Coon Creek Riparian Buffer and Nutrient Offset Mitigation Project

2015 Monitoring Report
Monitoring Year 2 of 5

Granville County, North Carolina
Tar-Pamlico River Basin
USGS Hydrologic Unit 03020101

NCDMS Project No. 95807
NCDMS Contract No. 5153

Submitted to:

North Carolina Department of Environmental Quality
Division of Mitigation Services
1652 Mail Service Center
Raleigh, NC 27699-1652

FINAL – 2015 Monitoring Report – Year 2 of 5

Project Construction Completed: 2014
Data Collection for Monitoring Year 2 of 5
Report Submitted: February 2016

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1652 Mail Service Center
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February 2016

FINAL

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1.0 MITIGATION PROJECT SUMMARY

The Coon Creek Riparian Buffer and Nutrient Offset Mitigation Project (the Project) site is located in Granville County in the Tar-Pamlico River Basin (Figure 1: Vicinity Map). Much of the Tar-Pamlico River Basin has a history of nutrient stressor issues. Coon Creek is located within the NC Division of Mitigation Services' (NCDMS) Fishing Creek Local Watershed Plan to address agricultural stressors and identify potential restoration opportunities. As part of the larger Tar-Pamlico River Basin, Coon Creek is located in U.S. Geological Survey (USGS) hydrologic unit code (HUC) 03020101020010, which is identified in the 2010 Tar-Pamlico River Basin Restoration Priorities Report as a Targeted Local Watershed (TLW) to promote nutrient and sediment reduction in agricultural areas by restoring and preserving wetlands, streams, and riparian buffers. Projects that reduce sediment impacts and re-establish riparian buffers are a top priority for the Fishing Creek Watershed.

The Project established 30.19 acres of buffer easement along four unnamed tributaries (UT1 through UT4) to Coon Creek, including along Crews Farm Lake, an in-line impoundment (Figure 2: Project Component), and will result in a maximum of 8.1 Riparian Mitigation Units (RMUs) and 14.5 Nutrient Mitigation Units (NMUs). Riparian mitigation activities begin at the top-of-bank and generally extend out to 100 ft, and nutrient offset mitigation activities begin at 100 ft and extend out to 200 ft.

Monitoring Year 2 (MY 2) has been completed for the Project, and 83 percent of the monitoring plots are meeting or exceeding success criteria (Appendix B: CVS Vegetation Monitoring Output Tables). Of the monitoring plots meeting or exceeding success criteria, only three are within 10% of the minimum success threshold (Appendix B: CVS Vegetation Monitoring Output Tables). Minimal remedial action is currently required. Overall, the Project is in very good condition.

Table 1 below shows the timeline of completed and future project activities.

Table 1: Project Activity and Reporting History

Activity or Deliverable	Data Collection Complete	Completion or Delivery
Institution Date	Mar-13	N/A
Categorical Exclusion	Jul-13	Jul-13
Mitigation Plan	Sep-13	Nov-13
Final Design – Planting Plans	Nov-13	Nov-13
Planting	Jan -14	Feb -14
As-built (Year 0 Monitoring - baseline)	Feb-14	May-14
Year 1 Monitoring	Sept-14	Nov-14
Year 2 Monitoring	Sept-15	Dec-15
Year 3 Monitoring	TBD	TBD
Year 4 Monitoring	TBD	TBD
Year 5 Monitoring	TBD	TBD

2.0 ANNUAL MONITORING

2.1 METHODS

Annual monitoring of the parameters listed below were conducted and reported using the Riparian Buffer and Nutrient Offset Buffer Annual Monitoring Report Template (ver. 1.0; NCDMS, 2014).

Table 2: Monitoring Efforts

Required	Parameter	Quantity	Frequency	Notes
X	Vegetation	23 Plots (2.5% of Planted Area)	Annual	Vegetation will be monitored using the CVS-NCDMS Level 1 and 2 protocols
X	Exotic and nuisance vegetation		Annual	Locations of exotic and nuisance vegetation will be identified
X	Project Boundary		Semi-annual	Locations of vegetation damage, boundary encroachments, etc. will be mapped

To assess whether the vegetation performance standards are achieved, the Carolina Vegetation Survey (CVS)-NCDMS Protocol for Recording Vegetation Version 4.2 (Lee *et al.*, 2008) was used to perform annual Level 2 monitoring of 23 plots distributed across the planted area (Figure 3: Year 2 Monitoring Results). These plots were placed throughout the re-established buffer to get a representative sample of planted vegetation. MY 2 monitoring was conducted in September 2015, and subsequent years of vegetation monitoring data will continue to be collected between June 1 and September 31. Individual plot data will be provided to NCDMS and CVS following CVS-NCDMS guidance.

Each corner of the vegetation plots is marked with steel electrical metallic tubing (EMT) driven into the ground and capped. Pink flagging was used to mark the counted stems, orange flagging was used to mark the southwest vegetation plot corner pins, and blue flagging was used to mark the other three corners.

General visual vegetation monitoring was also performed in MY 2. This inspection assessed any potential problems such as poor stem density areas, areas of poor growth rate/poor vigor, bare areas, and problematic invasive species.

Photographs of vegetation plots were taken at each photo station, which is located at the southwest corner of each plot, facing diagonal to the northeast corner. Photographs can be found in Appendix A.

Vegetation data output tables can be found in Appendix B. The measure of vegetative success for the site will be the survival of at least 320 planted hardwood stems per acre at the end of the fifth monitoring year.

2.2 RESULTS AND DISCUSSION

All monitoring activities were conducted successfully, and overall the site is in very good condition. Vegetation plot data was collected on September 14, 16, and 17, 2015. The scanned field datasheets are provided as Appendix C. Of the 23 plots sampled, 19 plots met or exceeded the success criteria. Of these, three plots exceeded the success criteria by less than 10% (Figure 3: Year 2 Monitoring Results and Appendix B: CVS Vegetation Monitoring Output Tables). Vegetation plots 12 to 15 did not meet success criteria for planted stems. Volunteer hardwood stems in vegetation plots 13 and 14 elevate stem abundance above the 320 stems per acre minimum threshold (Appendix B: CVS Vegetation Monitoring Output Tables). It appears that vegetation plot 12

did not meet success criteria because significant amounts of sediment eroded from the upland slope during storm events and either buried or washed away planted stems. Vegetation Plot 13 did not meet the success criteria due to an overgrowth of sericea lespedeza (*Lespedeza cuneate*), which overcrowded many of the planted stems. It appears that the soil in Vegetation plots 14 and 15 was compacted from previous agricultural activities. It may be that the planted stems have not established well in those conditions. Due to the continued lack of a planted stem density that meets success criteria in four vegetation plots, O'Brien & Gere will take remedial action, which will likely include supplemental planting and hand fertilization.

An approximately 30-foot by 30-foot area of common reed (*Phragmites australis*) was identified during baseline monitoring within the conservation easement boundary on the east side of UT1 to Coon Creek, just north of the farm crossing north of Winding Oak Road. The area was treated on September 15, 2014 by River Works using an herbicide. The treatment appears to have successfully removed common reed from the area in MY 2.

Japanese honeysuckle (*Lonicera japonica*), Chinese privet (*Ligustrum sinense*), Chinese wisteria (*Wisteria sinensis*), and multifloral rose (*Rosa multiflora*) were seen sporadically throughout the site. However, these occurrences were isolated, and do not appear to be compromising planted stem success at this time.

Two areas of invasive species may be compromising planted stems, and do warrant treatment at this time: Sericea lespedeza at Vegetation Plot 13, and dodder (*Cuscuta sp.*) at Vegetation Plot 10. The affected areas in and around Vegetation Plots 13 and 10 will be treated using aquatic-safe methods. Planted stem mortality associated with the treatment methods selected is not anticipated. If mortality is observed following treatment, the treatment areas will be replanted with bare-root seedlings.

Gullies and fishing access encroachment north of Winding Oak Road were observed at the Crews Farm Lake entrance. Remedial action to prevent further encroachment and limit erosion is being investigated and coordinated with the landowner. This area will continue to be monitored.

2.3 MAINTENANCE AND MANAGEMENT

The site is monitored annually, and physical inspection of the site will be conducted twice per year throughout the post-construction monitoring period, or until performance standards are met. During MY 2, vegetation monitoring was conducted on September 16-17, 2015, and physical inspections were conducted on April 16, 2015 and September 14, 2015. Routine maintenance planned for the coming year includes the following:

Table 3: Maintenance Activities

Component/Feature	Maintenance Activities
Vegetation	Invasive plant species, areas of bare soil, and poor stem density will be monitored during annual monitoring efforts. Four vegetation plots with poor stem density will be replanted (Vegetation Plots 12 through 15). Dodder (Vegetation Plot 10) and sericea lespedeza (Vegetation Plot 13) will be spot-treated as needed.
Site Boundary	Boundary markers disturbed, damaged, or destroyed will be repaired and/or replaced on an as needed basis. Gullies and fishing access encroachment near the Crews Farm Lake entrance will be monitored and remediated as appropriate.
Ford Crossing	The ford crossings within the site will be maintained by the landowner and only as allowed by the Conservation Easement.
Irrigation Access	The mobile irrigation equipment access point to Crews Farm Lake will be maintained by the landowner and only as allowed by the Conservation Easement.

3.0 REGULATORY CONSIDERATIONS

3.1 PROJECT COMPONENTS AND MITIGATION CREDITS

Table 4: Project Components and Mitigation Credits

Component Summation		
Restoration Level	**Buffer (square ft)**	**Nutrient Offset (square ft)**
0 to 50 feet from TOB	187,216	N/A
50 to 100 feet from TOB	172,780	N/A
100 to 200 feet from TOB	N/A	631,826
Total Restoration	359,996	631,826

While 359,996 ft^2 of riparian buffer (8.3 acres) and 631,826 ft^2 of nutrient offset was planted for the Project, the Project can generate a maximum of 8.1 and 14.5 mitigation credits respectively, per Full-Delivery Contract No. 5153. Therefore, the mitigation credits and restoration acreages in the following tables reflect the allowable credits, as opposed to the planted riparian buffer acreage.

Mitigation Credits			
Type	**Riparian Buffer Restoration**	**Nitrogen Nutrient Offset**	**Phosphorous Nutrient Offset**
Totals	352,836 ft^2 (8.1 acres)	631,620 ft^2 (32,959.95 lbs)	631,620 ft^2 (2,122.80 lbs)

Project Components					
Project Component or Reach ID	**Stationing/ Location**	**Approach (PI, PII, etc.)**	**Restoration or Restoration Equivalent**	**Restoration Acreage**	**Mitigation Ratio**
UT1 and UT2	North of Winding Oak Rd	Planting	Buffer Restoration	5.1*	1:1
		Planting	Nutrient Offset Restoration	7.3	1:1
UT1 and UT3	South of Winding Oak Rd	Planting	Buffer Restoration	0.8	1:1
		Planting	Nutrient Offset Restoration	1.0	1:1
UT4 and Crews Farm Lake	South of Winding Oak Rd	Planting	Buffer Restoration	2.2	1:1
		Planting	Nutrient Offset Restoration	6.2	1:1

*Actual planted acreage was 5.2 acres. As described above, the Project can generate a maximum of 8.1 buffer credits.

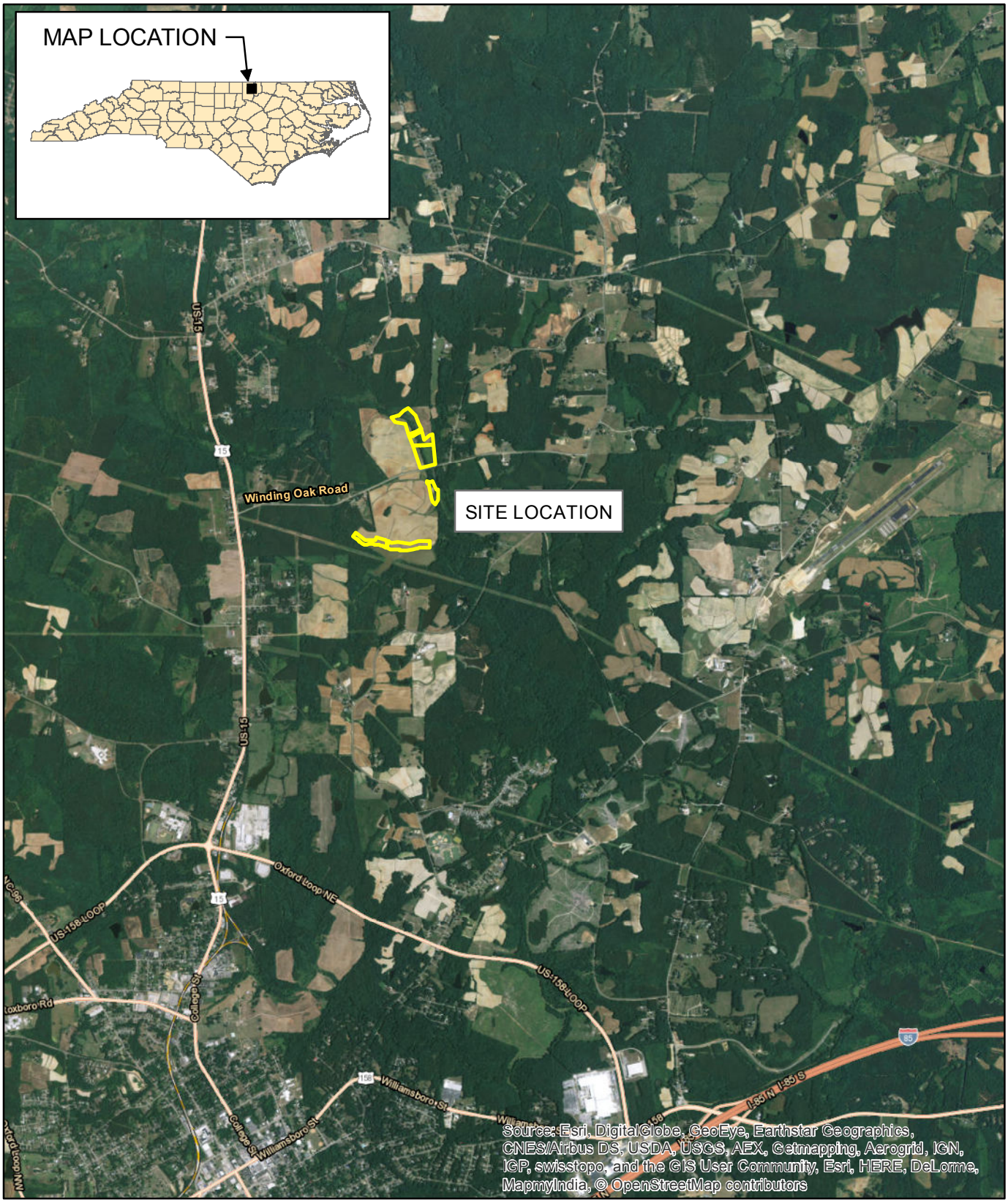
3.2 SUMMARY

All mitigation activities to date have been successful. This Project is currently on track to provide the credits described in the table above.

4.0 REFERENCES

Lee, Michael T., R. K. Peet, S. D. Roberts, and T. R. Wentworth. 2008. CVS-NCDMS Protocol for Recording Vegetation, Version 4.2 Available URL: http://cvs.bio.unc.edu/methods.htm. [Date Accessed: 14 October 2013].

FIGURE 1



LEGEND

Project Area

NCDMS FULL DELIVERY PROJECT #95807
COON CREEK RIPARIAN BUFFER AND
NUTRIENT OFFSET MITIGATION PROJECT
GRANVILLE COUNTY, NC

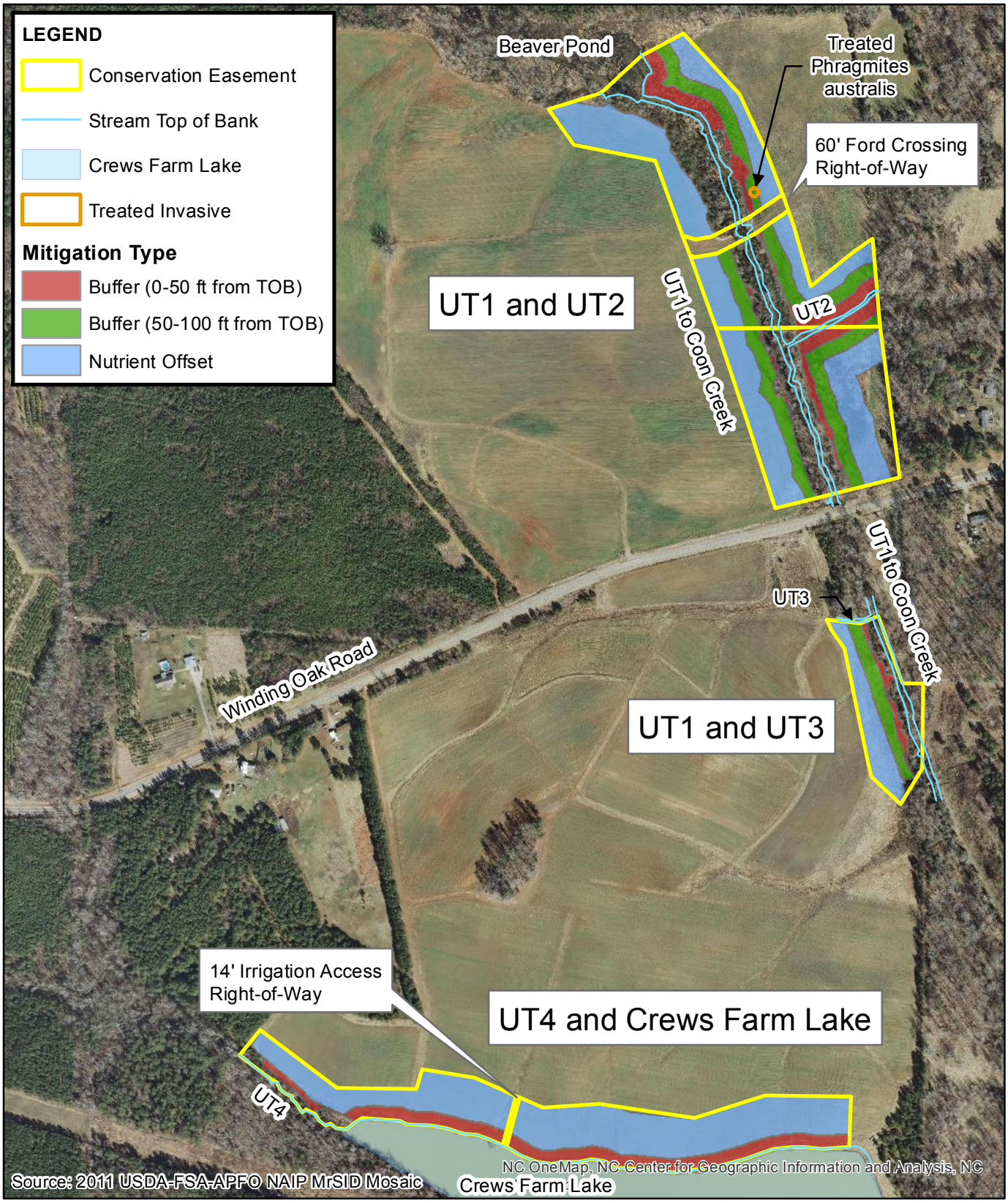
N

VICINITY MAP

0 0.25 0.5 1
Miles

9/17/2015
50349

FIGURE 2



NCDMS FULL DELIVERY PROJECT #95807
COON CREEK RIPARIAN BUFFER AND
NUTRIENT OFFSET MITIGATION PROJECT
GRANVILLE COUNTY, NC

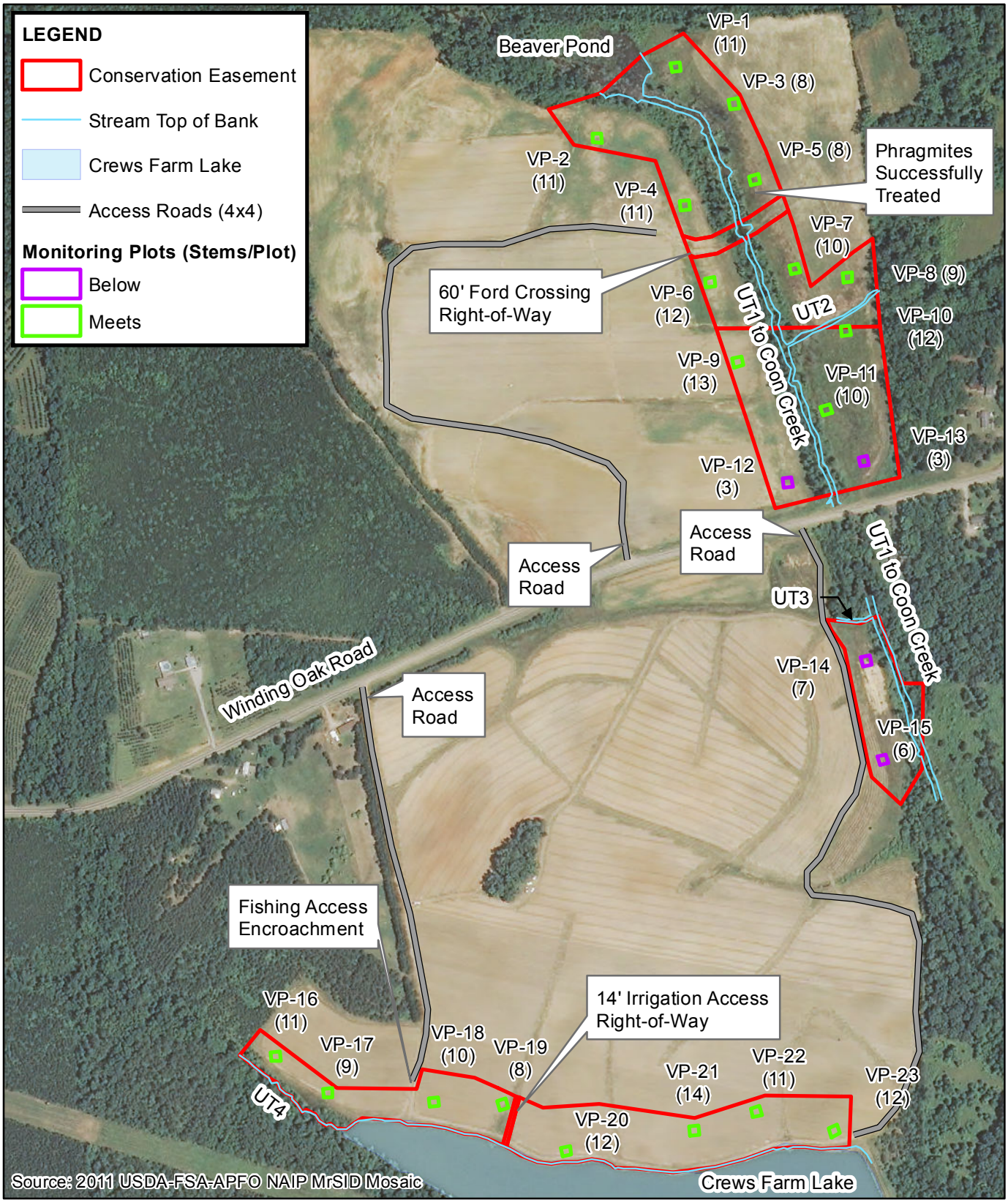
PROJECT COMPONENTS

N

9/17/2015
50349

0 250 500 1,000
Feet

FIGURE 3



NCDMS FULL DELIVERY PROJECT #95807
COON CREEK RIPARIAN BUFFER AND
NUTRIENT OFFSET MITIGATION PROJECT
GRANVILLE COUNTY, NC

YEAR 2 MONITORING RESULTS

N

0 250 500 1,000
Feet

9/17/15
50349

YEAR 2 MONITORING PHOTOGRAPHS

Client Name	**Site Location**	**Project No.**
NCDMS	Granville County	95807

Photo No.	**Date**
1	9/14/15

DESCRIPTION

Vegetation Monitoring Plot and Photo Point 1, view northwest from southwest corner.

Client Name	**Site Location**	**Project No.**
NCDMS	Granville County	95807

Photo No.	**Date**
2	9/14/15

Description

Vegetation Monitoring Plot and Photo Point 2, view northwest from southwest corner.

Client Name	**Site Location**	**Project No.**
NCDMS	Granville County	95807

Photo No.	**Date**
3	9/16/15

Description

Vegetation Monitoring Plot and Photo Point 3, view northwest from southwest corner.

Client Name	**Site Location**	**Project No.**
NCDMS	Granville County	95807

Photo No.	**Date**
4	9/16/15

Description

Vegetation Monitoring Plot and Photo Point 4, view northwest from southwest corner.

Client Name	**Site Location**	**Project No.**
NCDMS	Granville County	95807

Photo No.	**Date**
5	9/16/15

Description

Vegetation Monitoring Plot and Photo Point 5, view northwest from southwest corner.

Client Name	**Site Location**	**Project No.**
NCDMS	Granville County	95807

Photo No.	**Date**
6	9/16/15

Description

Vegetation Monitoring Plot and Photo Point 6, view northwest from southwest corner.

Client Name	**Site Location**	**Project No.**
NCDMS	Granville County	95807

Photo No.	**Date**
7	9/17/15

Description

Vegetation Monitoring Plot and Photo Point 7, view northwest from southwest corner.

Client Name	**Site Location**	**Project No.**
NCDMS	Granville County	95807

Photo No.	**Date**
8	9/17/15

Description

Vegetation Monitoring Plot and Photo Point 8, view northwest from southwest corner.

Client Name	**Site Location**	**Project No.**
NCDMS	Granville County	95807

Photo No.	**Date**
9	9/16/15

Description

Vegetation Monitoring Plot and Photo Point 9, view northwest from southwest corner.

Client Name	**Site Location**	**Project No.**
NCDMS	Granville County	95807

Photo No.	**Date**
10	9/17/15

Description

Vegetation Monitoring Plot and Photo Point 10, view northwest from southwest corner.

