| CLEVELAND METROPARKS Plant Community Asses  Project Label: PCAP | ssment Program: Quality Control Form Plot No: 375 Date Samp | led: 1/25/13 Lead: J. Miller |
|---|---|------------------------------|
|   | Comment   | emired if item               |

| Parking/Access ou  | Uside of Park Poundaria            | Т                                      |          | Comment required if item answer is NO           |
|--|------------------------------------|--|----------|---|
| Parking/Access outside of Park Boundaries:<br>Field journals completed |                                    |  | K (N     | If yes, write details in Comments section below |
| Site sketch made o   |                                    | ()                                     |          |   |
| Check cover page   | X-axis Bearing of plot recorded    | 16                                     |          |   |
|  | GPS coords. Recorded               | G                                      |          |   |
|  | North direction recorded           |  |          |   |
|  | Photographs taken?                 | Y<br>V                                 |          |   |
| Plot No., Date agree   | ement on all pages?                |  |          |   |
| Header data comple   |                                    | - CY                                   |          |   |
|  | ded in all Intensive modules       | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | -        |   |
| Browse Level By Sp   | pecies                             | (Y                                     |          |   |
| Woody stem quality   |                                    | T (Y                                   |          |   |
| nvasive plant qualit   |                                    | Ý                                      |          |   |
| Ash trees mapped   |                                    | \ \(\frac{1}{\text{C}}\)               |          |   |
| Cover by Strata? (co   | nfirm cover type)                  | T (Y                                   | ) N      |   |
|  | ed with matching plot #.           | T T                                    | ) N      |   |
| ouchers labeled on   | datasheet with initials and number | 1                                      | N        |   |
| ouchers labeled on   | collection bag                     | 1 8                                    | N        |   |
| ink flags removed  |                                    | (3)                                    | N        |   |
| ata sheet QA before  | leaving site?                      | 8                                      | N        |   |
| ommon equipment i  |                                    | T $\stackrel{\wedge}{\Omega}$          | N        |   |
| ata sheets scanned?  |                                    | 8/z                                    | N<br>/13 |   |
| nal data sheets scan   | ned?                               | 0/2                                    | /15_     | Enter date to left 13 B                         |
| iffer Widths measur  | red?                               | 0                                      | - N      | Enter date to left                              |
| eb Soil Survey   |                                    | · (Y)                                  | N<br>N   | Cr 6-98   |
| oucher Location  | Refrigerator                       | 8                                      |          | RC 8/9/7013                                     |
| vouchers collected)  | Press (#)                          | <u> </u>                               | N        |   |
| 14M 148  | Drier                              | Y                                      | N        | Enter number to left                            |
| 149  | Identified                         | Y                                      | N        |   |
| 174  | Mounted                            | Y                                      | N        |   |
|  | Thrown away                        | Y                                      | N        |   |

| GRTS point verificat | ion: Is plot sampleable?   |
|----------------------|--|
| 1 /.                 | Original GRTS point is sampleable  |
| 0                    |  |
|                      | Original GRTS point lands in a non-sampleable area (fill in category below)  Doint falls in a water (i.e. river, lake) |
|                      | Managed mowed area (i.e. golf course, picnic area, right-of-way)   |
|                      | Paved area (i.e. parkinglot, road)   |
|                      | Unsafe to sample (i.e. steep slope)  |
|                      | □ Other  |
| Additional Comments  |  |

| Additional | Comments: |
|------------|-----------|
|            |           |

(

ClumburdHuin Page 1 of 2

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

TAXONOMIC ACCURACY Effort Level: Accurate Very thorough modera. may still provide good how much effort put into subjective evaluation of sampling. Hurried plots low not smp

> GPS File Name: 375/A Plot size for cover data: 🔘 🔻

Coord. Accuracy: a m a ft 100%

ongitude: 081, 78996

SAMPLING QUALITY\*

PLOT NOT SAMPLED:

o Other

TAXONOMIC STANDARD vascul 0%C Pub Date:

Photo Nos.: C3

Camera No.: C3

Intensive modules: 2, 3, 8, 9

Depth: (1-5): 4

X-axis Bearing of plot:

[217] °

(hectares)

Plot placement: WGRTS

Representative

□ Random □ Stratified Random □ Transect component

Systematic (grid) 

Capture specific feature 
Other

Minimum required fields in Bold and Underlined

|          | WITON   |
|----------|---|
|          | 13  |
|          | Quadrangie: VIII.                               |
|          | Local Place Names: Royalview                    |
|          | Landowner: CMP                                  |
| <u>e</u> | Data Confidentiality:                           |
| L        | Check one: Public data Drivate Data             |
|          | □ Fuzz 100m □ Fuzz 250m □ Fuzz 500m             |
|          | Reason:   |
|          | If data not public why?                         |
|          | Source of coordinates □ MAP ■ GPS               |
| 4        | Coordinate system: Coord. Units                 |
| 6        | ■ Lat/Long □ UTM □ StatePlane ■ deg □ deg min   |
| -        | □ Other (specify) ■ m □ ft □                    |
|          | Datum: ■ NAD83/WGS84 □ NAD27                    |
|          | GPS location in plot $x=0$ to 5, $y=-1,0,+1$ ): |
| ther     | x = () $y = ()$ (base of plot x=0, y=0)         |

South on East broach of Sugar Bush Trail, then Bast down slope to plot ... all about 4700m. Plot running along the contour of the slope. ocation: parked @ Royal view Trail Head, work content), Rationale (why here), and Veg Characterization (description of community NOTES: Include Layout (any unusual shape details). Location (directions and landscape

dominants, strata, BROWSE). Additional notes in space on back.

Layer: 2x5

Diagram Plot origin SpS location photo taken, with direction with direction

location of

permanent posts

ŧ

悲

#10

#7

₹

Reforate: GRTS point

EDIT IF MODIFIED middle-aged sugar-mapple are very much chaminant with individual beech, cottonwood, ash, and bosswood (all Veg. Characterization. The stoped leading to a wetland. also in plot. Little in the way of herbacous layer-Aar releasing, Querres Allow and an Ulmus ameniance larger DBH/ more mature than sugard coming through. An

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

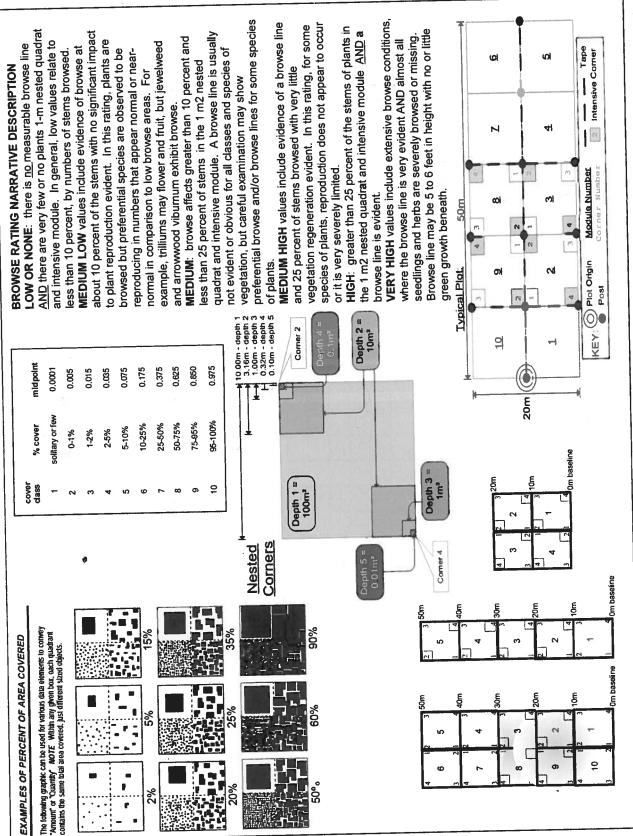
OVER

5 2aCM PCAP Species Cover Data sheet Page 1 of x\_ver 3.xls last revised 5/29/2012 ceh Strata - Cov. entire plot CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a Cleveland Metroparks Total modules: Project Label: S ψį W 7 | H |(F)|(A)|Br ΩŢ Rose Elymus Jap hystirix ī Podaphyllum pelfatum Toxicoclendran radicarys Maian Homen mace assist Tallemos Thelypten's noveboresenus CONSX Geranium Muculatum Fagus Evonymus Obovatus Prenonthes spp. Mass spp. Ansaema Henem onella HOW YOU day whim Sofginano canadinsiz CNUCKON 11:42 apphyonis ) ethoragnia describe amount of browse per species over OKYD Aceir sciecharum Punus Erotinus Allium Br = Browse Level. Use cover classes to S Was usual Si diponeria planta ginates Multitlora õ DVOLTO des -Angly lung tracocc vino di Colivan Species Sted My entire plot HARLICHON DES Seed ဂ %unveg. ground (bare soil) Intensive modules: %unvegetated open water intensive module: Estimate for each %unveg. litter (bare litter) AM 148 Project name: 01 MS 2013 Voucher # %open water 3 1 2 3 2 depth  $\mathcal{L}$ 2 7 N 1 <u>5</u> 7 6 14 1 2 -11 cov depth 0 þ cov | depth 1 ارزا 2 N S Plot configuration: mod comer N ş ş 3 4 L N f Plot no.: 1375 4 2 12 2 Va 10 COV 0 cov | depth U3 2 n N mod N \_ 2×5 Ţ 2 84 4 V00 W 1 1 C 7.1 depth depth cov depth a Bog Ŀ 1 B Li 101 Q cov | depth Ö þ \_ 1 mod Plot area (ha): 0 , ( ş ş 7 C mod comer 4 J 2 o N 84 ş C F depth depth r mod N ğ 8 depth depth mod ۷٥٥ 8 151:12 000

30

SRE 11-4-13

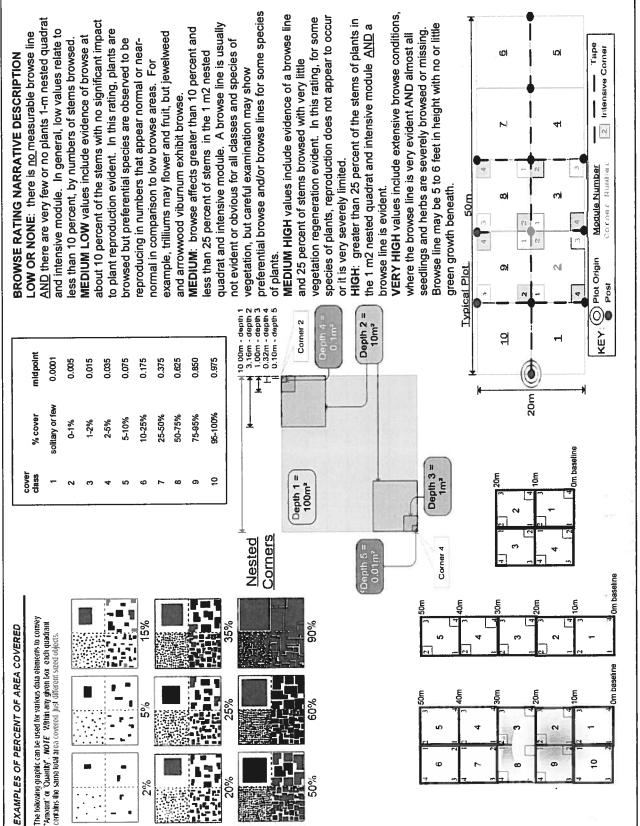
Natural Resource Management FORM NR/2010-02a



2bCM PCAP Species Cover Data Sheet Back Page\_ver 1.3.ppt

P. Chil 2aCM PCAP Species Cover Data sheet Page 1 of x\_ver 3.xls last revised 5/29/2012 ceh Strata - Cov. entire plot Cieveland Metroparks CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a Total modules: Project Label: S H (F)(A) Br 5 C. তা 1 10 Ligustryn vylgave Maximus pennsylvanica Protect Spo Huckelin birginiano Berban's thunbara ... Carpinus caralinianos Viburnum Francius americano sherry alba Caulo phyllum thatistroides Ulmus amencana QURITUS SAA Gently spr Applychant windingune Populus delhoides Chies lytetions Acer rubium describe amount of browse per species over entire plot Asternouse Carya corditornis THY SOUTH Br = Browse Level. Use cover classes to mpatiens Carrex Shipainit 0 Species dentation (seedling) COMEX SON Z Significance & COCUMPAN. Intensive modules: 4 Plot configuration: %unveg. ground (bare soil) %unvegetated open water Estimate for each intensive module: (3 | 5 | %unveg. litter (bare litter) کر 1 M +500 149 Project name: 01 MS 2013 Voucher# 50 1509-9 %open water depth mod. comer mod comer cov | depth 8 depth COV ş mod comer Plot no.: 1375 cov | depth cov | dapth mod 225 camer depth mod cov depth corner mod cov | depth 8 Plot area (ha): () 200 cov depth depth N (1) 2 Page 1 of cov depth comer 0 0 CO/ 2 2 depth mod comer COV 8 7 70  $\bar{\sim}$  $\nabla$ depth depth mod æ 5 67 17 N F-080-7 8/ = 91'1 (5) 1= 41 (9 1 .52 F(st.

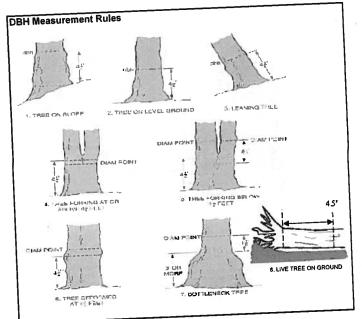
Natural Resource Management FORM NR/2010-02a



2bCM PCAP Species Cover Data Sheet Back Page\_ver 1.3.ppt

Project Label: PCAP Project Name: 0 | M S 2013 Plot No.: 1375

| Sample clumps 0-41  |
|---|
|   |
| Fraxinus apportant  |
|   |
| A   |
| 3 Standing de ad  |
| 2   |
|   |
| 4 vitic grandifalia   |
| -   |
|   |
| Carya conditormis   |
| S KOSA MULTIFLORA   |
| ) standing dead   |
| D Vitis aestivalis  |
| ansa militi e ana   |
| 3aCM PCAP Natural Woody Stern Data Sheet ver 2.0.xls last revised 5/29/2012 iii |



# **Woody Stem Deer Browse**

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

Record using the tally system from 1 to













# ASH CANOPY CONDITION

- 1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as maple.
- 2. Thinning canopy: There aren't as many leaves as there ought to be, but all top branches exposed to sunlight have leaves. 3. Dieback: Canopy is thinning and some top branches exposed to sunlight are dead (have no leaves). Lower branches, not exposed to
- 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.

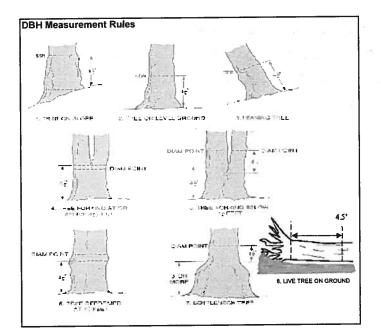


C

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.

0/Standing dead OlAcer soucharum CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Evonymu oboxatus traxinus pennsyvanica Standing dead Vitis destinalis Fraxing permsylvanica Acet tubrum Aursacharum tagus grandifolia tuonymus obovatus Acer Norum Acer saccharum Tilia americana tagus grandifolia Standingolead Vitis aestivalis Acer saccharum ROSA MULTI FLORA Ulmus americana Vitis aestinalis Standing dead Evenyous oboratus tagus grandifolia Explain subsample (additional room on back): Project Label: browsed 0-1.4m or super % sub Project Name: QIMS 2013 shrub size class (cm) woody stems >1.4m 1-<2.5 60 2.5-<5 0 0 Plot No.: 1375 5-<10 10 - <15 | 15 - <20 | 20 - <25 (Jn Page: 入 25 - <30 0 30 - <35 Sleveland Metroparks 35 - <40 õ 40. >40 (record each tree)



#### 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















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- 5. Dead canopy: No leaves remain in the canopy portion of the tree. It still counts as a 5 even if there are epicormic sprouts below the canopy (lowest branch) on the trunk.



