

**Table 13: The Pumpphouse Park Study Area - Baseline Study Data Summary;
JRPS Habitat Restoration Project (Phase 1) - Invasive Plant Management Plan**

Lead Data Collection Team: Virginia Commonwealth University (Wright, Ryan, Slade, Huber)
Support Data Collection Teams: N/A
Date of Fieldwork: July 10 and 16, 2015
Total Time in Field: 16 hours



Functional Guild	Scientific Name	Common Name	Family	DCR Rank*	Suggested Treatment***	Management Unit**									
						1a	1b	2a	2b	3a	3b	4a	4b	5	
Trees	Acer platanoides L.	Norway Maple	Aceraceae	M	na										
	Ailanthus altissima (P. Mill.) Swingle	Tree of Heaven	Simaroubaceae	H	TBD	4	1	4	1	2+	2	2	2	4	
	Albizia julibrissin Durazz.	Mimosa	Fabaceae	M	TBD		2	3+	2	2					
	Melia azedarach L.	Chinaberrytree	Meliaceae	L	TBD					1					
	Morus alba L.	White Mulberry	Moraceae	L	TBD					1		1			
	Paulownia tomentosa (Thunb.) Sieb. & Zucc. ex Steud.	Princesstree	Scrophulariaceae	M	TBD	1+	1		1	2	1		1	1	
	Pyrus calleryana Dcne.	Bradford Pear	Rosaceae	M	na										
Shrubs	Berberis thunbergii DC.	Japanese Barberry	Berberidaceae	M	TBD									1	
	Elaeagnus umbellata Thunb.	Autumn Olive	Elaeagnaceae	H	TBD						1		1		
	Euonymus alatus (Thunb.) Sieb.	Burningbush	Celastraceae	H	na										
	Ligustrum sinense Lour.	Chinese Privet	Oleaceae	H	TBD	1		1		2	3	1	3		
	Lonicera maackii (Rupr.) Maximowicz	Amur Honeysuckle	Brassicaceae	H	TBD					1	4	1	4	4	
	Rosa multiflora Thunb. ex Murr.	Multiflora Rose	Rosaceae	H	TBD		2	1	2	2	1	1	1		
Herbs/Grasses	Alliaria petiolata (Bieb.) Cavara & Grande	Garlic Mustard	Brassicaceae	H	na										
	Centaurea stoebe L. ssp. micranthos (S.G. Gmelin ex Gu	Spotted Knapweed	Asteraceae	H	na										
	Cirsium vulgare (Savi) Ten.	Bull Thistle	Asteraceae	M	na										
	Commelina communis L.	Asiatic dayflower	Commelinaceae	L	TBD			1		1					
	Hydrilla verticillata (L. f.) Royle	Hydrilla	Hydrocharitaceae	H	na										
	Iris pseudacorus L.	Paleyellow Iris	Iridaceae	H	TBD	1	1		1	1					
	Lespedeza cuneata (Dum.-Cours.) G. Don	Chinese Lespedeza	Fabaceae	H	TBD					1	3	1	3		
	Lysimachia nummularia L.	Moneywort	Primulaceae	H	na										
	Murdannia keisak (Hassk.) Hand.-Maz.	Marsh Dewflower	Commelinaceae	H	na										
	Persicaria longiseta (de Bruyn) Moldenke	Lady's Thumb	Polygonaceae	H	na										
	Phyllostachys aurea Carr. ex A. & C. Rivière	Golden Bamboo	Poaceae	H	na										
	Reynoutria japonica Houtt.	Japanese Knotweed	Polygonaceae	M	na										
	Rumex acetosella L.	Common Sheep Sorrel	Polygonaceae	H	na										
	Rumex crispus L.	Curly Dock	Polygonaceae	M	na										
	Securigera varia (L.) Lassen	Crownvetch	Fabaceae	L	na										
	Stellaria media (L.) Vill.	Common Chickweed	Caryophyllaceae	H	na										
	Urtica dioica L.	Stinging Nettle	Urticaceae	M	TBD					1-	1		1	1	
	Arthraxon hispidus (Thunb.) Makino	Small Carpgrass	Poaceae	M	na										
	Microstegium vimineum (Trin.) A. Camus	Japanese Stiltgrass	Poaceae	H	TBD			2		3+	1		1	2-	
	Sorghum halepense (L.) Pers.	Johnsongrass	Poaceae	H	na										
Vines	Ampelopsis brevipedunculata (Maxim.) Trautv.	Amur Peppervine	Vitaceae	H	na										
	Celastrus orbiculata Thunb. [orthographic variant]	Oriental Bittersweet	Celastraceae	H	TBD	1+	2	2	2	1	4+	1	4+	2	
	Dioscorea polystachya Turczaninow	Cinnamon Vine	Poaceae	H	TBD					1					
	Euonymus fortunei (Turcz.) Hand.-Maz.	Winter Creeper	Celastraceae	M	TBD			1		2-	2+		2+		
	Glechoma hederacea L.	Ground Ivy	Lamiaceae	M	TBD						1		1		
	Hedera helix L.	English Ivy	Araliaceae	M	TBD	1	1	1	1	3-	1	1	1	1	
	Humulus japonicus Sieb. & Zucc.	Japanese Hop	Cannabaceae	M	TBD						1		1		
	Lonicera japonica Thunb.	Japanese Honeysuckle	Caprifoliaceae	H	TBD	2		2		3	3-	1	3-	3	
	Pueraria montana (Lour.) Merr.	Kudzu	Fabaceae	H	na										
	Vinca major L.	Bigleaf Periwinkle	Apocynaceae	L	na										
	Vinca minor L.	Common Periwinkle	Apocynaceae	L	na										
	Wisteria sinensis (Sims) DC.	Chinese Wisteria	Fabaceae	M	TBD					2					
	*Virginia Department of Conservation and Recreation Invasiveness Ranking: H = High Invasiveness; M = Medium Invasiveness; L = Low Invasiveness					Cover Class for Trees:	4	2	4	2	3	2	2	2	4
	**Management Units Assessed Using Modified Braun-Blanquet Cover Scale: 1 = 0-5% (BLUE); 2 = 5-20% (GREEN); 3 = 20-50% (YELLOW); 4 = 50-75% (ORANGE); 5 = 75-100% (RED)					Cover Class for Shrubs:	1	2	1	2	2	4	1	4	4
					Cover Class for Herbs:	1	1	2	1	3+	3	1	3	2	
					Cover Class for Vines:	2	2	2	2	3	5	2	5	3	
					OVERALL COVER CLASS:	4	2	4	2	4	5	2	5	4+	

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***Treatment practices based on Miller 2003 and JRPS Park Superintendent

Treatment Category***	Treatment Description***
A	Hand Removal: Removal of plant material from the soil in environmentally sensitive areas.
B	Goat Herd Management: Rotating herds to remove dense cover and combo treatments.
C	Mow-Treat Method: Application of herbicide-water mixtures to cut/damaged stems or foliage.
D	Cut-Treat Method: Application of herbicide-water mixtures to freshly cut stumps.
E	Basal Spray: Applications of herbicide-oil-penetrant mixture daubed onto lower stems.
F	Stem Injection: Applications of appropriate herbicide directly into tree stems.
G	Prescribed Burning: Drip torching and other methods utilizing experienced professionals.
H	Directed Foliar Spray: Application to leaves with herbicide-water-surfactant mixture.