Client Name	**Site Location**	**Project No.**
NCDMS	Granville County	95807

Photo No.	**Date**
11	9/17/15

Description

Vegetation Monitoring Plot and Photo Point 11, view northwest from southwest corner.

Client Name	**Site Location**	**Project No.**
NCDMS	Granville County	95807

Photo No.	**Date**
12	9/16/15

Description

Vegetation Monitoring Plot and Photo Point 12, view northwest from southwest corner.

Client Name	**Site Location**	**Project No.**
NCDMS	Granville County	95807

Photo No.	**Date**
13	9/17/15

Description

Vegetation Monitoring Plot and Photo Point 13, view northwest from southwest corner.

Client Name	**Site Location**	**Project No.**
NCDMS	Granville County	95807

Photo No.	**Date**
14	9/16/15

Description

Vegetation Monitoring Plot and Photo Point 14, view northwest from southwest corner.

Client Name	**Site Location**	**Project No.**
NCDMS	Granville County	95807

Photo No.	**Date**
15	9/14/15

Description

Vegetation Monitoring Plot and Photo Point 15, view northwest from southwest corner.

Client Name	**Site Location**	**Project No.**
NCDMS	Granville County	95807

Photo No.	**Date**
16	9/16/15

Description

Vegetation Monitoring Plot and Photo Point 16, view northwest from southwest corner.

Client Name	**Site Location**	**Project No.**
NCDMS	Granville County	95807

Photo No.	**Date**
17	9/16/15

Description

Vegetation Monitoring Plot and Photo Point 17, view northwest from southwest corner.

Client Name	**Site Location**	**Project No.**
NCDMS	Granville County	95807

Photo No.	**Date**
18	9/16/15

Description

Vegetation Monitoring Plot and Photo Point 18, view northwest from southwest corner.

Client Name	**Site Location**	**Project No.**
NCDMS	Granville County	95807

Photo No.	**Date**
19	9/16/15

Description

Vegetation Monitoring Plot and Photo Point 19, view northwest from southwest corner.

Client Name	**Site Location**	**Project No.**
NCDMS	Granville County	95807

Photo No.	**Date**
20	9/16/15

Description

Vegetation Monitoring Plot and Photo Point 20, view northwest from southwest corner.

Client Name	**Site Location**	**Project No.**
NCDMS	Granville County	95807

Photo No.	**Date**
21	9/16/15

Description

Vegetation Monitoring Plot and Photo Point 21, view northwest from southwest corner.

Client Name	**Site Location**	**Project No.**
NCDMS	Granville County	95807

Photo No.	**Date**
22	9/16/15

Description

Vegetation Monitoring Plot and Photo Point 22, view northwest from southwest corner.

Client Name	**Site Location**	**Project No.**
NCDMS	Granville County	95807

Photo No.	**Date**
23	9/14/15

Description

Vegetation Monitoring Plot and Photo Point 23, view northwest from southwest corner.

Appendix B
EEP Project Code 95807. Project Name: Coon Creek Riparian Buffer and Nutrient Offset Mitigation Project
"Table 7" - Current Plot Data and Annual Means (MY2 2015)

Current Plot Data (MY2 2015)																									
			Volunteers			95807-01-0002			95807-01-0003			95807-01-0004			95807-01-0005			95807-01-0006			95807-01-0007			95807-01-0008		
Scientific Name	Common Name	Species Type	PnoLS	P-all	T	PnoLS	P-all	T	PnoLS	P-all	T	PnoLS	P-all	T	PnoLS	P-all	T	PnoLS	P-all	T	PnoLS	P-all	T	PnoLS	P-all	T
Acer rubrum	red maple	Tree																							
Asimina triloba	pawpaw	Tree	1	1	1																				
Carpinus caroliniana	American hornbeam	Tree	1	1	1										1	1	1				1	1	1		
Carya alba	mockernut hickory	Tree																							
Carya glabra	pignut hickory	Tree			1									1											
Cercis canadensis	eastern redbud	Tree																1	1	1					
Cornus florida	flowering dogwood	Tree				2	2	2				5	5	5										2	2	2
Diospyros virginiana	common persimmon	Tree				2	2	2				3	3	3				2	2	2	1	1	1		
Fraxinus pennsylvanica	green ash	Tree			1			9			11			11			99			3			19			48
Juglans nigra	black walnut	Tree																							
Liquidambar styraciflua	sweetgum	Tree			49			22			6			3			2						53			8
Liriodendron tulipifera	tuliptree	Tree						1	1	1	1													1	1	5
Nyssa sylvatica	blackgum	Tree				3	3	3				2	2	2				4	4	4	1	1	1	3	3	3
Pinus taeda	loblolly pine	Tree																							
Platanus occidentalis	American sycamore	Tree	6	6	15										1	1	2						1	1	1	15
Prunus serotina	black cherry	Tree																								1
Quercus falcata	southern red oak	Tree							2	2	2	1	1	1				3	3	3	2	2	2	1	1	1
Quercus michauxii	swamp chestnut oak	Tree	1	1	1				2	2	2				5	5	5							1	1	1
Quercus nigra	water oak	Tree	2	2	2	4	4	4	3	3	3				1	1	1	2	2	2	5	5	5			
Quercus phellos	willow oak	Tree			1															1			1			1
Salix nigra	black willow	Tree																								
Ulmus alata	winged elm	Tree			2																					7
Ulmus americana	American elm	Tree			3												6						4			
		Stem count	11	11	77	11	11	43	8	8	25	11	11	26	8	8	116	12	12	16	10	10	88	9	9	92
		size (ares)	1			1			1			1			1			1			1			1		
		size (ACRES)	0.02			0.02			0.02			0.02			0.02			0.02			0.02			0.02		
		Species count	5	5	11	4	4	7	4	4	6	4	4	7	4	4	7	5	5	7	5	5	10	6	6	11
		Stems per ACRE	445.2	445.2	3116	445.2	445.2	1740	323.7	323.7	1012	445.2	445.2	1052	323.7	323.7	4694	485.6	485.6	647.5	404.7	404.7	3561	364.2	364.2	3723

Appendix B
EEP Project Code 95807. Project Name: Coon Creek Riparian Buffer and Nutrient Offset Mitigation Project
"Table 7" - Current Plot Data and Annual Means (MY2 2015)

Current Plot Data (MY2 2015)

Scientific Name	Common Name	Species Type	95807-01-0009			95807-01-0010			95807-01-0011			95807-01-0012			95807-01-0013			95807-01-0014			95807-01-0015			95807-01-0016		
			PnoLS	P-all	T	PnoLS	P-all	T	PnoLS	P-all	T	PnoLS	P-all	T	PnoLS	P-all	T	PnoLS	P-all	T	PnoLS	P-all	T	PnoLS	P-all	T
Acer rubrum	red maple	Tree																								3
Asimina triloba	pawpaw	Tree				3	3	3	1	1	1															
Carpinus caroliniana	American hornbeam	Tree				3	3	3			1							1	1	1	1	1	1			
Carya alba	mockernut hickory	Tree																								
Carya glabra	pignut hickory	Tree																								
Cercis canadensis	eastern redbud	Tree	1	1	1										1	1	1							1	1	1
Cornus florida	flowering dogwood	Tree	2	2	2																			3	3	3
Diospyros virginiana	common persimmon	Tree	4	4	4				1	1	1									2	1	1	1	2	2	2
Fraxinus pennsylvanica	green ash	Tree						1			3						2			1						4
Juglans nigra	black walnut	Tree																								
Liquidambar styraciflua	sweetgum	Tree			1			32			1						2			9						7
Liriodendron tulipifera	tuliptree	Tree				2	2	2	3	3	3				1	1	1				1	1	1	1	1	2
Nyssa sylvatica	blackgum	Tree	3	3	3																					
Pinus taeda	loblolly pine	Tree																								10
Platanus occidentalis	American sycamore	Tree				1	1	2	4	4	10						1	2	2	22						
Prunus serotina	black cherry	Tree																								
Quercus falcata	southern red oak	Tree	1	1	1																			2	2	2
Quercus michauxii	swamp chestnut oak	Tree				2	2	2				2	2	2				4	4	4	3	3	3			
Quercus nigra	water oak	Tree	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1							2	2	2
Quercus phellos	willow oak	Tree																								
Salix nigra	black willow	Tree																		66						
Ulmus alata	winged elm	Tree															7									
Ulmus americana	American elm	Tree									4						7									
	Stem count		13	13	14	12	12	46	10	10	25	3	3	3	3	3	22	7	7	105	6	6	6	11	11	36
	size (ares)		1			1			1			1			1			1			1			1		
	size (ACRES)		0.02			0.02			0.02			0.02			0.02			0.02			0.02			0.02		
	Species count		6	6	7	6	6	8	5	5	9	2	2	2	3	3	8	3	3	7	4	4	4	6	6	10
	Stems per ACRE		526.1	526.1	566.6	485.6	485.6	1862	404.7	404.7	1012	121.4	121.4	121.4	121.4	121.4	890.3	283.3	283.3	4249	242.8	242.8	242.8	445.2	445.2	1457

Appendix B
EEP Project Code 95807. Project Name: Coon Creek Riparian Buffer and Nutrient Offset Mitigation Project
"Table 7" - Current Plot Data and Annual Means (MY2 2015)

Current Plot Data (MY2 2015)																							
			95807-01-0017			95807-01-0018			95807-01-0019			95807-01-0020			95807-01-0021			95807-01-0022			95807-01-0023		
Scientific Name	Common Name	Species Type	PnoLS	P-all	T	PnoLS	P-all	T	PnoLS	P-all	T	PnoLS	P-all	T	PnoLS	P-all	T	PnoLS	P-all	T	PnoLS	P-all	T
Acer rubrum	red maple	Tree			1																		
Asimina triloba	pawpaw	Tree																					
Carpinus caroliniana	American hornbeam	Tree																					
Carya alba	mockernut hickory	Tree																					
Carya glabra	pignut hickory	Tree																		2			
Cercis canadensis	eastern redbud	Tree										1	1	1									
Cornus florida	flowering dogwood	Tree	1	1	1																		
Diospyros virginiana	common persimmon	Tree				1	1	1	3	3	3				3	3	3	3	3	3	1	1	1
Fraxinus pennsylvanica	green ash	Tree			18			6			3									1			
Juglans nigra	black walnut	Tree																					
Liquidambar styraciflua	sweetgum	Tree			6															2			
Liriodendron tulipifera	tuliptree	Tree	3	3	3	1	1	1	1	1	1	2	2	2	2	2	2	1	1	1	3	3	4
Nyssa sylvatica	blackgum	Tree	1	1	1	3	3	3	3	3	3	4	4	4	2	2	2	3	3	3	3	3	3
Pinus taeda	loblolly pine	Tree			16			2												1			1
Platanus occidentalis	American sycamore	Tree			1																		
Prunus serotina	black cherry	Tree																					
Quercus falcata	southern red oak	Tree	2	2	2							3	3	3	1	1	1	1	1	1	1	1	1
Quercus michauxii	swamp chestnut oak	Tree																					
Quercus nigra	water oak	Tree	2	2	2	5	5	5	1	1	1	2	2	2	6	6	6	3	3	3	4	4	4
Quercus phellos	willow oak	Tree																					
Salix nigra	black willow	Tree																					
Ulmus alata	winged elm	Tree																					
Ulmus americana	American elm	Tree			1																		
		Stem count	9	9	52	10	10	18	8	8	11	12	12	12	14	14	14	11	11	17	12	12	14
		size (ares)	1			1			1			1			1			1			1		
		size (ACRES)	0.02			0.02			0.02			0.02			0.02			0.02			0.02		
		Species count	5	5	11	4	4	6	4	4	5	5	5	5	5	5	5	5	5	9	5	5	6
		Stems per ACRE	364.2	364.2	2104	404.7	404.7	728.4	323.7	323.7	445.2	485.6	485.6	485.6	566.6	566.6	566.6	445.2	445.2	688	485.6	485.6	566.6

Appendix B
EEP Project Code 95807. Project Name: Coon Creek Riparian Buffer and Nutrient Offset Mitigation Project
"Table 7" - Current Plot Data and Annual Means (MY2 2015)

Current Plot Data (MY2 2015)												
			MY2 (2015)			MY1 (2014)			MY0 (2014)			
Scientific Name	Common Name	Species Type	PnoLS	P-all	T	PnoLS	P-all	T	PnoLS	P-all	T	
Acer rubrum	red maple	Tree			4			2				
Asimina triloba	pawpaw	Tree	5	5	5	6	6	6	24	24	24	
Carpinus caroliniana	American hornbeam	Tree	8	8	9	9	9	9	10	10	10	
Carya alba	mockernut hickory	Tree						2				
Carya glabra	pignut hickory	Tree			4							
Cercis canadensis	eastern redbud	Tree	5	5	5	8	8	8	13	13	13	
Cornus florida	flowering dogwood	Tree	15	15	15	17	17	17	25	25	25	
Diospyros virginiana	common persimmon	Tree	27	27	29	31	31	31	40	40	40	
Fraxinus pennsylvanica	green ash	Tree			240			72				
Juglans nigra	black walnut	Tree				1	1	1	4	4	4	
Liquidambar styraciflua	sweetgum	Tree			203			40				
Liriodendron tulipifera	tuliptree	Tree	23	23	30	30	30	33	49	49	49	
Nyssa sylvatica	blackgum	Tree	35	35	35	35	35	35	27	27	27	
Pinus taeda	loblolly pine	Tree			30							
Platanus occidentalis	American sycamore	Tree	15	15	69	12	12	52	16	16	16	
Prunus serotina	black cherry	Tree			1							
Quercus falcata	southern red oak	Tree	20	20	20	25	25	25	23	23	23	
Quercus michauxii	swamp chestnut oak	Tree	20	20	20	20	20	20	24	24	24	
Quercus nigra	water oak	Tree	48	48	48	53	53	53	63	63	63	
Quercus phellos	willow oak	Tree			4							
Salix nigra	black willow	Tree			66			36				
Ulmus alata	winged elm	Tree			16			19				
Ulmus americana	American elm	Tree			25							
		Stem count	221	221	878	247	247	461	318	318	318	
		size (ares)	23			23			23			
		size (ACRES)	0.57			0.57			0.57			
		Species count	11	11	21	12	12	18	12	12	12	
		Stems per ACRE	388.9	388.9	1545	434.6	434.6	811.1	559.5	559.5	559.5	

Appendix B
Coon Creek Riparian Buffer and Nutrient Offset Mitigation Project (#95807)
Year 2 (14-Sep-2015 to 17-Sep-2015)
"Table 8" - Vegetation Plot Summary Information

Plot #	Riparian Buffer Stems[1]	Invasives	Volunteers	Total	Unknown Growth Form
1	11	0	66	**77**	0
2	11	0	32	**43**	0
3	8	0	17	**25**	0
4	11	0	15	**26**	0
5	8	0	108	**116**	0
6	12	0	4	**16**	0
7	10	0	78	**88**	0
8	9	0	83	**92**	0
9	13	0	1	**14**	0
10	12	0	34	**46**	0
11	10	0	15	**25**	0
12	3	0	0	**3**	0
13	3	0	19	**22**	0
14	7	0	98	**105**	0
15	6	0	0	**6**	0
16	11	0	25	**36**	0
17	9	0	43	**52**	0
18	10	0	8	**18**	0
19	8	0	3	**11**	0
20	12	0	0	**12**	0
21	14	0	0	**14**	0
22	11	0	6	**17**	0
23	12	0	2	**14**	0

Stem Class	**characteristics**
[1]Buffer Stems	Native planted hardwood trees. Does NOT include shrubs. No pines. No vines.

Appendix B
Coon Creek Riparian Buffer and Nutrient Offset Mitigation Project (#95807)
Year 2 (14-Sep-2015 to 17-Sep-2015)
"Table 8" - Vegetation Plot Summary Information

Riparian Buffer Vegetation Totals

Plot #	(per acre) Riparian Buffer Stems[1]	Success Criteria Met?
1	445	Yes
2	445	Yes
3	324	Yes
4	445	Yes
5	324	Yes
6	486	Yes
7	405	Yes
8	364	Yes
9	526	Yes
10	486	Yes
11	405	Yes
12	121	No
13	121	No
14	283	No
15	243	No
16	445	Yes
17	364	Yes
18	405	Yes
19	324	Yes
20	486	Yes
21	567	Yes
22	445	Yes
23	486	Yes
Project Avg	**389**	**Yes**

Stem Class	**characteristics**
[1]Buffer Stems	Native planted hardwood trees. Does NOT include shrubs. No pines. No vines.

Vegetation Monitoring Data (VMD) Datasheet **Please fill in any missing data and correct any errors.**

Plot 95807-01-0001

VMD Year (1-5): 2 Date: 9/14/15 - / /

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N: (dec.deg. or m) 36.369813 Datum: NAD83/WGS84

Longitude or UTM-E: -78.574152 UTM Zone: 17

Coordinate Accuracy (m): 1 X-Axis bearing (deg): 90

Plot Dimensions: X: 10 Y: 10 ☐ Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X

Party: D. Rawson, C. DeFrancesco Role:

Date last planted: 02/2014

New planting date m/yy? /

☐ Check box if plot was not sampled, specify reason below

Notes: Asiatic tearthumb is being outcompeted by native vegetation.

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2014 Data Height 1cm*	Sep 2014 Data DBH 1 cm	Notes*	THIS YEAR'S DATA Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
1	**Quercus nigra**	ⓑ	R	0.6	0.3	35.5		☐	41		☐	2		UNK
2	Platanus occidentalis	ⓐ	R	0.3	8.5	*Missing*		☐	84		☒	3		
3	**Asimina triloba**	ⓒ	R	2.6	5.3	*Missing*		☐	—		☐			Missing, dmg
4	Quercus nigra	ⓕ	R	4.8	3.3	53.0		☐	38		☒	2		Missing, dmg UNK
5	**Platanus occidentalis**	ⓔ	R	3.5	6.5	46.0		☐	53		☐	3		
6	Platanus occidentalis	ⓓ	R	3.0	8.9	*Missing*		☐	61		☒	3		
7	**Platanus occidentalis**	ⓖ	R	5.1	9.3	56.5		☑	85		☐	2		UNK
8	Quercus michauxii	ⓘ	R	7.1	7.6	44.0		☐	60		☐	3		
9	**Asimina triloba**	ⓘ	R	7.0	4.5	28.0		☐	35		☐	3		
10	Carpinus caroliniana	ⓚ	R	9.0	1.6	42.0		☐	47		☐	2		UNK
11	**Platanus occidentalis**	ⓛ	R	9.0	5.2	82.0		☐	dmg 118		☒	3		
12	Platanus occidentalis	ⓗ	R	6.0	0.6	29.5		☐	44		☐	3		

 # stems: 12

New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes

***Notes by ID:** 7-Insects

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

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Plot (continued): 95807-01-0001					Sep 2014 Data			Notes*	THIS YEAR'S DATA						
ID	Species	map char	source	X (m)	Y (m)	ddh (mm)	Height (cm)	DBH (cm)		ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage* Notes

Natural Woody Stems - tallied by species

Explanation of cut-off & subsampling**:

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.): ☐ 10cm ☐ 50cm ☐ 100cm ☐ 137cm

Species Name	☑ c	Seedlings — Height Classes				Saplings — DBH			Trees — DBH		
		Sub-Seed	10 cm-50 cm	50 cm-100 cm	100 cm-137 cm	Sub-Sapl	0-1 cm	1-2.5	2.5-5	5-	=10 (write DBH)
Sweet Gum		—				—					
Sycamore		—				—					
American Elm		—				—					
Winged Elm		—				—					
Green Ash		—				—					
Pig Nut Hickory		—				—					
Willow Oak		—				—					

**Required if cut-off >10cm or subsample ? 100%.

●1 ●2 ●3 ●4 ●5 ●6 ●7 ●8 ●9 ●10

Form WS2, ver 9.1

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

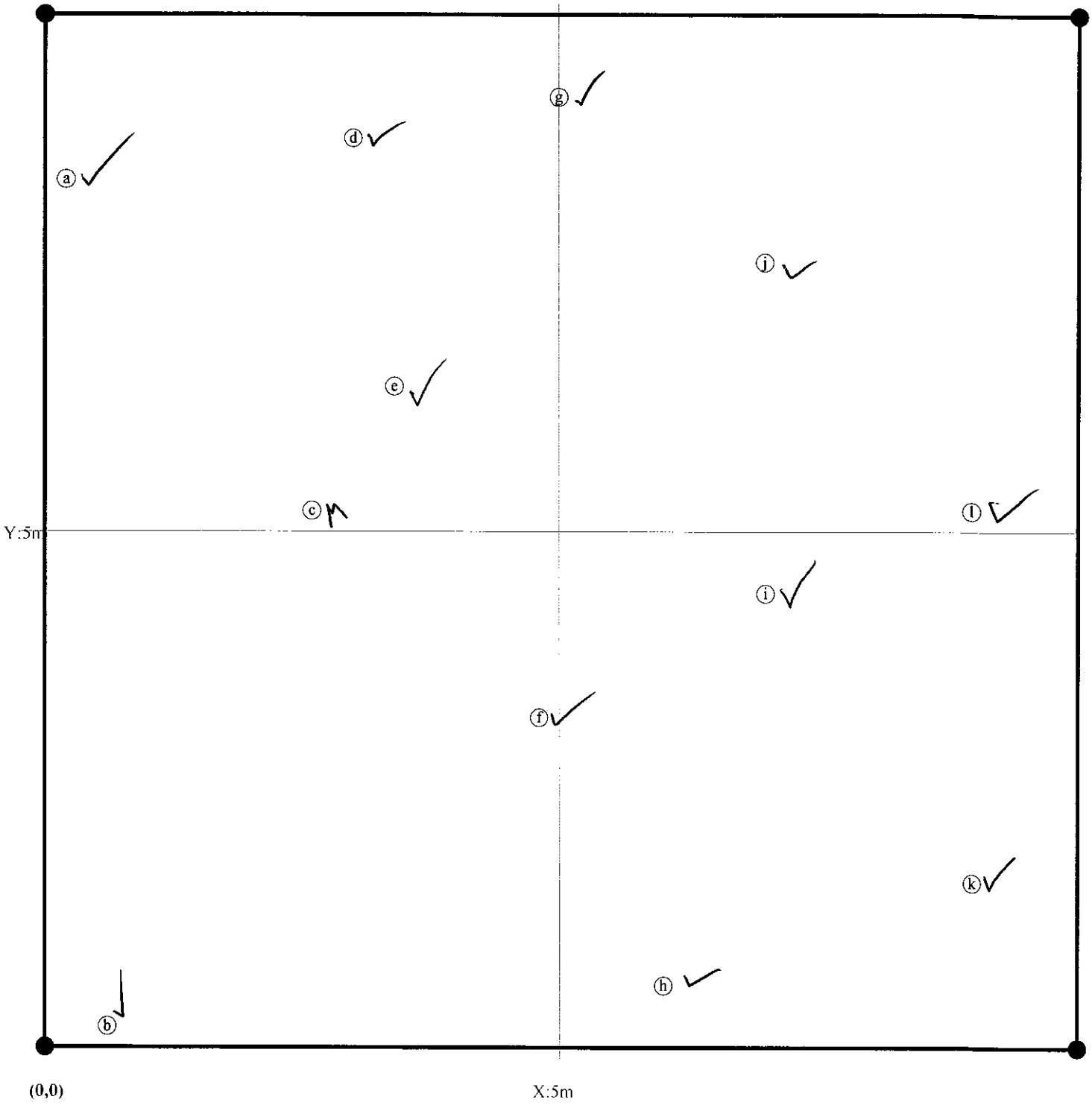
*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Map of stems on plot 95807-01-0001

X-axis: 90 ° N

 # stems: 12
map size: LARGE



*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Vegetation Monitoring Data (VMD) Datasheet **Please fill in any missing data and correct any errors.**

Plot 95807-01-0002

VMD Year (1-5): 2 Date: 9/14/15 - / /

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N: (dec.deg. or m) 36.369127 Datum: NAD83/WGS84

Longitude or UTM-E: -78.575113 UTM Zone: 17

Coordinate Accuracy (m): 1 X-Axis bearing (deg): 90

Plot Dimensions: X: 10 Y: 10 ☐ Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X

Party:	Role:
D. Ramsay	
C. DeFrancesco	

Date last planted: 02/2014

New planting date m/yy? /

☐ Check box if plot was not sampled, specify reason below

Notes:

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2014 Data Height 1cm*	Sep 2014 Data DBH 1 cm	Notes*	THIS YEAR'S DATA Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
13	**Quercus nigra**	c	R	2.0	1.5	*Missing*		☐	—		☐			Missing
14	Quercus nigra	d	R	2.3	3.8	89.0		☐	111		☐	3		INS
15	**Cornus florida**	a	R	0.6	5.9	33.0		☐	60		☐	3		
16	Cornus florida	b	R	1.6	8.9	24.5		☐	47		☐	3		
17	**Nyssa sylvatica**	g	R	3.6	8.8	65.0		☐	60		☐	2		VNK
18	Nyssa sylvatica	e	R	3.2	6.0	55.0		☐	— CWD		☐	0		Dead
19	~~Diospyros virginiana~~ Blackgum	i	R	6.3	9.8	47.0		☐	44 ~~40~~		☒	~~2~~ 3 CWD		
20	Diospyros virginiana	h	R	6.0	6.8	54.0		☐	56		☐	3		
22	**Quercus nigra**	f	R	3.6	1.8	33.0		☐	62		☐	3		
23	~~Nyssa sylvatica~~ Persimmon	j	R	7.6	1.0	47.5		☐	118		☐	3		
24	**Quercus nigra**	k	R	8.0	3.0	*Missing*		☐	108		☐	3		
25	~~Diospyros virginiana~~ Blackgum	l	R	8.5	6.0	60.0		☐	62		☐	3		
26	**Quercus nigra**	m	R	9.3	9.0	27.0		☐	96		☐	3		

 # stems: 13

New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

9-14-15

Plot (continued): 95807-01-0002

ID	Species	map char	source	X (m)	Y (m)	Sep 2014 Data ddh (mm)	Height (cm)	DBH (cm)	Notes*	THIS YEAR'S DATA ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