В

С

D

E

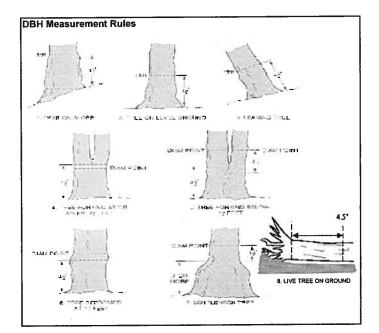
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mod # 10 BERBERIS THUNKERGII 10 ROSA MULTIFLORA 10 Populus deltoides Carpinus catoliniana LIGUSTRUM YULGARE Explain subsample (additional room on back): Project Label: \_\_ PCAP voucher# 0. # stems 0-1.4m or super % sub Project Name: 01 MS 2013 clumps shrub size class (cm) woody stems >1.4m P-<1 1-<2.5 2.5-<5 Plot No.: 1375 5-<10 10 - <15 | 15 - <20 20 - <25 Page: 3 25 - <30 30 - <35 9 으 (W) Gleweland Metropanks 35 - <40 ö 52.2 >40 (record each tree) **=** 

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet



# Woody Stem Deer Browse

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

Record using the tally system from 1 to















## **ASH CANOPY CONDITION**

- 1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as maple.
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В

С

D

Ε

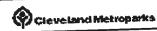
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| 25 | 24 | 23 | 22  | 21       | 20 | 19 | 18 | 17 | <b>1</b> 6 | 15 | 14    | 13       | 12 | = | 6 | 9        | 80   | 7 | 6 | <br> |   | _    |             |                     | Moduto |
|----|----|----|---|----------|----|----|----|----|------------|----|-------|----------|----|---|---|----------|--|---|---|------|---|------|-------------|---------------------|--------|
|    |    |    |   |          |    |    |    |    |            |    |       | <u>س</u> | 2  | _ | 0 |          | 8  | 7 | 6 | G    | 4 | ω    | 2           | <u>→</u> [          | Tree   |
|    |    |    |   |          |    |    |    |    |            |    |       |          |    |   |   |          |  |   |   |      |   | NO A |             | Species             |        |
|    |    |    |   |          |    |    |    |    |            |    |       |          |    |   |   |          |  |   |   |      |   | SH   |             |                     |        |
|    |    |    |   |          |    | 7  | +  | -  |            | +  |       | +        |    | + |   |          | +  | + |   |      |   |      |             | De<br>n             | ad     |
|    |    |    |   | -        |    | 1  |    |    |            |    |       |          |    |   |   |          |  |   |   |      |   |      |             | Voucher#            |        |
|    |    | +  |   | $\dashv$ |    |    | +  | +  | +          | +  | +     | +        | -  | + | - |          |  |   |   | 1    |   |      |             | (cm)                |        |
|    |    | I  |   |          |    |    |    |    |            |    |       | 1        |    |   | + |          |  |   |   | +    | + |      | +           | DBH condition       |        |
| 4  |    |    |   | _        |    |    |    |    |            |    |       |          |    |   |   |          |  |   |   | 1    | 1 |      |             | On condition        |        |
|    |    | +  | +   | +        | -  | -  | -  | -  | +          |    | -     |          | _  |   |   |          |  |   |   |      |   |      |             | J #                 | 1      |
|    |    |    |   |          |    |    |    |    |            |    |       |          |    |   |   |          |  |   |   |      |   |      |             | Epicormic present   | only   |
|    |    |    |   |          |    |    |    |    |            |    |       |          |    |   |   |          |  |   |   |      |   |      |             | Woodpecker<br>holes |        |
|    |    |    | Ma  |          |    |    |    |    |            | Ва | selir | е        |    |   |   |          |  |   |   |      |   |      | <del></del> | <u> </u>            |        |
|    |    |    | p all ash tr  |          |    |    |    |    |            |    |       |          |    |   |   | 21       | ** Change  |   |   |      |   |      |             |                     |        |
|    |    |    | es≥10cm   |          |    |    | [  | 2  |            |    |       |          | ď  |   |   |          | intensive  |   |   |      |   |      |             |                     |        |
|    |    |    | in each n   |          |    |    |    |    |            |    |       |          |    |   |   |          | module r   |   | ( |      | z |      |             |                     |        |
|    |    |    | odule usir  |          |    |    |    |    |            | 1  |       |          |    |   |   |          | umbere v   |   |   |      | _ | /    |             |                     |        |
|    |    | į  | Map all ash trees ≥10cm in each module using Tree ID number |          |    |    | ۵  |    |            |    |       |          | 8  |   |   | men nece | *** Change intensive module numbers when popular |   |   |      |   |      |             |                     |        |
|    |    | 5  | number  |          |    |    |    |    |            |    |       |          |    |   |   | ssary    |  |   |   |      |   |      |             |                     | 9      |

# CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



| Tier 1: Early detection/  | Rapid response   |                                 |        | Prese        |              |               | GPS      | Presence                                     |
|---|--|---------------------------------|--------|--------------|--------------|---------------|----------|--|
| Her Z. Larry decession  |  | NI                              | E S    | E            | sw           | NW            |          | X: yes                                       |
| at a sign wimingum  | Japanese stiltgrass  |                                 |        |              |              |               |          | - X: Yes                                     |
| crostegium vimineum   | Lesser Celandine   |                                 |        |              |              |               |          |  |
| nunculus ficaria (vine)   | Black Swallow-wort   |                                 |        |              |              |               |          |  |
| nanchum louiseac (m. /  | Flowering Rush   |                                 |        |              |              |               |          |  |
|   | Giant Hogweed  |                                 |        |              |              |               |          |  |
| eracleum mantegazzianum Tier 2: Assess a  |  | 100000                          | a mead | # of P       | lants        | 1.00          | comments |  |
| Her Z: Assess a   | 3 Needed   | N                               | E      | SE           | SW           | NW            |          | # of Plants                                  |
|   | Norway Maple   |                                 |        |              |              |               |          | 1: 1-10                                      |
| er platanoides  |  |                                 |        |              |              |               |          | 2: 11-50.                                    |
| lanthus altissima   | Tree of Heaven   |                                 |        |              |              |               |          | 3: 51-100                                    |
| onicera japonica (vine)   | Japanese Honeysuckle   |                                 | -      |              |              |               |          | 4: 101-1,00                                  |
| rthrum salicaria (wetland)  | Purple Loosestrife   |                                 | _      |              |              |               |          | 5: >1,000                                    |
| egopodium podagraria (G-cover)  |  |                                 |        |              |              |               |          |  |
| elastrus orbiculatus (vine)   |  |                                 |        |              | $\vdash$     |               |          |  |
| orilis sp.  | Hedgeparsley   |                                 |        |              | 1            |               |          |  |
| onium maculatum   | Poison Hemlock   | <del></del>                     |        |              | 1            |               |          |  |
| hamnus cathartica   | Common Buckthorn   | (shrub)                         | -:     | <del> </del> | +            |               |          | $\neg$                                       |
| erberis thunbergii  | Japanese Barberry  | (shrub)                         |        |              | <del> </del> | <del> +</del> |          |  |
| Inus glutinosa  | European Alder   |                                 |        |              | ┼            | <del> </del>  |          |  |
| Dipsacus laciniatus   | Cut-leaf Teasel  |                                 |        | <b>-</b>     | <del> </del> | ┝╼╌┼          |          |  |
| laeagnus umbellata  | Autumn Olive   | (shrub)                         |        | <b>!</b>     | +            | ┝╼╌┼          |          |  |
| onicera maackii   | Amur Honeysuckle   | (shrub)                         |        | <u> </u>     | -            | <b>├</b> ──┼  |          | -  |
| uonymus fortunei  | Wintercreeper  |                                 |        |              |              |               |          | A. J. A. S.                                  |
| Tier 3: Presence  |  | (6)(1)(1)                       |        | # of         | Plants       |               | comments | # of Plants                                  |
|   |  |                                 | NE     | SE           | SW           | NW            |          | 1: 1-10                                      |
| G-cove  | r) Lily of the Valley  |                                 |        |              |              | $\bot$        |          | 2: 11-50.                                    |
| CONVENIENTE   | r) Crown Vetch   |                                 |        |              |              | $\bot$        |          | 3: 51-100                                    |
| COTOTIII VALLE  | Five-leaf Aralia   | (shrub)                         |        | Ι            |              |               |          |  |
| Eleutherococcus pentaphyllus Pachysandra terminalis (G-cove   |  |                                 |        | T.           |              |               |          | 4: 101-1,0                                   |
| r deliyouriara darring  | Mock Orange  | (shrub)                         |        | T            |              |               |          | 5: >1,000                                    |
| Philadelphus coronarius  Rulmoparia officinalis (G-cove   |  |                                 |        | $\top$       |              |               |          |  |
| Full II Official Control Control  | Wineberry  |                                 |        |              |              |               |          |  |
| Rubus phoenicolasius  |  |                                 | 1      |              |              |               |          |  |
| Iris pseudacorus (wetlan  | Star of Bethlehem  |                                 |        | 1            |              |               |          |  |
|   | Star of Betfilenein  |                                 | ┼──    | _            | 1            |               | 9        |  |
| Ornithogalum umbellatum   | 5 Cranborry  | (chruh)                         |        | +-           | _            |               |          |  |
| Viburnum opulus var. opulus   | European Cranberry   | (shrub)                         |        | - 1          | 1            |               |          |  |
| Viburnum opulus var. opulus<br>Viburnum plicatum  | Doublefile Viburnum  |                                 |        | Pr           | esence       |               | comments |  |
| Viburnum opulus var. opulus   | Doublefile Viburnum  |                                 |        |              | esence       |               | comments | # of Plant                                   |
| Viburnum opulus var. opulus<br>Viburnum plicatum  | Doublefile Viburnum<br>ad and abundant   |                                 |        | Pr<br>SE     | sw           |               | comments | # of Plant<br>1: 1-10                        |
| Viburnum opulus var. opulus<br>Viburnum plicatum  | Doublefile Viburnum ad and abundant  Garlic Mustard  | (shrub)                         | NE     |              | SW<br>2      |               | comments | 1: 1-10<br>2: 11-50                          |
| Viburnum opulus var. opulus Viburnum plicatum  Tier 4: Widespres  Alliaria petiolata  | Doublefile Viburnum ad and abundant  Garlic Mustard Common Privet  | (shrub)                         | NE     |              | sw           |               | comments | 1: 1-10                                      |
| Viburnum opulus var. opulus Viburnum plicatum  Tier 4: Widespres  Alliaria petiolata Ligustrum vulgare  | Doublefile Viburnum ad and abundant  Garlic Mustard Common Privet Bush Honeysuckles  | (shrub)                         | NE     |              | SW<br>2      |               | comments | 1: 1-10<br>2: 11-50                          |
| Viburnum opulus var. opulus Viburnum plicatum Tier 4: Widespres Alliaria petiolata Ligustrum vulgare L. morrowii, L. tatarica   | Garlic Mustard Common Privet Bush Honeysuckles Reed Canarygrass  | (shrub)                         | NE     |              | SW<br>2      |               | comments | 1: 1-10<br>2: 11-50<br>3: 51-10<br>4: 101-1, |
| Viburnum opulus var. opulus Viburnum plicatum Tier 4: Widespres Alliaria petiolata Ligustrum vulgare L. morrowii, L. tatarica Phalaris arundinacea  | Garlic Mustard Common Privet Bush Honeysuckles Reed Canarygrass d) Phragmites  | (shrub)<br>(shrub)<br>(shrub)   | NE     |              | SW<br>2      |               | comments | 1: 1-10<br>2: 11-50<br>3: 51-10<br>4: 101-1, |
| Viburnum opulus var. opulus Viburnum plicatum Tier 4: Widespres Alliaria petiolata Ligustrum vulgare L. morrowii, L. tatarica Phalaris arundinacea Phragmites australis (wetlan   | Doublefile Viburnum ad and abundant  Garlic Mustard Common Privet Bush Honeysuckles Reed Canarygrass d) Phragmites Japanese Knotweed               | (shrub)<br>(shrub)<br>(shrub)   | NE     |              | SW<br>2      |               | comments | 1: 1-10<br>2: 11-50<br>3: 51-10<br>4: 101-1, |
| Viburnum opulus var. opulus Viburnum plicatum Tier 4: Widespres  Alliaria petiolata Ligustrum vulgare L. morrowii, L. tatarica Phalaris arundinacea Phragmites australis (wetlan Polygonum cuspidatum   | Garlic Mustard Common Privet Bush Honeysuckles Reed Canarygrass d) Phragmites  | (shrub) (shrub) (shrub)         | NE     | SE           | SW 2         | NW            | comments | 1: 1-10<br>2: 11-50<br>3: 51-10<br>4: 101-1, |
| Viburnum opulus var. opulus Viburnum plicatum Tier 4: Widespres Alliaria petiolata Ligustrum vulgare L. morrowii, L. tatarica Phalaris arundinacea Phragmites australis (wetlan Polygonum cuspidatum Frangula alnus   | Doublefile Viburnum ad and abundant  Garlic Mustard Common Privet Bush Honeysuckles Reed Canarygrass d) Phragmites Japanese Knotweed               | (shrub)<br>(shrub)<br>(shrub)   | NE     | SE           | SW 2         | NW            | comments | 1: 1-10<br>2: 11-50<br>3: 51-10<br>4: 101-1, |
| Viburnum opulus var. opulus Viburnum plicatum  Tier 4: Widesprea  Alliaria petiolata Ligustrum vulgare L. morrowii, L. tatarica Phalaris arundinacea Phragmites australis (wetlan Polygonum cuspidatum Frangula alnus Rosa multiflora   | Garlic Mustard Common Privet Bush Honeysuckles Reed Canarygrass d) Phragmites Japanese Knotweed Glossy Buckthorn                                   | (shrub) (shrub) (shrub) (shrub) | NE     | SE           | SW 2         | NW            | comments | 1: 1-10<br>2: 11-50<br>3: 51-10<br>4: 101-1, |
| Viburnum opulus var. opulus Viburnum plicatum  Tier 4: Widesprea  Alliaria petiolata Ligustrum vulgare L. morrowii, L. tatarica Phalaris arundinacea Phragmites australis (wetlan Polygonum cuspidatum Frangula alnus Rosa multiflora Typha angustifolia, T. x.glauca                 | Garlic Mustard Common Privet Bush Honeysuckles Reed Canarygrass d) Phragmites Japanese Knotweed Glossy Buckthorn Multiflora Rose Cattails (wetland | (shrub) (shrub) (shrub) (shrub) | NE     | SE           | SW 2         | NW            | comments | 1: 1-10<br>2: 11-50<br>3: 51-10              |
| Viburnum opulus var. opulus Viburnum plicatum  Tier 4: Widesprea  Alliaria petiolata Ligustrum vulgare L. morrowii, L. tatarica Phalaris arundinacea Phragmites australis (wetlan Polygonum cuspidatum Frangula alnus Rosa multiflora Typha angustifolia, T. x.glauca Cirsium arvense | Garlic Mustard Common Privet Bush Honeysuckles Reed Canarygrass d) Phragmites Japanese Knotweed Glossy Buckthorn Multiflora Rose Cattails (wetland | (shrub) (shrub) (shrub) (shrub) | NE     | SE           | SW 2         | NW            | comments | 1: 1-10<br>2: 11-50<br>3: 51-10<br>4: 101-1, |
| Viburnum opulus var. opulus Viburnum plicatum  Tier 4: Widesprea  Alliaria petiolata Ligustrum vulgare L. morrowii, L. tatarica Phalaris arundinacea Phragmites australis (wetlan Polygonum cuspidatum Frangula alnus Rosa multiflora Typha angustifolia, T. x.glauca                 | Garlic Mustard Common Privet Bush Honeysuckles Reed Canarygrass d) Phragmites Japanese Knotweed Glossy Buckthorn Multiflora Rose Cattails (wetland | (shrub) (shrub) (shrub) (shrub) | NE     | SE           | SW 2         | NW            | comments | 1: 1-10<br>2: 11-50<br>3: 51-10<br>4: 101-1, |

