

Table 11: Manchester Climbing Wall Study Area - Baseline Study Data Summary;

JRPS Habitat Restoration Project (Phase 1) - Invasive Plant Management Plan

Lead Data Collection Team: Vanasse Hangen Brustlin, Inc. (C. Senfield, C. Robertson, K. Dramby)

Support Data Collection Team: City of Richmond Dept. of Urban Forestry (L. McCall)

Date of Fieldwork: March 20, 2014

Total Time in Field: 8 hours



Functional Guild	Scientific Name	Common Name	Family	DCR Rank*	Suggested Treatment***	Management Unit**	
						1	2
Trees	Acer platanoides L.	Norway Maple	Aceraceae	M	TBD	1	1
	Ailanthus altissima (P. Mill.) Swingle	Tree of Heaven	Simaroubaceae	H	TBD		2
	Albizia julibrissin Durazz.	Silktree	Fabaceae	M	TBD		2
	Melia azedarach L.	Chinaberrytree	Meliaceae	L	TBD		1
	Morus alba L.	White Mulberry	Moraceae	L	TBD	1	
	Paulownia tomentosa (Thunb.) Sieb. & Zucc. ex Steud.	Princesstree	Scrophulariaceae	M	TBD		2
	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
	Euonymus alatus (Thunb.) Sieb.	Burningbush	Celastraceae	H	na		
	Ligustrum sinense Lour.	Chinese Privet	Oleaceae	H	TBD	2	3
	Lonicera maackii (Rupr.) Maximowicz	Amur Honeysuckle	Brassicaceae	H	TBD		2
	Rosa multiflora Thunb. ex Murr.	Multiflora Rose	Rosaceae	H	TBD	2	2
Herbs/Grasses	Alliaria petiolata (Bieb.) Cavara & Grande	Garlic Mustard	Brassicaceae	H	TBD	1	
	Centaurea stoebe L. ssp. micranthos (S.G. Gmelin ex Gule)	Spotted Knapweed	Asteraceae	H	TBD		1
	Cirsium vulgare (Savi) Ten.	Bull Thistle	Asteraceae	M	na		
	Commelina communis L.	Asiatic dayflower	Commelinaceae	L	TBD	2	1
	Hydrilla verticillata (L. f.) Royle	Hydrilla	Hydrocharitaceae	H	na		
	Iris pseudacorus L.	Paleyellow Iris	Iridaceae	H	na		
	Lespedeza cuneata (Dum.-Cours.) G. Don	Chinese Lespedeza	Fabaceae	H	TBD		2
	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	TBD		1
	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	TBD		1
	Securigera varia (L.) Lassen	Crownvetch	Fabaceae	L	TBD		1
	Stellaria media (L.) Vill.	Common Chickweed	Caryophyllaceae	H	TBD		2
	Urtica dioica L.	Stinging Nettle	Urticaceae	M	na		
	Arthraxon hispidus (Thunb.) Makino	Small Carpgass	Poaceae	M	na		
	Microstegium vimineum (Trin.) A. Camus	Japanese Stiltgrass	Poaceae	H	TBD	2	2
	Sorghum halepense (L.) Pers.	Johnsongrass	Poaceae	H	TBD		2
Vines	Ampelopsis brevipedunculata (Maxim.) Trautv.	Amur Peppervine	Vitaceae	H	na		
	Celastrus orbiculata Thunb. [orthographic variant]	Oriental Bittersweet	Celastraceae	H	TBD		2
	Dioscorea polystachya Turczaninow	Cinnamon Vine	Poaceae	H	na		
	Euonymus fortunei (Turcz.) Hand.-Maz.	Winter Creeper	Celastraceae	M	TBD	2	2
	Glechoma hederacea L.	Ground Ivy	Lamiaceae	M	na		
	Hedera helix L.	English Ivy	Araliaceae	M	TBD	3	4
	Humulus japonicus Sieb. & Zucc.	Japanese Hop	Cannabaceae	M	na		
	Lonicera japonica Thunb.	Japanese Honeysuckle	Caprifoliaceae	H	TBD	2	
	Pueraria montana (Lour.) Merr.	Kudzu	Fabaceae	H	TBD		2+
	Vinca major L.	Bigleaf Periwinkle	Apocynaceae	L	na		
	Vinca minor L.	Common Periwinkle	Apocynaceae	L	na		
	Wisteria sinensis (Sims) DC.	Chinese Wisteria	Fabaceae	M	na		1

*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

Cover Class for Trees:	1	3
Cover Class for Shrubs:	2	3
Cover Class for Herbs:	2	3
Cover Class for Vines:	3	4
OVERALL COVER CLASS:	3	4

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.