Natural Woody Stems - tallied by species

Explanation of cut-off & subsampling**:

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.): ☐ 10cm ☐ 50cm ☐ 100cm ☐ 137cm

Species Name	☑ c	SEEDLINGS — HEIGHT CLASSES: Sub-Seed	10 cm-50 cm	50 cm-100 cm	100 cm-137 cm	SAPLINGS — DBH: Sub-Sapl	0-1 cm	1-2.5	TREES — DBH: 2.5-	5-	=10 (write DBH)
Sweet Gum		—	4	2		—					
Green Ash		—	2	1		—					
Tulip Poplar		—	1			—					
		—				—					
		—				—					
		—				—					
		—				—					

**Required if cut-off >10cm or subsample ? 100%.

●1 ●2 ●3 ●4 ●5 ●6 ●7 ●8 ●9 ●10

Form WS2, ver 9.1

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

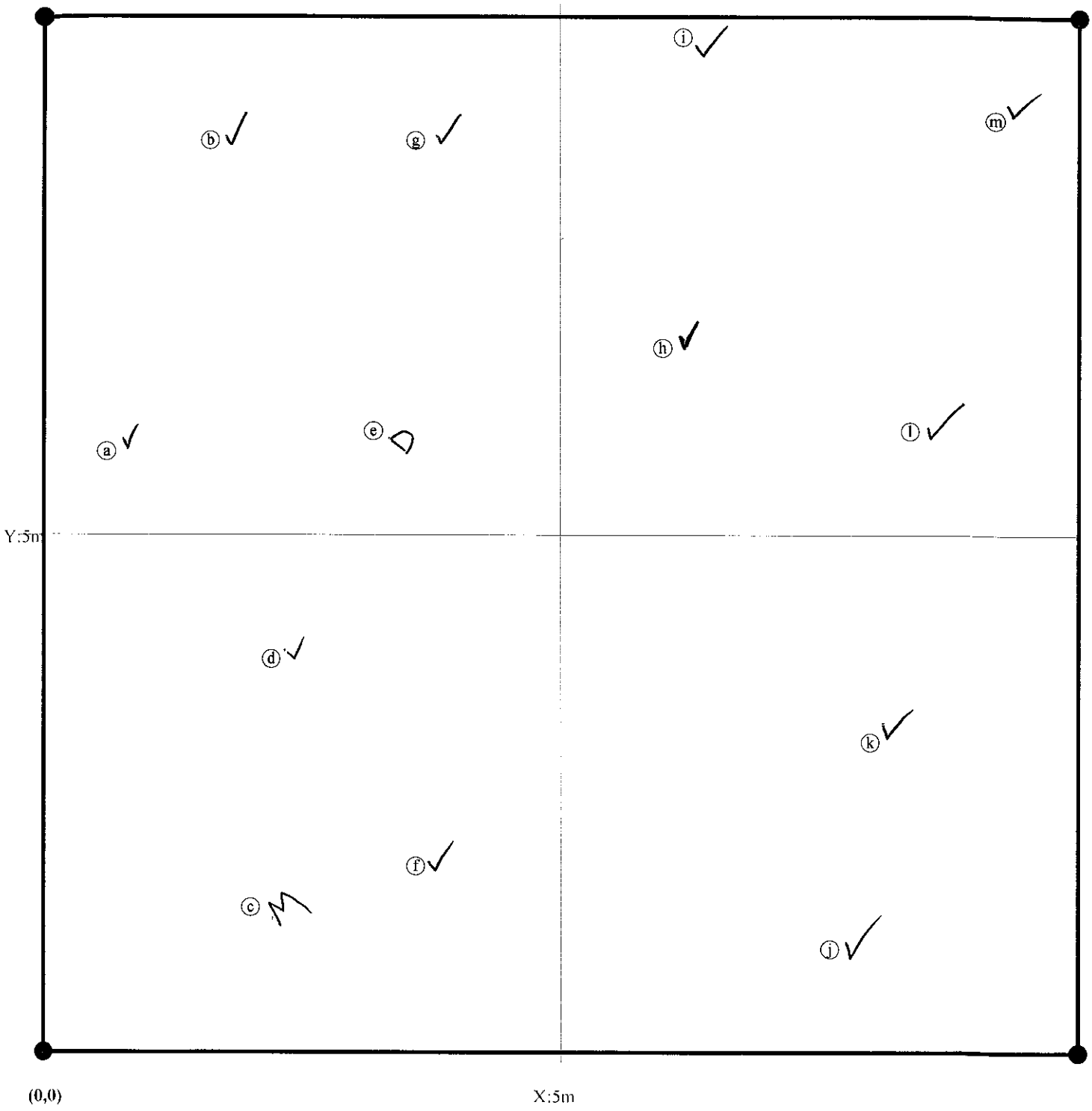
*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Map of stems on plot 95807-01-0002

X-axis: 90 °

N

 # stems: 13
map size: LARGE



*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Printed in the CVS-EEP Entry Tool ver. 2.3.1

Vegetation Monitoring Data (VMD) Datasheet **Please fill in any missing data and correct any errors.**

Plot 95807-01-0003

VMD Year (1-5): 2 Date: 9/16/15 - / /

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N: (dec.deg. or m) 36.369446 Datum: NAD83/WGS84

Longitude or UTM-E: -78.573453 UTM Zone: 17

Coordinate Accuracy (m): 1 X-Axis bearing (deg): 90

Plot Dimensions: X: 10 Y: 10 ☐ Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X

Party:	Role:
Skefula	
Bode	
DeFrancesco	

Date last planted: 02/2014

New planting date m/yy? /

☐ Check box if plot was not sampled, specify reason below

Notes:

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2014 Data Height 1cm*	Sep 2014 Data DBH 1 cm	Notes*	THIS YEAR'S DATA Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
27	Cornus florida	ⓑ	R	1.6	0.3	30.0		☐	—		☐	0		Dead
28	**Quercus falcata**	ⓒ	**R**	**2.0**	**3.1**	**64.0**		☐	71		☐	3		
29	Quercus michauxii	ⓐ	R	1.0	7.5	34.0		☐	34		☐	3		
30	**Quercus nigra**	ⓓ	**R**	**2.3**	**9.0**	**51.5**		☐	48		☐	3	taller	stem broke off
31	Quercus nigra	ⓕ	R	5.0	6.0	47.0		☐	69		☐	3		
32	**Cornus florida**	ⓔ	**R**	**4.0**	**2.0**	***Missing***		☐	—		☐		MISS	ING
33	Quercus falcata	ⓖ	R	5.3	9.3	65.0		☐	80		☐	3	tall	stem died
34	**Liriodendron tulipifera**	ⓘ	**R**	**7.5**	**10.0**	**27.0**		☐	54		☐	3		
35	Cercis canadensis	ⓙ	R	7.9	7.5	32.0		☐	—		☐		MISS	ING
37	**Quercus michauxii**	ⓗ	**R**	**7.5**	**1.8**	**52.0**		☐	40		☐	3		
38	Quercus nigra	ⓚ	R	9.3	5.2	44.0		☐	33		☐	3	taller	stem died

 # stems: *11* New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Plot (continued): 95807-01-0003

ID	Species	map char	source	X (m)	Y (m)	Sep 2014 Data: ddh (mm)	Height (cm)	DBH (cm)	Notes*	THIS YEAR'S DATA: ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

Natural Woody Stems - tallied by species

Explanation of cut-off & subsampling:**

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.): ☐ 10cm ☐ 50cm ☐ 100cm ☐ 137cm

Species Name	☑ c	Seedlings — Height Classes: Sub-Seed	10 cm-50 cm	50 cm-100 cm	100 cm-137 cm	Saplings — DBH: Sub-Sapl	0-1 cm	1-2.5	Trees — DBH: 2.5-	5-	=10 (write DBH)
Sweet Gum		___	1	0		___					
Green Ash		___	1	0		___					
		___				___					
		___				___					
		___				___					
		___				___					
		___				___					

**Required if cut-off >10cm or subsample ? 100%.

●1 ●2 ●3 ●4 ●5 ●6 ●7 ●8 ●9 ●10

Form WS2, ver 9.1

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

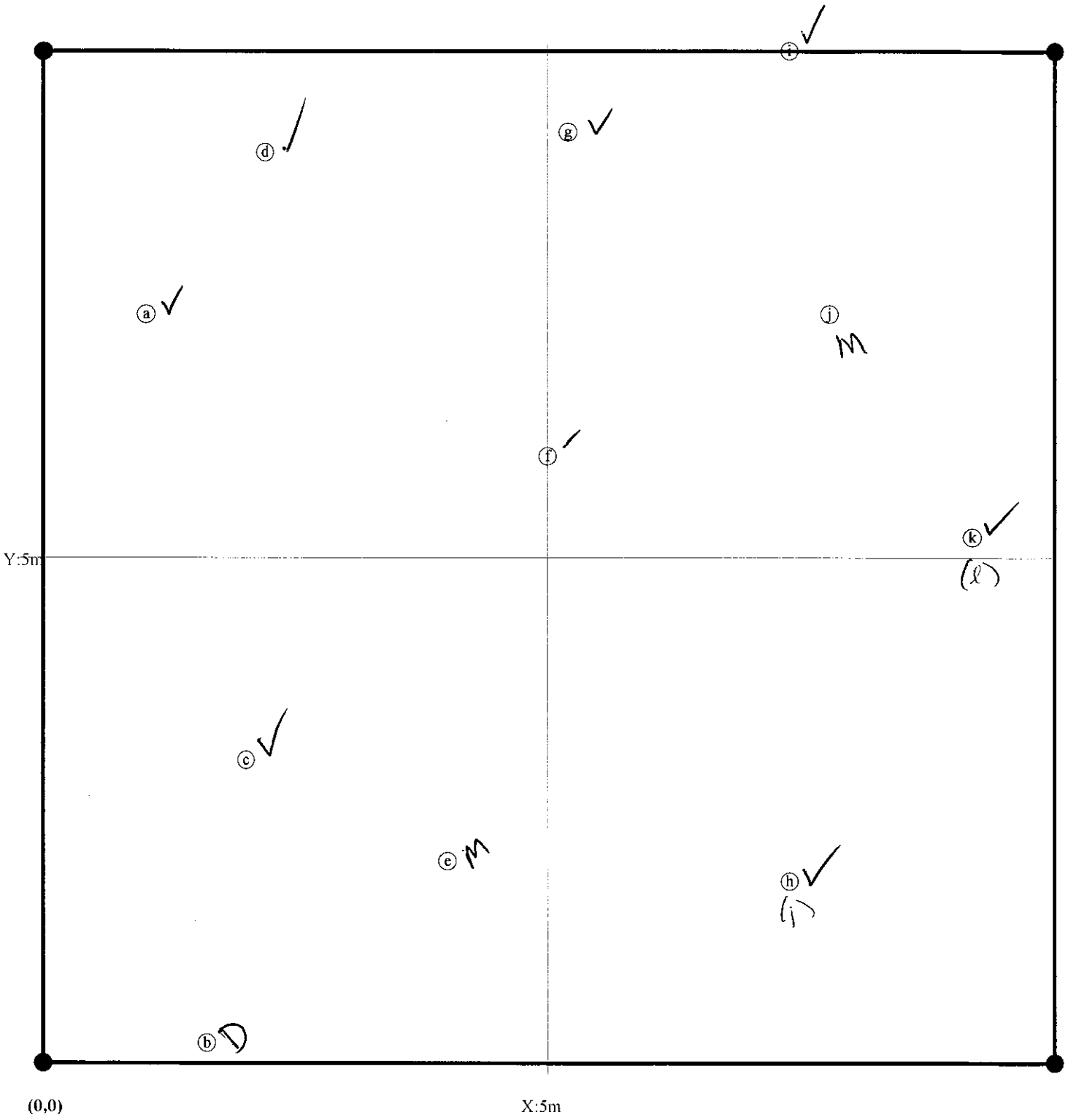
*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Map of stems on plot 95807-01-0003

X-axis: 90 ° N

 # stems: 11
map size: LARGE



*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Vegetation Monitoring Data (VMD) Datasheet **Please fill in any missing data and correct any errors.**

Plot 95807-01-0004

VMD Year (1-5): 2 Date: 9/16/15 - / /

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N: (dec.deg. or m) 36.368455 Datum: NAD83/WGS84

Longitude or UTM-E: -78.574054 UTM Zone: 17

Coordinate Accuracy (m): 1 X-Axis bearing (deg): 90

Plot Dimensions: X: 10 Y: 10 ☐ Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X

Party:	Role:
Skekula	
Bode	
DeFrancesco	

Date last planted: 02/2014

New planting date m/yy? /

☐ Check box if plot was not sampled, specify reason below

Notes: Japanese honeysuckle coming in. Very dense johnson grass is supressing stem growth

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2014 Data Height 1cm*	Sep 2014 Data DBH 1 cm	Notes*	THIS YEAR'S DATA Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
41	**Cornus florida**	ⓐ	R	1.0	1.3	46.0		☐	163		☐	3		
42	Cornus florida	ⓑ	R	1.6	4.8	53.0		☐	38		X	3		
43	**Diospyros virginiana**	ⓒ	R	3.3	9.8	38.0		☐	109		☐	3		
44	Diospyros virginiana	ⓗ	R	6.6	9.9	72.0		☐	104		☐	3		
45	**Nyssa sylvatica**	ⓕ	R	5.0	8.0	18.0		☐	33		☒	3	CWD	
46	Quercus nigra	ⓔ	R	4.5	5.7	*Missing*		☐	—		☐			MISSING
47	**Quercus falcata**	ⓓ	R	3.6	2.0	44.0		☐	29		☐	3		UNK
48	Cornus florida	ⓖ	R	6.0	2.6	26.0		☐	50		☐	3		
50	**Nyssa sylvatica**	ⓚ	R	9.0	9.9	47.0		☐	82		☐	3		
51	Diospyros virginiana	ⓛ	R	9.3	7.6	50.0		☐	60		☐	3		
52	**Cornus florida**	ⓙ	R	8.6	2.3	35.0		☐	31		☐	2		UNK
53	~~Cercis canadensis~~ Dogwood	ⓘ	R	8.0	5.0	38.0		☐	24		☒	2		UNK

 # stems: 12

New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Plot (continued): 95807-01-0004					Sep 2014 Data				THIS YEAR'S DATA						
ID	Species	map char	source	X (m)	Y (m)	ddh (mm)	Height (cm)	DBH (cm)	Notes*	ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

Natural Woody Stems - tallied by species

Explanation of cut-off & subsampling:

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.): ☐ 10cm ☐ 50cm ☐ 100cm ☐ 137cm

Species Name	☑ c	Seedlings — Height Classes				Saplings — DBH			Trees — DBH		
		Sub-Seed	10 cm-50 cm	50 cm-100 cm	100 cm-137 cm	Sub-Sapl	0-1 cm	1-2.5	2.5-	5-	=10 (write DBH)
Hickory											
Green Ash											
Swt Gum											

**Required if cut-off >10cm or subsample ? 100%.

●1 ●2 ●3 ●4 ●5 ●6 ●7 ●8 ●9 ●10

Form WS2, ver 9.1

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

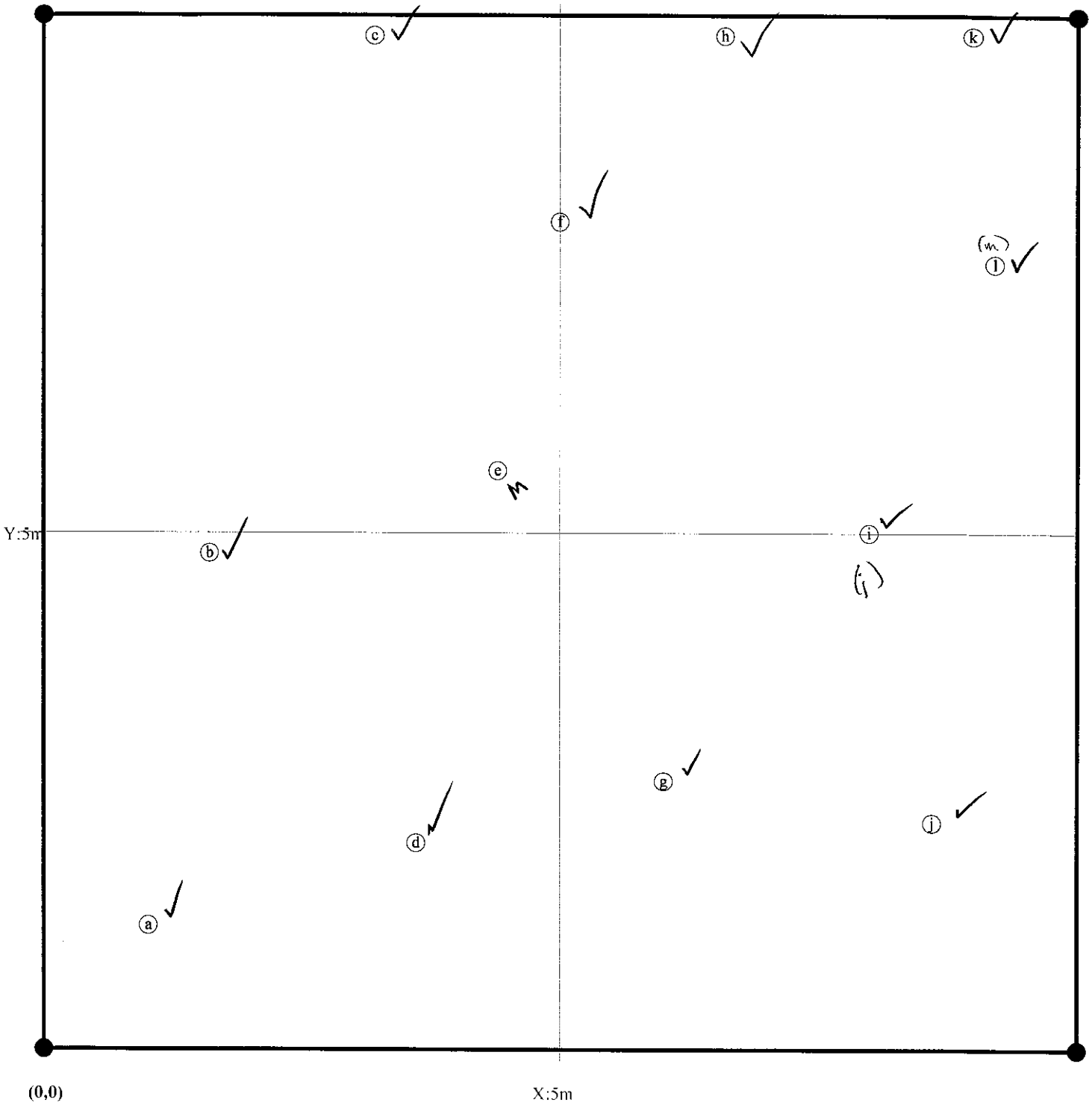
*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Map of stems on plot 95807-01-0004

X-axis: 90 °

N

 # stems: 12
map size: LARGE



*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Vegetation Monitoring Data (VMD) Datasheet **Please fill in any missing data and correct any errors.**

Plot 95807-01-0005

VMD Year (1-5): 2 Date: 9/16/15 - / /

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N: (dec.deg. or m) 36.368703 Datum: NAD83/W

Longitude or UTM-E: -78.573205 UTM Zone: 17

Coordinate Accuracy (m): 1 X-Axis bearing (deg): 90

Plot Dimensions: X: 10 Y: 10 ☐ Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X

Party:	Role:
Skekula	
Bode	
Christina	

Date last planted: 02/2014

New planting date m/yy? /

☐ Check box if plot was not sampled, specify reason below

Notes:

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2014 Data Height 1cm*	Sep 2014 Data DBH 1 cm	Notes*	THIS YEAR'S DATA Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
54	**Quercus nigra**	ⓐ	R	1.0	2.6	59.0		☐	73		☐	3		
55	Quercus nigra	ⓓ	R	4.5	7.0	54.0		☐	—		☐			MISSING
56	**Quercus michauxii**	ⓒ	R	4.4	4.0	49.0		☐	63		☐	3		
57	Quercus michauxii	ⓖ	R	8.0	1.5	54.0		☐	61		☐	3		
58	**Quercus michauxii**	ⓕ	R	7.6	4.0	52.0		☐	52		☐	3	INS	
60	Platanus occidentalis	ⓘ	R	9.8	3.8	43.0		☐	68		☐	3	INS cwd	
61	**Quercus michauxii**	ⓗ	R	9.8	1.0	46.5		☐	58		☐	3	INS	
62	Quercus michauxii	ⓑ	R	2.5	1.3	42.0		☐	50		☐	3		
65	**Carpinus caroliniana**	ⓔ	R	7.2	7.1	69.0		☐	97		☐	3		

 # stems: 9

New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes

Natural Woody Stems - tallied by species

Explanation of cut-off & subsampling**:

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.): ☐ 10cm ☐ 50cm ☐ 100cm ☐ 137cm

Species Name	☑ c	Seedlings — Height Classes: Sub-Seed	10 cm-50 cm	50 cm-100 cm	100 cm-137 cm	Saplings — DBH: Sub-Sapl	0-1 cm	1-2.5	Trees — DBH: 2.5-	5-	=10 (write DBH)
Slippery Elm (cwd)		—	●●	●●●		—					
Green Ash		—	⊠⊠⊠	⊠⊠⊠	●●●	—	●●				
Sweet Gum		—	●			—					
Green Ash (cont.)		—	⊠⊠⊠●●	●		—	X cwd				
Sycamore		—			●	—					
		—				—					
		—				—					

**Required if cut-off >10cm or subsample ? 100%. ●1 ●2 ●3 ●4 ●5 ●6 ●7 ●8 ●9 ⊠10 Form WS2, ver 9.1

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Printed in the CVS-EEP Entry Tool ver. 2.3.1

163

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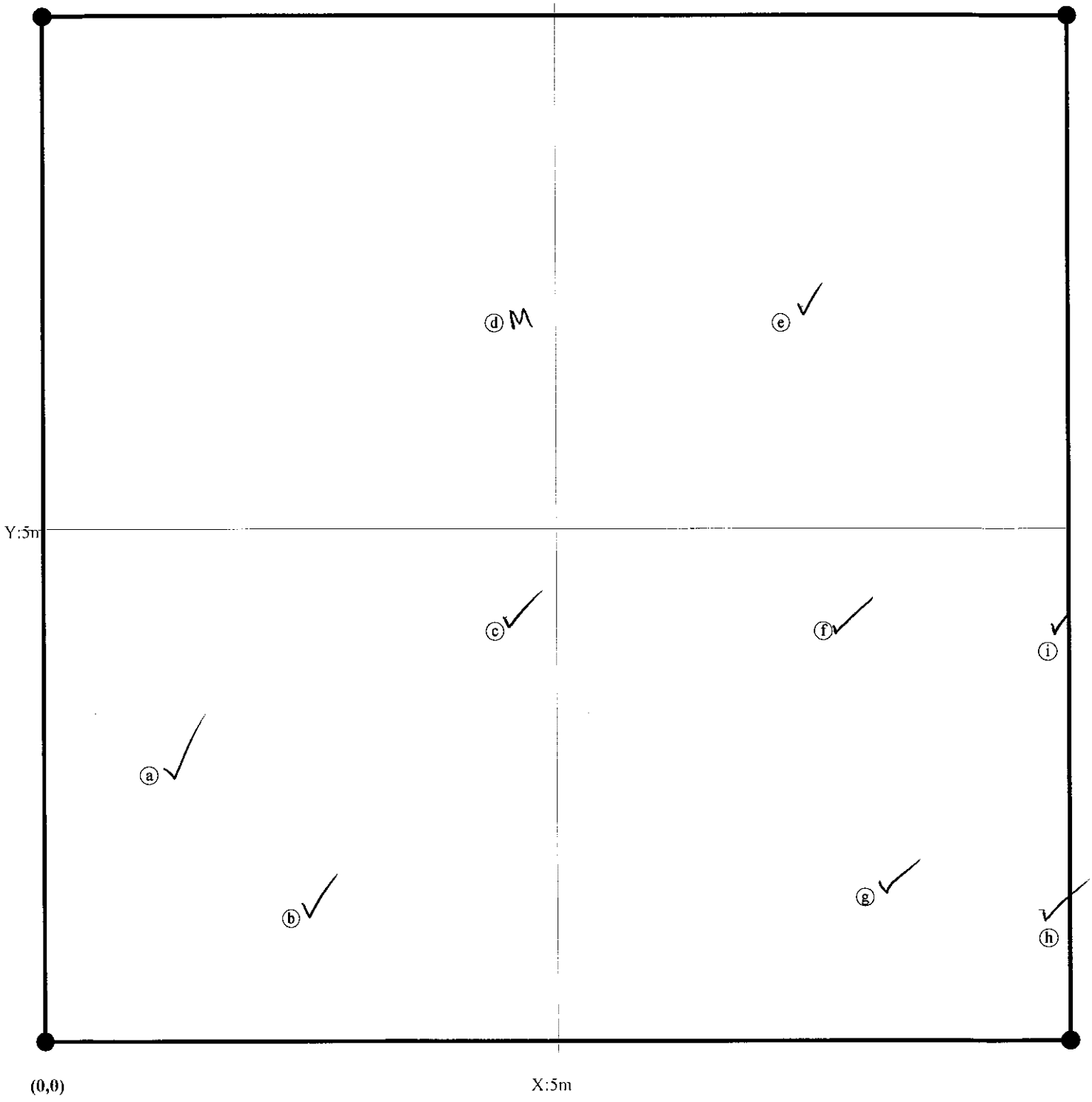
Map of stems on plot 95807-01-0005

X-axis: 90° N

 # stems: 9
map size: LARGE



*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Printed in the CVS-EEP Entry Tool ver. 2.3.1

Vegetation Monitoring Data (VMD) Datasheet **Please fill in any missing data and correct any errors.**

Plot 95807-01-0006

VMD Year (1-5): 2 Date: 9/16/15 - / /

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N: (dec.deg. or m) 36.367704 Datum: NAD83/WGS84

