER SAMPLE Site ID: PCAP FC 3440														LOT	S (F	ront)		Review	red by (initial)	:	(
Site I	D:	PCI	AP	Ŧ	C	6	344	0								107						3	
Locati	on:								Fill	in b	ubb	le(s)	if p	lot(s	s) cou	ıld not be	sample	ed a	nd fl	ag -	→		3
O AA	enter	7	N	0	S	O	0	W	OP	lot '	1	01	Plot	2	OF	Plot 3		TOP !				<u> </u>	
					_				Buffer							Nh							
Strata Section	es for all tr on: Fill in a	approp	riate o	nopy cover o	ı ype: :lass t	oubble D = L	eciduou for eacl	s; E = Evergre n strata type fo	en. Lear i or each plo	ype: E t. 0 = /	Absen	t; 1 = \$	r, N = 1 Sparse	Needie (<10%	e Lear. A 6); 2≃Mo	Absent: No tree oderate(10-40	e canopy. %); 3 = Hea	vy (40	-75%);	4 = V	ery H	eavy (>75%)
Buffer	Canopy	у Тур	e: 🌘) () At	osen	t: ()	Buffer	Canopy	/ Тур	e: 🕝) () At	sent	: O	Buffer	Canopy	Туре	e: 🕞	0	Ab	sent	Ö
Plot 1	Lea	f Typ	e: ((i) <u>(</u>			Flag	Plot 2	Lea	f Typ	e: 🕞	<u> </u>			Flag	Plot 3	Leaf	Туре	e: (0)	0			Flag
Big Trees (>	0.3m DBH)	0	0	②	0	0	I	Big Trees (>	0.3m DBH)	0	0	2	0	0		Big Trees	(>0.3m DBH)	0	0	0	0	0	
Small Trees (<	0.3m DBH)	0	0	0	0	0		Small Trees (<0.3m DBH)	0	0	2	0	0		Small Trees	(<0.3m DBH)	0	0	0	0	0	
Woody Shrubs (0.5m-	s, Saplings 5m HIGH)	0	0	②	0	0		(0.0 0				0	0	0			ubs, Saplings im-5m HIGH)		0	0	0	0	
Woody Shrubs	, Saplings .5m HIGH)	0	(1)	0	0	0						0	0	0			ibs, Saplings <0.5m HIGH)	0	0	0	0	0	
	orbs and Grasses	0	(4)	0	0	0		Ulasses U				0	0	0		Herbs	Forbs and Grasses	0	0	0	0	0	
Bare	ground	0	(0	0	0		Urassus				0	0	0		Bar	re ground	0	0	0	0	0	
Lit	ter, duff	0	0	0	0	(Litter, duff 0 0					0	0		L	itter, duff	0	0	0	0	0	
	Rock	(0	0	<u></u>	0			Rock	0	0	0	0	Ō			Rock	0	0	0	0	0	
	Water	(4)	0	0	0	0			Water	0	0	0	0	Ō			Water	0	0	0	0	Ō	
	bmerged egetation		0	0	0	0			ubmerged egetation	0	0	0	0	$\overline{\odot}$								0	
			\sim	_			rm that				tes pi	resen			unfilled	bubble indic					s bub		®
	dential			200					Hydrolo	est de la	Agricult		MB	11100			Market .						