4bCM PCAP Invasive species datasheet.xls last revised 6/11/2012 ceh

NOTE: tussock and hummocks are counted in BOTH nested quadrat comers but counts are aggregated. 10 feature is present in moderate or greater amounts and of highest quality STANDING BIOMASS (required for emergent wetlands): collected in 0.1m clip plots (32x32 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. C?=check when MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only tope 1 = stight elevational grade across module (hit) Aodule # ollected anks for microhabitat features. Select one or select two and average the score.NOTE: If mod falls on a stope automatically gets ranked based on steepness (1-3) to begin + any features present 2 ىو feature is present in the wetland in very small amounts or if more common, of low quality feature is absent or functionally absent from the wettand feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality 0 0 depth 3 lussocks no of O lx m Ç uplands (Tip-Ups) 3.16x3 16m depth 2 hununocks 70. Of 0 0 Comer Slope 2 = falls on slope ~20 ° depressions no, macro 9 10x10m depth t SLOPE (ground water hydrology or on a physical slop) CLASSIFICATION RIVERINE : Headwater : Mainstem : Channel IMPOUNDMENT a Beaver a Human Hydrogeomorphic class (WETLANDS ONLY): Thio EPA VIBI Plant Community Class (WETLANDS ONLY): COASTAL (specify subclass) FRINGING | Reservoir | Natural Lake SHRUB a shrub swamp a tall sh bog a tall sh fen DEPRESSION EMERGENT a marsh a wet meadow a open bog FOREST a swamp forest a bog forest a forest seep BOG (strongly, moderately, weekly ombrotrophic) I = excellent g Fit and Confidence 10710m depth 1 (2-12 cm) CW.d c.w.d. - count for pieces with minimum 1m length Slope 3 = maximum steepness that can be safely sampled -45" (12-40cm) depth 1 10x10m CW.d 0 >40 cm 10x10m depth I c.w.d 1 1 FILE Fig. File Till I F interspers microhab. Q depth 1 P 10x10m (ramk) Conf" Conf= Conf Conf= Conf= Conf\* Conf= Conf= Conf microhab SLOPE 10x | 0m (rank)

( Cleveland Metroparts Page: 1 of 1

McNAB INDICES (degrees) + for up - for down

Plot No.:

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

Project Label: PCAP Project Name: 0 | M S 20 | 3

| +315 degrees NW | +270 degrees W | +225 degrees SW | +180 degrees S   | +135 degrees SE | +9() degrees E   | +45 degrees NE | At aspect N     |
|-----------------|----------------|-----------------|------------------|-----------------|------------------|----------------|-----------------|
|                 |                |                 |                  |                 |                  |                |                 |
|                 | away.          | eye of person   | recorders eye to | TSI measure     | angles formed by | 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 dois per gind square)

| S  | <b>00</b> | w  | 2  | Module |
|----|-----------|----|----|--------|
| 00 | ч         | 7  | 10 | 2      |
| 0  | 7         | =  | 10 | s      |
| 7  | 13        | 10 | 10 | (F)    |
| 7  | 4         | io | 31 | ¥      |

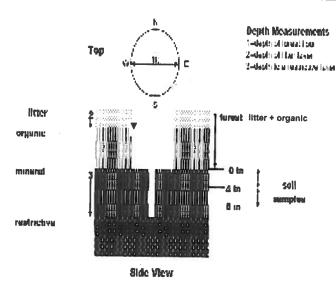
## **COVER BY STRATA**

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

Very tall shrubs are sometimes included in the tree stratum

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

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



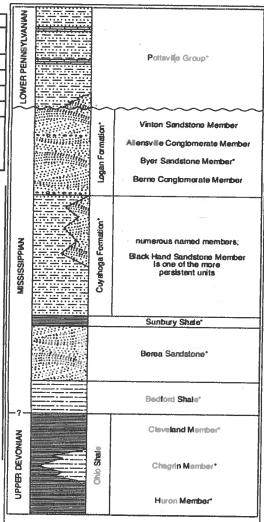


FIGURE 3-20.—Generalized section of Upper Devoman, Mississippian, and Lower Pennsylvanian formations in northeastern Ohio. Asterisks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed acrous the area. The section is not to scale, but the thicknesses indicated are proportional. The term 'Wavetty' is used in the older literature to refer to Mississippian rocks in Ohio. Some geologists use the European term 'Carboniferous' which encompasses the Mississippian and Pennsylvanian Periods of the U.S. Many units have been named within the Cuyahoga Formation, but most units are local and cannot be traced over great distances. The Black Hand Member is a spectacular massive sandstone that is fairly widespread but discontinuous. See Hyde (1953), Hoover (1960), and Collins (1979) for more information on Mississippian rocks in Ohio. See figure 3-18 for explanation of rock types.

Page: 1 of 1

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

Soil pit module # (one per entire plot)

20 cm 5 cm matrix color 1018 3/3 hydro, cond \*\*\* matrix color 10 YR 3 cdox features\*\* oxid roots ydr cond \*\*\* redox features\*\* exture\* oxid roots emottle ottle color 10 ml mottle ( ottle color none 1 S(M) D S M D Z (3) (B)

\*\* e.g. hydrogen sulfide odar, gleying, etc. refer to texture classes on reverse side

lotes: include evidence of earthworms (worms, ndundated S-saturated M-moist D-dry

seen humerous worms middens present castings present

> **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 Source: Ohio Soil Survey Soil Collection ModuldHorizon (A. B. C) Soil Series Type: CcA-Caneadea S 2,3,8,9 composited epth to rest. Layer: andform type: Kises on lake Pla Veb Soil Survey Information: RAINAGE\* arent Material: Lacustrine Jr lean 0100

2C 8/0/2013

adomewhat poorly dr.

Well drained Excessively dr.

 Somewhat excessively n Moderately well dr. Very poorly dr.

Impermeable surface

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

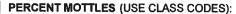
| 14 W W W W W W W W W W W W W W W W W W W    |  |
|---|--|
| 1.723                                       |  |
| organic depth                               |  |
| 2 litter depth (cm) 2 .0 2 .0 1.2 2 .3      |  |
| water depth (cm)                            |  |
| depth sat soil (cm) 730.0 730.0 730.0 730.0 |  |

| **** <5 cm in diameter | *** >5 cm in diameter | **Boulder => 10 in | * Gravel-Cobble = 1/16-10* | Bedrock           | Boulder**           | Gravel-Cobble* | Mineral Soil          | Histosol               | (Sum = 100%)  | Underlying Earth Surface | EARTH SURFACE & GROUND COVER |
|------------------------|-----------------------|--------------------|----------------------------|-------------------|---------------------|----------------|-----------------------|------------------------|---------------|--------------------------|------------------------------|
| ameter                 | meter                 | in                 | = 1/16-10"                 | 0                 | G                   | 17/6           | 99%                   | 0                      | percent       | th Surface*              | VCE & GROU                   |
| Other                  | Road/Trail            | Bare Soil          | Water                      | Bryophyte- Lichen | Duff (Ferm.+ Humus) | Litter         | Fine Woody Debris**** | Coarse Woody Debris*** | (Euch ≤ 100%) | Ground Cover             | ND COVER                     |
| 4,00                   | 040                   | 0%                 | 0%                         | 176               | 0'%                 | 95%            | 3%                    | 3%                     | percent       |                          |                              |

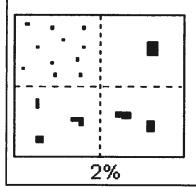
| COVER BY STRATA estimate using midpol | COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13                   | %<br>,ex:3, 8, 13   |
|---------------------------------------|---|---|
| Strata                                | Height Range (m)  | Total Cover (%)   |
| Tree                                  | >5  | 93%   |
| Shrub                                 | 0.5.5   | 43%   |
| Herb                                  | €0.5  | 35%   |
| (Floating)*                           | ,/  | 1   |
| (Aquatic)*                            | ./  |   |
| * rooted and flo                      | * rooted and floating or slightly emersed                                   | sed   |
| ** submersed,                         | ** submersed, most plant mass below surface                                 | w surface   |
| SEE BACK OF<br>DESCRIPTION            | SEE BACK OF PAGE FOR "TYPICAL"STRATA<br>DESCRIPTIONS. STRATA CAN VARY BY CO | SEE BACK OF PAGE FOR "TYPICAL"STRATA DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE. |

| *Deer | ा Gravel | Bootleg unsanctioned | Hiking sanctioned | n Bridle | All Purpose | Туре   | record type and cover for each | TRAIL INFORMATION: |  |
|-------|----------|----------------------|-------------------|----------|-------------|--------|--------------------------------|--------------------|--|
| %,0h~ |          |                      |                   |          |             | %Cover | ach                            |                    |  |

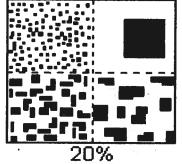
STAND SIZE > 100 x plot size 3-10 x plot size >600 x plot size < plot size 1-3 x plot size 10-100 x plot size



| Class  | С     | ode   | Criteria: % of       |
|--------|-------|-------|----------------------|
|        | Conv. | NASIS | Surface Area Covered |
| Few    | 1     | #     | < 2                  |
| Common | c     | #     | 2 to < 20            |
| Many   | m     | #     | ≥ 20                 |



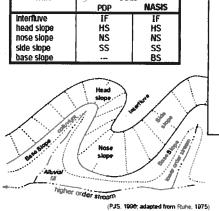
HMs

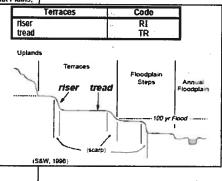


SOIL TEXTURE: Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper; the sample should be wet enough that all of the particles are saturated but 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

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





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

| - 1 | POSIGION                           | Code           |       |
|-----|------------------------------------|----------------|-------|
|     | summit<br>shoulder                 | SU<br>SH<br>BS |       |
|     | backslope<br>footslope<br>toeslope | FS             |       |
|     | toeslope                           | TS             |       |
| _   | Su Sh Bs                           | Fs definition  | Sh Su |
|     |                                    | Altuvern       | 1     |

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

UPLAND: Not a wetland. Very rarely flooded.

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

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

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

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

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

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

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

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

| Site ID: PC  | 4 p        | ٨٨       | 5        | 12-      | FORM B-1:  | -                | ,              | SA             | riat I.      | LE             | LU                    |         |   |                   | d bewei      |             |        |                |
|--|------------|----------|----------|----------|--|------------------|----------------|----------------|--------------|----------------|-----------------------|---------|---|-------------------|--------------|-------------|--------|----------------|
| Location:  | 1.5        | 14/      | _        | 13       | ריי  |                  |                |                |              |                |                       | DA      | TE: 0712  | 2.5               | 11           | 0           | 1      | 3              |
|  | N          | 0        | 9        | 0.5      | 0.144  | Fi               | ll in l        | bubl           | ble(s        | ) if [         | plot                  | (s) c   | ould not be sar                                 | npled             | and          | lag         | =      | <del>-</del>   |
|  |            |          | _        | OE       | OW   | 0                | PIOT           | 1              | 0            | Plot           | 12                    | 0       | Plot 3  |                   |              | 5           |        |                |
| Fili in bubbles for all that ap<br>Strata Section: Fili in appro | ply: Ca    | anopy    | Туре     | : D = De | duous; E = Evergreer                                       | uffe             | r Nat<br>Type: | ural<br>B = Br | Cov          | er S           | Strat                 | a       |   |                   |              |             |        |                |
|  | A          | 40       |          |          | or each strata type for                                    | each pi          | lot. 0 =       | Abser          | nt; 1 =      | Spars          | e(<10                 | %); 2=  | . Absent: No tree cano<br>Moderate(10-40%); 3 = | py.<br>· Heavy (4 | 40-75%       | ): 4 =      | Verv H | 00141          |
| Buffer Canopy Typ Plot 1 Leaf Typ                                |            |          | 4        | bsent:   | O Burner L   | Canor            | у Туг          | e: (           | ) (          | ) A            | bsen                  | t: (    |   | ору Ту            |              |             |        |                |
|  |            |          | -        |          | lag Plot 2   | Le               | af Typ         | e: 🕞           | ) (          | 5              |                       | Flac    | Diska   | eaf Ty            | $- \check{}$ |             | _      | sent:          |
|  | $\bigcirc$ | 0        | 0        | 101      | Big Trees (>0.3  | m DBH            | 0              | 0              | 0            | 0              | 0                     |         | Blg Trees (>0.3m1                               |                   |              |             |        | $\overline{a}$ |
| Small Trees (<0.3m DBH)  Woody Shrubs, Saplings                  | 0          | 0        | <u> </u> | 0        | Small Trees (<0.:  |                  |                | 0              | 0            | 0              | Ŏ                     |         | Smail Trees (<0.3m l                            |                   | + = 1        | <u> </u>    |        | 의              |
| (0.5m-5m HIGH)   | 0          | <u> </u> | <u>0</u> | 0        | Woody Shrubs, S<br>(0.5m-5rr                               | HIGH             | 0              | 0              | 0            | 0              | ŏ                     |         | Woody Shrubs, San                               |                   |              | 9           |        | 의              |
| (<0.5m HIGH)   |            | <u> </u> | <u> </u> | 0        | Woody Shrubs, S  | aplings<br>HIGH) | 0              | Ō              | ŏ            | ŏ              | $\frac{\circ}{\circ}$ |         | (0.5m-5m Hi<br>Woody Shrubs, Sapli              | GH)               | 0            | <u> </u>    |        | <u> </u>       |
| Grasses  | <b>(9)</b> | <u> </u> | <u> </u> | 0        | Herbs, Fort  |                  | 0              | Ŏ              |              | <u></u>        | $\frac{\circ}{\circ}$ | 10 **   | (<0.5m Herbs, Forbs                             | GH)               | 0            | 9           |        | <u> </u>       |
| Bare ground  | 0          | 0        | 0        | 0        | Bare gr  |                  | Ö              | ŏ              | -            | -              | <u>ö</u>              | 10      | Grass   | ses U             | 0            | <u> </u>    |        | <u> </u>       |
| Litter, duff 0   | $\odot$    | 0        | 0        | <b>@</b> | Litter   |                  | ŏ              | _              | _            | _              | 5                     |         | Bare groui                                      | <del>-   -</del>  | 0            | <u> </u>    |        | <u> </u>       |
| Rock (6)   | 0          | 0        | 0        | 0        |  | Rock             | -              | = +            | -            | <del>-</del> - | _                     |         | Litter, du                                      | iff 🗿             | 0            | <u> </u>    | 0      | <b>9</b>       |
|  | 0          | 3        | <u> </u> | 0        |  | /ater            | _              | <del>-</del> + |              | <del>-</del> + | 의                     |         | Roc   | * 0               | 0            | 3           | 0      | <b>D</b>       |
| Submerged Vegetation   | 0          | <b>D</b> | 9        | 0        | Subme  | erged            | $\overline{}$  |                | _            |                | 의                     |         | Wate  |                   | 0            | 3           | 0 (    | <b>D</b>       |
| Stressor Presence  |            |          |          | onfirm t | Veget  | ation            | <u> </u>       | 0              | 0            | <u> </u>       | <u> </u>              |         | Submerg<br>Vegetati                             | on O              | 0            | <u> </u>    | 0      | 5              |
| Stressor Presence  | rbar       | Str      | 9880     | nre .    | nat a fined data put                                       | ole in           | dicate         | s pre          | sence        | and            | an u                  | nfilled | bubble indicates ab                             | sence b           | y fillin     | this        | bubbl  | e. 🗐           |
| Il bubble if present - Pi  |            | _        | 2        | 3 Fla    | пуи  | LOIOE            | y Sti          | <b>'88</b> S(  | ors          |                |                       |         | Agricu  |                   |              |             |        |                |
| Road - gravel  | _          |          | _        |          |  |                  |                | _              | 1            | 2              | 3                     | Flag    | Fill bubble if pres                             |                   |              |             | 2 3    | _              |
| load - two lane  | _          | _        | -        | 0        | Ditches, Chann<br>Dike/Dam/Road                            | elizat           | ion            | _              |              | 0              | 0                     |         | Pasture/Hay                                     |                   | (            | 51          | 00     | _              |
| load - four lane   | 1          | _        | _        |          | (IMPEDE FLOW)  |                  |                |                | _            | -              | 0                     |         | Range   |                   |              |             |        | _              |
| arking Lot/Pavement  | 1          | _        |          |          | Water Level Co   |                  |                | +              |              | $\neg$         | 2                     |         | Row Crops                                       |                   | (            | <del></del> | 5 0    | -              |
| olf Course   | 1          | _        | -        | 5        | Excavation, Dre  |                  |                | _              | _            |                | 2                     |         | Fallow Field (RECENT                            |                   | 3            | _           | 50     |                |
| awn/Park   | 10         | -        | -        | 5        | Freshly Deposit  |                  | dimon          |                | _            | _              |                       |         | Fallow Field (OLD - GI<br>SHRUBS, TREES)        | RASS,             | -            | -           | _      | _              |
| uburban Residential  | C          | _        |          | _        | Soil Loss/Root E   |                  |                | 4              |              | 2              | _                     | - 1     | Nursery   | 111               | 10           |             | _      | -              |
| ban/Multifamily  | d          | _        |          |          | Wall/Riprap  | xposi            | ıre            | _              |              | _              | _                     | 1       | Dairy   | P all             | C            | _           | _      |                |
| ndfill   | C          |          |          |          |  |                  |                | _              |              | _              | _                     | (       | Orchard   | 1                 | C            | _           | 10     | -              |
| ımping   | To         | 0        | _        |          | Inlets, Outlets Point Source/Pip                           | e                | 7              | 19             | _            | _              |                       |         | confined Animal Fee                             | eding             | C            | _           |        | _              |
| ash  | 10         | ŏ        | +-       | _        | Impervious surfa   | DAMALAT          | ER)            | 9              | +-           |                | _                     | _       | dural Residential                               |                   | 0            | C           | _      | _              |
| ner:   | jö         | 0        | 10       |          | (SHEETFLOW) Other:   |                  |                | C              | <del></del>  | _              | _                     | G       | ravel Pit                                       |                   | 0            | 0           | _      |                |
| ner:   | ō          | 0        | C        | _        | Other:   |                  |                | -   0          | <del>-</del> | +-             | _                     | _       | rigation  |                   | 0            | 0           | _      |                |
| industrial Developm  |            | _        | _        | 4        | 30101.   |                  |                | .] C           |              |                |                       |         | ther:   |                   | 0            | O           | _      |                |
| bubble if present - Plot   |            |          |          | _        | war sogilar  | 1 19             |                |                | Hab          | itat/\         | /ege                  | tatio   | n Stressors                                     | 4                 |              |             |        |                |
| Drilling   | 1          | 2        | 3        | Flag     | Fill bubble if pres  | ent -            | Plot           | 1              | 2            | 3              | Fla                   |         | ill bubble if prese                             | nt - Pla          | 1 1          | 2           | ,      | E1-            |
| S Wells  | 0          | 0        | 0        |          | Forest Clear Cut   |                  |                | 0              | 0            | 0              |                       |         | rbicide Use                                     | 1.0               | -            |             |        | Flag           |
|  | 0          | 0        | 0        |          | Forest Selective Co  | ut               |                | 0              | 0            | 0              |                       |         | wing/Shrub Cutting                              |                   | 10           | 0           | 0      |                |
| (surface)  | 0          | 0        | 0        |          | Tree Plantation  |                  | VI INN         | 0              | 0            | 0              |                       | Tra     |   |                   | 0            | 0           | 0      |                |
| e (underground)  | 0          | 0        | 0        |          | Tree Canopy Herbi  | vory             |                | 0              | 0            | 0              | -                     | Soi     | Compaction                                      |                   | 0            | 0           | 0      |                |
| ary  | 0          | 0        | 0        |          | (INSECT), Jaich<br>STITUT Layer Brows<br>WILD OR DOMESTIC) | ed               |                | •              | 0            | _              |                       | (ANI    | MAL OR HUMAN)                                   |                   | 0            | 0           | 0      |                |
| и:   | 0          | 0        | 0        |          | lighty Grazed Gras   | ses              |                |                |              | 0              |                       | Soil    | oad vehicle damage<br>erosion (FROM WIND        | 9                 | 0            | 0           | 0      | _              |
| r:   | 0          | _        | Ö        | - 1      | OVERALL <3" HIGH) Recently Burned Fo                       | rest             | -              | 0              | 0            | 0              |                       | ORC     | VERUSE)   | WATER,            | 0            | 0           | 0      |                |
| r:   | 0          | -        | 5        |          | Canopy<br>Recently Burned Gr                               | acolor           |                | 0              | 0            | 0              |                       | Othe    | er:   |                   | 0            | 0           | 0      |                |
| •  | 1 1        |          |          |          | BLACKENED)   | 922141           |                | 0              | 0            | 0              |                       | 7       |   |                   |              | <b>O</b>    |        |                |