Longitude or UTM-E: -78.57375 UTM Zone: 17

Coordinate Accuracy (m): 1 X-Axis bearing (deg): 90

Plot Dimensions: X: 10 Y: 10 ☐ Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X

Party:	Role:
Stekula	
Bode	
DeFrancesco	

Date last planted: 02/2014

New planting date m/yy? /

☐ Check box if plot was not sampled, specify reason below

Notes:

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2014 Data Height 1cm*	Sep 2014 Data DBH 1 cm	Notes*	THIS YEAR'S DATA Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
69	Nyssa sylvatica	ⓑ	R	0.6	0.3	59.0		☐	57		☐	2	UNK	
70	**Quercus falcata**	ⓓ	R	**3.0**	**4.6**	**49.0**		☐	62		☐	3		
71	Nyssa sylvatica	ⓖ	R	5.5	8.3	41.0		☐	41		☐	3		
72	**Quercus falcata**	ⓗ	R	**6.0**	**6.0**	**44.0**		☐	45		☐	3		
73	Diospyros virginiana	ⓘ	R	6.3	4.0	76.0		☐	78		☐	3		
74	**Quercus nigra**	ⓔ	R	**3.6**	**6.5**	*Missing*		☐	—		☐		MISSING	
75	Quercus nigra	ⓕ	R	7.0	0.0	46.0		☐	39		☐	3	ANIM	bitten off main stem
76	**Quercus nigra**	ⓙ	R	**7.6**	**1.0**	**16.0**		☐	21		☐	3		
77	Cercis canadensis	ⓛ	R	8.6	7.6	41.0		☐	32		☐	2	UNK	
78	**Nyssa sylvatica**	ⓒ	R	**1.6**	**8.0**	**29.5**		☐	42		☐	3		
79	Cornus florida	ⓚ	R	7.7	9.6	*Missing*		☐	—		☐		MISSING	
80	**Quercus falcata**	ⓝ	R	**9.6**	**9.7**	**50.0**		☐	94		☐	3		
81	Quercus nigra	ⓜ	R	9.6	3.6	8.0		☐	—		☐		MISSING	
82	**Diospyros virginiana**	ⓞ	R	**9.9**	**1.3**	**22.0**		☐	58		☐	3		
83	Nyssa sylvatica	ⓐ	R	0.3	4.0	41.0		☐	15		☒	3		

 # stems: *15* New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes

J: 23

78

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Plot (continued): 95807-01-0006

ID	Species	map char	source	X (m)	Y (m)	Sep 2014 Data: ddh (mm)	Height (cm)	DBH (cm)	Notes*	THIS YEAR'S DATA: ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

Natural Woody Stems - tallied by species

Explanation of cut-off & subsampling**:

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.): ☐ 10cm ☐ 50cm ☐ 100cm ☐ 137cm

Species Name	☑ c	SEEDLINGS — HEIGHT CLASSES: Sub-Seed	10 cm-50 cm	50 cm-100 cm	100 cm-137 cm	SAPLINGS — DBH: Sub-Sapl	0-1 cm	1-2.5	TREES — DBH: 2.5-	5-	=10 (write DBH)
Willow Oak		—	•			—					
Green Ash		—	••			—					
		—				—					
		—				—					
		—				—					
		—				—					
		—				—					

**Required if cut-off >10cm or subsample ? 100%.

●1 ●2 ●3 ●4 ●5 ●6 ●7 ●8 ●9 ●10

Form WS2, ver 9.1

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

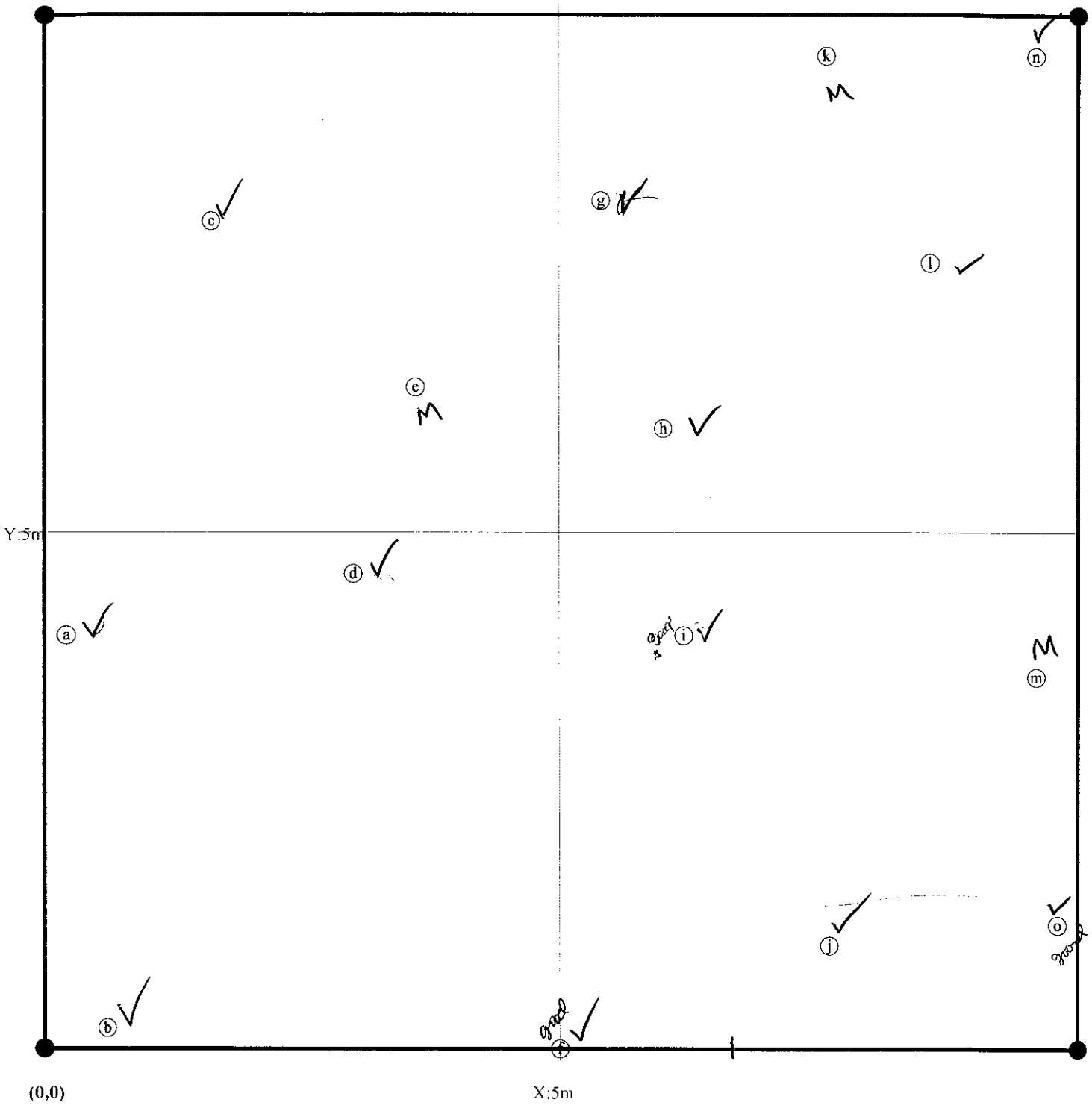
*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Map of stems on plot 95807-01-0006

X-axis: 90 °

N

 # stems: 15
map size: LARGE



*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Printed in the CVS-EEP Entry Tool ver. 2.3.1

Vegetation Monitoring Data (VMD) Datasheet **Please fill in any missing data and correct any errors.**

Plot 95807-01-0007

VMD Year (1-5): 2 Date: 9/7/15 - / /

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N: (dec.deg. or m) 36.36783 Datum: NAD83/WGS84

Longitude or UTM-E: -78.572723 UTM Zone: 17

Coordinate Accuracy (m): 1 X-Axis bearing (deg): 90

Plot Dimensions: X: 10 Y: 10 ☐ Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X

Party:	Role:
Skelnar	
Bode	
D'Francesco	

Date last planted: 02/2014

New planting date m/yy? /

☐ Check box if plot was not sampled, specify reason below

Notes:

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2014 Data Height 1cm*	Sep 2014 Data DBH 1 cm	Notes*	THIS YEAR'S DATA Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
84	**Quercus nigra** (might be a mis-ided pin oak)	ⓐ	R	0.2	0.3	40.0		☐	46		☐	3		
85	Carpinus caroliniana	ⓑ	R	0.3	3.3	41.0		☐	41		☐	2	UNK	
87	**Quercus nigra**	ⓒ	R	2.7	8.3	22.0		☐	25		☐	2	UNK	
88	Carpinus caroliniana	ⓕ	R	3.0	9.3	*Missing*		☐	—		☐	MISSING		
89	**Quercus nigra**	ⓔ	R	3.0	0.3	41.0		☐	58		☐	3		
90	Quercus nigra	ⓗ	R	7.0	1.1	44.0		☐	49		☐	3		
92	**Diospyros virginiana**	ⓘ	R	7.5	10.0	27.0		☐	59		☐	3		
93	Quercus falcata	ⓛ	R	9.9	8.0	16.0		☐	29		☐	3		
94	**Quercus falcata**	ⓖ	R	5.5	7.6	12.0		☐	19		☐	3		
95	Quercus nigra	ⓓ	R	2.8	5.8	12.0		☐	14		☒	~~MISSING~~ alive		Vigor: 3
97	**Asimina triloba**	ⓙ	R	7.3	5.0	*Missing*		☐	—		☐	MISSING		
98	~~Diospyros virginiana~~ Nyssa	ⓚ	R	9.1	1.3	45.0		☐	30		☐	3		

 # stems: 12

New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Plot (continued): 95807-01-0007

ID	Species	map char	source	X (m)	Y (m)	Sep 2014 Data ddh (mm)	Height (cm)	DBH (cm)	Notes*	THIS YEAR'S DATA ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

Natural Woody Stems - tallied by species

Explanation of cut-off & subsampling**:

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.): ☐ 10cm ☐ 50cm ☐ 100cm ☐ 137cm

Species Name	☑ c	SEEDLINGS — HEIGHT CLASSES: Sub-Seed	10 cm-50 cm	50 cm-100 cm	100 cm-137 cm	SAPLINGS — DBH: Sub-Sapl	0-1 cm	1-2.5	TREES — DBH: 2.5-	5-	=10 (write DBH)
Sweet Gum		—	⊠⊠⊠	●● ●		—					
Green Ash		—	⊠ ▪▪	●● ●●		—					
Slippery Elm		—	●● ●	●		—					
Sycamore		—	▲			—					
Willow Oak		—	●			—					
		—				—					
		—				—					

**Required if cut-off >10cm or subsample ? 100%

●1 ●2 ●3 ●●4 ●●5 ●●6 ●●7 ●●8 ●●9 ●●10

Form WS2, ver 9.1

Sweet Gum (cont) ⊠⊠

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

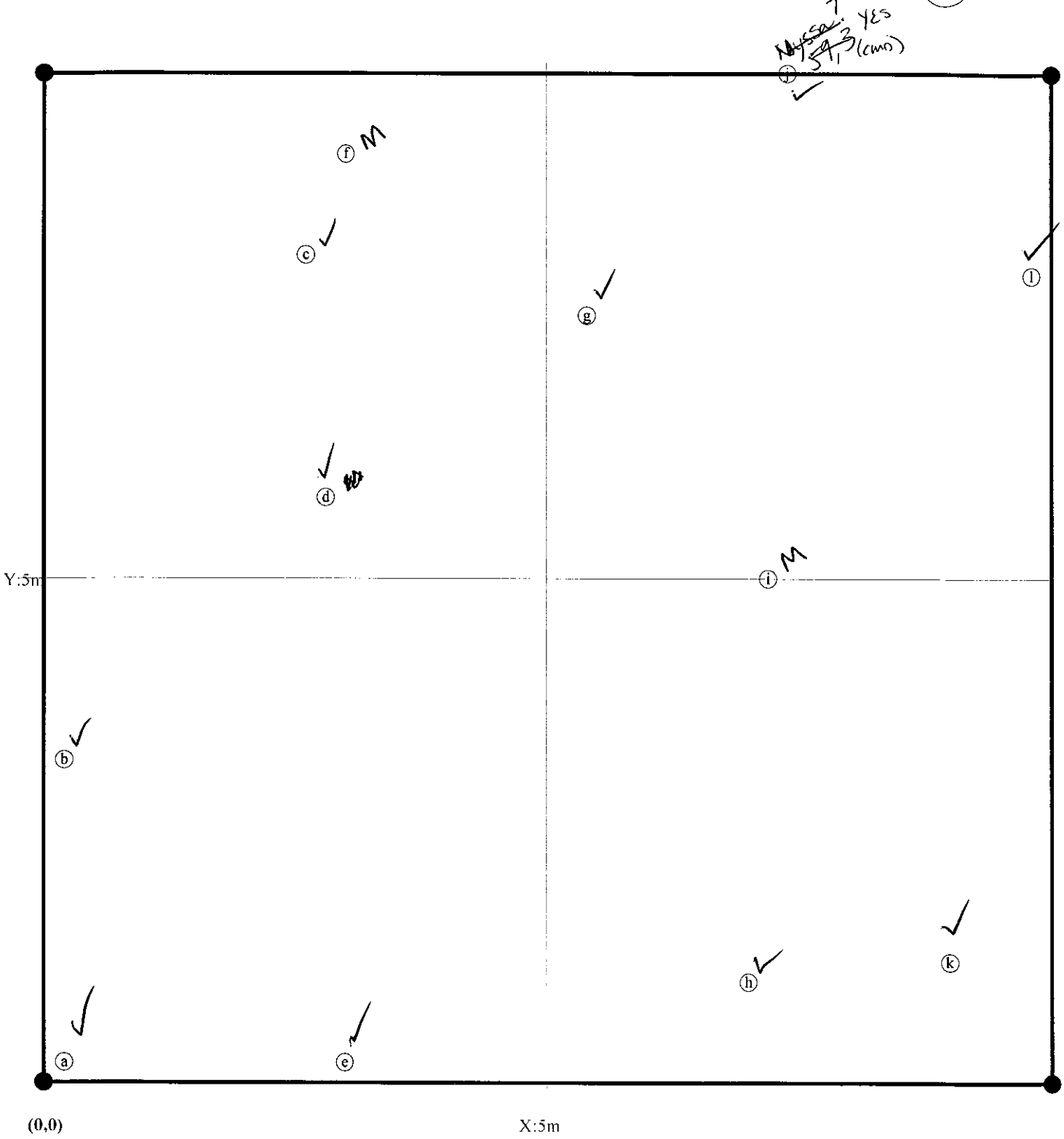
*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Map of stems on plot 95807-01-0007

X-axis: 90 ° N # stems: 12 map size: LARGE



*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Vegetation Monitoring Data (VMD) Datasheet **Please fill in any missing data and correct any errors.**

Plot 95807-01-0008

VMD Year (1-5): 2 Date: 9/17/15 - / /

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N: (dec.deg. or m) 36.367745 Datum: NAD83/WGS84

Longitude or UTM-E: -78.572095 UTM Zone: 17

Coordinate Accuracy (m): 1 X-Axis bearing (deg): 90

Plot Dimensions: X: 10 Y: 10 ☐ Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X

Party: Role:
Skekula
Bode
DeFrancesco

Date last planted: 02/2014
New planting date m/yy? /
☐ Check box if plot was not sampled, specify reason below
Notes: print!

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2014 Data Height 1cm*	Sep 2014 Data DBH 1 cm	Notes*	THIS YEAR'S DATA Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
100	~~Asimina triloba~~ Nyssa	ⓐ	R	0.0	2.6	34.5		☐	57		☐	3		
101	Nyssa sylvatica	ⓑ	R	0.2	5.5	55.5		☐	97		☐	3		
102	**Cornus florida**	ⓓ	R	**2.6**	**8.5**	**30.0**		☐	31		☐	3		
103	Liriodendron tulipifera	ⓔ	R	3.6	5.2	28.0		☐	34		☐	3		
104	**Cornus florida**	ⓖ	R	**4.6**	**1.6**	**13.0**		☐	11		☒	3		
105	Platanus occidentalis	ⓕ	R	4.7	0.0	134.0	*DBH?*	☐	205	1.24	☐	3		
106	**Liriodendron tulipifera**	ⓘ	R	**7.5**	**1.3**	***Missing***		☐	—		☐	MISSING		
107	Quercus falcata	ⓙ	R	7.6	5.3	52.0		☐	716		☐	3		
108	**Liriodendron tulipifera**	ⓗ	R	**5.6**	**10.0**	**41.5**		☐	—		☐	0	Dead	
109	Quercus nigra	ⓚ	R	9.0	9.1	30.5		☐	←		☐	Remove-plant is a willow oak		
110	~~Diospyros virginiana~~ Nyssa	ⓜ	R	**9.2**	**7.1**	**55.0**		☐	52		☐	3		
111	Quercus michauxii	ⓛ	R	9.3	2.6	53.0		☐	716		☐	3		
112	**Diospyros virginiana**	ⓒ	R	**10.0**	**4.5**	***Missing***		☐	—		☐	MISSING		

 # stems: *13*

New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Plot (continued): 95807-01-0008

ID	Species	map char	source	X (m)	Y (m)	Sep 2014 Data ddh (mm)	Height (cm)	DBH (cm)	Notes*	THIS YEAR'S DATA ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

Natural Woody Stems - tallied by species

Explanation of cut-off & subsampling**:

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.): ☐ 10cm ☐ 50cm ☐ 100cm ☐ 137cm

Species Name	☑ c	SEEDLINGS — HEIGHT CLASSES: Sub-Seed	10 cm-50 cm	50 cm-100 cm	100 cm-137 cm	SAPLINGS — DBH: Sub-Sapl	0-1 cm	1-2.5	TREES — DBH: 2.5-	5-	=10 (write DBH)
Tulip Poplar		—	2	1		—					
Green Ash		—	3	1		—					
Sweet Gum		—	1	1		—					
Black Cherry		—	1			—					
Sycamore		—	2			—					
Winged Elm		—	1	1		—					
Willow Oak		—	1			—					

**Required if cut-off >10cm or subsample ? 100%.

1 2 3 4 5 6 7 8 9 10

Form WS2, ver 9.1

Green Ash (cont) 57

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

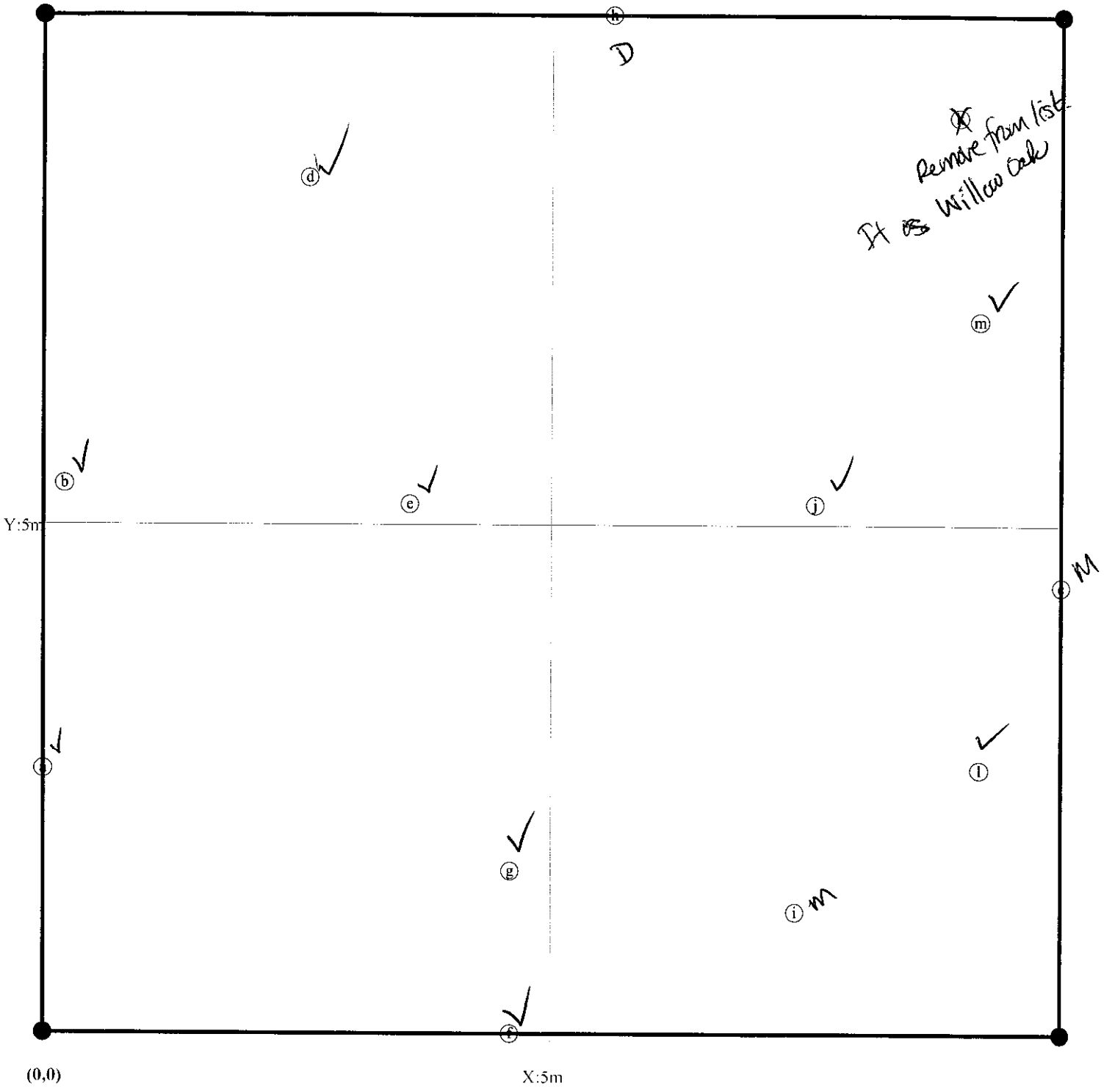
*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Map of stems on plot 95807-01-0008

X-axis: 90 °

N

 # stems: 13
map size: LARGE



*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Vegetation Monitoring Data (VMD) Datasheet **Please fill in any missing data and correct any errors.**

Plot 95807-01-0009

VMD Year (1-5): 2 Date: 9/16/15 - / /

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N: (dec.deg. or m) 36.366921 Datum: NAD83/WGS84

Longitude or UTM-E: -78.573418 UTM Zone: 17

Coordinate Accuracy (m): 1 X-Axis bearing (deg): 90

Plot Dimensions: X: 10 Y: 10 ☐ Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X

Party:	Role:
Skekula	
Bode	
DeFrancesco	

Date last planted: 02/2014

New planting date m/yy? /

☐ Check box if plot was not sampled, specify reason below

Notes: ~~Sto~~ some japanese honeysuckle growing up, strangling trees. Also wisteria

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2014 Data Height 1cm*	Sep 2014 Data DBH 1 cm	Notes*	THIS YEAR'S DATA Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
113	Cornus florida	a	R	0.2	0.2	36.0		☐	42		☐	3		
114	**Quercus falcata**	b	R	0.6	3.6	57.0		☐	92		☐	3		
115	Diospyros virginiana	f	R	3.2	~~2~~ 2.0	69.0		☐	64		☐	3		
116	**Nyssa sylvatica**	g	R	3.4	5.3	42.0		☐	42		☐	1	UNK	
117	Quercus nigra	h	R	3.9	9.3	70.0		☐	106		☐	3		
118	**Diospyros virginiana**	i	R	5.6	3.5	59.0		☐	40		☐	3	DEER	
119	Nyssa sylvatica	j	R	6.0	7.3	49.0		☐	51		☐	3		
120	**Nyssa sylvatica**	n	R	9.8	9.0	31.0		☐	42		☐	3		
121	Cornus florida	e	R	10.0	7.0	33.0		☐	61		☐	3		
122	**Diospyros virginiana**	k	R	7.6	5.6	85.0		☐	70		☐	3	VINE	-honeysuckle strangled tree, A branch dead but still healthy
123	Quercus nigra	l	R	8.3	1.6	55.0		☐	dead 99		☐	3		
124	**Cercis canadensis**	d	R	10.0	4.0	*Missing*		☐	—		☐	MISSING		
125	Diospyros virginiana	m	R	8.3	8.6	72.0		☐	122		☐	3	dead	
126	**Cercis canadensis**	c	R	~~X~~ 2.6	~~3.6~~ OK 4.8	18.0		☐	39 42cm		dead ☐	3	UNK	

 # stems: 14

New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes

42

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Plot (continued): 95807-01-0009					Sep 2014 Data				THIS YEAR'S DATA						
ID	Species	map char	source	X (m)	Y (m)	ddh (mm)	Height (cm)	DBH (cm)	Notes*	ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

Natural Woody Stems - tallied by species

Explanation of cut-off & subsampling:**

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.): ☐ 10cm ☐ 50cm ☐ 100cm ☐ 137cm

Species Name	☑ c	SEEDLINGS — HEIGHT CLASSES				SAPLINGS — DBH			TREES — DBH		
		Sub-Seed	10 cm-50 cm	50 cm-100 cm	100 cm-137 cm	Sub-Sapl	0-1 cm	1-2.5	2.5-	5-	=10 (write DBH)
Sweet Gum		___	0			___					
		___				___					
		___				___					
		___				___					
		___				___					
		___				___					
		___				___					