Fill bubble	if prese	ent - I	Plot	1	2	3	Flag	Fill bubble		1000		1	2	3	Flag	Fill bubble	e if preser	nt - Pi	lot	1	2	3	Flag
Road - gra	evel	ii.		0	0	0		Ditches, Channelization					0	0		Pasture/Ha	зу		THE	0	0	0	
Road - two		tar.		0	0	0		Dike/Dam/Road/RR Bed (IMPEDE FLOW)					0	0		Range		NA		0	0	0	
Road - fou	ır lane			0	0	0		Water Level Control Structure					0	0		Row Crops				0	0	0	
Parking Lo	ot/Pavem	nent		0	0	0		Excavation, Dredging					0	0		Fallow Fiel		RESTI	NG	0	0	0	
Golf Cours	se		10 5	0	0	0		Fill/Spoil Banks					0	0		Fallow Fiel	d (OLD - GR	ASS,		0	0	0	
Lawn/Parl				0	0	0		Freshly Deposited Sediment (UNVEGETATED)					0	0		Nursery				0	0	0	
Suburban	Residen	itial	W.	0	0	0		Soil Loss/F		sure	1	0	0	0		Dairy	Mark to the			0	0	0	
Urban/Mu	ltifamily		918	0	0	0		Wall/Ripra	р	N.		0	0	0		Orchard				0	0	0	
Landfill				0	0	0		Inlets, Out		MIL		0	0	0		Confined A	nimal Fee	eding		0	0	0	
Dumping		F		0	0	0		Point Sour (EFFLUENT C	OR STORMV	VATER	3)	0	0	0		Rural Resi	dential	H		0	0	0	
Trash			114	0	0	0		Impervious (SHEETFLOV		input		0	0	0		Gravel Pit				0	0	0	
Other:				0	0	0		Other:				0	0	0		Irrigation				0	0	0	
Other:				0	0	0		Other:				0	0	0		Other:				0	0	0	
Indu	strial D	evel	opm	ent S	Stres	son	S						Habit	tat/V	egeta	tion Stress	sors						
Fill bubble	if pres	ent - l	Plot	1	2	3	Flag	Fill bubble	if preser	nt - F	Plot	1	2	3	Flag	Fill bubb	le if pres	ent - l	Plot	1	2	3	Flag
Oil Drilling				0	0	0		Forest Clea	r Cut			0	0	0		Herbicide U	lse			0	0	0	
Gas Wells				0	0	0		Forest Sele	ctive Cut			0	0	0		Mowing/Sh	rub Cuttin	g		0	0	0	
Mine (surface)								Tree Planta	tion			0	0	0		Trails				0	0	0	
Mine (underground)							!-E	Tree Canop (INSECT)	y Herbivo	огу		0	0	0		Soil Compa (ANIMAL OR H			Me.	0	0	0	
Military O O O								Shrub Laye		d		0	0	0		Offroad veh	nicle dama	ige		0	0	0	
Other: O O O							Highly Graz	ed Grass	es	N. C.	0	0	0		Soil erosion OR OVERUSE		ND, WA	TER,	0	0	0		
Other							Recently Bu		est	185	0	0	0		Other:	time di konso			0	0	0		
							Recently Bu	rned Gra	sslar	nd	0	0	0		Other: OOO								
_	ag codes	: K = 1	No me	_		made	e, U = S	uspect meas	urement,	F1,F2	2, etc.	= mis	c. flag	s assi	gned by	y each field c	rew.		2428	1168	304		
В	uffer Sar	mple	Plots	05	/27/2		lain all f	lags in comm	ent sectio	n on	the ba	ick of	this fo	ım									

THE LANGE W					ER SAMPLE PLOTS -					Reviewed		al):		
Site ID:				11-50	<u>C 3940</u>	-	-					18		
	a fille	ed da	ıta bı	ubble ii	ndicates presence and an unf	illed l	bubbi	le ind	licates	absence by filling in this bu	bble			
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plo	t 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	
		ec.			Prince Property					Other:	0	0	0	
				53.64	PLOT COORD	DINA	TES	CHER			1_		\subseteq 1	
Location of coordinate AA CENTER O N3 Latitude N	3 (O S3	3 (O E3	.5.51.6.	Long	gitud	le W		and comment below)	3.			
					Use Decimal Degr							9733		
Flag Comments	THE STATE OF													
													-	
											-			
	-											,		
						-								