| Site ID:   |   |   |                      |  |  |  |  |                           |                                      | 2.5.1.2.0.1.3.   | do                  | _                        |                      |                          |
|--|---|---|----------------------|--|--|--|--|---------------------------|--------------------------------------|--|---------------------|--------------------------|----------------------|--------------------------|
| Confirm a  | filled  | data  | a bu                 | bbie in                                      | dicates presence and an unfil  | led b                                    | ubbie  | e indi                    | icates                               | absence by filling in this bubb  | ore 4               | 2                        | 3                    | Flag                     |
| bubble if present - Piot   | 1   | 2   | 3                    | Flag   | Fill bubble if present - Plot  | 1  | 2  | 3                         | Fiag                                 | Fili bubble if present - Plot  | 1                   |                          | _                    | 1109                     |
| rasian Watermilfoil  | 0   | 0   | 0                    |  | Purple Loosestrife   | 0  | 0  | 0                         |                                      | Johnson Grass  | 0                   | 0                        | 0                    |                          |
| ater hyacinth  | 0   | -   | 0                    |  | Knotweed   | 0  | 0  | 0                         |                                      | Kudzu  | 0                   | 0                        | 0                    |                          |
| ellow Floating Heart   | 0   | 0   | 0                    |  | Japanese Knotweed  | 0  | 0  | 0                         |                                      | Multiflora Rose  | 0                   | 0                        | -                    |                          |
| iant Salvinia  | 0   | 0   | 0                    |  | Perennial Pepperweed   | 0  | 0  | 0                         |                                      | Common Buckthorn   | 0                   | 0                        | 0                    |                          |
| arlic Mustard  | 0   | 0   | 0                    |  | Giant Reed   | 0  | 0  | 0                         |                                      | Himalayan Blackberry   | 0                   | 0                        | 0                    | _                        |
|  | 0   | 0   | 0                    |  | Cheatgrass   | 0  | 0  | 0                         |                                      | Tamarisk   | 0                   | 0                        | -                    | _                        |
| oison Hemlock  | 0   | 0   | 0                    | 1  | Reed Canary Grass  | 0  | 0  | 0                         |                                      | Other:   | 0                   | 0                        | 0                    | -                        |
| hile-A-Minute Weed   | -   | 6   | 0                    | -  | Common Reed  | 0  | 0  | 0                         |                                      | Other:   | 0                   | 0                        | 0                    |                          |
| lirdsfoot Trefoil  | 0   | -   | -                    | -  | Leafy Spurge   | 0  | 0  | 0                         |                                      | Other:   | 0                   | 0                        | 0                    | _                        |
| Canada Thistle   | 0   | 0   | 0                    |  | Edaily openge  |  |  |                           |                                      | Other:   | 0                   | 0                        | 0                    |                          |
| f Buffer Plot 3 can not be a Plots are centered on the B lag box, and describe whele aither placed as close to the Location of coordinates.          | ccess<br>uffer<br>e the<br>e cen                | sed, to<br>Trans<br>coon<br>ter of          | ake sects dinal Plot | the coo<br>s and the<br>tes were<br>t 3 as p | ordinates at the nearest practical ne coordinates will indicate the long to the taken and why in the commensossible or at the center of the la                   | ble location<br>at sect<br>ast acc       | cation<br>n of the<br>ion be<br>cessit           | he tra<br>elow.<br>ole Bu | ONG Thansect. The couffer Pl         | ot.  | nt bec              | ause                     | all Bubble,<br>on ca | iffer<br>fill in         |
| Buffer Plot 3 can not be a Plots are centered on the B lag box, and describe when either placed as close to the Location of coordinate AA CENTER O   | ccess<br>uffer<br>e the<br>e cen<br>ates        | sed, ta<br>Trans<br>coon<br>ter of<br>(choo | ake sects dinal Plot | the coop one):  O E                          | ordinates at the nearest practical ne coordinates will indicate the long to the taken and why in the commensossible or at the center of the la                   | ble loo<br>ocation<br>at sect<br>est acc | cation<br>n of the<br>ion be<br>cessite<br>cable | loca                      | ong The<br>ansect.<br>The couffer Pl | HE TRANSECT. This is imported Fill in the "nearest practicable loordinates of the nearest practic                                | nt becocationable I | ause<br>n" bul<br>ocatio | all Bubble, on ca    | offer<br>fill in<br>n be |
| f Buffer Plot 3 can not be a Plots are centered on the B lag box, and describe when either placed as close to the Location of coordinate AA CENTER O | ccess<br>uffer<br>re the<br>e cen<br>ates<br>N3 | sed, ta<br>Trans<br>coon<br>ter of<br>(choo | ake sects dinal Plot | the coop one):  O E                          | ordinates at the nearest practical ne coordinates will indicate the lote taken and why in the comment prossible or at the center of the lates.  3 OW3 ONearest p | ble loo<br>ocation<br>at sect<br>est acc | cation<br>n of the<br>ion be<br>cessite<br>cable | loca                      | ong The<br>ansect.<br>The couffer Pl | HE TRANSECT. This is important Fill in the "nearest practicable le coordinates of the nearest practicot.  Tag and comment below) | nt becocationable I | ause<br>n" bul<br>ocatio | all Bubble, on ca    | offer<br>fill in<br>n be |