**Required if cut-off >10cm or subsample ? 100%.

●1 ●2 ●3 ●4 ●5 ●6 ●7 ●8 ●9 ●10

Form WS2, ver 9.1

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

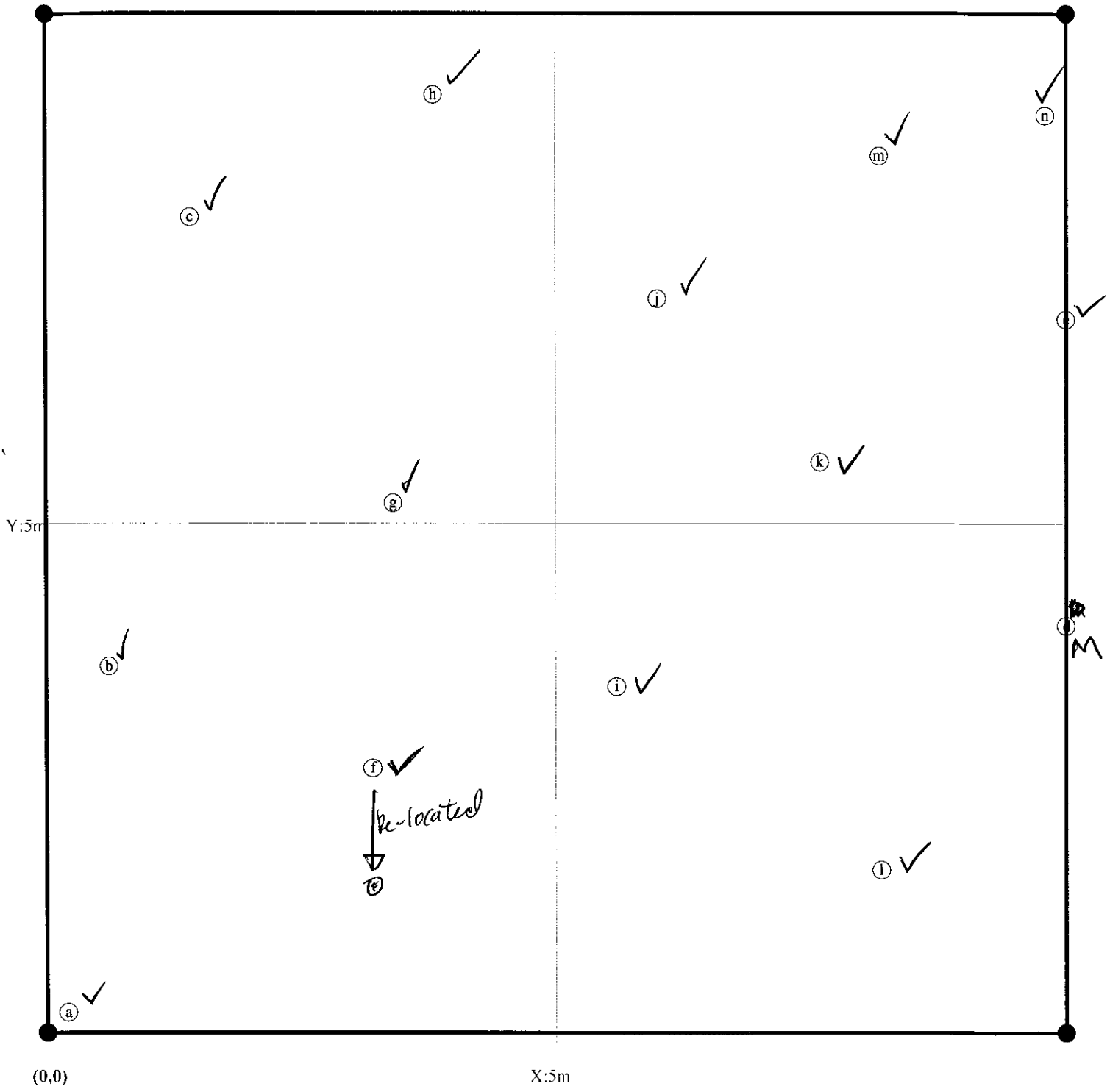
*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Map of stems on plot 95807-01-0009

X-axis: 90 ° N

 # stems: 14
map size: LARGE



*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Vegetation Monitoring Data (VMD) Datasheet **Please fill in any missing data and correct any errors.**

Plot 95807-01-0010

VMD Year (1-5): 2 Date: 9/17/15 - / /

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N: (dec.deg. or m) 36.367226 Datum: NAD83/WGS84

Longitude or UTM-E: -78.572113 UTM Zone: 17

Coordinate Accuracy (m): 1 X-Axis bearing (deg): 90

Plot Dimensions: X: 10 Y: 10 ☐ Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X

Party:	Role:
Skikula	
Bode	
DeFrancesco	

Date last planted: 02/2014

New planting date m/yy? /

☐ Check box if plot was not sampled, specify reason below

Notes: Japanese honeysuckle! Dodder present.

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2014 Data Height 1cm*	Sep 2014 Data DBH 1 cm	Notes*	THIS YEAR'S DATA Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
127	Platanus occidentalis	(f)	R	3.6	0.1	72.0		☐	141	0.4	☐	3		
128	**Quercus michauxii**	(g)	R	4.0	8.9	62.0		☐	63		☐	3		)
129	Quercus michauxii	(b)	R	0.3	8.0	56.0		☐	64		☐	3		
130	**Liriodendron tulipifera**	(e)	R	2.8	6.4	36.0		☐	69		☐	3		
131	Liriodendron tulipifera	(a)	R	0.3	2.3	33.5		☐	64		☐	3		
132	**Quercus nigra**	(l)	R	8.8	5.0	55.0		☐	58		☐	3		
133	Asimina triloba	(c)	R	0.5	4.8	18.0		☐	20		☐	3		
134	**Carpinus caroliniana**	(i)	R	5.8	5.4	33.0		☐	29		☐	3		
135	Asimina triloba	(h)	R	5.3	2.6	10.0		☐	19		☐	3	NS	
136	**Asimina triloba**	(d)	R	2.6	3.2	16.0		☐	17		☐	3		
137	Liriodendron tulipifera	(k)	R	8.9	2.6	*Missing*		☐	—		☐	MISSING		
138	**Carpinus caroliniana**	(j)	R	6.5	8.0	55.0		☐	99		☐	3		
139	Carpinus caroliniana	(m)	R	9.8	6.8	54.0		☐	73		☐	3		

 # stems: 13

New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Plot (continued): 95807-01-0010

ID	Species	map char	source	X (m)	Y (m)	Sep 2014 Data ddh (mm)	Height (cm)	DBH (cm)	Notes*	THIS YEAR'S DATA ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

Natural Woody Stems - tallied by species

Explanation of cut-off & subsampling**:

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.): ☐ 10cm ☐ 50cm ☐ 100cm ☐ 137cm

Species Name	☑ c	SEEDLINGS — HEIGHT CLASSES: Sub-Seed	10 cm-50 cm	50 cm-100 cm	100 cm-137 cm	SAPLINGS — DBH: Sub-Sapl	0-1 cm	1-2.5	TREES — DBH: 2.5-	5-	=10 (write DBH)
Sweet Gum		—	1	2		—	2	1			
Slippery Elm		—				—					
Sycamore		—				—			1		
Black Cherry		—				—					
Green Ash		—	1			—					
		—				—					
		—				—					

**Required if cut-off >10cm or subsample ? 100%.

●1 ●2 ●3 ●4 ●5 ●6 ●7 ●8 ●9 ●10

Form WS2, ver 9.1

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

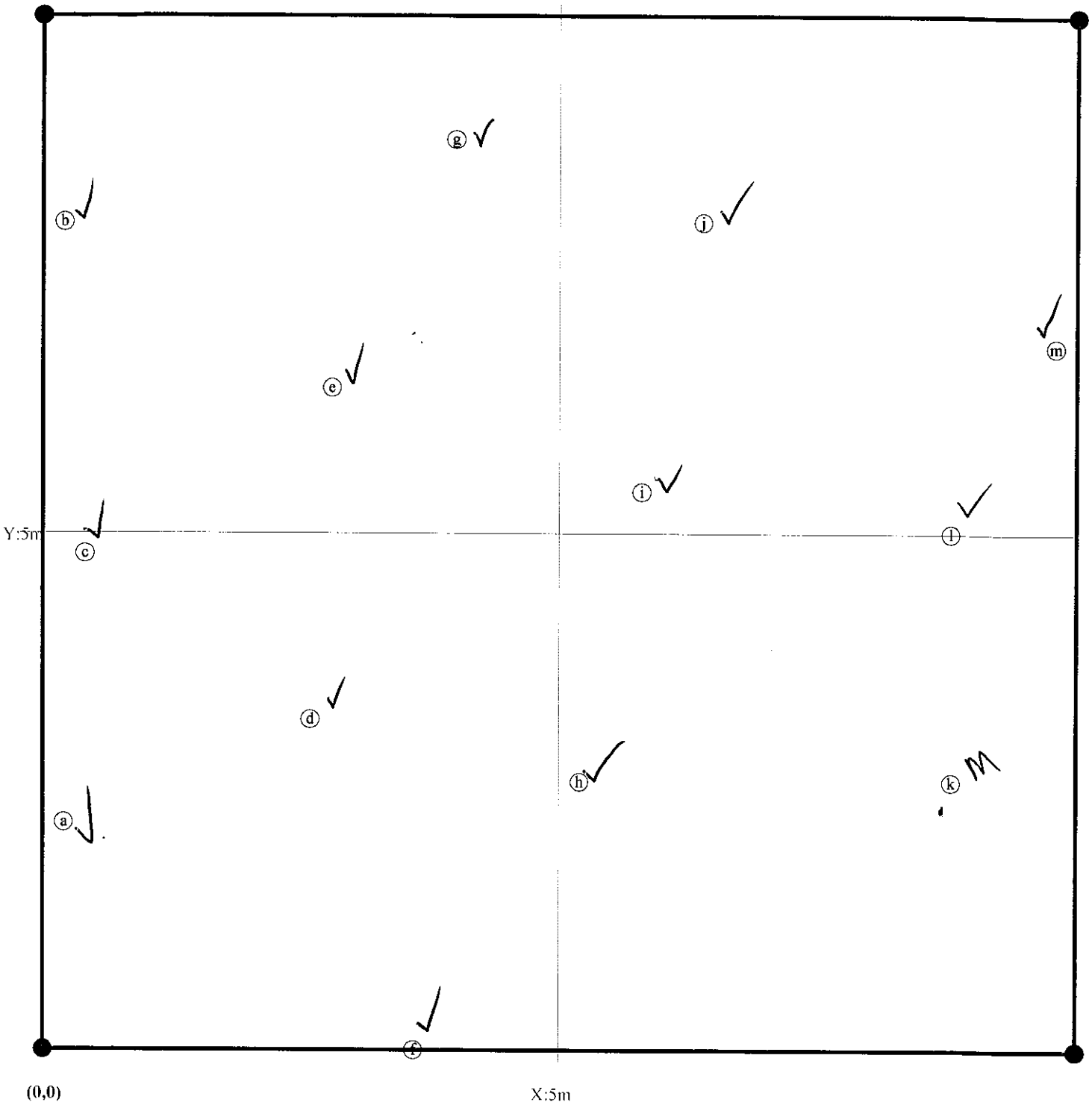
*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Map of stems on plot 95807-01-0010

X-axis: 90 °

N

 # stems: 13
map size: LARGE



*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Vegetation Monitoring Data (VMD) Datasheet **Please fill in any missing data and correct any errors.**

Plot 95807-01-0011

VMD Year (1-5): 2 Date: 9/17/15 - / /

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N: (dec.deg. or m) 36.366447 Datum: NAD83/WGS84

Longitude or UTM-E: -78.572346 UTM Zone: 17

Coordinate Accuracy (m): 1 X-Axis bearing (deg): 90

Plot Dimensions: X: 10 Y: 10 ☐ Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X

Party:	Role:
Skeffula	
Bode	
DeFrancesco	

Date last planted: 02/2014

New planting date m/yy? /

☐ Check box if plot was not sampled, specify reason below

Notes:

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2014 Data Height 1cm*	Sep 2014 Data DBH 1 cm	Notes*	THIS YEAR'S DATA Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
140	**Juglans nigra**	c	R	1.0	0.4	*Missing*		☐	—		☐	MISSING		
141	Juglans nigra	g	R	3.4	0.2	*Missing*		☐	—		☐	MISSING		
142	**Liriodendron tulipifera**	k	R	5.8	0.0	*Missing*		☐	—		☐	MISSING		
143	Platanus occidentalis	i	R	4.8	2.8	84.0		☐	145	0.4	☐	3		
144	**Platanus occidentalis**	o	R	7.8	2.6	28.0		☐	48		☐	2	other	crowded
145	Asimina triloba	d	R	10.0	2.0	26.0		☐	21		X	3		
146	**Liriodendron tulipifera**	j	R	5.5	5.3	*Missing*		☐	—		☐	MISSING		
147	Liriodendron tulipifera	f	R	3.0	6.0	20.0		☐	33		☐	3		
148	**Liriodendron tulipifera**	a	R	0.2	6.4	15.0		☐	10		X	3		
149	Carpinus caroliniana	b	R	0.5	8.8	*Missing*		☐	—		☐	MISSING		
150	**Liriodendron tulipifera**	h	R	3.4	8.5	*Missing*		☐	—		☐	MISSING		
151	Quercus nigra	m	R	6.6	8.3	68.0		☐	68		☐	3		
152	**Quercus michauxii**	q	R	8.8	8.3	*Missing*		☐	—		☐	MISSING		
153	Diospyros virginiana	r	R	9.5	9.8	100.0		☐	130		☐	3		
154	**Platanus occidentalis**	n	R	7.6	9.9	41.0		☐	71		☐	3		
155	Platanus occidentalis	p	R	8.5	5.8	41.0		☐	73		☐	2	VINE	
156	**Liriodendron tulipifera**	e	R	2.2	2.6	20.0		☐	44		☐	3		
689	Carpinus caroliniana	l	R	6.0	9.0	89.0		☐	~~68~~		☐	~~3~~	REMOVE	STEM WAS ID'd as MIS-ID'd as A CARPINUS. IS ACTUALLY A SLIPPERY ELM

 # stems: 18

New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Printed in the CVS-EEP Entry Tool ver. 2.3.1

Plot (continued): 95807-01-0011

ID	Species	map char	source	X (m)	Y (m)	Sep 2014 Data: ddh (mm)	Height (cm)	DBH (cm)	Notes*	THIS YEAR'S DATA: ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

Natural Woody Stems - tallied by species

Explanation of cut-off & subsampling**:

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.): ☐ 10cm ☐ 50cm ☐ 100cm ☐ 137cm

Species Name	☑ c	SEEDLINGS — HEIGHT CLASSES: Sub-Seed	10 cm-50 cm	50 cm-100 cm	100 cm-137 cm	SAPLINGS — DBH: Sub-Sapl	0-1 cm	1-2.5	TREES — DBH: 2.5-	5-	=10 (write DBH)
Sycamore				1	1		2				
Slippery Elm			2	2							
Green Ash				1	2						
Sweet Gum				1							

**Required if cut-off >10cm or subsample ? 100%.

●1 ●2 ●3 ●4 ●5 ●6 ●7 ●8 ●9 ●10

Form WS2, ver 9.1

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

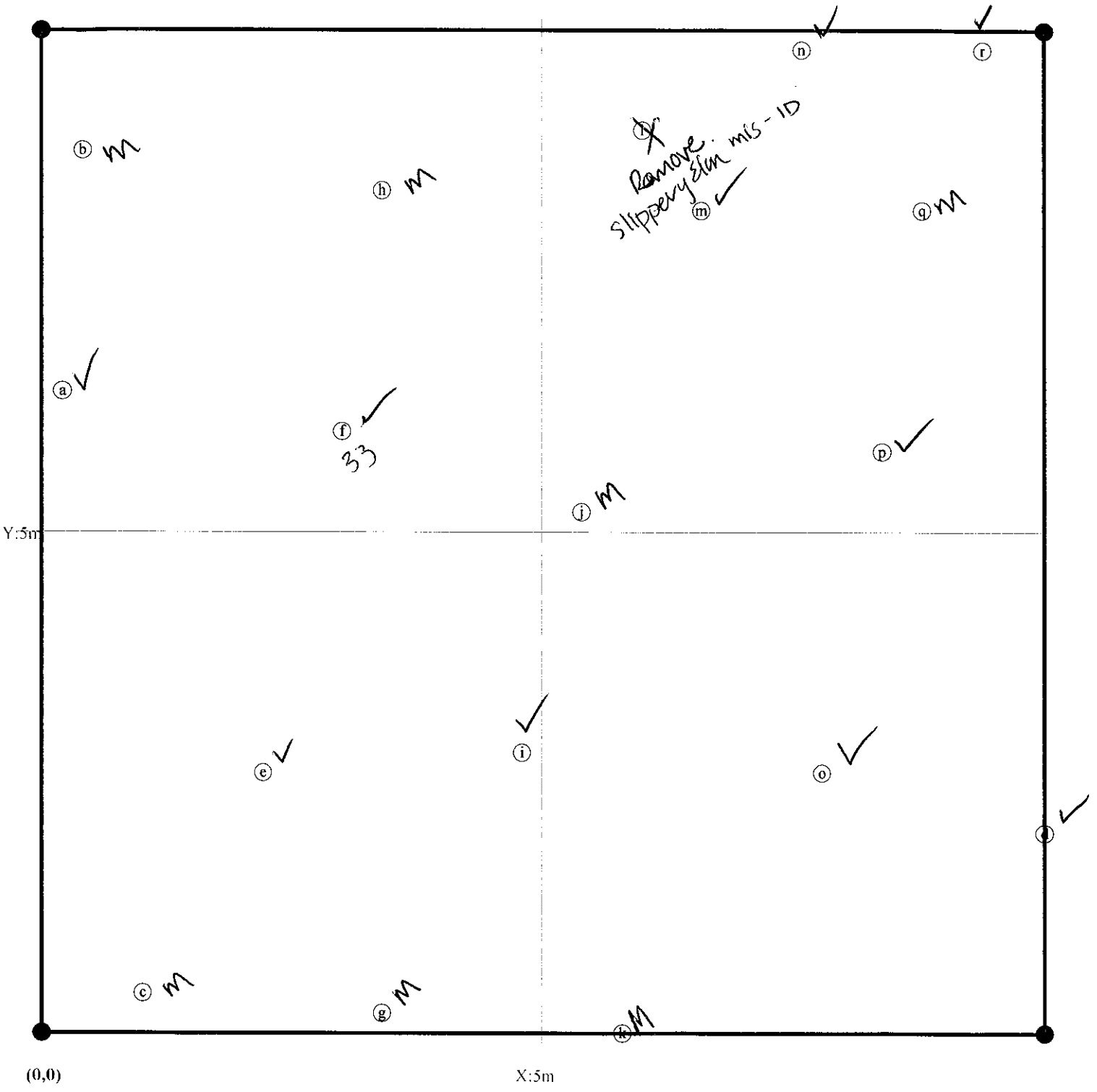
*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Map of stems on plot 95807-01-0011

X-axis: 90° N

 # stems: 18
map size: LARGE



*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Vegetation Monitoring Data (VMD) Datasheet **Please fill in any missing data and correct any errors.**

Plot 95807-01-0012

VMD Year (1-5): 2 Date: 9/16/15 - / /

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N: (dec.deg. or m) 36.365744 Datum: NAD83/WGS84

Longitude or UTM-E: -78.572827 UTM Zone: 17

Coordinate Accuracy (m): 1 X-Axis bearing (deg): 90

Plot Dimensions: X: 10 Y: 10 ☐ Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X

Party: Role:
Skefula
Bode
DeFrancesco

Date last planted: 02/2014
New planting date m/yy? /
☐ Check box if plot was not sampled, specify reason below
Notes:

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2014 Data Height 1cm*	Sep 2014 Data DBH 1 cm	Notes*	THIS YEAR'S DATA Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
157	**Quercus nigra**	ⓑ	R	1.0	3.6	*Missing*		☐	—		☐		MISSING	
158	Carpinus caroliniana	ⓐ	R	0.3	4.3	*Missing*		☐	—		☐		MISSING	
159	**Liriodendron tulipifera**	ⓒ	R	3.0	8.3	*Missing*		☐	—		☐		MISSING	
160	Quercus michauxii	ⓕ	R	4.6	10.0	50.0		☐	105		☐	3	VINE	
161	**Platanus occidentalis**	ⓖ	R	6.1	2.5	*Missing*		☐	—		☐		MISSING	
162	Quercus michauxii	ⓓ	R	3.6	4.3	35.0		☐	—		☐		MISSING	
163	**Liriodendron tulipifera**	ⓔ	R	4.3	1.3	*Missing*		☐	—		☐		MISSING	
164	Quercus michauxii	ⓗ	R	6.6	4.0	36.0		☐	46		☐	3		
165	**Liriodendron tulipifera**	ⓘ	R	7.3	1.2	*Missing*		☐	—		☐		MISSING	
166	Liriodendron tulipifera	ⓙ	R	9.6	1.6	*Missing*		☐	—		☐		MISSING	
167	**Quercus nigra**	ⓚ	R	9.3	4.6	49.0		☐	52		☐	3		
168	Asimina triloba	ⓙ	R	9.0	8.6	*Missing*		☐	—		☐		MISSING	

 # stems: 12

New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Plot (continued): 95807-01-0012

ID	Species	map char	source	X (m)	Y (m)	Sep 2014 Data ddh (mm)	Height (cm)	DBH (cm)	Notes*	THIS YEAR'S DATA ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

Natural Woody Stems - tallied by species

Explanation of cut-off & subsampling**:

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.): ☐ 10cm ☐ 50cm ☐ 100cm ☐ 137cm

Species Name	☑ c	SEEDLINGS — HEIGHT CLASSES: Sub-Seed	10 cm-50 cm	50 cm-100 cm	100 cm-137 cm	SAPLINGS — DBH: Sub-Sapl	0-1 cm	1-2.5	TREES — DBH: 2.5-	5-	=10 (write DBH)

**Required if cut-off >10cm or subsample ? 100%.

●1 ●2 ●3 ●●4 ●●5 ●●6 ●●7 ●●8 ●●9 ●●10

Form WS2, ver 9.1

no volunteers

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

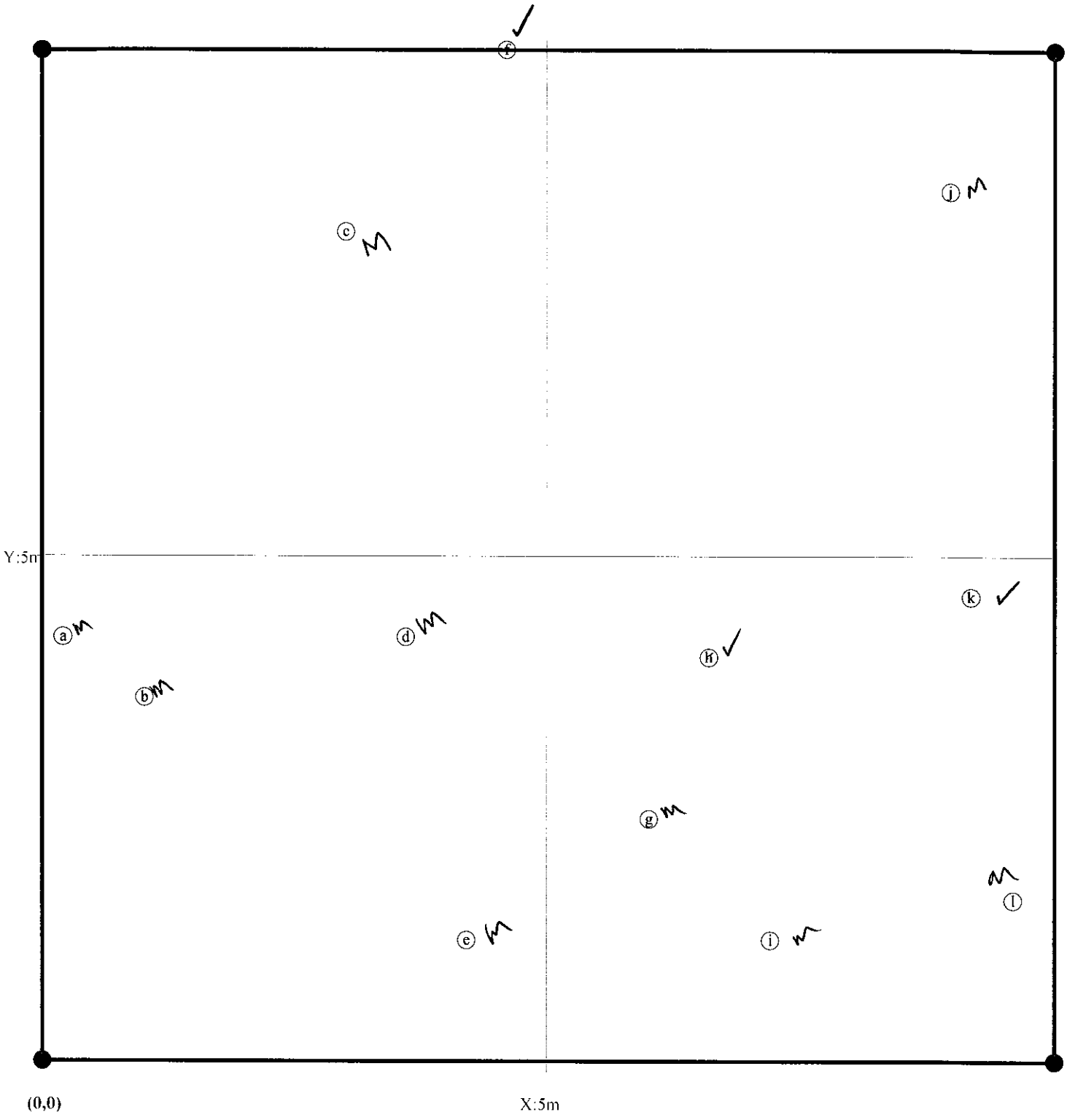
*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Map of stems on plot 95807-01-0012

X-axis: 90 °

N

 # stems: 12
map size: LARGE



*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Vegetation Monitoring Data (VMD) Datasheet **Please fill in any missing data and correct any errors.**

Plot 95807-01-0013

VMD Year (1-5): 2 Date: 9/17/15 - / /

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N: (dec.deg. or m) 36.365948 Datum: NAD83/WGS84

Longitude or UTM-E: -78.571894 UTM Zone: 17

Coordinate Accuracy (m): 1 X-Axis bearing (deg): 90

Plot Dimensions: X: 10 Y: 10 ☐ Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X

Party:	Role:
Skekula	
Bode	
DeFrancesco	

Date last planted: 02/2014

New planting date m/yy? /

☐ Check box if plot was not sampled, specify reason below

Notes: Lots of Lespedeza, it is strangling dogwood everything else. Privet & multiflora rose

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2014 Data Height 1cm*	Sep 2014 Data DBH 1 cm	Notes*	THIS YEAR'S DATA Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
170	**Quercus falcata**	ⓐ	R	0.3	6.1	23.0		☐	—		☐	0		Dead
171	Cornus florida	ⓑ	R	1.0	9.7	*Missing*		☐	—		☐	Missing		
172	**Liriodendron tulipifera**	ⓔ	R	3.8	2.3	18.0		☐	20		☐	2	UNK	
173	Cercis canadensis	ⓓ	R	3.6	5.2	20.0		☐	17		☒	1	UNK	arrested
174	**Quercus falcata**	ⓖ	R	6.6	5.0	18.0		☐	—		☐	MISSING		
175	Quercus falcata	ⓘ	R	9.0	4.3	39.0		☐	—		☐	MISSING		
176	**Quercus nigra**	ⓗ	R	8.8	2.4	37.0		☐	—		☐	MISSING		
178	Quercus nigra	ⓕ	R	4.6	8.8	44.0		☐	43		☐	2		
180	**Cornus florida**	ⓙ	R	9.8	8.0	6.0		☐	—		☐	MISSING		
181	Cornus florida	ⓒ	R	2.5	8.8	33.5		☐	—		☐	0		Dead

 # stems: 10

New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes

Plot was very very overgrown, which made finding flags & stems hard to find. Missing stems may just be hard to locate.