Buffer Sample Poi	inte	Targe	oted	Alian S	nacies 05/27/2011					796	6623	548		D

					M B-1: BU	ER S	SAN	IPL	E PL			_		Reviewed by	(initial):	_	_	
Site ID: PCAV	E		3	441	2								: 27		$2l \leq$	<u>O.</u>	1 3	
Location:				XII		Fill i	n b	ubbl	e(s)	if pl	ot(s) cou	ld not be	sample	ed and f	lag -	→	
O AA Center ON	05	3 (OE	0	w	O PI	ot 1		OF	lot 2	2	@ P	lot 3					
					Bu	ffer I	latu	ıral (Cove	er St	rata	Loof A	haant: No tros	n canony				
Fill in bubbles for all that apply: Car Strata Section: Fill in appropriate co	nopy T over cl	'ype: D lass bu	ubble ubble	eciduous for each	; E = Evergreen. I strata type for ea	ch plot.	pe: B	= Bro Absent	adlear ; 1 = 5	parse(<10%); 2=Mo	derate(10-40°	%); 3 = Hea	avy (40-75%); 4 = V	ery He	eavy
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Big Trees (>0.3m DBH)	 ा	_	0		Big Trees (>0.3m	DBH)	0	0		0	0		Big Trees	(>0.3m DBH		0	0	<u>O</u>
Small Trees (<0.3m DBH)	0	0	0		Small Trees (<0.3r	n DBH)	0	0	0	0	0		Small Trees	(<0.3m DBH		0	0	0
Woody Shrubs, Saplings	<u></u>	Ō	0		Woody Shrubs, Sa (0.5m-5m		0	0	(3)	0	0			ubs, Saplings 5m-5m HIGH		0	0	0
Woody Shrubs, Saplings	0	ŏ	$\overset{\smile}{\odot}$		Woody Shrubs, Sa (<0.5m	plings	$\overline{\odot}$		0	<u></u>	Ō		Woody Shru	ubs, Saplings <0.5m HIGH)	00	0	0	0
Herbs, Forbs and	0	<u></u>	$\overset{\smile}{\odot}$		Herbs, Forb	s and	$\frac{\circ}{\circ}$	0	0	ŏ	ŏ			, Forbs and Grasses	00	0	0	0
Bare ground	0	0	$\frac{\circ}{\circ}$		Gr Bare gro	asses	<u>0</u>	0	0	<u></u>	ŏ		Bai	re ground		0	0	Ō
Litter, duff 🔘 🕦	0	0			Litter,		$\frac{\circ}{\circ}$	0	0	$\frac{3}{2}$	ŏ		1	_itter, duff	15 5	0	0	Ō
	0	0	$\overline{\odot}$			Rock	$\frac{\circ}{\circ}$	0	0	$\frac{3}{6}$	$\frac{\circ}{\circ}$			Rock		0	0	$\overset{\smile}{\odot}$
Rock ()		- = 1	0	$\frac{\circ}{\circ}$			Water		0	0	$\frac{\circ}{\circ}$							
Water (2) (1)	0	<u> </u>	$\frac{\odot}{\odot}$		Subm	/ater	<u>0</u>	\sim	9	$\stackrel{\sim}{\sim}$	$\frac{0}{0}$			Submerged		0	0	$\frac{\circ}{\circ}$
Vegetation 🐷 🔘	<u> </u>	<u> </u>	\odot		Vege	tation	<u> </u>	\odot	0	<u> (၂</u>	$\underline{}$	611 4	bubble indi	Vegetation	1010	$\perp \simeq$		
Stressor Presence/Abs	зепс	e - C	Confi	rm that			100	19111900	OTTO DE LA COLONIA	ce and	an ı	untillea	The state of the same of the s					
Residential and Urban Stressors Hydrology Stressors Agricultural & Rural Fill bubble if present - Plot															urais			
Fill bubble if present - Plot	Flag	Fill bubble if	prese	nt - I	Plot	1	2		Flag	Fill bubble	e if prese	ent - Plot	1	2	3			
Road - gravel	0	0	0		Ditches, Char		_		0	0	0		Pasture/H	ay	30.00	0	0	0
Road - two lane	0	0	0		Dike/Dam/Ros (IMPEDE FLOW)	ad/KK	Bea		0	0	0		Range			0	0	0
Road - four lane	0	0	0		Water Level C		-	cture	+ -	0	0		Row Crops Fallow Fie		r DESTING	0	0	0
Parking Lot/Pavement	0	0	0		Excavation, D		ig .		0	0	0		ROW CROP FIE	LD)		0	0	0
Goff Course	0	0	0		Fill/Spoil Bank Freshly Depo:		adir	nent	0	0	0		SHRUBS, TR			0	00	0
Lawn/Park	0	0	0		(UNVEGETATED)		-		0	0	0		Nursery			0		0
Suburban Residential	0	0	0	ļ	Soil Loss/Roo	t Expo	osure		0	0	0		Dairy			0	0	0