05/27/2011

Buffer Sample Points - Targeted Alien Species

| Site ID:  | AY       | 2          | M             | S                      | FORM B-1:   |                     |            |              |                |                         |                         |                            |                            |                         | Revi       | lewed b       | y (ini      | tal):         | 31    |
|---|----------|------------|---------------|------------------------|---|---------------------|------------|--------------|----------------|-------------------------|-------------------------|----------------------------|----------------------------|-------------------------|------------|---------------|-------------|---------------|-------|
| Location:   |          | V. Co      |               |                        |   | TE                  | II in I    | h a a Bai    | hlo/           | -1 15                   |                         | DATE                       | 67                         | 12                      | <u>5</u> 1 | 12            | .0          | .1            | 3     |
| O AA Center   | D N      | (          | S             | 0                      | OW  | 0                   | Plot       | 4            | pie            | s) IT                   | piot                    | (s) con                    | lid not be                 | samp                    | led :      | and           | flag        |               | T     |
| Fill in bubbles for all that a                                  | onhe e   | ^          | _             | _                      |   | Ruffe               | r Nat      | 1140         | 0-             | Plo                     |                         |                            | lot 3                      |                         |            |               |             |               |       |
| Fill in bubbles for all that a<br>Strata Section: Fill in appro | priate   | 3 cove     | r clas        | oe: D = [<br>ss bubble | eciduous; E = Evergre<br>for each strata type for | en. Leaf<br>reach n | Type:      | B = Bi       | roadle         | af, N                   | = Need                  | l <b>a</b><br>lle Leaf. Al | bsent: No tree             | салопу                  |            |               | 100         |               |       |
| Strata Section: Fill in appro                                   | pe: (    | <b>a</b> ( | $\overline{}$ | Absen                  |   |                     | _          |              |                |                         |                         | 7.07, 2. 1010              | derate(10-40%              | 6); 3 = He              | avy (4     | 0-75%         | ); 4 =      | Very          | Heav  |
| Plot 1 Leaf Ty  |          |            | 3             |                        | Flag Plot 2                                       | Canor               | y iyp      | e: (L        | 2              | 5) /                    | bsen                    | t: O                       | Buffer                     | Canop                   |            |               |             |               | Abse  |
| Big Trees (>0.3m DBH)   | 10       | 0          | 0             | 0                      |   |                     | af Typ     |              | <del>[</del> ` | 욌                       | -                       | Flag                       | Plot 3                     | Lea                     | f Typ      | e: (i)        | _           | $\leftarrow$  |       |
| Small Trees (<0.3m DBH)   | 0        | 0          | 0             |                        | Big Trees (>0                                     |                     |            | 0            | 0              | 0                       | <b>(6)</b>              |                            | Big Trees (>               | 0.3m DBH                | 0          | 0             | 0           | 10            | 6     |
| Woody Shrubs, Saplings<br>(0.5m-5m HIGH)                        | 0        | 0          | 0             |                        | Small Trees (<0<br>Woody Shrubs,                  |                     | 131        | 의            | •              | <b>(1)</b>              | $\odot$                 |                            | Small Trees (<             | 0.3m DBH                | 0          | Ō             | 0           | Ŏ             | 0     |
| Woody Shrubs, Saplings<br>(<0.5m HIGH)                          | 0        | 0          | 0             | 10                     | (0.5m-5<br>Woody Shrubs,                          | m HIGH)             | 191        | 0            |                | $\odot$                 | 0                       |                            | Woody Shrubs<br>(0.5m      | s, Saplings<br>5m HIGH) | 0          |               | <u></u>     | 0             | 0     |
| Herbs, Forbs and  | 0        | 0          | 0             | 10                     | (<0.5   | m HIGH)             | 0          |              | 0              | 0                       | 0                       |                            | Woody Shrubs               | . Saplings<br>5m HIGH)  |            | 0             | 0           | 0             | 0     |
| Grasses O Bare ground O   |          |            |               | <del>1 1</del>         | Herbs, For  | rasses              | 0          | 0            | 0              | 0                       | 0                       |                            | Herbs, F                   | orbs and                | Ö          | _             | _           | _             |       |
|   | _        | 0          | 0             | 0                      | Bare g  | round               | 0          |              | 0              | 0                       | 0                       |                            |                            | Grasses<br>ground       | -          | _+            | 의           | 9             | 0     |
|   | $\odot$  | 0          | 0             | 0                      | Litter  | , duff              | 0          | 0            | 0              | <b>Q</b>                | <b>(a)</b>              | -                          |                            | er, duff                | 9          |               | 의           | 0             | 0     |
|   | <u> </u> | 0          | 0             | 0                      |   | Rock                | <b>(9)</b> |              | = +,           | <u></u>                 | õ                       |                            | Little                     |                         | 0          | $\overline{}$ | 9           | 0             | 0     |
| Water Submerged   | 0        | 0          | <u> </u>      | 0                      | V   | Vater               | _          | <del>-</del> | <del>-</del> + | <del>-</del> -+         | ŏl                      |                            |                            |                         | 0          | _             | <u> </u>    | <u> </u>      | 0     |
| Vegetation Vegetation   | $\odot$  | 0          | 0             | 0                      |   | erged               | <b>a</b>   | <u> </u>     | Ž,             | $\stackrel{\sim}{\sim}$ | $\stackrel{\sim}{\sim}$ |                            |                            |                         |            |               |             | <u> </u>      | 0     |
| Stressor Presence   | Abs      | enc        | e - (         | Confirm                | that a filled data bu                             | bble in             | dicate     | S Droi       |                |                         | <u> </u>                |                            | Veç                        | etation                 |            | <u> </u>      | <u>ا</u> [د | 0             | 0     |
| Stressor Presence<br>Residential and U                          | Irba     | n Stı      | ress          | iors                   | Hw  | irolog              | 14 C4-     | pre.         | Serice         | e and                   | an ur                   | ntilled but                | bble indicate              | es absen                | ce by      | / filling     | ) this      | bubl          | ble ( |
| ill bubble if present - Pl                                      | ot       | 1          | 2             | 3 FI                   | ag Fili bubble if                                 |                     |            |              |                |                         |                         |                            | Agı                        | ricultur                | al &       | Rura          | ıl St       | ress          | ors   |
| Road - gravel   |          | 0          | o             | 0                      |   |                     |            |              | 1              | 2                       | 3                       | Flag Fil                   | i bubble if                | present                 | - Pio      | t 1           | 100         | 1             | 3     |
| Road - two lane   | -        | _          | öl            | ŏ                      | Ditches, Chan<br>Dike/Dam/Roa                     | nelizati<br>d/RR F  | on<br>Bed  | _            | -              | -                       | 이                       |                            | sture/Hay                  |                         |            | 1             | 5           | 0             | o     |
| load - four lane  | -        | -          | ot            | 0                      | (IMPEDE FLOW) Water Level Co                      |                     |            | -            | -              | _                       | 이                       | Ra                         | nge                        |                         |            | 1             |             | $\rightarrow$ | ö     |
| arking Lot/Pavement   | -        | _          | -             | ol                     | Excavation, Dr                                    |                     | orruciu    | +            | -              | -                       | 이                       |                            | w Crops                    |                         |            | 1             | -           |               | ŏ     |
| olf Course  |          |            | -             | <del>ŏ</del>           | Fill/Spoil Banks                                  |                     |            | _            | _              | _                       | 익                       |                            | low Field (RE              |                         |            | 10            | -           | _             | ŏ     |
| awn/Park  | 1        | _          | -             | o                      | Freshly Denosi                                    |                     | dimen      |              | _              | -                       | 2                       | Fall<br>SHR                | OW Field (OL<br>UBS TREES) | D - GRASS               | 3,         | 10            | -           | _             | 5     |
| uburban Residential   | -        |            |               | ŏ                      | Soil Loss/Root                                    |                     |            | 1            | _              | -                       |                         | Nur                        |                            |                         | 925        | C             |             |               | 5     |
| ban/Multifamily   | _        | _          | _             |                        | Wall/Riprap                                       | LAPOSI              | ire        | (            |                | -                       |                         | Dair                       | у                          |                         |            | 10            | _           |               |       |
| ndfill  | 1        | 5 0        |               | ŏ                      | Inlets, Outlets                                   |                     |            | 10           | _              | -                       | -                       | Orci                       | nard                       |                         |            | 0             | d           | 5 6           | 十     |
| mping   | C        | _          | _             | 5                      | Point Source/Di                                   | pe .                |            | 10           | 100            | _                       |                         | Con                        | fined Anima                | l Feedin                | g          | 0             | +           | _             |       |
| ish   | To       |            | $\overline{}$ | 5                      | Impervious surfa                                  | DAMAZAT             | ER)        | 10           | _              | _                       | _                       | Rura                       | I Residentia               | ı                       |            | Ó             | +-          | _             | _     |
| ner:  |          | -          |               |                        | (SHEETFLOW) Other:                                |                     |            | C            | -              | _                       | 1                       | Grav                       | el Pit                     | 9                       |            | 0             | O           | -             | _     |
| er:   |          | +          | -             |                        | Other:  |                     |            | 10           | +              | O                       |                         | Irriga                     | tion                       |                         |            | 0             | 0           | _             | _     |
| Industrial Developm   | _        |            | 100           |                        | Other.  |                     |            | 10           | C              | 0                       |                         | Othe                       | r:                         |                         |            | 0             | ō           | -             | +     |
| bubbie if present - Piot  |          | T          | T             | 7                      |   |                     |            |              | Hab            | ltat/\                  | /ege                    | tation S                   | tressors                   | VIII                    |            |               |             | 10            |       |
| Orilling  | +        | 2          | 3             | Fiag                   | Fili bubble if pre                                | sent -              | Plot       | 1            | 2              | 3                       | Flag                    |                            | bubble if p                | TOPOT!                  | Dist       |               |             |               | _     |
| Wells   | 0        | -          | 0             | -                      | Forest Clear Cut                                  |                     |            | 0            | 0              | 0                       |                         |                            | 1011                       | - Junes                 | riot       | 1             | 2           | 3             | Fia   |
|   | 0        | 0          | 0             |                        | Forest Selective C                                | ut                  |            | 0            | 0              | 0                       | -                       | Control of the Control     | ide Use                    |                         |            | 0             | 0           | 0             | _     |
| (surface)   | 0        | 0          | 0             |                        | Tree Plantation                                   |                     |            | 0            | 0              | 0                       | -                       |                            | g/Shrub Cut                | ting                    |            | 이             | 0           | 0             | L     |
| (underground)   | 0        | 0          | 0             |                        | Tree Canopy Herbi                                 | vory                | 1          |              | _              |                         |                         | Trails<br>Soil Co          | mpaction                   |                         |            | 0             | 1           | 0             | 1     |
| iry   | 0        | 0          | 0             |                        | Shrub Laver Brows                                 | ed                  | +          |              | 0              | 0                       |                         | (ANIMAL                    | OR HUMAN)                  |                         |            | •             | 0           | 0             | 1     |
| r:  | 0        | 0          | 0             |                        | (WILD OR DOMESTIC) Highly Grazed Gras             | ses                 |            | 의            | 0              | 0                       |                         | Offroad                    | vehicie dar                | nage                    |            | 0             | 0           | 0             |       |
|   | 0        | 0          | 0             |                        | (OVERALL <3" HIGH) Recently Burned Fo             |                     |            | 의            | 0              | 0                       |                         | Soil ero                   | SION (FROM V               | VIND, WAT               | ER,        | -             | 0           | 0             |       |
| :   |          | ~ / /      | × 71          |                        |   |                     | - 1        | 0            | 0              |                         |                         |                            |                            |                         | _          |               | _           | _             |       |
| :   | 0        |            | 0             |                        | Canopy<br>Recently Burned Gr                      | 2001                | 1          | 이            | 이              | 의                       |                         | Other:                     |                            |                         |            | 0             | 0           | 0             |       |

| Site ID:   |  |  |  |   |  |  |                                      |                                    |  | 2.5. 2.0.1.3.  | ole                | OTH                     |                      |                 |
|--|--|--|--|---|--|--|--------------------------------------|------------------------------------|--|--|--------------------|-------------------------|----------------------|-----------------|
| Confirm a  | filled   | data   | bu                                       |   |  |  |                                      |                                    | Fiag   | absence by filling In this bubb<br>Fill bubble if present - Plot   | 1                  | 2                       | 3                    | Flag            |
| bubble if present - Plot   | 1  | 2  | 3  | Flag  | Fill bubble if present - Piot  | 1  | 2                                    | 3                                  | riag   | Johnson Grass  | 0                  | 0                       | 0                    |                 |
| urasian Watermilfoil   | 0  | 0  | 0  |   | Purple Loosestrife   | 0  | 0                                    | 0                                  | 8  | Kudzu  | 0                  | 0                       | 0                    |                 |
| ater hyacinth  | 0  | 0  | 0  |   | Knotweed   | 0  | 0                                    | 0                                  |  | Multiflora Rose  | 0                  |                         | 0                    |                 |
| ellow Floating Heart   | 0  | 0  | 0  |   | Japanese Knotweed  | 0  | 0                                    | 0                                  |  | Common Buckthorn   | 0                  | 0                       | 0                    |                 |
| iant Salvinia  | 0  | 0  | 0  |   | Perennial Pepperweed   | 0  | 0                                    | 0                                  |  | Himalayan Blackberry   | 0                  | 0                       | 0                    |                 |
| arlic Mustard  | 0  | 0  | 0  |   | Giant Reed   | 0  | 0                                    | 0                                  | -  |  | 0                  | 0                       | 0                    |                 |
| oison Hemlock  | 0  | 0  | 0  |   | Cheatgrass   | 0  | 0                                    | 0                                  |  | Tamarisk   | 0                  | 0                       | 0                    |                 |
| Aile-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                    | -               |
| Saliada Mistio   | 1  |  |  |   |  | 1  |                                      |                                    |  | Other:   | 10                 | 10                      | 10                   |                 |
| ocation of the plot coordinate  If Buffer Plot 3 can not be a  Plots are centered on the E  flag box, and describe whe  either placed as close to the  Location of coordinate            | access<br>suffer<br>re the<br>e cen            | sed, t<br>Trans<br>coor<br>ter of<br>(cho  | ake<br>sects<br>dina<br>Plo              | the coo<br>s and the<br>tes we<br>t 3 as t          | ordinates at the nearest practica<br>ne coordinates will indicate the large taken and why in the commen<br>possible or at the center of the large  | able location of sections and sections and sections and sections are sections.   | cation<br>n of t<br>tion b<br>cessit | he tra<br>elow.<br>ole Bu          | ONG Thansect. The couffer Pl                             | HE TRANSECT. This is important Fill in the "nearest practicable to coordinates of the nearest practicable in the nearest practicable." | nt bec             | ause                    | all Bibble,<br>on ca | ill in          |
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| Site ID: P   | CA            | 0                   | MS            |                 | 13         |                  | )RM B-1: BI  |        |                |                          |               |                   |          |        |   |               | ewed b            |                |               |                         |       |
|--|---------------|---------------------|---------------|-----------------|------------|------------------|--|--------|----------------|--------------------------|---------------|-------------------|----------|--------|---|---------------|-------------------|----------------|---------------|-------------------------|-------|
| Location:  |               |                     |               |                 |            |                  |  | FIII   | in b           | ubbl                     | 0/0           | ifn               | lot/s    | 1 00   | ould not be sam                               | <u>ر د</u>    | 2                 | .0             |               | 3                       |       |
| O AA Center  | 0             | N                   | 0             | S               | <b>©</b> E |                  | ow   | O P    | lot '          | 1                        | O             | Plot              | 2        |        | Plot 3  | pied a        | and               | flag           | <b>→</b>      |                         |       |
| Fill in hubbles for all the                            |               |                     |               |                 |            |                  | D.   |        |                |                          |               |                   |          | _      |   |               |                   |                |               |                         | _     |
| Fill in bubbles for all tha Strata Section: Fill in ap | oprop         | ly: Car<br>riate co | opy Tover c   | Type:<br>lass t | D = D      | eciduo<br>for ea | us; E = Evergreen. L<br>ch strata type for eac           | eaf T  | ype: 8         | = Broa                   | idleaf        | ; N =  <br>Sparse | Needle   | Leaf   | Absent: No tree canopy                        |               |                   |                |               |                         |       |
| Buffer Canopy  | Тур           | e: <b>(</b>         | 0             | ) At            | sent       | 0                |  |        |                | e: <b>(</b>              | $\sim$        |                   |          |        |   |               |                   |                | Very F        | Heav                    | / (>7 |
| Plot 1 Leaf  | Туре          | »: <b>(</b>         | 0             | 1               |            | Flag             | Plot 2   |        |                | e: <b>(</b>              | <u> </u>      | A                 | sent:    |        | Disk o  | ру Тур        |                   |                | _             | bser                    | ıt:   |
| Big Trees (>0.3m DBH)                                  | <b>O</b>      | 0                   |               | 0               | 0          |                  | Big Trees (>0.3m   |        | 0              | 一千                       | 云丁            | 0                 |          | Flag   |   | af Typ        | e: ( <b>&amp;</b> |                |               | <del></del>             | F     |
| Small Trees (<0.3m DBH)                                | <b>O</b>      | <b>(2)</b>          | 0             | 0               | Ō          |                  | Small Trees (<0.3m                                       |        | <u></u>        | _                        | -             | _                 | 읭        |        | Big Trees (>0.3m DE                           | $\rightarrow$ | 0                 | 9              | 0             | O                       | +-    |
| Woody Shrubs, Saplings<br>(0.5m-5m HIGH)               | <b>o</b>      | 0                   |               | 0               | 0          |                  | Woody Shrubs, Sap.                                       | lings  | <del>-</del> + | _                        | = +-          |                   | -+       |        | Small Trees (<0.3m DB<br>Woody Shrubs, Sapiln | <del></del>   | 0                 | 0              | 0             | 0                       | 1     |
| Mondy Charles Carlles d                                | =-            | _                   | -             | <u></u>         | ŏ          |                  | (0.5m-5m H<br>Woody Shrubs, Sap                          | ings   |                |                          |               |                   | 의        |        | (0.5m-5m HIG<br>Woody Shrubs, Sapling         | H)            | 0                 | 0              | 0             | 0                       |       |
| Herbs Forbs and  | $\overline{}$ | _                   | $\overline{}$ |                 | <u></u>    |                  | (<0.5m Hi  |        | _              | =+                       | _             |                   | 잋        |        | (<0.5m HIG)                                   |               | 0                 | 0              | 0             | 0                       |       |
|  | = +           | = +                 | = -           | 3               | Ö          |                  | Gras   | ses    | _              | <del>- 1</del>           | _             | _                 |          |        | Herbs, Forbs an<br>Grasse                     |               | 0                 | 0              | 0             | 9                       |       |
| Litter, duff   | ===           | _                   | = +           | <u>5</u>        | <u></u>    |                  | Bare grou  |        | -+             | _ +                      | _             |                   | <u> </u> |        | Bare ground                                   |               | 0                 | 0              | 0             | 0                       | Γ     |
| Rock (   | -             |                     |               | <del>-</del> +  |            |                  | Litter, d  | _      | = +            | _                        | _             | <u> </u>          | <u> </u> |        | Litter, duf                                   | f 🚳           | 0                 | 0              | 0             | 0                       | Г     |
|  |               |                     | =+            | <u> </u>        | 잋          |                  | Ro   | _      | _              | $\Im C$                  | ) (C          | <u> </u>          | <u> </u> |        | Rock  | (1)           | 0                 | 0              | 0             | 0                       |       |
|  | -             | _                   |               | _+              | 의          |                  | Wa   |        |                | <u> </u>                 | ) (C          | <u> </u>          | <b>O</b> |        | Water   | 6             | 0                 | Ŏ              | ŏ             | ŏ                       |       |
| Vegetation   |               | _ , ,               |               |                 | <u> </u>   |                  | Submerç<br>Vegetat                                       | ion IV |                | $\mathbb{O}[\mathbb{C}]$ | )(0           | ) C               | O        |        | Submerger                                     |               | <del>N</del>      | <del>Ă</del> † | Ž!            | $\overline{\mathbf{A}}$ | _     |
| Stressor Presen  | nce/          | Abse                | nce           | - C             | onfirm     | that             | a filled data bubb                                       | le ind | icate          | s pres                   | ence          | and               | an un    | filled | Vegetation bubble indicates abs               | ence b        | y fillir          | a this         | bubl          | bie~                    | 9     |
|  | iu u          | rban                | Stre          | 9880            | rs         |                  | Hydro  | olog   | y Str          | <b>esso</b>              | rs            |                   | III.     |        | Agricult                                      |               | - 34 - 34         |                |               | _                       | _     |
| ili bubble if present                                  | - Pic         | ot                  | 1 2           | 2               | 3 F        | lag              | Fili bubble If pro                                       | esen   | t - Pie        | ot ·                     | 1             | 2                 | 3 1      | lag    | Fili bubble if prese                          |               | - 177             | 1              | 2             | 3                       | FI    |
| Road - gravel  |               | 10                  | -             | _               |            |                  | Ditches, Channe  |        |                | 1                        | 5             | 0                 | ol       |        | Pasture/Hay                                   |               | +                 | $\dot{d}$      |               | -                       |       |
| Road - two lane  |               | 10                  | ) (           | ) (             |            |                  | Dike/Dam/Road/   | RR B   | ed             | 1                        | _             | _                 | ŏ        | 1      | Range   |               | +                 | _              | -             | 의                       | _     |
| Road - four lane                                       |               | C                   | ) (           | 2               |            |                  | Water Level Con  | trol S | tructi         | ıre (                    | _             |                   | 5        |        | Row Crops                                     |               | _                 | -              | _             | 의                       | _     |
| Parking Lot/Pavement                                   | 1             | C                   |               |                 |            |                  | Excavation, Dred   | ging   |                | 1                        | 5             | -                 | 5        | $\neg$ | Fallow Field (RECENT-                         | RESTING       | _                 | _              | -             | 의                       |       |
| Golf Course  |               | C                   |               |                 |            |                  | Fill/Spoil Banks   |        |                | 1                        | _             | _                 | 5        |        | Fallow Field (OLD - GR                        |               |                   | $\rightarrow$  | _             | 읽                       | _     |
| .awn/Park  |               |                     |               | -               |            | 9                | Freshly Depositer (UNVEGETATED)                          | d Sec  | limen          | 1 0                      | -             | _                 | 5        | 120    | SHRUBS, TREES) Nursery                        |               | _                 | _              | _             | _                       |       |
| Suburban Residential                                   |               | C                   | -             | -               | _          |                  | Soil Loss/Root Ex  | posu   | re             | 10                       | $\rightarrow$ | 5 0               | _        | -      | Dairy   | -             | -                 | _              | _             | 읽                       | _     |
| Jrban/Multifamily                                      |               | 0                   | C             |                 | 기          | 1                | Wall/Riprap  |        |                | C                        | 0             | 510               | 5        |        | Orchard                                       |               | _                 | -              |               | _ +                     |       |
| andfill  |               | 10                  | _             | -               | _          |                  | nlets, Outlets   |        |                | C                        | 0             | 0                 |          | 1      | Confined Animal Fee                           | dina          |                   | 100            |               | 앍                       |       |
| Dumping  |               | 0                   | -             | _               |            | . (              | Point Source/Pipe<br>EFFLUENT OR STORI                   | MAIAT  | ER)            | C                        | -             | _                 | _        | _      | Rural Residential                             | 9             |                   | -              | _             |                         |       |
| rash   |               | 0                   | -             | _               | _          | - [1             | mpervious surfac<br>SHEETFLOW)                           | e inp  | ut             | To                       | -             | +                 | _        | -      | Gravel Pit                                    |               | 1                 |                | -             | 5                       |       |
| ther:  | _             | 0                   | 10            | -               |            | _                | Other:   |        |                | - 0                      | 1             | -                 | _        | 1      | rrigation                                     | 1             | 1                 | _              | _             | _                       |       |
| ther:  | _             | 70                  | 0             | 1               |            | 0                | ther:  |        |                | - 0                      | C             | _                 | _        | (      | Other:  |               | 1                 | -              | $\rightarrow$ | _                       |       |
| Industrial Devel                                       | opn           | nent                | Stre          | <b>\$</b> 50    | rs         |                  |  |        |                |                          | Hab           | itat/             | Vege     | tatio  | n Stressors                                   |               | -                 | 1              | 1             | 7                       |       |
| i bubble if present -                                  | Piot          | 1                   | 2             | 3               | Fia        | g Fi             | li bubble if prese                                       | ent -  | Piot           |                          | 2             | 3                 | Fia      |        |   |               |                   | -              | _             | -                       |       |
| il Drilling  |               | 0                   | 0             | 0               |            |                  | rest Clear Cut   |        |                | 0                        | 0             | +                 |          | -      | Fili bubble if prese                          | nt - Pic      | +                 | -              | -             | 100                     | lag   |
| as Wells   |               | 0                   | 0             | 0               |            |                  | rest Selective Cu  |        |                |                          |               | _                 |          |        | erbicide Use                                  |               | 10                | +              | +             | 2                       | _     |
| ne (surface)   |               | 0                   | 0             | 0               | 1          |                  |  |        | -              | 0                        | 9             | +                 | -        |        | owing/Shrub Cutting                           |               | C                 |                | 0             | 2                       |       |
| ne (underground)                                       | _             | 0                   | 0             | 0               | -          | Tre              | ee Plantation<br>ee Canopy Herbiv                        | orv    |                | 0                        | 0             | 0                 | -        |        | ails  |               | C                 | C              | 0             |                         |       |
| litary   |               |                     | _             |                 | -          | (INS             | RECT)  |        |                | 0                        | 0             | 10                | <u>_</u> | (Al    | oil Compaction<br>NIMAL OR HUMAN)             |               | 0                 | C              | 0             |                         |       |
|  |               | 0                   | 0             | 0               | _          | (WI              | LD OR DOMESTIC)  The Grazed Grass                        |        |                | 0                        | 0             | 0                 |          |        | froad vehicle damage                          |               | 0                 | C              | 0             |                         |       |
|  |               | 0                   | 0             | 0               |            | (OV              | iny Grazed Gras:<br>ERALL <3º HIGH)<br>cently Burned Foi |        |                | 0                        | 0             | 0                 |          | SO     | il erosion (FROM WIND,<br>OVERUSE)            | WATER         | 0                 | 0              | -             | +                       | _     |
| ner:   |               |                     |               |                 |            | 11.2             |  |        |                |                          |               |                   | _        |        |   |               |                   |                |               |                         |       |
| er:  |               | 0                   | 0 0           | 0               |            | Ca               | nopy<br>cently Burned Gra                                |        |                | 0                        | 0             | 0                 |          | Oth    | ier:  |               | 0                 | 0              | +             |                         |       |