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Plot (continued): 95807-01-0013

ID	Species	map char	source	X (m)	Y (m)	Sep 2014 Data ddh (mm)	Height (cm)	DBH (cm)	Notes*	THIS YEAR'S DATA ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

Natural Woody Stems - tallied by species

Explanation of cut-off & subsampling**:

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.): ☐ 10cm ☐ 50cm ☐ 100cm ☐ 137cm

Species Name	☑ c	SEEDLINGS — HEIGHT CLASSES: Sub-Seed	10 cm-50 cm	50 cm-100 cm	100 cm-137 cm	SAPLINGS — DBH: Sub-Sapl	0-1 cm	1-2.5	TREES — DBH: 2.5-	5-	=10 (write DBH)
Sycamore		___	●			___					
Sweet Gum		___		●●		___					
Winged Elm		___	●●	●●		___					
Green Ash		___	●●			___					
Slippery Elm		___	●●	●●		___					
		___				___					
		___				___					

**Required if cut-off >10cm or subsample ? 100%.

●1 ●2 ●3 ●4 ●5 ●6 ●7 ●8 ●9 ●10

Form WS2, ver 9.1

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

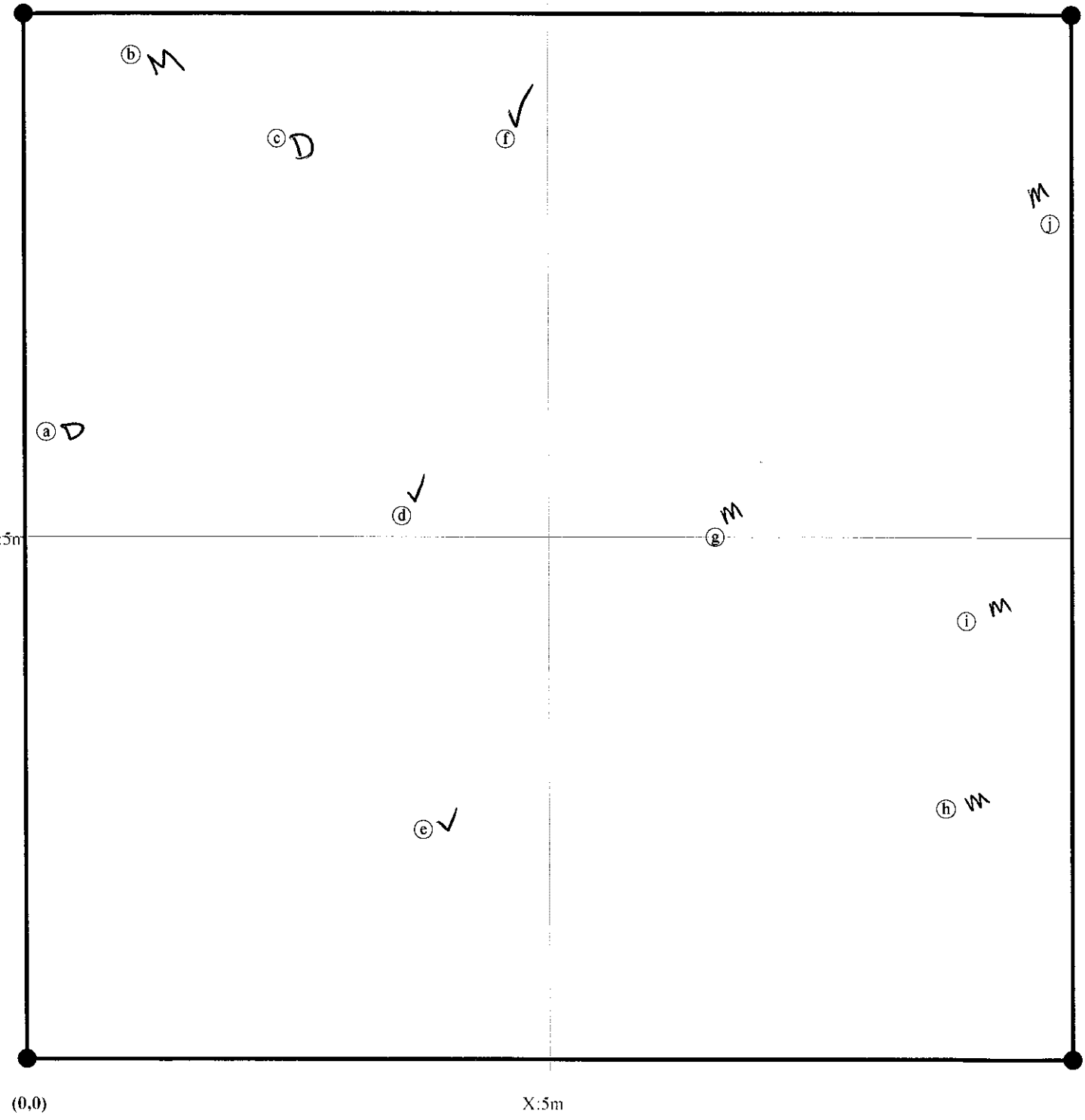
*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Map of stems on plot 95807-01-0013

X-axis: 90° N

 # stems: 10
map size: LARGE



*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Vegetation Monitoring Data (VMD) Datasheet **Please fill in any missing data and correct any errors.**

Plot 95807-01-0014

VMD Year (1-5): 2 Date: 9/14/15 - / /

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N: (dec.deg. or m) 36.363994 Datum: NAD83/WGS84

Longitude or UTM-E: -78.571876 UTM Zone: 17

Coordinate Accuracy (m): 1 X-Axis bearing (deg): 90

Plot Dimensions: X: 10 Y: 10 ☐ Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X

Party:	Role:
D. Ramsay	
C. DeFrancesco	

Date last planted: 02/2014

New planting date m/yy? /

☐ Check box if plot was not sampled, specify reason below

Notes:

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2014 Data Height 1cm*	Sep 2014 Data DBH 1 cm	Notes*	THIS YEAR'S DATA Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
185	~~Diospyros virginiana~~ Sycamore	ⓑ	R	3.0	6.3	46.5		☐	24		☒	2		UNK
186	Quercus michauxii	ⓐ	R	2.0	9.1	50.0		☐	60		☐	3		
187	**Quercus michauxii**	ⓒ	R	4.0	9.8	50.0		☐	47		☐	2		UNK
188	Quercus michauxii	ⓕ	R	5.6	3.3	*Missing*		☐	—		☐			Missing
189	**Juglans nigra**	ⓔ	R	5.3	3.6	*Missing*		☐	—		☐			Missing
190	Asimina triloba	ⓓ	R	4.3	0.6	*Missing*		☐	—		☐	0		Dead
191	**Asimina triloba**	ⓖ	R	7.0	1.2	*Missing*		☐	—		☐			Missing
192	Quercus michauxii	ⓗ	R	8.3	~~2~~64.4	40.0		☐	45		☐	3		
193	**Carpinus caroliniana**	ⓙ	R	9.1	1.6	25.0		☐	25		☐	3		
194	Platanus occidentalis	ⓘ	R	8.6	5.6	67.0		☐	68		☐	3		
195	**Liriodendron tulipifera**	ⓚ	R	9.1	6.6	*Missing*		☐	—		☐			Missing
196	Quercus michauxii	ⓛ	R	9.3	10.0	38.0		☐	33		☒	2		UNK

 # stems: 12

New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Plot (continued): 95807-01-0014

ID	Species	map char	source	X (m)	Y (m)	Sep 2014 Data ddh (mm)	Height (cm)	DBH (cm)	Notes*	9-14-15 THIS YEAR'S DATA ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

Natural Woody Stems - tallied by species

Explanation of cut-off & subsampling**:

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.): ☐ 10cm ☐ 50cm ☐ 100cm ☐ 137cm

Species Name	☑ c	SEEDLINGS — HEIGHT CLASSES: Sub-Seed	10 cm-50 cm	50 cm-100 cm	100 cm-137 cm	SAPLINGS — DBH: Sub-Sapl	0-1 cm	1-2.5	TREES — DBH: 2.5-	5-	=10 (write DBH)
~~SWEET~~ SYCAMORE											
SWEET GUM											
persimmon ~~DOGWOOD SPECIES~~											
GREEN ASH											
BLACK WILLOW											
BLACK WILLOW (cont.)											

**Required if cut-off >10cm or subsample ? 100%.

●1 ●2 ●3 ●4 ●5 ●6 ●7 ●8 ●9 ●10

Form WS2, ver 9.1

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

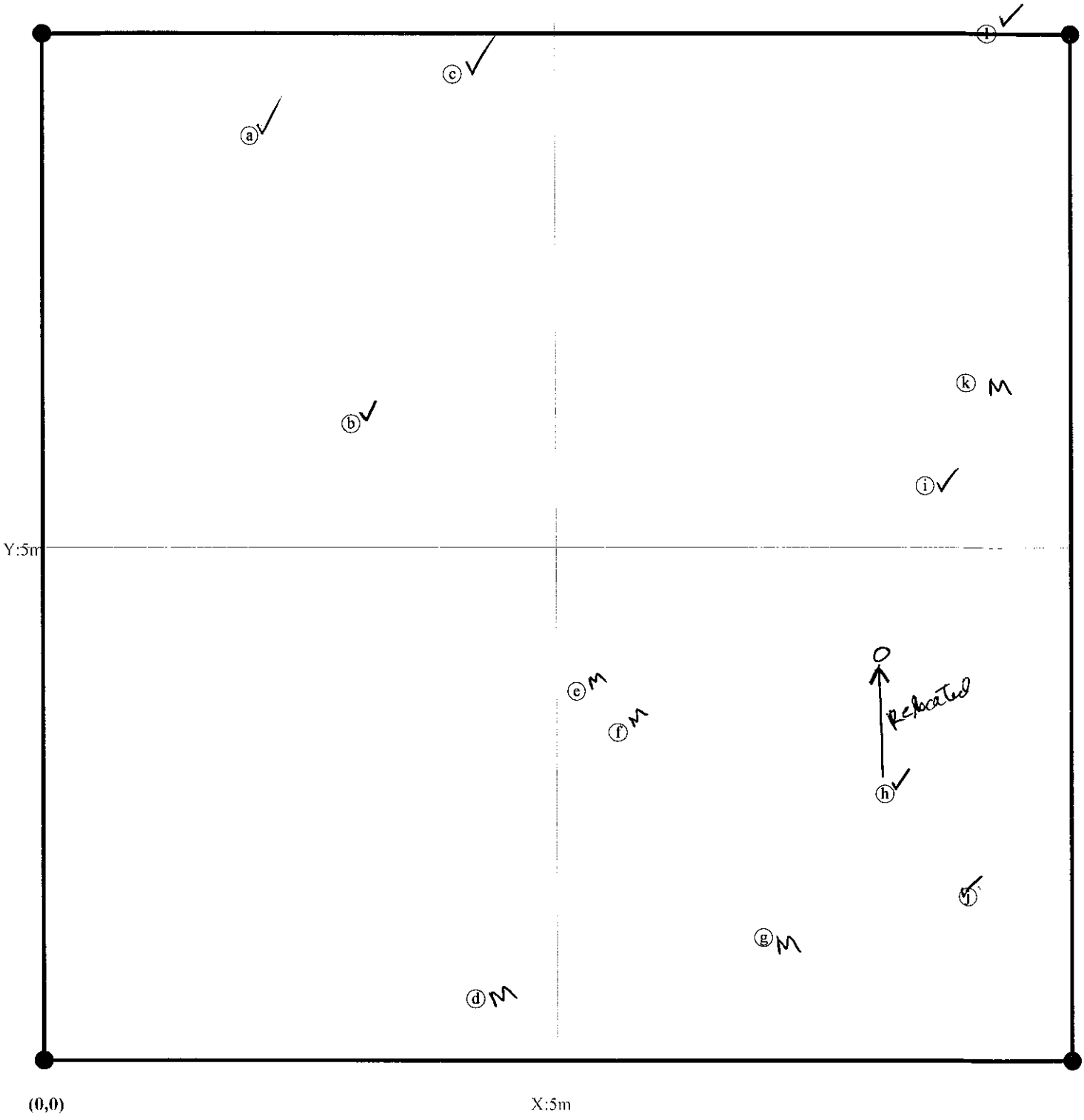
*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Map of stems on plot 95807-01-0014

X-axis: 90 ° N *# stems: 12* *map size: LARGE*



*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Printed in the CVS-EEP Entry Tool ver. 2.3.1

Vegetation Monitoring Data (VMD) Datasheet **Please fill in any missing data and correct any errors.**

Plot 95807-01-0015

VMD Year (1-5): 2 Date: 9/14/15 - / /

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N: (dec.deg. or m) 36.363028 Datum: NAD83/WGS84

Longitude or UTM-E: -78.571678 UTM Zone: 17

Coordinate Accuracy (m): 1 X-Axis bearing (deg): 90

Plot Dimensions: X: 10 Y: 10 ☐ Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X

Party:	Role:
D. Ramsay	
C. DeFrancesco	

Date last planted: 02/2014

New planting date m/yy? /

☐ Check box if plot was not sampled, specify reason below

Notes:

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2014 Data Height 1cm*	Sep 2014 Data DBH 1 cm	Notes*	THIS YEAR'S DATA Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
198	Quercus michauxii	ⓑ	R	~~5.5~~ ~~5.1~~ 5.7		*Missing*		☐	48		☐	3		~~MISSING~~ CMD
199	Asimina triloba	ⓕ	R	4.0	5.5	*Missing*		☐	—		☐			MISSING
203	Quercus michauxii	ⓗ	R	9.0	3.0	45.0		☐	32		☒	3	UNK	
205	Quercus michauxii	ⓖ	R	8.5	3.2	66.0		☐	66		☐	2	UNK	
207	Nyssa sylvatica	ⓐ	R	1.3	4.8	61.0		☐	—		☐	0		
208	Liriodendron tulipifera	ⓓ	R	1.8	7.3	44.0		☐	70		☐	3		
209	Liriodendron tulipifera	ⓒ	R	1.8	10.0	*Missing*		☐	—		☐			MISSING
686	Diospyros virginiana	ⓔ	R	3.0	9.0	100.0		☐	128		☐	3*	INS	
687	Carpinus caroliniana	ⓘ	R	9.5	9.5	48.0		☐	45		☐	3	UNK	

 # stems: 9

New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes

Natural Woody Stems - tallied by species

Explanation of cut-off & subsampling**:

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.): ☐ 10cm ☐ 50cm ☐ 100cm ☐ 137cm

Species Name	☑ c	Seedlings — Height Classes: Sub-Seed	10 cm-50 cm	50 cm-100 cm	100 cm-137 cm	Saplings — DBH: Sub-Sapl	0-1 cm	1-2.5	Trees — DBH: 2.5-	5-	=10 (write DBH)
NO VOLUNTEERS		—				—					
		—				—					
		—				—					
		—				—					
		—				—					
		—				—					
		—				—					

**Required if cut-off >10cm or subsample ? 100%.

●1 ●2 ●3 ●4 ●5 ●6 ●7 ●8 ●9 ⊠10

Form WS2, ver 9.1

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

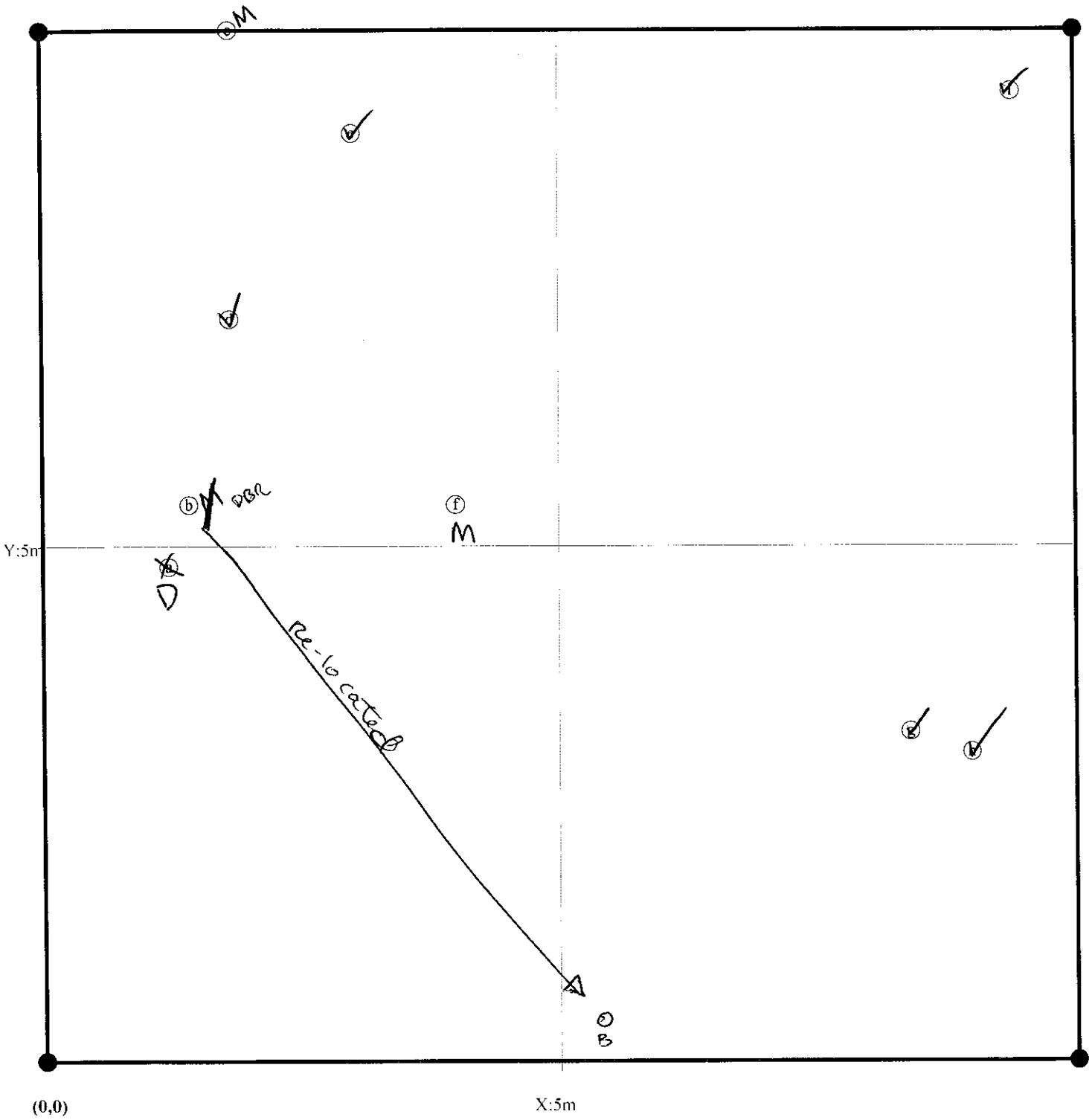
*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Map of stems on plot 95807-01-0015

X-axis: 90 ° N

 # stems: 9
map size: LARGE



*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Printed in the CVS-EEP Entry Tool ver. 2.3.1

Vegetation Monitoring Data (VMD) Datasheet **Please fill in any missing data and correct any errors.**

Plot 95807-01-0016

VMD Year (1-5): 2 Date: 9/16/15 - / /

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N: (dec.deg. or m) 36.36016 Datum: NAD83/WGS84

Longitude or UTM-E: -78.579049 UTM Zone: 17

Coordinate Accuracy (m): 1 X-Axis bearing (deg): 90

Plot Dimensions: X: 10 Y: 10 ☐ Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X

Party:	Role:
Skulyla	
DeFrancesco	
Bodle	

Date last planted: 02/2014

New planting date m/yy? /

☐ Check box if plot was not sampled, specify reason below

Notes:

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2014 Data Height 1cm*	Sep 2014 Data DBH 1 cm	Notes*	THIS YEAR'S DATA Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
210	Quercus nigra	ⓐ	R	0.6	0.3	38.0		☐	42		☐	3		
211	**Quercus falcata**	ⓓ	R	**3.0**	**3.0**	**64.0**		☐	31		☐	3	tallest stem broke off 6	
212	Diospyros virginiana	ⓑ	R	1.8	6.0	67.0		☐	73		☐	3		
213	**Cercis canadensis**	ⓔ	R	**3.5**	**8.5**	**36.0**		☐	—		☐	0	Dead	
214	Diospyros virginiana	ⓖ	R	5.6	9.3	32.0		☐	54		☐	3		
215	**Liriodendron tulipifera**	ⓙ	R	**8.3**	**9.3**	**25.0**		☐	23		☒	2	UNK	
216	Liriodendron tulipifera	ⓘ	R	7.0	7.6	31.0		☐	—		☐	0	Dead	
217	**Quercus nigra**	ⓕ	R	**5.0**	**5.3**	**59.0**		☐	27		☒	2	UNK	
218	Cornus florida	ⓗ	R	6.2	2.3	32.0		☐	36		☐	2	UNK	
219	**Cercis canadensis**	ⓛ	R	**9.0**	**0.0**	**57.0**		☐	30		☐	3	tall stem broke off	
220	Cornus florida	ⓒ	R	10.0	2.6	25.0		☐	28		☐	2	UNK	
221	**Quercus falcata**	ⓚ	R	**8.8**	**4.3**	**12.0**		☐	16		☒	3		
222	Cornus florida	ⓜ	R	9.0	7.3	32.0		☐	9		☒	2	UNK	

 # stems: 13

New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Plot (continued): 95807-01-0016					Sep 2014 Data				THIS YEAR'S DATA						
ID	Species	map char	source	X (m)	Y (m)	ddh (mm)	Height (cm)	DBH (cm)	Notes*	ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

Natural Woody Stems - tallied by species

Explanation of cut-off & subsampling**:

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.): ☐ 10cm ☐ 50cm ☐ 100cm ☐ 137cm

Species Name	☑ c	SEEDLINGS — HEIGHT CLASSES				SAPLINGS — DBH			TREES — DBH		
		Sub-Seed	10 cm-50 cm	50 cm-100 cm	100 cm-137 cm	Sub-Sapl	0-1 cm	1-2.5	2.5-	5-	=10 (write DBH)
Green Ash											
Sweet Gum											
red Maple											
Holly											
Tulip Poplar											

**Required if cut-off >10cm or subsample ? 100%.

●1 ●2 ●3 ●4 ●5 ●6 ●7 ●8 ●9 ●10

Form WS2, ver 9.1

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

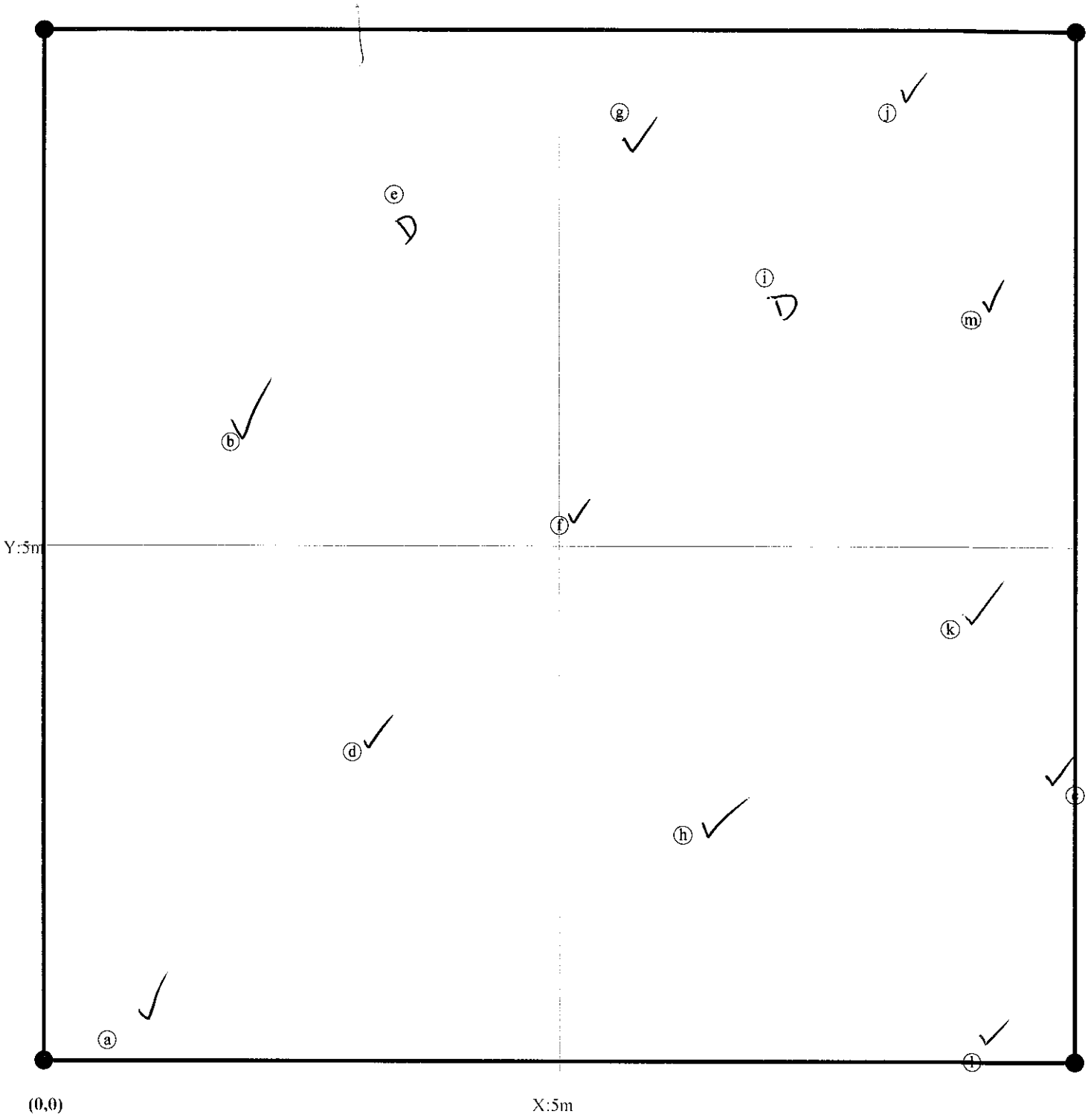
*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Map of stems on plot 95807-01-0016

