



INVASIVE AQUATIC PLANT SCREENING SURVEY DOCUMENTATION FORM (5/1/2016)



Please complete a separate documentation form for each distinct survey: each waterbody surveyed, or each different survey level conducted on a single waterbody. Submit a copy of each completed form by Nov. 15, 2016 to VLMP 24 Maple Hill Rd. Auburn ME 04210.

Section 1: General Information	Survey Map Attached? (circle one) <input checked="" type="radio"/> Y <input type="radio"/> N
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Waterbody Watchic Lake Town Standish County Cumberland State ME

MIDAS # 5040 Date/s 8/27/2017 and 9/9/2017 On-Water Survey Hrs 4 X # surveyors 10 = Total Hrs 40

Sector/s Location 1: North, 2: East, 3: South, 4: West. See map Infestation Surveillance

Lead Surveyor Paul and Nancy McNulty IPP Training: Y N Cert # MC-1849 Plant ID Proficiency Cert: Y N

Phone # 978-337-1246 Email p3mcnulty@gmail.com Regional Affiliation _____

Name of Lake Team Watchic Lake IPP Team For Multi-Year Surveys: YEAR 2 OF 2

Surveyor Type (check one) IPP Volunteer X Agency _____ Research/Ed Inst. _____ Professional _____ Other (explain) _____

Additional Surveyor # 1 Nancy McNulty Cert # MC-1857 IPP Training: Y / N

Additional Surveyor # 2 Martha and Jennifer Drew. Agnes and Rick Wiggin Cert # _____ IPP Training: Y / N

Additional Surveyor # 3 Owen Smith. Patty Guenther and Pat Center. Cathy Watson Cert # _____ IPP Training: Y / N

Check all that apply unless otherwise indicated

Survey Level		Screening Methods		Relative Water Level (check one)
check one	check one	VISUAL METHODS	GRAB SAMPLE METHODS	
<input type="checkbox"/> Limited	<input checked="" type="checkbox"/> By Sector	<input checked="" type="checkbox"/> Random Points	<input type="checkbox"/> Random Points	<input type="checkbox"/> Above
<input type="checkbox"/> Level 1	<input type="checkbox"/> Entire	<input type="checkbox"/> Plot Points	<input checked="" type="checkbox"/> Target Points	<input checked="" type="checkbox"/> Normal High
<input type="checkbox"/> Level 2		<input type="checkbox"/> Transects	<input type="checkbox"/> Plot Points	<input type="checkbox"/> Below
<input type="checkbox"/> Level 3		<input type="checkbox"/> Complete Coverage		Maximum Observed Plant Depth (Circle Units)
Invasive Plant/s Targeted				
<input checked="" type="checkbox"/> Complete List - all 11 invaders on section 2 table below <input type="checkbox"/> Partial List - Use codes from Sec. 2 to list specific targets _____				<u>8 - 10</u> Meters <input checked="" type="radio"/> Feet
Additional Survey Goals			Grab Sample Tool	Water Clarity
<input checked="" type="checkbox"/> Inventory of dominant native plants by sector <input type="checkbox"/> Inventory of dominant native plants by waterbody <input type="checkbox"/> Complete inventory of native plants including rare/endangered species			<input checked="" type="checkbox"/> Long Handled Implement <input type="checkbox"/> Weed Weasel (double rake on line) <input checked="" type="checkbox"/> Hand	<input checked="" type="checkbox"/> Excellent <input type="checkbox"/> Fair <input type="checkbox"/> Good <input type="checkbox"/> Poor
Light Conditions	Surface Conditions	Plant Conditions	Viewing Methods	
<input checked="" type="checkbox"/> Bright (distinct shadows) <input type="checkbox"/> Cloudy Bright <input type="checkbox"/> Overcast	<input type="checkbox"/> Flat (glass-like) <input checked="" type="checkbox"/> Ripples <input type="checkbox"/> Wavelets (no whitecaps) <input type="checkbox"/> Scattered Whitecaps	<input checked="" type="checkbox"/> Pre-Mature <input checked="" type="checkbox"/> Mature <input type="checkbox"/> Early Decay <input type="checkbox"/> Advanced Decay	<input type="checkbox"/> 4" Diameter Tube Scope <input checked="" type="checkbox"/> Facemask or equivalent <input type="checkbox"/> 6" Diameter Tube Scope <input checked="" type="checkbox"/> Polarized Lenses <input checked="" type="checkbox"/> Bucket Scope or equivalent <input checked="" type="checkbox"/> Naked Eye <input type="checkbox"/> Trunk Scope or equivalent <input type="checkbox"/> Other _____	

Section 2: Invasive Aquatic Plant Screening Survey	Suspected IAP observed: Y <input type="radio"/> N <input checked="" type="radio"/> (Continue this section only if YES)
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Suspicious Plant Submitted for ID: Y ___ N ___ To: VLMP ___ DEP ___ Other (explain) _____ Date: _____

Brazilian Elodea (BE) Curly-Leaf Pondweed (CP) Eurasian Watermilfoil (EM) European Frogbit (EF) European Naiad (EN) Fanwort (F)
 Parrot Feather (PF) Yellow Floating Heart (YH) Variable Leaf Watermilfoil (VM) [VMh for hybrid] Water Chestnut (WC) Hydrilla (H)