| Site ID:   |                                   | PC                                 | AP                     | M:   | 5 13.7.5   | DAT                                | E: _                                  | 0.                              | 7.1                                      | 2.5.1.1.0.1.3  |                              |                         |                            |             |
|--|-----------------------------------|------------------------------------|------------------------|--|--|------------------------------------|---------------------------------------|---------------------------------|--|--|------------------------------|-------------------------|----------------------------|-------------|
| ② Confirm  | a filie                           | d da                               | ta bu                  | ıbbie iı   |  |                                    |                                       | _                               |  | absence by filling in this bub   | ble                          |                         |                            |             |
| Fili bubble if present - Plot  | 1                                 | 2                                  | 3                      |  | Fili bubble if present - Piot  | 1                                  | 2                                     | 3                               | Fiag                                     | Fili bubble if present - Piot  | 1                            | 2                       | 3                          | Fia         |
| 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                          | _           |
| Canada Thistle   | 0                                 | 0                                  | 0                      |  | Leafy Spurge   | 0                                  | 0                                     | 0                               |  | Other:   |                              | 0                       |                            |             |
|  |                                   |                                    |                        |  |  | _                                  | <u> </u>                              | <u></u>                         |  | Other:   | 0                            | 0                       | 0                          | -           |
|  |                                   |                                    |                        |  | PLOT COORD   |                                    |                                       |                                 |  | Other:   | 0                            | 0                       | 0                          |             |
| f Buffer Plot 3 can not be acc<br>Plots are centered on the Buff<br>lag box, and describe where t  | essed<br>er Tra<br>he co<br>enter | d, tak<br>ansec<br>oordir<br>of Pi | e the                  | coordind the coordinate the coordina | nates at the nearest practicable coordinates will indicate the local aken and why in the comment stible or at the center of the last and the center of the center | loca<br>ation (<br>ection<br>acces | tion A<br>of the<br>of belo<br>sible  | LONG<br>trans<br>w. Th<br>Buffe | G THE<br>ect. Fil<br>ee coon<br>er Plot. | TRANSECT. This is important to in the "nearest practicable local dinates of the nearest practicable and comment below)   | ecaus                        | se all                  | Buffe                      | er<br>in tl |
| f Buffer Plot 3 can not be acc<br>Plots are centered on the Buff<br>lag box, and describe where teither placed as close to the c<br>Location of coordinates                        | esseder Tra<br>he co<br>enter     | d, tak<br>ansectordir<br>of Pi     | e thects an ates lot 3 | e coording the coording the coordinate the coordina | nates at the nearest practicable coordinates will indicate the locate and why in the comment stible or at the center of the last of the la | loca<br>ation dection<br>access    | tion A<br>of the<br>of belo<br>ssible | LONG<br>trans<br>w. Th<br>Buffe | G THE ect. Fill ne coon or Plot.         | TRANSECT. This is important to in the "nearest practicable local dinates of the nearest practicable in the interest practical inter | ecaus<br>ition"  <br>le loca | se all<br>bubb<br>ation | Buffe<br>le, fill<br>can b | er<br>in t  |
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| •   |                      |                           |                         |                       |       | 10             | FOI  | RM B-1:                      | BUFF                  | ER      | SAF                    | <b>IPL</b>   | ΕP    | LOT                | S (F      | ront)                             | Reviewed by  | (initial) | ::       |               | •     |
|---|----------------------|---------------------------|-------------------------|-----------------------|-------|----------------|------|------------------------------|-----------------------|---------|------------------------|--------------|-------|--------------------|-----------|-----------------------------------|--|-----------|----------|---------------|-------|
| Site I  | D: P                 | CAI                       | Ρ                       | MS                    | 1     | 37             | 5    |                              |                       |         |                        |              |       |                    | DATE      | 07                                | 12512  | 0         | 1:3      | 3.            |       |
| Locatio   | on:                  | 116.0                     | 200                     |                       |       | ) T            |      |                              | Fill                  | in b    | ubb                    | le(s         | if p  | lot(s              | s) cou    | ıld not be                        | sampled and t  | lag -     | <b>→</b> |               | T     |
| OAAC  | enter                | 0                         | N                       | •                     | S     | OE             | 0    | W                            | OP                    | Plot    | 1                      | 01           | Plot  | 2                  | OF        | Plot 3                            |  |           |          |               |       |
|   |                      |                           |                         |                       |       |                |      | s; E = Evergre               |                       | ype: E  | 3 = Br                 | adlea        | , N = | Needle             | e Leaf. A | Absent: No tree<br>oderate(10-40% | e canopy.<br>%); 3 = Heavy (40-75%   | ); 4 = \  | /ery H   | eavy (        | >75%) |
| Buffer<br>Plot 1  | Canopy               | у Тур<br>f Тур            |                         |                       | 4     | bsen           |      | Buffer<br>Plot 2             | Canopy                |         |                        | $\leftarrow$ |       | bsent              |           | Buffer<br>Plot 3                  | Canopy Type:   | =         | _        | sent          |       |
| Big Trees (>  |                      |                           | ()                      | $\sim$                |       | 0              | Flag | Big Trees (                  |                       | f Typ   |                        |              |       | 0                  | Flag      |                                   | Leaf Type: ((>0.3m DBH)  | ) ©       |          | 0             | Flag  |
| Small Trees (<  |                      | $\stackrel{\smile}{\sim}$ |                         | 0                     |       | 0              |      |                              |                       | HE)     | $\stackrel{\smile}{=}$ | $\equiv$     | 9     | <b>(</b>           |           |                                   |  | 0         | <b>6</b> |               |       |
| Woody Shrubs  |                      |                           | _                       |                       |       | <del>  -</del> |      | Small Trees (<br>Woody Shrub |                       | =       | $\bigcirc$             | ( <u>0</u>   | 읫     | _                  |           | Small Trees Woody Shru            | 1919   | -         | =        | 읮             |       |
|   | 5m HIGH)             | 0                         |                         | 0                     | 0     | 0              |      |                              | -5m HIGH)             |         |                        |              | 9     | $\overline{\odot}$ |           |                                   | m-5m HIGH)   | 0         |          | 의             |       |
| (<0.  | 5m HIGH)<br>orbs and | 0                         | )                       | $\frac{\odot}{\odot}$ | 0     | 0              |      | . (<0                        | .5m HIGH)<br>orbs and | _       |                        | 0            | 9     | $\overline{\odot}$ |           | (<                                | O.5m HIGH)   | 0         | 9        | 의             |       |
|   | Grasses              | 0                         | $\overline{\mathbb{Q}}$ | 0                     |       | 0              |      | 116105,1                     | Grasses               |         | <b>(a)</b>             | 0            | 9     | <u>O</u>           |           | rieibs,                           | Grasses U  | 0         | 9        | <u> </u>      |       |
|   | ground               | <b>®</b>                  | 0                       | 0                     | 0     | 0              |      | Bare                         | ground                | 9       | 0                      | 0            | 0     | 0                  |           | Bar                               | e ground 🔞 🕠   | 0         | 0        | 0             |       |
| Litt  | er, duff             | 0                         | 0                       | 0                     |       | 0              |      | Li                           | ter, duff             | 0       | 0                      | 0            | 0     | <b>®</b>           |           | L                                 | itter, duff 💿 🕦  | 0         | 0        | 0             |       |
|   | Rock                 | <b>(9)</b>                | 0                       | 0                     | 0     | 0              |      |                              | Rock                  | 0       | 0                      | 0            | 0     | 0                  |           |                                   | Rock 🔞 🛈   | 0         | 0        | 0             |       |
|   | Water                | 0                         | 0                       | 0                     | 0     | 0              |      |                              | Water                 |         | 0                      | 2            | 0     | 0                  |           |                                   | Water 🔞 🕦  | 0         | 0        | 0             |       |
|   |                      | 0                         | 0                       | 0                     | 0     | 0              |      |                              |                       | 0       | 0                      | 0            | 0     | 0                  |           |                                   |  | 0         | 0        | 0             |       |
| Submerged Vegetation O O O O Submerged Vegetation O O O O O O O O O O O O O O O O O O O |                      |                           |                         |                       |       |                |      |                              |                       |         |                        |              |       |                    |           |                                   |  |           |          |               |       |
| Resid   | dential              | and                       | Urba                    | an Si                 | tress | sors           |      |                              | Hydrolo               | gy S    | tres                   | sors         |       |                    |           |                                   | Agricultural & Ru  | ıral S    | tres     | sors          | ;     |
| Fili bubbie   | if prese             | ent - F                   | Piot                    | 1                     | 2     | 3              | Fiag | Fili bubbic                  | e if prese            | ent - I | Plot                   | 1            | 2     | 3                  | Flag      | Fill bubble                       | if present - Plot  | 1         | 2        | 3             | Flag  |
| Road - gra  | vel                  | 22.1                      |                         | 0                     | 0     | 0              | 47   | Ditches, C                   | hanneliza             | ation   | EU POL                 | 0            | 0     | 0                  |           | Pasture/Ha                        | ıy   | 0         | 0        | 0             |       |
| Road - two  | lane                 |                           |                         | 0                     | 0     | 0              |      | Dike/Dam/                    |                       | Bed     |                        | 0            | 0     | 0                  |           | Range                             |  | 0         | 0        | 0             |       |
| Road - fou  | ır lane              | 778                       |                         | 0                     | 0     | 0              |      | Water Lev                    |                       | Stru    | cture                  | 0            | 0     | 0                  |           | Row Crops                         |  | 0         | Ō        | 0             |       |
| Parking Lo  | t/Pavem              | nent                      | 0.0                     | 0                     | 0     | 0              |      | Excavation                   | n, Dredgir            | ng      | J E                    | 0            | 0     | 0                  |           | Fallow Field                      | d (RECENT-RESTING  | 0         | 0        | 0             |       |
| Golf Cours  | se                   |                           |                         | 0                     | 0     | 0              |      | Fill/Spoil B                 | anks                  | J.      |                        | 0            | 0     | 0                  |           |                                   | d (OLD - GRASS,  | 0         | 0        | 0             |       |
| Lawn/Park   |                      |                           |                         | 0                     | 0     | 0              |      | Freshly De                   |                       | Sedin   | nent                   | 0            | 0     | 0                  |           | Nursery                           | - na se de la companya de la company | 0         | 0        | 0             |       |
| Suburban  | Residen              | tial                      |                         | 0                     | 0     | 0              |      | Soil Loss/                   |                       | osure   |                        | 0            | 0     | 0                  |           | Dairy                             |  | 0         | 0        | 0             |       |
| Urban/Mul   | tifamily             |                           |                         | 0                     | 0     | 0              |      | Wall/Ripra                   | р                     |         |                        | 0            | 0     | 0                  |           | Orchard                           |  | 0         | 0        | 0             |       |
| Landfill  |                      |                           |                         | 0                     | 0     | 0              |      | Inlets, Out                  | lets                  | 1       |                        | 0            | 0     | 0                  |           | Confined A                        | nimal Feeding  | 0         | 0        | 0             |       |
| Dumping   |                      |                           |                         | 0                     | 0     | 0              |      | Point Sour                   |                       | NATER   | (3                     | 0            | 0     | 0                  |           | Rural Resid                       | dential  | 0         | 0        | 0             |       |
| Trash   |                      |                           | Wa Star                 | 0                     | 0     | 0              |      | Impervious<br>(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             |       |
| Indus   | strial D             | evel                      | pm                      | ent S                 | Stres | sor            | 3    |                              | v svanseni.           |         |                        | ı            | labit | tat/V              | egeta     | tion Stress                       | ors  |           |          | 410           | 1112  |
| Fiii bubbie   | if prese             | ent - F                   | Plot                    | 1                     | 2     | 3              | Fiag | Fiii bubbie                  | if prese              | nt - I  | Plot                   | 1            | 2     | 3                  | Flag      | Fili bubb                         | ie if present - Plot   | 1         | 2        | 3             | Flag  |
| Oil Drilling  | N S C                |                           | Day.                    | 0                     | 0     | 0              |      | Forest Clea                  | r Cut                 |         |                        | 0            | 0     | 0                  |           | Herbicide U                       | se   | 0         | 0        | 0             | ,     |
| Gas Wells   |                      |                           |                         | 0                     | 0     | 0              |      | Forest Sele                  | ctive Cut             |         |                        | 0            | 0     | 0                  |           | Mowing/Shr                        | rub Cutting  | 0         | 0        | 0             |       |
| Mine (surfa   | ece)                 |                           |                         | 0                     | 0     | 0              |      | Tree Planta                  | tion                  |         |                        | 0            | 0     | 0                  |           | Trails                            |  | 0         | 0        | 0             |       |
| Mine (unde  | erground             | )                         |                         | 0                     | 0     | 0              |      | Tree Canop                   | y Herbivo             | ory     |                        | 0            | 0     | 0                  |           | Soil Compa                        |  | 0         | 0        | 0             |       |
| Military  |                      |                           |                         | 0                     | 0     | 0              |      | Shrub Laye                   |                       | d       | 1010                   | 0            | •     | 0                  |           |                                   | Icle damage  | 0         | 0        | 0             |       |
| Other:  |                      |                           |                         | 0                     | 0     | 0              |      | Highly Graz                  | ed Grass              | ses     |                        | 0            | 0     | Ö                  |           | Soil erosion                      | (FROM WIND WATER,  | 0         | 0        | 0             |       |
| Other:  | W = 62 0 20          | VIII II II II             |                         | 0                     | 0     | 0              |      | (OVERALL <3"<br>Recently Bu  |                       | est     | -                      | 0            | 0     | 0                  |           | OR OVERUSE) Other:                |  | 0         | 0        | 0             |       |
|   |                      |                           | -                       | 3                     |       |                |      | Canopy<br>Recently Bu        | rned Gra              | asslar  | nd                     |              | _     | l <u>-</u> 1       | _         | Other:                            |  |           |          | $\overline{}$ |       |
| Other:  | a coder              | K=A                       | lo mo                   | Pasing                | O     | Made           |      | (BLACKENED)                  | irement               | F1 F1   | atc                    | O            | O     |                    |           | each field cr                     | raw  | 0         | O        | 0             |       |
|   | iffer San            |                           |                         |                       |       | Expl           |      | ags in comm                  |                       |         |                        |              |       |                    | gou 0)    | , saem maior Gi                   | 242  | 8168      | 3304     |               |       |