Urban/Multifamily	0	0	0		Wall/Riprap				0	0	0		Orchard Confined	Animal Ea	odina	0	0 0	0
Landfill	0	0	0		Inlets, Outlets Point Source/				0	0	0		Rural Res		eunig	0	0	0
Dumping	0	0	0		(EFFLUENT OR S	TORM	VATE	R)	10	0	0		Gravel Pit				0	C
Trash	•	•	0	<u> </u>	(SHEETFLOW)				0	0	0		Imigation			0	0	0
Other:	0	0	0		Other:		_		0	0	0	-	Other:			0	0	C
Other:	10	0	0		Other:				0	0	0		110000000000000000000000000000000000000	ite of the	JA ELYS	10		
Industrial Developm	ent S	Stres	sor	S						Habit	tat/V	egeta	tion Stres	-		1		
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if	prese	nt -	Plot	1	2	3	Flag	Fill bub	ble if pre	sent - Plo	1	2	3
Oil Drilling	0	0	0		Forest Clear C	ut			0	0	0		Herbicide	Use		0	0	C
Gas Wells	0	0	0		Forest Selectiv	ve Cut			0	0	0		Mowing/SI	hrub Cutti	ng	0	0	C
Mine (surface)	Tree Plantation	n			0	0	0		Trails			0	0	C				
Mine (underground)	0	0	0		Tree Canopy F	lerbiv	огу		0	0	0		Soil Comp (ANIMAL OR			0	0	C
Military	0	0	0		Shrub Layer B		d		0		0		Offroad ve	hicle dam	nage	0	0	C
Other:	0	0	0		(WILD OR DOMES Highly Grazed	Grass	ses		0	0	0		Soil erosio		VIND, WATER	-	0	C
		1	0	_	Recently Burn		rest		0	0	0		Other:	b]		0	0	C
Other:	0	0	0	-	Recently Burn	ed Gra	assla	nd			1_					0	0	C
Other:	(BLACKENED)	NED)					tc. = misc. flags assigned by each field crew.						1					

THE STATE OF THE STATE OF					ER SAMPLE PLOTS -					Review	ved by (initia	al):		
Site ID:	F	CA	PE	= [1440	DAT	ΓE: _	0:	21,	2.9.12.0.1.	2			
Confirm	a fill	ed da	ata b	ubble i	ndicates presence and an uni	filled	bubb	le inc	dicates	absence by filling in this t	bubble			
Fill bubble if present - Plot		2	3		Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - P		1	Ι.	
Eurasian Watermilfoil	0	0	0		Purple Loosestrife	0	0	0	· iug	Johnson Grass		2	3	Fla
Water hyacinth	0	0	0		Knotweed	0	0	0		Kudzu	10	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			0	0	0	
Poison Hemlock	0	0	0		Cheatgrass	0	-	0		Himalayan Blackberry	0	0	0	
Mile-A-Minute Weed	0	0	0		Reed Canary Grass	0	0	-		Tamarisk	0	0	0	
Birdsfoot Trefoil	0	0	0	-	Common Reed		0	0		Other:	0	0	0	
Canada Thistle	0	0	0		Leafy Spurge	0				Other:	-0	0	0	
			<u> </u>		assi, opuige	0	0	0		Other:	-0	0	이	
	NO.	2809	BEE ST		PLOT COORD	-	No many			Other:		0		
Location of coordinates O AA CENTER O N3	s (ch	00s) S3	e on	e): D E3		ticabl Long	e loc	ation	(flag	and comment below)			Flag	
Flag Comments					Ose Decimal Degre	es; r	NADE	53	March.					
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Buffer Sample Poin	ts - Ta	erget	ed Al	lien Spe	ecies 05/27/2011					796	66235	48		

FORM B-1: BL																			21.911			
FORM B-1: BUFFER SAMPLE PLOTS (Front) Reviewed by (Initial) Site ID: P(AP EC 3440 DATE: 07 29 20														initial):	_	- (
Site II	D: 1	25	AI	P	E	<u>C</u>	3	440									12912	0_	3	_		
Locatio	n:					SS(I)			Fill	in b	ubb	e(s)	if pl	ot(s			sampled and fl	ag –	→			
OAAC	enter	0	N	0	3	0 E	0		OP				Plot 2		OP	lot 3					Щ,	
		-•	On	T	·	3 - D	aniduous	. F - Everere	Buffer I	ma. B	- Bro	adleaf	N = N	eedle	Leaf Al	osent: No tree	е сапору.					