X-axis: 90 °

N

 # stems: 13
map size: LARGE



*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Vegetation Monitoring Data (VMD) Datasheet **Please fill in any missing data and correct any errors.**

Plot 95807-01-0017

VMD Year (1-5): 2 Date: 9/16/15 - / /

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N: (dec.deg. or m) 36.359799 Datum: NAD83/WGS84

Longitude or UTM-E: -78.57842 UTM Zone: 17

Coordinate Accuracy (m): 1 X-Axis bearing (deg): 90

Plot Dimensions: X: 10 Y: 10 ☐ Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X

Party:	Role:
SKokulas	
Bode	
DeFrancesco	

Date last planted: 02/2014

New planting date m/yy? /

☐ Check box if plot was not sampled, specify reason below

Notes:

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2014 Data Height 1cm*	Sep 2014 Data DBH 1 cm	Notes*	THIS YEAR'S DATA Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
224	~~Quercus falcata~~ nigra	ⓑ	R	3.5	6.0	43.0		☐	✓ 41		☐	3	Snapped	
225	Cornus florida	ⓐ	R	0.6	9.5	*Missing*		☐	✓ 21		☒	3		
226	Quercus falcata	ⓔ	R	5.9	8.3	39.0		☐	✓ 54		☐	3		
227	Liriodendron tulipifera	ⓕ	R	7.0	6.4	39.0		☐	✓ 50		☐	3	INS	
228	~~Quercus nigra~~ tulippoplar	ⓓ	R	5.6	3.3	19.0		☐	30 13		☐	3	~~INS~~	
✓ 229	Nyssa sylvatica	ⓒ	R	4.0	2.0	10.5		☐	13 20		☐	3		
230	Quercus falcata	ⓖ	R	8.0	2.3	53.0		☐	48		☐	2UNK	top dead & broke off	
231	Liriodendron tulipifera	ⓘ	R	9.0	4.6	26.0		☐	30		☐	3		
233	Quercus nigra	ⓗ	R	8.5	10.0	37.5		☐	34		☐	3	top dead & broke off	

 # stems: 9

New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes

Natural Woody Stems - tallied by species

Explanation of cut-off & subsampling**:

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.): ☐ 10cm ☐ 50cm ☐ 100cm ☐ 137cm

Species Name	☑ c	Seedlings — Height Classes: Sub-Seed	10 cm-50 cm	50 cm-100 cm	100 cm-137 cm	Saplings — DBH: Sub-Sapl	0-1 cm	1-2.5	Trees — DBH: 2.5-	5-	=10 (write DBH)
Loblolly		—	☒ 1			—					
Green Ash		—	☒ ☐			—					
Sweet Gum		—	3			—					
Red Maple		—	4			—					
Sycamore		—	5			—					
Slippery El		—	6			—					
		—				—					

**Required if cut-off >10cm or subsample ? 100%.

●1 ●2 ●3 ●4 ●5 ●6 ●7 ●8 ●9 ●10

Form WS2, ver 9.1

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

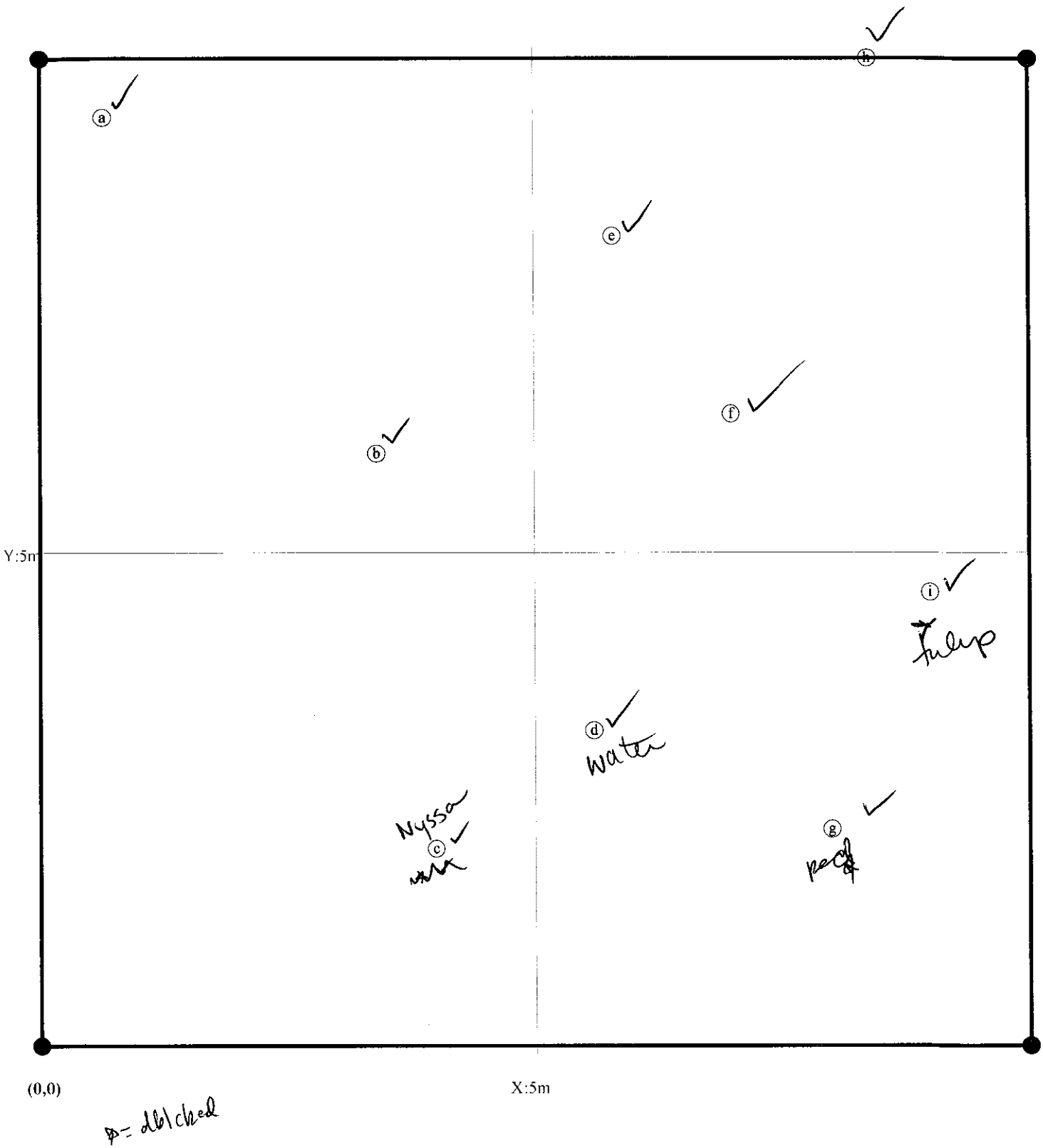
*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Printed in the CVS-EEP Entry Tool ver. 2.3.1

Map of stems on plot 95807-01-0017

X-axis: 90 ° N

 # stems: 9
map size: LARGE



*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Vegetation Monitoring Data (VMD) Datasheet **Please fill in any missing data and correct any errors.**

Plot 95807-01-0018

VMD Year (1-5): 2 Date: 9 / 10 / 15 - / /

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N: (dec.deg. or m) 36.359704 Datum: NAD83/W

Longitude or UTM-E: -78.577134 UTM Zone:

Coordinate Accuracy (m): 1 X-Axis bearing (deg): 90

Plot Dimensions: X: 10 Y: 10 ☐ Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X

Party:	Role:
Skekula	
Bode	
DeFrancesco	

Date last planted: 02/2014

New planting date m/yy? /

☐ Check box if plot was not sampled, specify reason below

Notes:

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2014 Data Height 1cm*	Sep 2014 Data DBH 1 cm	Notes*	THIS YEAR'S DATA Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
235	Liriodendron tulipifera	ⓑ	R	0.6	0.9	29.0		☐	45		☐	3		
236	**Nyssa sylvatica**	ⓒ	R	1.5	3.3	55.0		☐	55		☐	3		
237	Quercus nigra	ⓔ	R	2.0	5.8	52.0		☐	101		☐	3		
239	**Quercus nigra**	ⓐ	R	0.3	8.5	41.0		☐	38		☐	2	UNK	
240	Diospyros virginiana	ⓘ	R	6.0	8.3	17.0		☐	33		☐	3		
241	**Liriodendron tulipifera**	ⓗ	R	5.6	5.3	30.0		☐	—		☐	0	Dead	
242	Quercus nigra	ⓕ	R	3.7	2.3	54.0		☐	56		☐	3		
243	**Quercus nigra**	ⓙ	R	8.0	1.3	34.0		☐	35		☐	3		
244	Liriodendron tulipifera	ⓖ	R	3.8	0.3	19.0		☐	—		☐	0		
245	**Nyssa sylvatica**	ⓚ	R	8.6	3.3	56.0		☐	12		☒	2	UNK	
246	Quercus nigra	ⓛ	R	9.0	7.0	51.5		☐	62		☐	3		
247	**Nyssa sylvatica**	ⓜ	R	9.3	9.6	46.0		☐	22		☐	3	UNK	
248	Liriodendron tulipifera	ⓓ	R	10.0	1.3	14.0		☐	—		☐	0	Dead	

 # stems: 13

New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Plot (continued): 95807-01-0018					Sep 2014 Data			Notes*	THIS YEAR'S DATA						
ID	Species	map char	source	X (m)	Y (m)	ddh (mm)	Height (cm)	DBH (cm)		ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage* Notes

Natural Woody Stems - tallied by species

Explanation of cut-off & subsampling**:

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.): ☐ 10cm ☐ 50cm ☐ 100cm ☐ 137cm

Species Name	☑ c	SEEDLINGS — HEIGHT CLASSES				SAPLINGS — DBH			TREES — DBH		
		Sub-Seed	10 cm-50 cm	50 cm-100 cm	100 cm-137 cm	Sub-Sapl	0-1 cm	1-2.5	2.5-	5-	=10 (write DBH)
Green Ash			2								
Loblolly			0	0							

**Required if cut-off >10cm or subsample? 100%.

1 2 3 4 5 6 7 8 9 10

Form WS2, ver 9.1

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

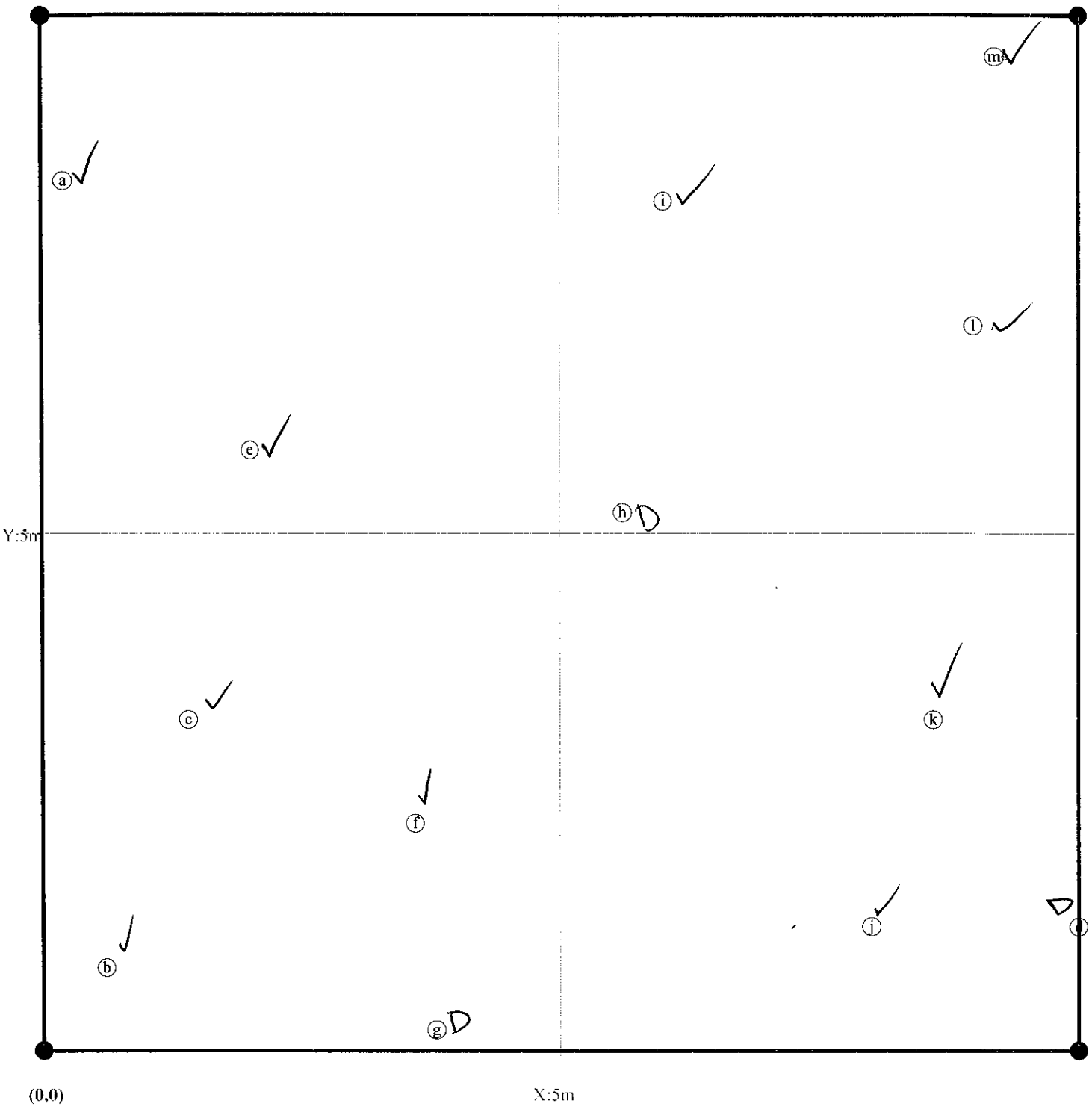
*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Map of stems on plot 95807-01-0018

X-axis: 90 °

N

 # stems: 13
map size: LARGE



*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Vegetation Monitoring Data (VMD) Datasheet **Please fill in any missing data and correct any errors.**

Plot 95807-01-0019

VMD Year (1-5): 2 Date: 9/16/15 - / /

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N: (dec.deg. or m) 36.35967 Datum: NAD83/WGS84

Longitude or UTM-E: -78.576292 UTM Zone: 17

Coordinate Accuracy (m): 1 X-Axis bearing (deg): 90

Plot Dimensions: X: 10 Y: 10 ☐ Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X

Party: Role:
Skelula
Bode
Defrancesco

Date last planted: 02/2014
New planting date m/yy? /
☐ Check box if plot was not sampled, specify reason below
Notes:

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2014 Data Height 1cm*	Sep 2014 Data DBH 1 cm	Notes*	THIS YEAR'S DATA Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
249	**Quercus nigra**	ⓐ	**R**	**0.3**	**0.6**	**34.0**		☐	34		☐	3		
250	Nyssa sylvatica	ⓒ	R	1.5	9.0	*Missing*		☐	—		☐	M(SMey		
251	**Diospyros virginiana**	ⓑ	**R**	**0.3**	**6.8**	**40.0**		☐	41		☐	3		
252	Diospyros virginiana	ⓓ	R	2.3	9.0	67.0		☐	31		☐	3		
253	**Nyssa sylvatica**	ⓔ	**R**	**3.0**	**5.0**	**24.0**		☐	24		☐	2	UNK	
254	Nyssa sylvatica	ⓕ	R	4.5	2.3	25.5		☐	34		☐	3		
255	**Liriodendron tulipifera**	ⓖ	**R**	**5.0**	**7.3**	***Missing***		☐	—		☐	M(SMey		
256	Liriodendron tulipifera	ⓘ	R	6.3	9.0	21.5		☐	24		☐	3		
257	**Nyssa sylvatica**	ⓚ	**R**	**8.0**	**7.6**	**54.0**		☐	59		☐	3		
258	Liriodendron tulipifera	ⓗ	R	6.0	3.6	9.0		☐	—		☐	0	Dead	
259	**Quercus nigra**	ⓙ	**R**	**7.3**	**1.0**	**30.5**		☐	—		☐	0	Dead	
260	Quercus nigra	ⓛ	R	8.5	3.0	25.0		☐	—		☐	0	Dead	
262	**Diospyros virginiana**	ⓝ	**R**	**9.9**	**0.6**	**60.0**		☐	24		☒	3		
263	Cornus florida	ⓜ	R	9.0	9.3	18.5		☐	—		☐	0	Dead	

 # stems: *14* New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Plot (continued): 95807-01-0019

ID	Species	map char	source	X (m)	Y (m)	Sep 2014 Data ddh (mm)	Height (cm)	DBH (cm)	Notes*	THIS YEAR'S DATA ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

Natural Woody Stems - tallied by species

Explanation of cut-off & subsampling**:

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.): ☐ 10cm ☐ 50cm ☐ 100cm ☐ 137cm

Species Name	☑ c	SEEDLINGS — HEIGHT CLASSES				SAPLINGS — DBH			TREES — DBH		
		Sub-Seed	10 cm-50 cm	50 cm-100 cm	100 cm-137 cm	Sub-Sapl	0-1 cm	1-2.5	2.5-	5-	=10 (write DBH)
Green Ash			••								

**Required if cut-off >10cm or subsample ? 100%.

●1 ●2 ●3 ●●4 ●●5 ●●6 ●●7 ●●8 ●●9 ●●10

Form WS2, ver 9.1

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

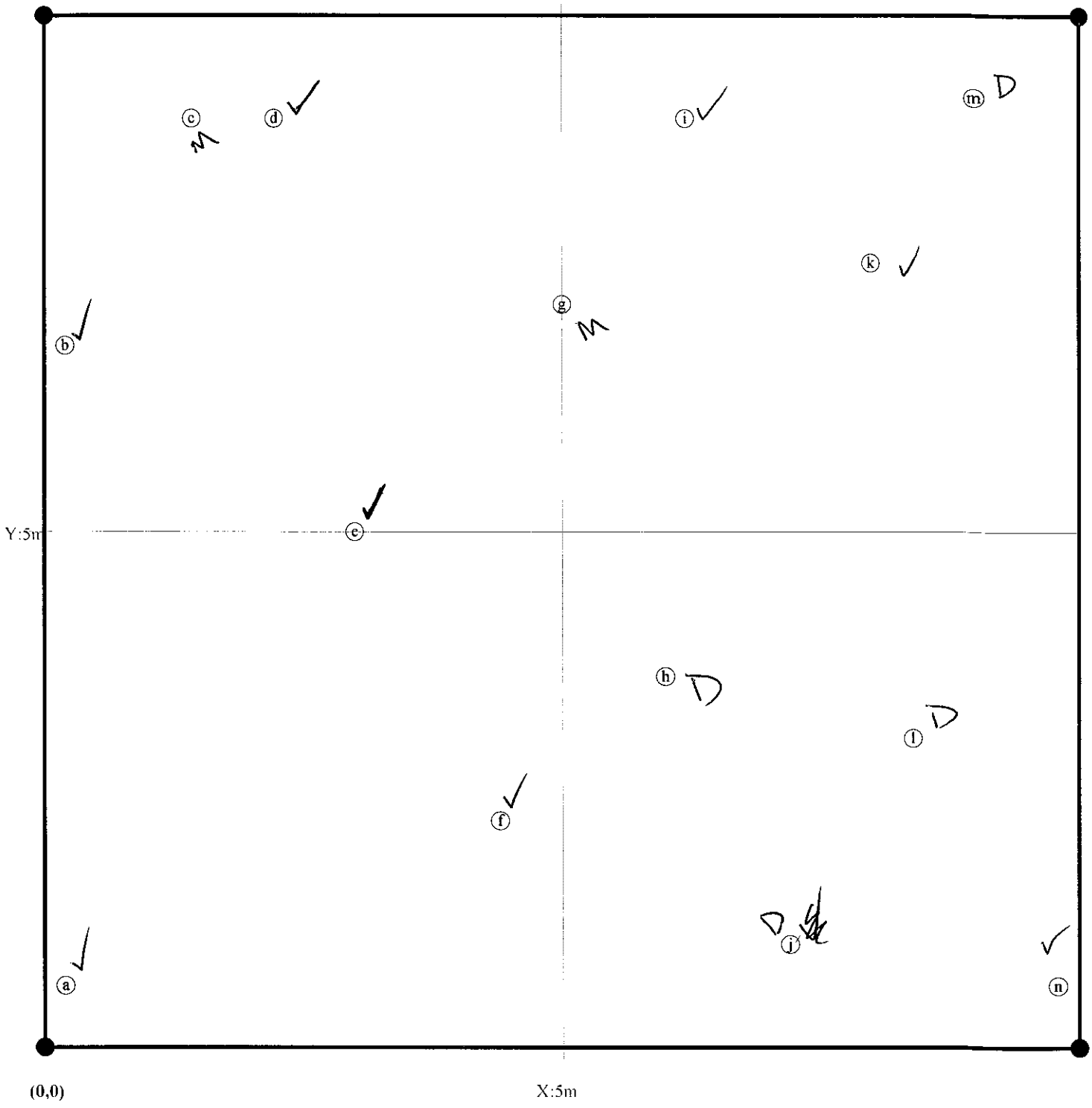
*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Map of stems on plot 95807-01-0019

X-axis: 90° N

 # stems: 14
map size: LARGE



*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Vegetation Monitoring Data (VMD) Datasheet **Please fill in any missing data and correct any errors.**

Plot 95807-01-0020

VMD Year (1-5): 2 Date: 9/16/15 - / /

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N: (dec.deg. or m) 36.359214 Datum: NAD83/W GS84

Longitude or UTM-E: -78.575537 UTM Zone: 17

Coordinate Accuracy (m): 1 X-Axis bearing (deg): 90

Plot Dimensions: X: 10 Y: 10 ☐ Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X

Party: Skelyla, Bode, DeFrancesco Role:

Date last planted: 02/2014

New planting date m/yy? /

☐ Check box if plot was not sampled, specify reason below

Notes:

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2014 Data Height 1cm*	DBH 1 cm	Notes*	THIS YEAR'S DATA Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
264	**Quercus falcata**	ⓐ	R	0.3	0.3	33.0		☐	34		☐	3		
265	Nyssa sylvatica	ⓕ	R	3.5	2.0	62.0		☐	10		X	1	UNK	
266	**Cornus florida**	ⓑ	R	0.8	3.3	*Missing*		☐	—		☐	0	Dead	
267	Quercus nigra	ⓒ	R	1.8	6.0	40.0		☐	40 (was 37)		☐	3	UNK and	
268	**Quercus falcata**	ⓓ	R	2.0	8.3	35.0		☐	38		☐	3		
269	Liriodendron tulipifera	ⓗ	R	5.5	9.3	20.0		☐	25		☐	3		
270	**Nyssa sylvatica**	ⓖ	R	4.0	7.4	20.0		☐	36		☐	3		
271	Liriodendron tulipifera	ⓔ	R	3.0	3.6	24.0		☐	37		☐	3		
272	**Nyssa sylvatica**	ⓘ	R	6.6	0.6	10.5		☐	15		X	1	UNK	
273	Quercus falcata Dead	ⓙ	R	7.0	3.0	31.0		☐	—		☐	0	Dead	
274	**Quercus falcata**	ⓚ	R	7.5	5.2	33.0		☐	46		☐	3		
275	Nyssa sylvatica	ⓛ	R	8.3	7.3	22.0		☐	17		X	3		
276	**Nyssa sylvatica**	ⓝ	R	9.0	9.8	41.0		☐	—		☐	0	Dead	
277	Quercus nigra	ⓞ	R	9.3	5.3	42.0		☐	35		☐	3	top snapped off	
278	**Cercis canadensis**	ⓜ	R	8.8	1.6	18.0		☐	35		☐	3		

 # stems: 15

New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Plot (continued): 95807-01-0020

ID	Species	map char	source	X (m)	Y (m)	Sep 2014 Data: ddh (mm)	Height (cm)	DBH (cm)	Notes*	THIS YEAR'S DATA: ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

Natural Woody Stems - tallied by species

Explanation of cut-off & subsampling**:

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.): ☐ 10cm ☐ 50cm ☐ 100cm ☐ 137cm

Species Name	☑ c	SEEDLINGS — HEIGHT CLASSES: Sub-Seed	10 cm-50 cm	50 cm-100 cm	100 cm-137 cm	SAPLINGS — DBH: Sub-Sapl	0-1 cm	1-2.5	TREES — DBH: 2.5-	5-	=10 (write DBH)