| Site ID: PCAP  |  |                         |            | MS   | 1346   | DATE: 0.7/2.5/2.0.13                         |                                       |                                   |   |   |                            |                         |                            |              |  |  |
|--|--|-------------------------|------------|--|--|--|---------------------------------------|-----------------------------------|---|---|----------------------------|-------------------------|----------------------------|--------------|--|--|
| Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble   |  |                         |            |  |  |  |                                       |                                   |   |   |                            |                         |                            |              |  |  |
| Fill bubble if present - Plot  | 1 2 3  |                         | 3          | Flag   | Fill bubble if present - Piot  | 1  | 2                                     | 3                                 | Fiag                                      | Fili bubble if present - Plot   | 1                          | 2                       | 3                          | Flag         |  |  |
| Eurasian Watermilfoil  | 0  | 0                       | 0          |  | Purple Loosestrife   | 0  | 0                                     | 0                                 |   | Johnson Grass   | 0                          | 0                       | 0                          |              |  |  |
| Water hyacinth   | 0  | 0                       | 0          |  | Knotweed   | 0  | 0                                     | 0                                 |   | Kudzu   | 0                          | 0                       | 0                          |              |  |  |
| Yellow Floating Heart  |  | 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   | (4)  | 0                       | 0          |  | Giant Reed   | 0  | 0                                     | 0                                 |   | Himalayan Blackberry  | 0                          | 0                       | 0                          |              |  |  |
| Poison Hemlock   | 0  | 0                       | 0          |  | Cheatgrass   | 0  | 0                                     | 0                                 |   | Tamarisk  | 0                          | 0                       | 0                          |              |  |  |
| Mile-A-Minute Weed   | 0  | 0                       | 0          |  | Reed Canary Grass  | 0  | 0                                     | 0                                 |   | Other:  | 0                          | 0                       | 0                          |              |  |  |
| Birdsfoot Trefoil  | 0  | 0                       | 0          |  | Common Reed  | 0  | 0                                     | 0                                 |   | Other:  | 0                          | 0                       | 0                          |              |  |  |
| Canada Thistle   | 0  | 0                       | 0          |  | Leafy Spurge   | 0  | 0                                     | 0                                 |   | Other:  | 0                          | 0                       | 0                          |              |  |  |
|  |  |                         |            |  |  |  |                                       |                                   |   | Other:  | 0                          | 0                       | 0                          |              |  |  |
| WE THOUGHT A   |  |                         | Au         |  | PLOT COORE   | INA  | TES                                   |                                   |   |   |                            |                         | <u> </u>                   |              |  |  |
| If Buffer Plot 3 can not be acc<br>Plots are centered on the Buff<br>flag box, and describe where  | esse<br>fer Tr<br>the co<br>center           | d, takense pording of P | cts anates | e coording the coordinate the coordi | inates at the nearest practicable coordinates will indicate the local aken and why in the comment solution at the center of the last   | e loca<br>ation<br>sectio<br>acces           | ition A<br>of the<br>n belo<br>ssible | trans                             | G THE<br>sect. Fil<br>ne coor<br>er Plot. | TRANSECT. This is important to the "nearest practicable local dinates of the nearest practicable and comment below) | ecau                       | se all                  | Buffe                      | er<br>in the |  |  |
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| If Buffer Plot 3 can not be accepted and the Bufflag box, and describe where either placed as close to the Cocation of coordinate  | esse<br>fer Tr<br>the co<br>center<br>es (cl | d, takense cording of P | cts anates | e coording the coordinate the coordi | inates at the nearest practicable coordinates will indicate the locaken and why in the comment sible or at the center of the last  O W3  O Nearest practicable or action of the last | e loca<br>ation<br>sectio<br>acces           | of the n belossible                   | trans<br>bw. TI<br>Buffe<br>catio | G THE sect. Fil he coor er Plot.          | TRANSECT. This is important to the "nearest practicable local dinates of the nearest practicable and comment below) | pecau<br>ation"<br>le loca | se all<br>bubb<br>ation | Buffe<br>le, fill<br>can b | er<br>in the |  |  |
| If Buffer Plot 3 can not be acc Plots are centered on the Buf flag box, and describe where either placed as close to the c  Location of coordinate  O AA CENTER O N3  Latitude N | esse<br>fer Tr<br>the co<br>center<br>es (cl | d, takense cording of P | cts anates | e coording the coordinate the coordi | inates at the nearest practicable coordinates will indicate the locaken and why in the comment sible or at the center of the last  O W3  O Nearest practicable or action of the last | e loca<br>ation<br>sectio<br>acces<br>cticat | of the n belossible                   | trans<br>bw. TI<br>Buffe<br>catio | G THE sect. Fil he coor er Plot.          | TRANSECT. This is important to the "nearest practicable local dinates of the nearest practicable and comment below) | pecau<br>ation"<br>le loca | se all<br>bubb<br>ation | Buffe<br>le, fill<br>can b | er<br>in the |  |  |
| If Buffer Plot 3 can not be acc Plots are centered on the Buf flag box, and describe where either placed as close to the c  Location of coordinate  O AA CENTER O N3  Latitude N | esse<br>fer Tr<br>the co<br>center<br>es (cl | d, takense cording of P | cts anates | e coording the coordinate the coordi | inates at the nearest practicable coordinates will indicate the locaken and why in the comment sible or at the center of the last  O W3  O Nearest practicable or action of the last | e loca<br>ation<br>sectio<br>acces<br>cticat | of the n belossible                   | trans<br>bw. TI<br>Buffe<br>catio | G THE sect. Fil he coor er Plot.          | TRANSECT. This is important to the "nearest practicable local dinates of the nearest practicable and comment below) | pecau<br>ation"<br>le loca | se all<br>bubb<br>ation | Buffe<br>le, fill<br>can b | er<br>in the |  |  |
| if Buffer Plot 3 can not be accepted and the Bufflag box, and describe where either placed as close to the Cocation of coordinate  O AA CENTER O N3  Latitude N                  | esse<br>fer Tr<br>the co<br>center<br>es (cl | d, takense cording of P | cts anates | e coording the coordinate the coordi | inates at the nearest practicable coordinates will indicate the locaken and why in the comment sible or at the center of the last  O W3  O Nearest practicable or action of the last | e loca<br>ation<br>sectio<br>acces<br>cticat | of the n belossible                   | trans<br>bw. TI<br>Buffe<br>catio | G THE sect. Fil he coor er Plot.          | TRANSECT. This is important to the "nearest practicable local dinates of the nearest practicable and comment below) | pecau<br>ation"<br>le loca | se all<br>bubb<br>ation | Buffe<br>le, fill<br>can b | er<br>in the |  |  |
| If Buffer Plot 3 can not be acc Plots are centered on the Buf flag box, and describe where either placed as close to the c  Location of coordinate  O AA CENTER O N3  Latitude N | esse<br>fer Tr<br>the co<br>center<br>es (cl | d, takense cording of P | cts anates | e coording the coordinate the coordi | inates at the nearest practicable coordinates will indicate the locaken and why in the comment sible or at the center of the last  O W3  O Nearest practicable or action of the last | e loca<br>ation<br>sectio<br>acces<br>cticat | of the n belossible                   | trans<br>bw. TI<br>Buffe<br>catio | G THE sect. Fil he coor er Plot.          | TRANSECT. This is important to the "nearest practicable local dinates of the nearest practicable and comment below) | pecau<br>ation"<br>le loca | se all<br>bubb<br>ation | Buffe<br>le, fill<br>can b | er<br>in the |  |  |
| If Buffer Plot 3 can not be acc Plots are centered on the Buf flag box, and describe where either placed as close to the c  Location of coordinate  O AA CENTER O N3  Latitude N | esse<br>fer Tr<br>the co<br>center<br>es (cl | d, takense cording of P | cts anates | e coording the coordinate the coordi | inates at the nearest practicable coordinates will indicate the locaken and why in the comment sible or at the center of the last  O W3  O Nearest practicable or action of the last | e loca<br>ation<br>sectio<br>acces<br>cticat | of the n belossible                   | trans<br>bw. TI<br>Buffe<br>catio | G THE sect. Fil he coor er Plot.          | TRANSECT. This is important to the "nearest practicable local dinates of the nearest practicable and comment below) | pecau<br>ation"<br>le loca | se all<br>bubb<br>ation | Buffe<br>le, fill<br>can b | er<br>in the |  |  |
| If Buffer Plot 3 can not be acc Plots are centered on the Buf flag box, and describe where either placed as close to the c  Location of coordinate  O AA CENTER O N3  Latitude N | esse<br>fer Tr<br>the co<br>center<br>es (cl | d, takense cording of P | cts anates | e coording the coordinate the coordi | inates at the nearest practicable coordinates will indicate the locaken and why in the comment sible or at the center of the last  O W3  O Nearest practicable or action of the last | e loca<br>ation<br>sectio<br>acces<br>cticat | of the n belossible                   | trans<br>bw. TI<br>Buffe<br>catio | G THE sect. Fil he coor er Plot.          | TRANSECT. This is important to the "nearest practicable local dinates of the nearest practicable and comment below) | pecau<br>ation"<br>le loca | se all<br>bubb<br>ation | Buffe<br>le, fill<br>can b | er<br>in the |  |  |
| If Buffer Plot 3 can not be acc Plots are centered on the Buf flag box, and describe where either placed as close to the c  Location of coordinate  O AA CENTER O N3  Latitude N | esse<br>fer Tr<br>the co<br>center<br>es (cl | d, takense cording of P | cts anates | e coording the coordinate the coordi | inates at the nearest practicable coordinates will indicate the locaken and why in the comment sible or at the center of the last  O W3  O Nearest practicable or action of the last | e loca<br>ation<br>sectio<br>acces<br>cticat | of the n belossible                   | trans<br>bw. TI<br>Buffe<br>catio | G THE sect. Fil he coor er Plot.          | TRANSECT. This is important to the "nearest practicable local dinates of the nearest practicable and comment below) | pecau<br>ation"<br>le loca | se all<br>bubb<br>ation | Buffe<br>le, fill<br>can b | er<br>in the |  |  |
| If Buffer Plot 3 can not be acc Plots are centered on the Buf flag box, and describe where either placed as close to the c  Location of coordinate  O AA CENTER O N3  Latitude N | esse<br>fer Tr<br>the co<br>center<br>es (cl | d, takense cording of P | cts anates | e coording the coordinate the coordi | inates at the nearest practicable coordinates will indicate the locaken and why in the comment sible or at the center of the last  O W3  O Nearest practicable or action of the last | e loca<br>ation<br>sectio<br>acces<br>cticat | of the n belossible                   | trans<br>bw. TI<br>Buffe<br>catio | G THE sect. Fil he coor er Plot.          | TRANSECT. This is important to the "nearest practicable local dinates of the nearest practicable and comment below) | pecau<br>ation"<br>le loca | se all<br>bubb<br>ation | Buffe<br>le, fill<br>can b | er<br>in the |  |  |
| If Buffer Plot 3 can not be acc Plots are centered on the Buf flag box, and describe where either placed as close to the c  Location of coordinate  O AA CENTER O N3  Latitude N | esse<br>fer Tr<br>the co<br>center<br>es (cl | d, takense cording of P | cts anates | e coording the coordinate the coordi | inates at the nearest practicable coordinates will indicate the locaken and why in the comment sible or at the center of the last  O W3  O Nearest practicable or action of the last | e loca<br>ation<br>sectio<br>acces<br>cticat | of the n belossible                   | trans<br>bw. TI<br>Buffe<br>catio | G THE sect. Fil he coor er Plot.          | TRANSECT. This is important to the "nearest practicable local dinates of the nearest practicable and comment below) | pecau<br>ation"<br>le loca | se all<br>bubb<br>ation | Buffe<br>le, fill<br>can b | er<br>in the |  |  |
| If Buffer Plot 3 can not be acc Plots are centered on the Buf flag box, and describe where either placed as close to the c  Location of coordinate  O AA CENTER O N3  Latitude N | esse<br>fer Tr<br>the co<br>center<br>es (cl | d, takense cording of P | cts anates | e coording the coordinate the coordi | inates at the nearest practicable coordinates will indicate the locaken and why in the comment sible or at the center of the last  O W3  O Nearest practicable or action of the last | e loca<br>ation<br>sectio<br>acces<br>cticat | of the n belossible                   | trans<br>bw. TI<br>Buffe<br>catio | G THE sect. Fil he coor er Plot.          | TRANSECT. This is important to the "nearest practicable local dinates of the nearest practicable and comment below) | pecau<br>ation"<br>le loca | se all<br>bubb<br>ation | Buffe<br>le, fill<br>can b | er<br>in the |  |  |
| If Buffer Plot 3 can not be acc Plots are centered on the Buf flag box, and describe where either placed as close to the c  Location of coordinate  O AA CENTER O N3  Latitude N | esse<br>fer Tr<br>the co<br>center<br>es (cl | d, takense cording of P | cts anates | e coording the coordinate the coordi | inates at the nearest practicable coordinates will indicate the locaken and why in the comment sible or at the center of the last  O W3  O Nearest practicable or action of the last | e loca<br>ation<br>sectio<br>acces           | of the n belossible                   | trans<br>bw. TI<br>Buffe<br>catio | G THE sect. Fil he coor er Plot.          | TRANSECT. This is important to the "nearest practicable local dinates of the nearest practicable and comment below) | pecau<br>ation"<br>le loca | se all<br>bubb<br>ation | Buffe<br>le, fill<br>can b | er<br>in the |  |  |

