

Table 16: Pipeline/Trestle Trail Study Area - Baseline Study Data Summary; JRPS Habitat Restoration Project (Phase 1) - Invasive Plant Management Plan

Lead Data Collection Team: James River Association (Ellis, Turner, Banini, Doyle)

Support Data Collection Teams: N/A

Date of Fieldwork: August 25, 2015

Total Time in Field: 12 hours



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

*Virginia Department of Conservation and Recreation Invasiveness Ranking: H = High Invasiveness; M = Medium Invasiveness; L = Low Invasiveness

**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)

***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.