-III in bubble Strata Sectio	s for all th n: Fill in a	at app	riate c	over c	lass b	ubble	for each	strata type fo	r each plot	i. 0 = /	Absent	; 1 = S	parse(<10%); 2=Mo	derate(10-40°	%); 3 = Heavy (40-75%);	4 = Ve	ry Hea	avy (>	75%)	
Buffer	Canopy	/ Тур	e: 🙋	(() Ab	sent	: 0	Buffer	Canopy	/ Тур	e: 🏉	(E)	Ab	sent:	0	Buffer	Canopy Type:	<u>0</u>	Abs	ent:	_0	
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Big Trees (>	0.3m DBH)	0	0	(1)	<u> </u>	<u> </u>		Big Trees (0.3m DBH)	0	0	0		<u> </u>			(>0.3m DBH)	+		<u></u>		
mall Trees (<		0	0	2	9	<u> </u>		Small Trees (<0.3m DBH)						<u> </u>		Small Trees			=+	의	\rightarrow	
,	5m HIGH)	0	0	0	@	0		(0.5n	1-5m HIGH)	0	0	<u></u>	-+	<u> </u>		(0.5	om-5m HIGH)		\rightarrow	의		
	5m HIGH)	0	0	(3)	0	0).5m HIGH)	0		<u>0</u>	-	<u> </u>		(-	<0.5m HIGH)	_		<u>의</u>		
Herbs, F	Herbs, Forbs and Grasses O O O O								Glasses -					의			Grasses U			<u>의</u>		
Bare	ground	0	0	0	0	0		Bare ground 0 0					-	<u> </u>			re ground ① 🐠			의		
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	Water	(0	0	0	0			Water	(2)	0	0	$\overline{}$	Θ			Water		_	0		
V	ibmerged egetation		0	0	0	\odot		Submerged Vegetation								Vegetation U U U U						
Stressor Presence/Absence - Confirm that a filled data bubble indicates presence and an unfilled bubble indicates absence by filling this Residential and Urban Stressors Hydrology Stressors Agricultural & Rural S																						
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															T							
Fill bubble	if pres	ent -	Plot	1	2	3	Flag	Fill bubbl	e if prese	ent -	Plot	1	2		Flag	FIII bubbl	e if present - Plot			_ †	Flag	
Road - gra	avel			0	0	0		Ditches, C				0	0	0		Pasture/H	ay	0	읝	의		
Road - tw	o lane			0	0	0		Dike/Dam/Road/RR Bed (IMPEDE FLOW)				0	0	0		Range			0	0		
Road - for				0	0	0		Water Level Control Structure					0	0		Row Crop Fallow Fie	ld (RECENT-RESTING	0	0	0		
Parking L		nent		10	0	0		Excavation, Dredging Fill/Spoil Banks					0	0		ACTUAL CONTRACTOR OF THE PARTY	ld (OLD - GRASS,	0	0	0		
Golf Cour			1 / A	0	0	0		Fill/Spoil Banks Freshly Deposited Sediment					0	0		SHRUBS, TR Nursery	0	0	0			
Lawn/Parl Suburban	*	ntial		0	0	0		(UNVEGETA Soil Loss/		osure	,	0	0	0		Dairy	0	0	0			
Urban/Mu		T(TCH		6	10	0		Wall/Ripra	эр			0	0	0		Orchard	0	0	0			
Landfill	action in y			0	0	0		Inlets, Ou				0	0	0		Confined	0	0	0			
Dumping				0	0	0		Point Sou (EFFLUENT		WATER	R)	0	0	0		Rural Res	idential	0	0	0		
Trash				0	9	0		(SHEETFLO	s surface	inpu	t	0	0	0		Gravel Pit		0	0	0		
Other:				0	0	0		Other:				0	0	0		Irrigation		0	0	0		
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indu	strial C)evel	lopm	ent	Stres	sor	s						Habit	at/V	egeta	tion Stres	sors					
Fill bubbl	e if pres	ent -	Plot	1	2	3	Flag	Fill bubbl	e if prese	nt -	Plot	1	2	3	Flag	Fill bub	ble if present - Plot	1	2	3	Flag	
Oil Drilling	9			0	0	0		Forest Cle	ar Cut			0	0	0		Herbicide	Use	0	0	0		
Gas Well	s			0	0	0		Forest Sel	ective Cu	t		0	0	0		Mowing/SI	hrub Cutting	0	0	0		
Mine (sur	face)			0	0	0		Tree Plant	ation			0	0	0		Trails		0	0	0		
Mine (und	dergroun	d)		0	0	0		Tree Cano (INSECT)	py Herbiv	ory	Circle Circle	0	0	0		Soil Comp (ANIMAL OR		0	0	0		
Military		19/9	14.	0	0	0		Shrub Lay		ed		0	0	0		the same of the same	ehicle damage	0	0	0		
Other:				0	0	0	Br. C. C.	Highly Gra	zed Gras			0	0	0		Soil erosio	ON (FROM WIND, WATER. E)	0	0	•		
Other: OOO Canopy								0	0	0		Other:		0	0	0						
Other: OOO GRECONTY Burned Gra							assla	ind	0	0	0		Other:		0	0	0					