| FORM B-1: BUFFER SAMPLE PLOTS (Front)  Reviewed by (Initial):  |   |          |                         |       |                   |               |             |                                   |                           |            |            |         |                |             |              |                            |                              |            |        |       |      |
|--|---|----------|-------------------------|-------|-------------------|---------------|-------------|-----------------------------------|---------------------------|------------|------------|---------|----------------|-------------|--------------|----------------------------|------------------------------|------------|--------|-------|------|
| Site I   | D: (                                    | P(A      | ρ                       | M     | 5                 | 2             |             |                                   |                           |            |            |         |                |             |              |                            | 1251                         | 7. 6       | i      | 7     |      |
| Site ID: $\rho(AP M \le 1375)$ DATE: $0712512613$ Location: Fill in bubble(s) if plot(s) could not be sampled and flag $\rightarrow$   |   |          |                         |       |                   |               |             |                                   |                           |            |            |         |                |             |              |                            |                              |            |        |       |      |
| OAAC   | enter                                   | E @      | w                       |       | lot               |               |             | Plot                              |                           |            | Plot 3     |         |                |             | ١.           |                            |                              |            |        |       |      |
| Buffer Natural Cover Strata  |   |          |                         |       |                   |               |             |                                   |                           |            |            |         |                |             |              |                            |                              |            |        |       |      |
| ill in bubbles for all that apply: Canopy Type: D = Deciduous; E = Evergreen. Leaf Type: B = Broadleaf; N = Needle Leaf. Absent: No tree canopy.  (trata Section: Fill in appropriate cover class bubble for each strata type for each plot. 0 = Absent; 1 = Sparse(<10%); 2=Moderate(10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (>75%) |   |          |                         |       |                   |               |             |                                   |                           |            |            |         |                | (>75%)      |              |                            |                              |            |        |       |      |
| Buffer   | Canop                                   | у Тур    | pe: (a) (b) Absent: (b) |       |                   |               | ıt: O       | Buffer                            | Canop                     | ) (        | A          | bsen    | t: O           | Buffer      | Canopy Type: | <b>(</b>                   | ) AI                         | bsen       | t: O   |       |      |
| Plot 1   | ot 1 Leaf Type:  Flag                   |          |                         |       | Plot 2 Leaf Type: |               |             |                                   | <b>)</b> (                |            | Flag       |         | Plot 3         | Leaf Type:  | <b>(</b>     | <b>9 (</b>                 |                              |            |        |       |      |
| Big Trees (>0.3m DBH) 0 0 2  |   |          |                         |       | 0                 |               | Big Trees ( | 0.3m DBH)                         | Ø                         | 0          | 0          |         | 0              |             | Big Trees    | (>0.3m DBH)                | <u> </u>                     |            | 0      |       |      |
| nall Trees (<0.3m DBH)   |   | 0        | 0                       |       |                   | Small Trees ( | <0.3m DBH   | 0                                 | 0                         |            | 0          | 0       |                | Small Trees | (<0.3m DBH)  | 0                          | 0                            | 0          |        |       |      |
|  | oody Shrubs, Saplings<br>(0.5m-5m HIGH) |          | 0                       |       | 0                 | 0             |             | Woody Shrub<br>(0.5n              | s, Saplings<br>-5m HIGH)  | 0          | 0          |         | 0              | 0           |              |                            | ubs, Saplings<br>im-5m HIGH) | ) (O       | 0      | 0     |      |
| Voody Shrubs<br>(<0.   | , Saplings<br>5m HIGH)                  |          | •                       | 0     | 0                 | 0             |             | Woody Shrub<br>(<0                | s, Saplings<br>).5m HIGH) | 0          | 0          |         | 0              | 0           |              |                            | bs, Saplings<br><0.5m HIGH)  |            | 0      | 0     |      |
| Herbs, F   | orbs and<br>Grasses                     | 0        |                         | 0     | 0                 | 0             |             | Herbs,                            | Forbs and<br>Grasses      | 0          |            | 0       | 0              | 0           |              | Herbs                      | Forbs and Grasses            | 10         | 0      | 0     |      |
| Bare   | ground                                  |          | 0                       | 0     | 0                 | 0             |             | Bare                              | ground                    | 0          | 0          | 0       | 0              | 0           |              | Bar                        | e ground 🗿 🌘                 | <b>D</b> 0 | 0      | 0     |      |
| Litt   | er, duff                                | 0        | 0                       | 0     | 0                 | 0             |             | Li                                | tter, duff                | 0          | 0          | 0       | 0              | <b>(1)</b>  |              | L                          | itter, duff 💿 (              | D 0        | 0      |       |      |
|  | Rock                                    | <b>(</b> | 0                       | 2     | 0                 | 0             |             |                                   | Rock                      | 0          | 0          | 0       | 0              | 0           |              |                            | Rock 🙆 (                     | D 0        | 0      | 0     |      |
|  | Water                                   | 0        | 0                       | 0     | 0                 | 0             |             |                                   | Water                     | <b>(1)</b> | 0          | 0       | 0              | 0           |              |                            | Water 🙆 (                    | D 0        | 0      | 0     |      |
|  | bmerged<br>egetation                    | <b>(</b> | 0                       | 0     | 0                 | 0             |             |                                   | ubmerged<br>egetation     | <b>(1)</b> | 0          | 0       | 0              | 0           |              |                            | Submerged  Vegetation        | 0 0        | 0      | 0     | s.   |
|  |   | sence    | e/Ab                    | send  | e -               | Confi         | irm that    |                                   |                           | ndica      | tes p      | esen    | ce an          | d an        | unfilled     |                            | cates absence by             | filling th | is bul | oble. | •    |
| Resid  | dential                                 | sors     |                         |       | Hydrolo           | gy S          | tres        | sors                              |                           |            | - 100 also |         | Agricultural & | Rural       | Stres        | SOLE                       |                              |            |        |       |      |
| ill bubble   | If pres                                 | ent - I  | Plot                    | 1     | 2                 | 3             | Flag        | Fill bubble                       | e if prese                | nt - I     | Plot       | 1       | 2              | 3           | Fiag         | Fili bubble                | if present - Plo             | 1          | 2      | 3     | Flag |
| Road - gra   | vel                                     | Nº 1     |                         | 0     | 0                 | 0             |             | Ditches, C                        | hanneliza                 | ation      |            | 0       | 0              | 0           |              | Pasture/Ha                 | ıy                           | 0          | 0      | 0     |      |
| Road - two   | lane                                    | Įĝ.      | 1218                    | 0     | 0                 | 0             |             | Dike/Dam/                         |                           | Bed        |            | 0       | 0              | 0           |              | Range                      |                              | 0          | 0      | 0     |      |
| Road - fou   | r lane                                  |          |                         | 0     | 0                 | 0             |             | Water Lev                         | Alaka and a second        | Stru       | cture      | 0       | 0              | 0           |              | Row Crops                  |                              | 0          | 0      | 0     |      |
| Parking Lo   | t/Paven                                 | nent     | T IV                    | 0     | 0                 | 0             |             | Excavation                        | , Dredgir                 | ng         | - 11       | 0       | 0              | 0           |              | Fallow Field               | d (RECENT-RESTING            | 0          | 0      | 0     |      |
| Golf Cours   | e                                       |          |                         | 0     | 0                 | 0             |             | Fill/Spoil B                      | 1111                      |            |            | 0       | 0              | 0           |              | Fallow Field SHRUBS, TRE   | 0                            | 0          | 0      |       |      |
| Lawn/Park  |   | 18       |                         | 0     | 0                 | 0             |             | Freshly De<br>(UNVEGETAT          |                           | Sedim      | nent       | 0       | 0              | 0           |              | Nursery                    |                              |            | 0      | 0     |      |
| Suburban I   | Residen                                 | tial     |                         | 0     | 0                 | 0             |             | Soil Loss/F                       | Root Expo                 | sure       |            | 0       | 0              | 0           |              | Dairy                      |                              | 0          | 0      | 0     |      |
| Urban/Mult   | tifamily                                |          |                         | 0     | 0                 | 0             |             | Wall/Riprap                       |                           |            |            | 0       | 0              | 0           |              | Orchard                    |                              | 0          | 0      | 0     |      |
| Landfill   | HITS.                                   |          |                         | 0     | 0                 | 0             |             | Inlets, Outlets Point Source/Pipe |                           |            | *          | 0       | 0              | 0           |              | Confined A                 | 0                            | 0          | 0      |       |      |
| Dumping  |   |          |                         | 0     | 0                 | 0             |             | (EFFLUENT C                       | RSTORM                    | VATER      | )          | 0       | 0              | 0           |              | Rural Resid                | dential                      | 0          | 0      | 0     |      |
| Trash  |   |          |                         | 0     | 0                 | 0             |             | Impervious<br>(SHEETFLOW          | <u> </u>                  |            |            | 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:                     | er: O O O                    |            |        |       |      |
| Indus  | trial D                                 | evelo    | pme                     | ent S | tres              | sor           | 8           |                                   |                           |            |            | ŀ       | labi           | tat/V       | egeta        | tion Stress                | ors                          |            |        | legy. |      |
| iii bubbie   | If prese                                | ent - F  | Piot                    | 1     | 2                 | 3             | Flag        | Fiii bubbie                       | if preser                 | nt - F     | Piot       | 1       | 2              | 3           | Fiag         | Fili bubb                  | ie if present - Pl           | ot 1       | 2      | 3     | Flag |
| Oil Drilling   |   |          |                         | 0     | 0                 | 0             |             | Forest Clea                       | r Cut                     |            |            | 0       | 0              | 0           |              | Herbicide U                | se                           | 0          | 0      | 0     |      |
| Gas Wells  |   |          |                         | 0     | 0                 | 0             |             | Forest Sele                       | ctive Cut                 |            |            | 0       | 0              | 0           |              | Mowing/Shr                 | rub Cutting                  | 0          | 0      | 0     |      |
| Mine (surfa  | ice)                                    |          |                         | 0     | 0                 | 0             |             | Tree Planta                       | tion                      |            |            | 0       | 0              | 0           |              | Trails                     |                              | 0          | 0      | 0     |      |
| Mine (unde   | rground                                 | )        |                         | 0     | 0                 | 0             |             | Tree Canop                        | y Herblyc                 | ory        |            | 0       | 0              | 0           |              | Soil Compa<br>(ANIMAL OR H |                              | 0          | 0      | 0     |      |
| Military   |   |          |                         | 0     | 0                 | 0             |             | Shrub Layer                       |                           | 1          |            | 0       | 0              | 0           |              |                            | icle damage                  | 10         | 0      | 0     |      |
| Other:   |   |          |                         | 0     | 0                 | 0             |             | Highly Graz                       | ed Grass                  | es         |            | 0       | 0              | 0           |              |                            | (FROM WIND, WATE             |            | 0      | 0     |      |
| Other:   |   |          |                         | 0     | 0                 | 0             |             | (OVERALL <3°<br>Recently Bu       |                           | est        |            | 0       | 0              | 0           |              | OR OVERUSE) Other:         |                              | 0          | 0      | 0     |      |
| Other:   |   |          |                         | 0     | 0                 | 0             |             | Canopy<br>Recently Bu             | sslan                     | d          | 0          | 0       | 0              |             | Other:       |                            | 0                            | 0          | 0      |       |      |
| Flag codes: K = No measurement made, U = S   |   |          |                         |       |                   | _             | (BLACKENED) | rement.                           | F1.F2                     | , etc      |            |         |                |             | -            | ew.                        | -1 -                         |            |        |       |      |
|  | ffer San                                |          |                         |       |                   | Expl          | ain ail fi  | ags in comm                       | ent sectio                | n on t     | he ba      | ck of t | his fo         | m           |              |                            | 24                           | 2816       | 3304   | 1     |      |

| Site ID:                      | P      | CAI   | ρ     | Ms                            | 1375                         | DAT    | E: _( | <del>-</del> ر | <u>7</u> 1[                   | 2.5.1.2.0.1.3                  | y (initia | ı):  |      |   |
|-------------------------------|--------|-------|-------|-------------------------------|------------------------------|--------|-------|----------------|-------------------------------|--------------------------------|-----------|------|------|---|
| © Confirm                     | a fiii | ed da | ta bi | ubbie i                       | ndicates presence and an uni | filled | bubb  | ie in          | dicates                       | absence by filling in this bub | bie       |      |      |   |
| Fill bubble if present - Plot |        |       | Flag  | Fili bubble if present - Plot |                              | 2      | 3     | Flag           | Fill bubble if present - Plot | 1                              | 2         | 3    | Flag |   |
| Eurasian Watermilfoil         | 0      | 0     | 0     |                               | Purple Loosestrife           | 0      | 0     | 0              |                               | Johnson Grass                  | 0         | 0    | 0    |   |
| Water hyacinth                | 0      | 0     | 0     |                               | Knotweed                     | 0      | 0     | 0              |                               | Kudzu                          | 0         | 0    | 0    |   |
| Yellow Floating Heart         | 0      | 0     | 0     |                               | Japanese Knotweed            | 0      | 0     | 0              |                               | Multiflora Rose                | 0         | 0    | 0    |   |
| 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    |   |
| Canada Thistle                | 0      | 0     | 0     |                               | Leafy Spurge                 | 0      | 0     | 0              |                               | Other:                         | 0         | 0    | 0    |   |
|                               |        |       |       |                               |                              |        |       |                |                               | Other:                         | 0         | 0    | 0    |   |
|                               | 3,14,  |       |       |                               | PLOT COORI                   | ANIC   | TES   |                |                               |                                |           |      |      |   |
| Latitude N                    | North  | 4     | 1.    | . 3                           | 0.7.5.5.<br>Use Decimal Degr |        |       |                | Vest _                        | 0.81. 7.9.1.1                  | 3.        |      |      |   |
| Flag Comments                 |        |       |       |                               |                              |        | Jal.  |                |                               |                                |           |      |      |   |
|                               |        |       |       |                               |                              |        |       |                |                               |                                |           |      |      |   |
| 1                             |        |       |       |                               |                              |        |       |                |                               |                                |           |      |      |   |
|                               |        |       |       |                               |                              |        |       |                |                               |                                |           |      |      |   |
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|                               |        |       |       |                               |                              |        |       |                |                               |                                |           |      |      |   |
| Buffer Sample Po              | ints - | Targ  | eted  | Alien S                       | species 05/27/2011           |        |       |                |                               | 796                            | 6623      | 3548 |      | D |