**Required if cut-off >10cm or subsample ? 100%.

●1 ●2 ●3 ●4 ●5 ●6 ●7 ●8 ●9 ●10

Form WS2, ver 9.1

NO VOLUNTEERS

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

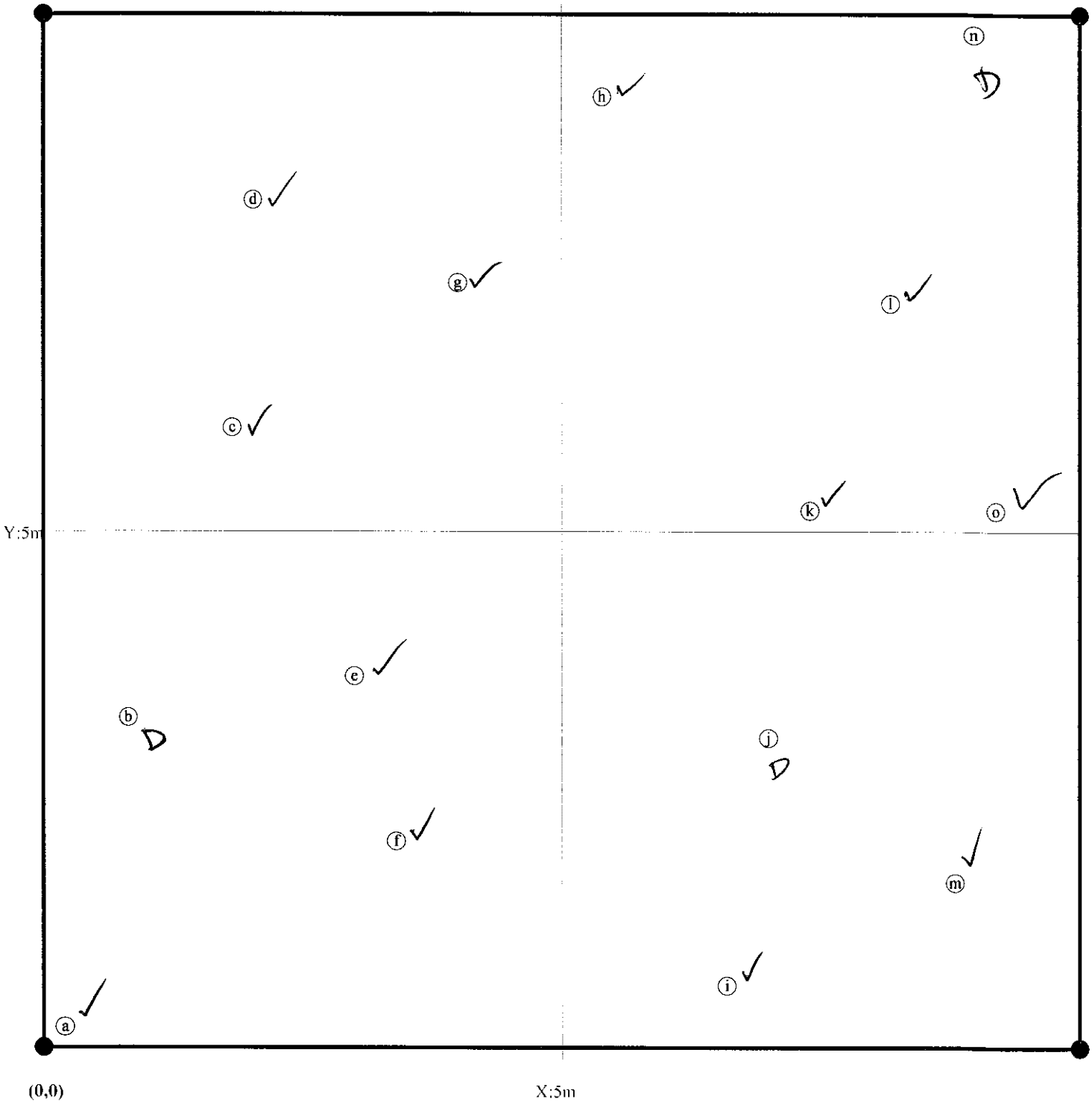
*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Map of stems on plot 95807-01-0020

X-axis: 90 °

N

 # stems: 15
map size: LARGE



*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Vegetation Monitoring Data (VMD) Datasheet **Please fill in any missing data and correct any errors.**

Plot 95807-01-0021

VMD Year (1-5): 2 Date: 9/16/15 - / /

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N: (dec.deg. or m) 36.359415 Datum: NAD83/WGS84

Longitude or UTM-E: -78.57399 UTM Zone: 17

Coordinate Accuracy (m): 1 X-Axis bearing (deg): 90

Plot Dimensions: X: 10 Y: 10 ☐ Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X

Party:	Role:
Skhulan	
Bode	
~~Chris~~ DeFrancesco	

Date last planted: 02/2014

New planting date m/yy? /

☐ Check box if plot was not sampled, specify reason below

Notes:

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2014 Data Height 1cm*	Sep 2014 Data DBH 1 cm	Notes*	THIS YEAR'S DATA Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
279	Quercus falcata	ⓐ	R	0.0	0.6	54.5		☐	81		☐	3		
280	**Quercus nigra**	ⓔ	R	**2.6**	**3.6**	**58.5**		☐	77		☐	3		
281	Quercus nigra	ⓒ	R	0.3	7.0	31.0		☐	37		☐	3		
282	**Quercus nigra**	ⓑ	R	**0.1**	**9.3**	**26.0**		☐	62		☐	3		
283	Diospyros virginiana	ⓖ	R	3.6	9.3	59.0		☐	77		☐	3		
284	**Liriodendron tulipifera**	ⓕ	R	**3.3**	**6.8**	**33.0**		☐	15		☒			
285	Nyssa sylvatica	ⓓ	R	2.6	0.1	61.0		☐	67		☐	3		
286	**Cercis canadensis**	ⓗ	R	**5.8**	**0.3**	*Missing*		☐	—		☐	missing		
287	Quercus nigra	ⓘ	R	6.0	2.6	43.0		☐	43		☐	3		
288	**Liriodendron tulipifera**	ⓙ	R	**6.3**	**5.5**	**25.0**		☐	36		☐	3		
289	Quercus nigra	ⓚ	R	7.0	8.0	46.0		☐	40		☐	3		
290	**Quercus nigra**	ⓛ	R	**7.3**	**9.9**	**31.0**		☐	39		☐	3		
291	Nyssa sylvatica	ⓟ	R	8.8	9.6	58.0		☐	—		☐	0		
292	**Diospyros virginiana**	ⓝ	R	**8.5**	**7.3**	**54.0**		☐	55		☐	3		
293	Nyssa sylvatica	ⓞ	R	8.6	4.0	45.0		☐	53		☐	3		
294	**Diospyros virginiana**	ⓜ	R	**8.3**	**1.0**	**23.0**		☐	41		☐	3		

 # stems: *16* New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Plot (continued): 95807-01-0021

ID	Species	map char	source	X (m)	Y (m)	Sep 2014 Data ddh (mm)	Height (cm)	DBH (cm)	Notes*	THIS YEAR'S DATA ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

Natural Woody Stems - tallied by species

Explanation of cut-off & subsampling**:

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.): ☐ 10cm ☐ 50cm ☐ 100cm ☐ 137cm

Species Name	☑ c	SEEDLINGS — HEIGHT CLASSES: Sub-Seed	10 cm-50 cm	50 cm-100 cm	100 cm-137 cm	SAPLINGS — DBH: Sub-Sapl	0-1 cm	1-2.5	TREES — DBH: 2.5-	5-	=10 (write DBH)

**Required if cut-off >10cm or subsample ? 100%.

●1 ●2 ●3 ●4 ●5 ●6 ●7 ●8 ●9 ●10

Form WS2, ver 9.1

No volunteers

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

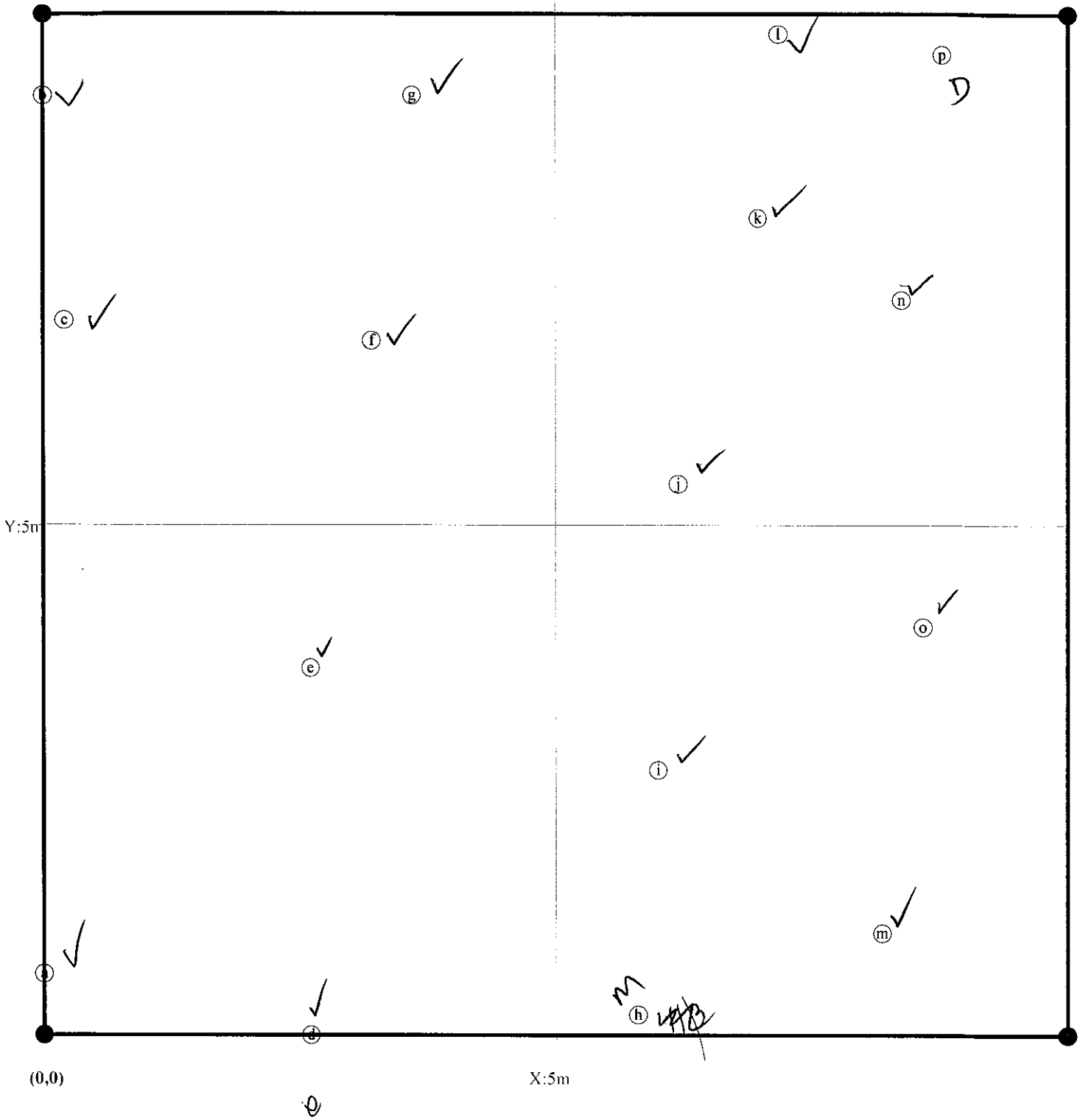
*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Map of stems on plot 95807-01-0021

X-axis: 90 °

N

 # stems: 16
map size: LARGE



*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Printed in the CVS-EEP Entry Tool ver. 2.3.1

Vegetation Monitoring Data (VMD) Datasheet **Please fill in any missing data and correct any errors.**

Plot 95807-01-0022

VMD Year (1-5): 2 Date: 9/16/15 - / /

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N: (dec.deg. or m) 36.35959 Datum: NAD83/WGS84

Longitude or UTM-E: -78.573227 UTM Zone: 17

Coordinate Accuracy (m): 1 X-Axis bearing (deg): 90

Plot Dimensions: X: 10 Y: 10 ☐ Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X

Party:	Role:
Skelnar	
Bode	
DeFrancesco	

Date last planted: 02/2014

New planting date m/yy? /

☐ Check box if plot was not sampled, specify reason below

Notes:

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2014 Data Height 1cm*	Sep 2014 Data DBH 1 cm	Notes*	THIS YEAR'S DATA Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
295	Quercus nigra	ⓑ	R	0.6	6.0	65.0		☐	97		☐	3		
296	**Liriodendron tulipifera**	ⓓ	**R**	**1.3**	**8.8**	**35.0**		☐	—		☐	0	Dead	
297	Quercus nigra	ⓘ	R	6.6	8.3	44.0		☐	55		☐	3		
298	**Quercus falcata**	ⓗ	**R**	**6.0**	**6.0**	**35.0**		☐	38		☐	3		
299	Diospyros virginiana	ⓖ	R	5.3	2.6	46.0		☐	56		☐	3		
300	**Liriodendron tulipifera**	ⓐ	**R**	**0.1**	**2.8**	**26.0**		☐	—		☐	0	Dead	
301	Diospyros virginiana	ⓙ	R	8.3	2.3	35.0		☐	32		☐	3		
302	**Quercus nigra**	ⓔ	**R**	**10.0**	**1.5**	**37.0**		☐	95		☐	3		
303	Nyssa sylvatica	ⓚ	R	8.8	5.6	40.0		☐	41		☐	3		
304	**Nyssa sylvatica**	ⓛ	**R**	**9.0**	**9.0**	**51.0**		☐	52		☐	3		
305	Nyssa sylvatica F2	ⓕ	R	4.8	0.1	34.0		☐	38		☐	3		
306	**Liriodendron tulipifera**	ⓒ	**R**	2.1	**6.3**	**24.0**		☐	27		☐	3		
690	Diospyros virginiana F1	ⓕ	R	4.8	0.1	27.0		☐	51		☐	3		

 # stems: 13

New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Plot (continued): 95807-01-0022

ID	Species	map char	source	X (m)	Y (m)	Sep 2014 Data ddh (mm)	Height (cm)	DBH (cm)	Notes*	THIS YEAR'S DATA ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

Natural Woody Stems - tallied by species

Explanation of cut-off & subsampling**:

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.): ☐ 10cm ☐ 50cm ☐ 100cm ☐ 137cm

Species Name	☑ c	SEEDLINGS — HEIGHT CLASSES: Sub-Seed	10 cm-50 cm	50 cm-100 cm	100 cm-137 cm	SAPLINGS — DBH: Sub-Sapl	0-1 cm	1-2.5	TREES — DBH: 2.5-	5-	=10 (write DBH)
Sweet Gum			6								
Hickory			6								
Green Ash			1								
Loblolly			2								

**Required if cut-off >10cm or subsample ? 100%.

●1 ●2 ●3 ●●4 ●●5 ●●6 ●●7 ●●8 ●●9 ●●10

Form WS2, ver 9.1

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

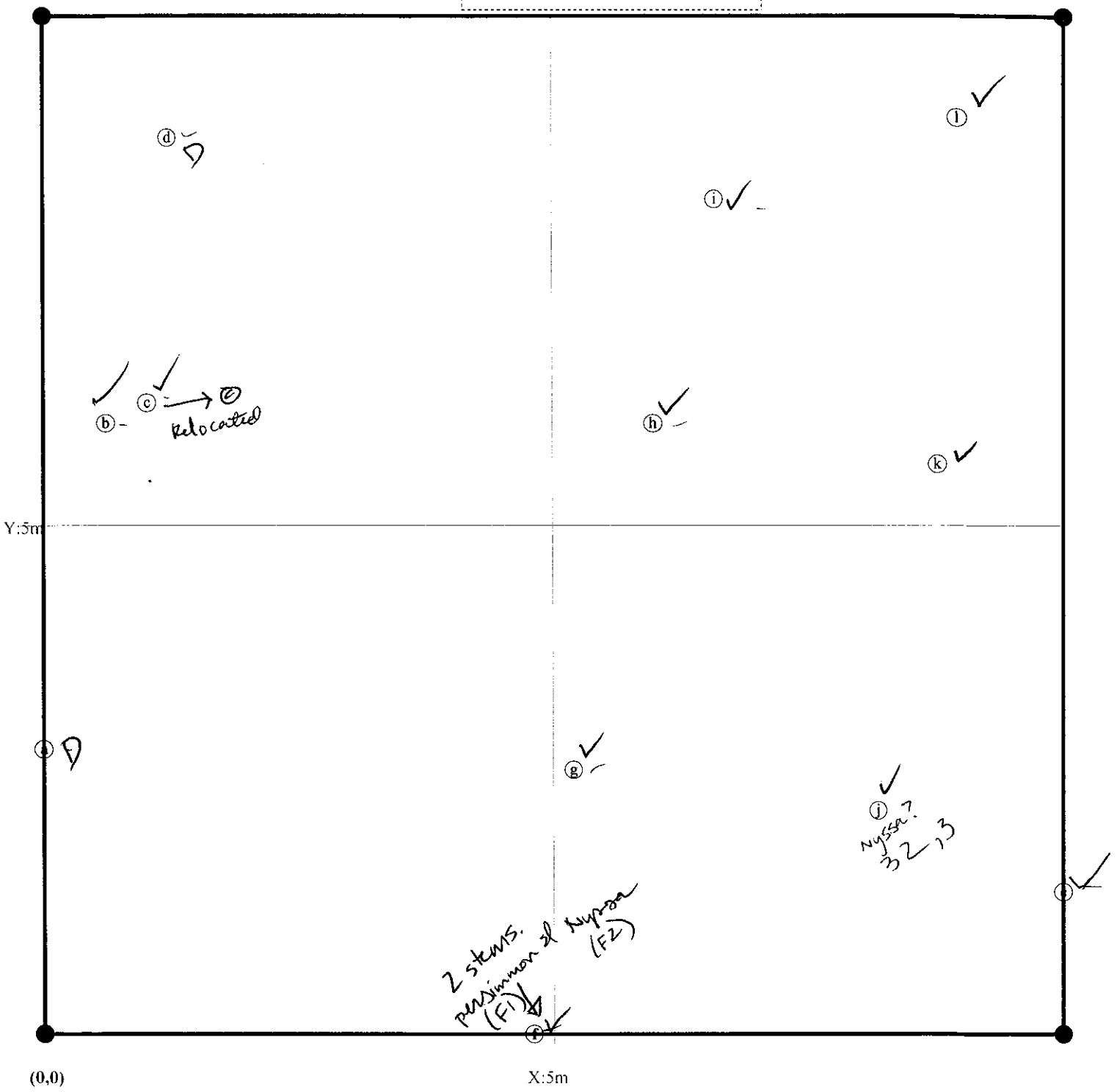
Map of stems on plot 95807-01-0022

X-axis: 90 °

N

 # stems: 13
map size: LARGE

There are multiple stems represented by some letters, shown in bold on the map.



*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Vegetation Monitoring Data (VMD) Datasheet **Please fill in any missing data and correct any errors.**

Plot 95807-01-0023

VMD Year (1-5): 2 Date: 9/14/15 - / /

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N: (dec.deg. or m) 36.369391 Datum: NAD83/W

Longitude or UTM-E: -78.572281 UTM Zone: 17

Coordinate Accuracy (m): 1 X-Axis bearing (deg): 90

Plot Dimensions: X: 10 Y: 10 ☐ Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X

Party: CMD, DBR Role:

Date last planted: 02/2014

New planting date m/yy? /

☐ Check box if plot was not sampled, specify reason below

Notes:

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2014 Data Height 1cm*	Sep 2014 Data DBH 1 cm	Notes*	THIS YEAR'S DATA Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
307	**Quercus nigra**	a	R	0.6	0.3	58.0		☐	58		☐	3		
308	Liriodendron tulipifera	g	R	4.2	1.3	34.0		☐	23		X	2		UNK
309	**Diospyros virginiana**	h	R	~~3.9~~ 5.3	~~4.0~~ 3.8	20.0		☐	34		☐	3		
310	Nyssa sylvatica	i	R	7.3	0.4	52.0		☐	52		☐	2		UNK
311	**Juglans nigra**	k	R	8.3	3.8	25.0		☐	—		☐	MISSING		
312	Quercus nigra	e	R	3.6	7.3	63.5		☐	106		☐	3		
313	**Quercus nigra**	d	R	~~2.0~~	7.0	57.0		☐	~~72~~		☐	3		MISSING emm
314	Liriodendron tulipifera	c	R	2.0	3.6	18.0		☐	79		☐	3		
315	**Liriodendron tulipifera**	f	R	3.6	9.3	26.0		☐	26		☐	3		
316	Nyssa sylvatica	j	R	8.0	9.5	54.0		☐	~~40~~ 54	emo	☐	1		DIS
317	**Quercus nigra**	n	R	9.4	9.0	36.5		☐	22		X	3		
318	Nyssa sylvatica	l	R	8.8	7.8	44.5		☐	40		☐	2		UNK
319	**Quercus falcata**	b	R	10.0	3.3	38.0		☐	15		☐	1		BITTEN - MAIN
320	Quercus nigra	m	R	9.3	0.3	*Missing*		☐	—		☐	0		Dead

 # stems: 14

New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes

DIS

*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Plot (continued): 95807-01-0023

ID	Species	map char	source	X (m)	Y (m)	Sep 2014 Data ddh (mm)	Height (cm)	DBH (cm)	Notes*	THIS YEAR'S DATA ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

Natural Woody Stems - tallied by species

Explanation of cut-off & subsampling**:

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.): ☐ 10cm ☐ 50cm ☐ 100cm ☐ 137cm

Species Name	☑ c	SEEDLINGS — HEIGHT CLASSES: Sub-Seed	10 cm-50 cm	50 cm-100 cm	100 cm-137 cm	SAPLINGS — DBH: Sub-Sapl	0-1 cm	1-2.5	TREES — DBH: 2.5-	5-	=10 (write DBH)
Tulip Poplar		___	4			___					
Loblolly Pine		___	0			___					
		___				___					
		___				___					
		___				___					
		___				___					
		___				___					

**Required if cut-off >10cm or subsample ? 100%.

●1 ●2 ●3 ●4 ●5 ●6 ●7 ●8 ●9 ●10

Form WS2, ver 9.1

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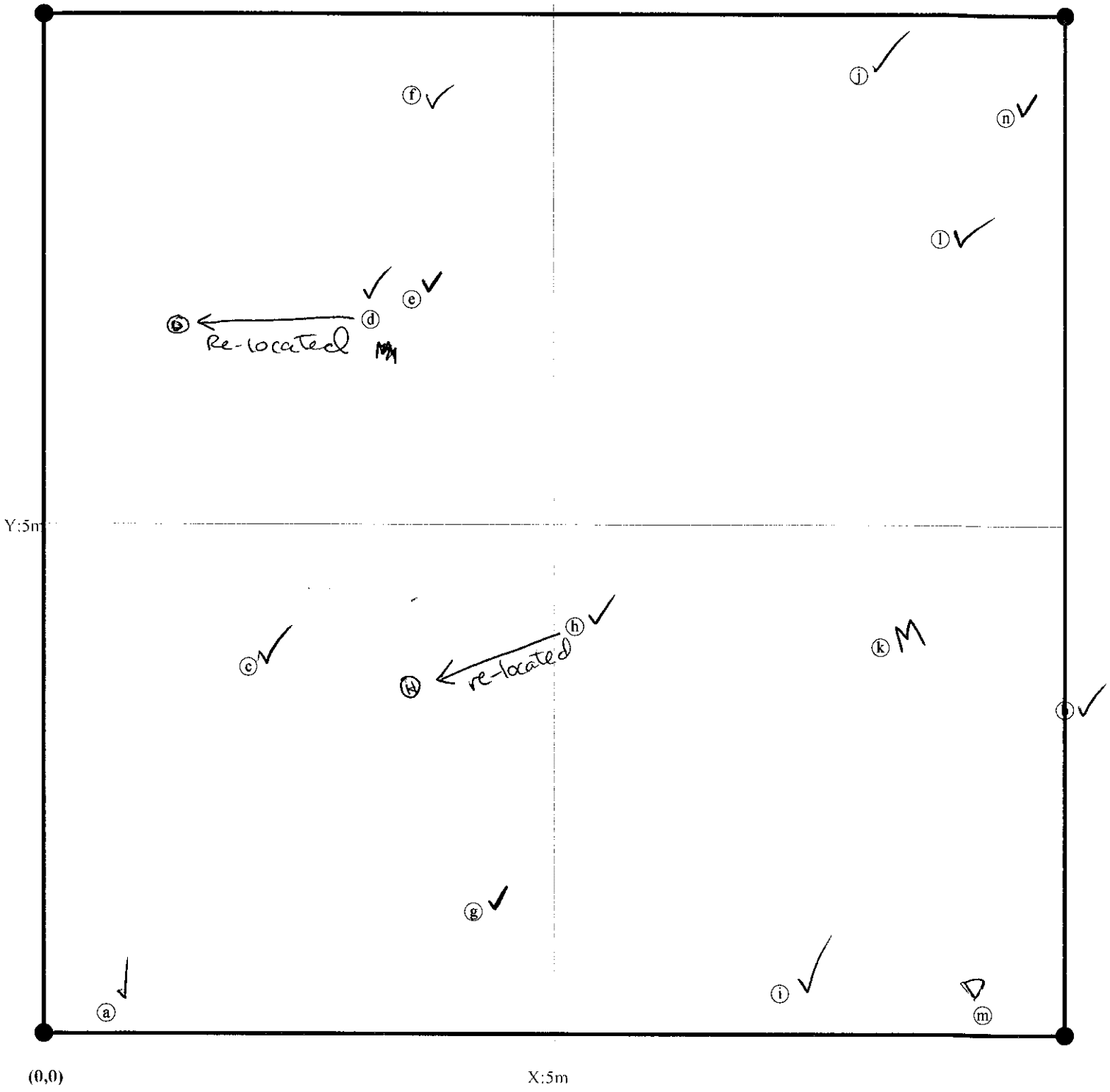
*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Map of stems on plot 95807-01-0023

X-axis: 90° N

 # stems: 14
map size: LARGE



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