	lag code	s: K =	No m		100	mad	e, U = 5	Suspect mea	surement.	, F1,F	2, etc	. = mls	sc. flag	s ass	lgned b	y each field	crew. 242	816	304			
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thee	D C	Catio	O ENTER Octobe location	Other: The Buffer Plot at the AA Cling in the "nearest practicable lingses of the nearest practicable lingses of the nearest practicable lingses of the nearest practical lings.	CONG THE sect and for The coon	C Trans Trans The tr the tr below	INAT Buffer location of tion of tion of tion of tion of	Plot (#3) at the far end of each I priste bubble. Sordinates will indicate the local cordinates will indicate the local ple or at the center of the last a	Buffer I	e the sates set on set	take ordina of Plo	sseed er Tra er Co enter enter	PS coordinates at the plot coordinates of the plot coordinates confered on the Buffer and describe where the case as close to the case of	ovide Cation of stion of stion of stion of stion of stion of stip of s
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the beautiful of the control of the	CO (C)	(cation (catio	O O O O O O O O O O O O O O O O O O O	Common Buckthom Tamalayan Blackberry Other: The Buffer Plot at the AA Cling in the "nearest practicable in the "nearest practicable" in "nearest practicable" in the "nearest practicable" in the "nearest practicable" in "nearest practicable" in "nearest practicable"	O O O O O O O O O O O O O O O O O O O	O O O O O O O O O O O O O O O O O O O	O O O O O O O O O O O O O O O O O O O	Perennial Pepperweed Clant Reed Common Reed Common Reed Leafy Spurge Plot (#3) at the far end of each I artee bubble pordinates will indicate the local octains and why in the comment set in the content set in the content set in the content set in the last in the comment set in the content set in the content set in the last in the comment set	Buffer Is appropriate the coordinate the conding were the conding	O O O O O O O O O O O O O O O O O O O	O O O O O O O O O O O O O O O O O O O	O O O O O O O O O O O O O O O O O O O	luctard femlock finute Weed Thistle file Scondinates at the plot coordinates at the blot 3 can not be accedenteed on the Buffe and describe where the solution of the Scondinates at the plot solution and describe where the solution and describe where the solution are solved as close to the coordinates at the solution and describe where the solution are solved as close to the coordinates and describe where the solution are solved as close to the coordinates are the solution are solved as close to the coordinates are solved as close to the coordinates are the coordinates and describe where the solved as close to the coordinates are the solved as close to the coordinates are the coordinates are the coordinates are the solved as close to the coordinates are the coordinates are the solved as close to the coordinates are	isant Sandic Moison I indefoo indefoo sanada sanada suffer F g box, a guffer F g box, a sanada
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Site ID: PCAPE	3	,44	10									DATE	:07	120	112	0	13	3	
Location:				BAT	H. PALTE	Fill	in b	ubb	le(s)	if p	lot(s) cou	ıld not be			lag	→	广	
O AA Center O N	0	S	O	E 0	w	OP	lot	1	0	Plot	2	OF	Plot 3						
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Fill in bubbles for all that apply: Ca Strata Section: Fill in appropriate of	nopy cover	Type: class t	D = D oubble	eciduou for eacl	s; E = Evergre n strata type fo	en. Leaf T r each ploi	ype: E i. 0 = .	3 = Bro Absen	t; 1 =	f; N = Sparse	Needle e(<10%	e Leaf. A 6); 2=Mo	Absent: No tre oderate(10-40	e canopy. %); 3 = Hea	vy (40-75%); 4 = \	/ery H	leavy	(>75%