IAP CODE	Sector / Location	GPS Lat/Long	Buoy Code	NOTES

Section 3: Native Plant Inventory

For inventory: ✓ = presence; D = dominant; U = uncommon

Common Native Plant Checklist **	Sector				Common Native Plant Checklist (con't)	Sector			
	1	2	3	4		1	2	3	4
aquatic moss spp.					quillwort spp. <i>Isoetes spp.</i>				
arrowhead, common <i>Sagittaria latifolia</i>					rush, bayonet <i>Juncus militaris</i>				
arrowhead, grass-leaved <i>Sagittaria graminea</i>					rush, brown-fruited <i>Juncus pelocarpus</i>				
arrowhead, spp. (submersed) <i>Sagittaria spp.</i>			X		spatterdock <i>Nuphar variegata</i>	X		X	
bladderwort, common <i>Utricularia macrorhiza</i>	X		X		spikerush, needle <i>Eleocharis acicularis</i>				
bladderwort, floating <i>Utricularia radiata</i>					spikerush, Robbin's <i>Eleocharis robbinsii</i>	X		X	
bladderwort, humped <i>Utricularia gibba</i>					sponge, freshwater spp.				
bladderwort, large purple <i>Utricularia purpurea</i>					stonewort, spp <i>Nitella spp.</i>				
bladderwort, lesser <i>Utricularia minor</i>					three-way sedge <i>Dulichium arundinaceum</i>				
bladderwort, northern <i>Utricularia intermedia</i>	X		X		water buttercup <i>Ranunculus spp.</i>				
bladderwort, spp. <i>Utricularia spp.</i>					water lily, fragrant <i>Nymphaea odorata</i>				
bur-reed, floating-leaf <i>Sparganium fluctuans</i>					water lobelia <i>Lobelia dortmanna</i>				
bur-reed, narrow floating-leaf <i>Sparganium angustifolium</i>			X		water marigold <i>Bidens beckii</i>				
bur-reed, spp. (emergent) <i>Sparganium spp.</i>					water starwort, spp. <i>Callitriche spp.</i>				
cattail, common <i>Typha latifolia</i>					water-milfoil, alternate-flowered <i>Myriophyllum alterniflorum</i>				
cattail, spp. <i>Typha spp.</i>					water-milfoil, dwarf <i>Myriophyllum tenellum</i>				
coontail <i>Ceratophyllum demersum</i>	X				water-milfoil, Farwell's <i>Myriophyllum farwellii</i>				
duckweed, common <i>Lemna minor</i>	X		X		water-milfoil, low <i>Myriophyllum humile</i>				
duckweed, giant <i>Spirodela polyrhiza</i>					water-milfoil, northern <i>Myriophyllum sibiricum</i>				
golden pert <i>Gratiola aurea</i>					water-milfoil, whorled <i>Myriophyllum verticillatum</i>				
little floating heart <i>Nymphoides cordata</i>					water-milfoil, spp. <i>Myriophyllum spp.</i>				
metaphyton (colonial algae "clouds")					watershield <i>Brasenia schreberi</i>				
muskgrass <i>Chara spp.</i>					waterweed, common <i>Elodea canadensis</i>				
naiad, slender <i>Najas flexilis*</i>					waterweed, slender (Nuttall's) <i>Elodea nuttallii</i>				
naiad, thread-like <i>Najas gracillima</i>					waterwort <i>Elatine minima</i>	X	X	X	
pickerel weed <i>Pontederia cordata</i>					wild celery (eel grass) <i>Vallisneria americana</i>				
pipewort <i>Eriocaulon aquaticum</i>	X	X	X	X					
pondweed, Berchtold's slender <i>Potamogeton berchtoldii</i>					Alpine Pondweed, <i>Potamogeton alpinus</i>	X			
pondweed, budding slender <i>Potamogeton gemmiparus</i>									
pondweed, clasping-leaf <i>Potamogeton perfoliatus</i>					Sago Pondweed, <i>Stuckenia pectinate</i>	X	X	X	
pondweed, fern <i>Potamogeton robbinsii</i>									
pondweed, flat-stem <i>Potamogeton zosteriformis</i>					Watercress, true <i>Nasturtium officinale</i>	X		X	
pondweed, floating-leaf <i>Potamogeton natans</i>			X						
pondweed, large-leaf <i>Potamogeton amplifolius</i>									
pondweed, Oakes' <i>Potamogeton oakesianus</i>									
pondweed, ribbon-leaf <i>Potamogeton epihydrus</i>									
pondweed, slender <i>Potamogeton pusillus</i>	X	X	X	X					
pondweed, small <i>Potamogeton pusilloid spp.</i>									
pondweed, spiral-fruited <i>Potamogeton spirillus</i>									
pondweed, spp. <i>Potamogeton spp.</i>									
pondweed, variable <i>Potamogeton gramineus</i>				X					

NOTES:

**Najas flexilis* explanation and **this form listing plants by scientific name is available at <http://www.mainevlmp.org/volunteer-info/invasive-plant-monitors/data-forms/>

Section 4: Observed Species of Concern

SPECIES	Sector / Location	GPS Waypoint	Buoy Code	NOTES
Chinese Mystery Snails	Various			Have been observed in lake for many years. Very few this year.

EXAMPLE SPECIES OF CONCERN: purple loosestrife, Chinese mystery snail, gleotrichia, didymo