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Plot 1 Leaf Type: @) (Flag	Plot 2	Leaf	F Тур	e: () (E)		Flag	Plot 3	Leaf	Туре: 🏈	<u>(</u>	厂		Flag
Big Trees (>0.3m DBH)	②		0		Big Trees (>	0.3m DBH)	0	0	②	(1)	0		Big Trees	(>0.3m DBH)	00	(2)		0	
Small Trees (<0.3m DBH)	6	0	0		Small Trees (<0.3m DBH)	0	0		0	0		Small Trees	(<0.3m DBH	00	•	0	0	
Woody Shrubs, Saptings (0.5m-5m HIGH)	(3)	0	0		Woody Shrubs (0.5m	s, Saplings -5m HIGH)	0	0	0	(0			ubs, Saplings 5m-5m HIGH)		0		0	
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Herbs, Forbs and Grasses	(4)	0	0			orbs and Grasses	0	(0	0	0		Herbs	, Forbs and Grasses	00	0	0	0	
Bare ground ① 💿	0	0	0		Bare	ground	0	6	0	0	0	-	Ва	re ground	0 8	9	0	0	
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Submerged Vegetation	0	<u>(1)</u>	0			bmerged egetation	<u></u>	0	<u>(</u>)	0	0			Submerged Vegetation		0	0	0	
Stressor Presence/Ab	send	\vdash	_	rm that								unfilled	bubble indi		1-1-	ing th		bble.	•
Residential and Urba	an S	tress	sors			Hydrolo	gy S	tres	sors		NET			Agricult	ural & Ru	ıral S	Stres	sor	3
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble	if prese	nt - l	Plot	1	2	3	Flag	Fill bubble	e if prese	nt - Plot	1	2	3	Fla
Road - gravel	0	0	0	America (N. v. v. Miller A. v. velov.	Ditches, Cl	nanneliza	tion	K, v	0	0	0		Pasture/Ha	ay	No. of	0	0	0	× × × × × × × × × ×
Road - two lane	0	0	0		Dike/Dam/		Bed		0	0	0		Range			0	0	0	
Road - four lane	0	0	0		Water Leve		Stru	cture	0	0	0		Row Crops	s	A PARTY AND	0	0	0	
Parking Lot/Pavement	0	0	0		Excavation	, Dredgin	g		0	0	0		Fallow Fie		RESTING	0	0	0	
Golf Course	0	0	0		Fill/Spoil B				0	0	0		Fallow Fie SHRUBS, TR		ASS,	0	0	0	
Lawn/Park	0	0	0		Freshly De		edin	nent	0	0	0		Nursery			0	0	0	
Suburban Residential	0	0	0		Soil Loss/F	Root Expo	sure		0	0	0		Dairy			0	0	0	<u></u>
Urban/Multifamily	0	0	0		Wall/Ripra	0			0	0	0		Orchard		Share.	0	0	0	
Landfill	0	0	0		Inlets, Outi				0	0	0		Confined A		eding	0	0	0	
Dumping	0	0	0		Point Soun (EFFLUENT O Impervious	RSTORM			0	0	0		Rural Resi	-		0	0	0	
Trash	0	0	0		(SHEETFLOW		IIIPUL		0	0	0		Gravel Pit			0	0	0	
Other:	0	0	0		Other:				0	0	0		Irrigation			0	0	0	
Other:	0	0	0	pro Artis	Other:			_	0	0	0		Other:			0		0	
Industrial Developm	ent S	Stres	sor	3			n'n		ı	labi	tat/V	egetat	tion Stress	sors					
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble	if preser	nt - F	Plot	1	2	3	Flag	Fill bubb	ole if pres	ent - Plot	1	2	3	Flag
Oil Drilling	0	0	0		Forest Clea	Cut			0	0	0		Herbicide U	Jse	4-14	0	0	0	
Gas Wells	0	0	0		Forest Selec	ctive Cut	13		0	0	0		Mowing/Sh	rub Cuttin	9	0	0	0	
Mine (surface)	0	0	0		Tree Plantai				0	0	0		Trails	Trails		0	0	0	
Mine (underground)	0	0	0		Tree Canop (INSECT)				0	0	0		Soil Compa (ANIMAL OR H			•	0	0	1
Military	0	0	0		Shrub Layer	Browsed	1		0	•	0		Offroad vel	hicle dama	ge	0	0	0	
	0	0	0		Highly Graze	ed Grass	es		0	0	0		Soil erosion	NAMES OF STREET	ID, WATER,	0	0	0	
Other:	U	OVERALL S' H						-		-	-		J J	do-					
	0	0	0		THE RESERVE TO BE A SECOND TO SECOND		est		0	0	0		Other:			0	0	0	
Other:	-				Recently But Canopy Recently But (BLACKENED)	med For		nd	0 0	0 0	0		Other:			0 0	0	0	

FC	ORM	B-	1: E	BUFF	ER SAMPLE PLO	TS -	TAI	RGE	TEI	D ALI	EN SPECIES (Back) Reviewed b	y (initia	al):		
Site ID:	PC	AP	EC	34	140	_	DAT	E:	0.=	<u>.</u> ا <u>ـ</u>	29/2013				
O Confirm	a fille	ed da	ta bi	ubble i	ndicates presence and	an unf	illed	bubb	le ind	dicates	absence by filling in this bub	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	41	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	L	0	0	0		Tamarisk	0	0	0	
Mile-A-Minute Weed	0	0	0		Reed Canary Grass	110	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	
						TEX S					Other:	0	0	0	
					PLOT CO	OORE	DINA	TES	377	Dr. Holle				9	100
Location of coordinate O AA CENTER O N3 Latitude N	s (cl	hoos O S3	se or	ne): O E3		st prac	cticat	ole lo	catio	n (flag	and comment below)	6		Fla	g
Flag Comments															
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Buffer Sample Poi	nts -	Targe	eted .	Alien Sr	pecies 05/27/2011						7966	623	548		

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Site	ID: 1	96	AP	I	- (7	344										129		-	:	一(2				
Locati							5 -1	0	T Fill	in b	ubb	le(s)	if p	lot(s		uld not be				, , _		$\neg \tau$			
OAAG		0	N	0	S	01	E @	w		lot 1			Plot			Plot 3					(
									Buffer						-										
																Absent: No tree oderate(10-40		vy (40-75%); 4 = \	/ery H	eavy ((>75%)			
Buffer	Canopy	тур Тур	e: (b) (E) AI	bsen	t: O	Buffer	Canopy	у Тур	e: (:)	() At	sent	: O	Buffer	Canopy	Type: () () Ab	sent	: O			
Plot 1	Leaf	Тур	e: (B) (Flag	Plot 2	Lea	f Typ	e: (E) ()		Flag	Plot 3	Leaf	Туре: () (江		Flag			
Big Trees (>	-0.3m DBH)	0	0	0	0	0		Big Trees (>0.3m DBH)	0	0	0	0	0		Big Trees	(>0.3m DBH)	00	(c)	0	0				
Small Trees (<0.3m DBH)	0	0	0	0	0		Small Trees (<0.3m DBH)	0	0	0	0	0		Small Trees	(<0.3m DBH)	00	0	0	0				
Woody Shrubs (0.5m	s, Saplings -5m HIGH)	0	0	0	0	0		Woody Shrub (0.5n	s, Saplings 1-5m HIGH)	0	0	0	0	0			ubs, Saplings im-5m HIGH)		0	0	0				
Woody Shrub: (<0	s, Saplings .5m HIGH)	0	0	0	0	0		Woody Shrub (<0	s, Saplings 0.5m HIGH)	0	0	0	0	0			ıbs, Saplings <0.5m HIGH)	\odot	0	0	0				
Herbs, F	orbs and Grasses	0	0	0	0	0		Herbs,	Forbs and Grasses	0	0	0	0	0		Herbs	, Forbs and Grasses	00	0	0	0				
Bare	ground	0	0	0	0	0		Bare	ground	0	0	0	0	0		Bar	re ground	00	0	0	0				
Lit	ter, duff	0	0	0	0	0		Li	tter, duff	0	0	0	0	0		L	itter, duff	00	0	0	0				
	Rock	0	0	0	0	0			Rock	0	0	0	0	0			Rock	00	0	0	0				
	Water	0	0	②	0	0			Water	0	0	0	0	0			Water	00	0	0	0				
	ubmerged egetation	0	0	①	0	0			ubmerged /egetation	0	0	0	0	0			Submerged Vegetation	00	0	0	0				
Stress	or Pres	ence	Ab:	senc	e - (Confi	rm that	a filled data	bubble ii	ndicat	es pr	esen	ce and	d an	unfilled	bubble indic	cates abse	ence by fil	ing th	is but	ble.	0			
Resi	dential	and	Urba	ın St	tress	ors			Hydrolo	gy S	tress	sors				Agricultural & Rural Stressors									
Fill bubble	if prese	nt - F	Plot	1	2	3	Flag	Fill bubble	e if prese	nt - P	lot	1	2	3	Flag	FIII bubble if present - Plot			1	2	3	Flag			
Road - gra	avel			0	0	0		Ditches, C	hanneliza	ation		0	0	0		Pasture/Ha	Pasture/Hay				0	2			
Road - two	o lane	11-1		0	0	0		Dike/Dam/		Bed		0	0	0		Range			0	0	0				
Road - for	ır lane			0	0	0		Water Lev	el Contro	Stru	cture	0	0	0		Row Crops		16-3	0	0	0				
Parking Lo	ot/Pavem	ent		0	0	0		Excavation	, Dredgir	ng		0	0	0		Fallow Field ROW CROP FIELD	D)	Section.	0	0	0				
Golf Coun	se			0	0	0		Fill/Spoil B				0	0	0		Fallow Field SHRUBS, TRE		ASS,	0	0	0				
Lawn/Park	<			0	0	0		Freshly De (UNVEGETAT		Sedim	ent	0	0	0		Nursery			0	0	0				
Suburban	Resident	tial		0	0	0		Soil Loss/F	Root Expo	osure		0	0	0		Dairy			0	0	0				
Urban/Mu	ltifamily	anil:		0	0	0		Wall/Ripra	р			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				0	0	0		Point Sour (EFFLUENT C	OR STORMV			0	0	0		Rural Resid	dential		0	0	0				
Trash				0	0	0		(SHEETFLOW		Input		0	0	0		Gravel Pit			0	0	0				
Other: _		*		0	0	0		Other:				0	0	0		Irrigation			0	0	0				
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