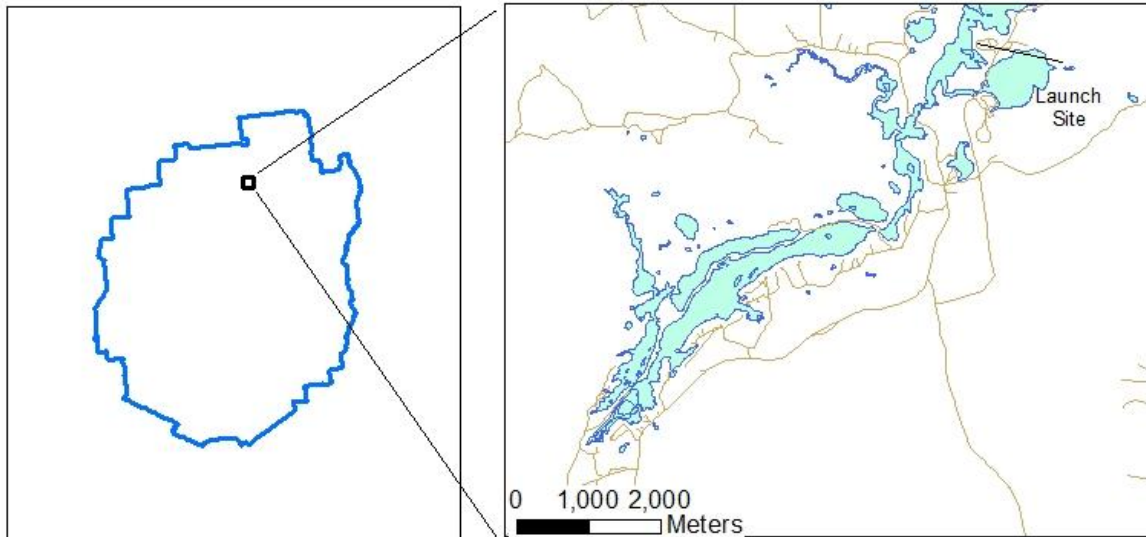


## Rainbow Lake & Clear Pond (Rainbow Lake) Aquatic Plant Survey 2012

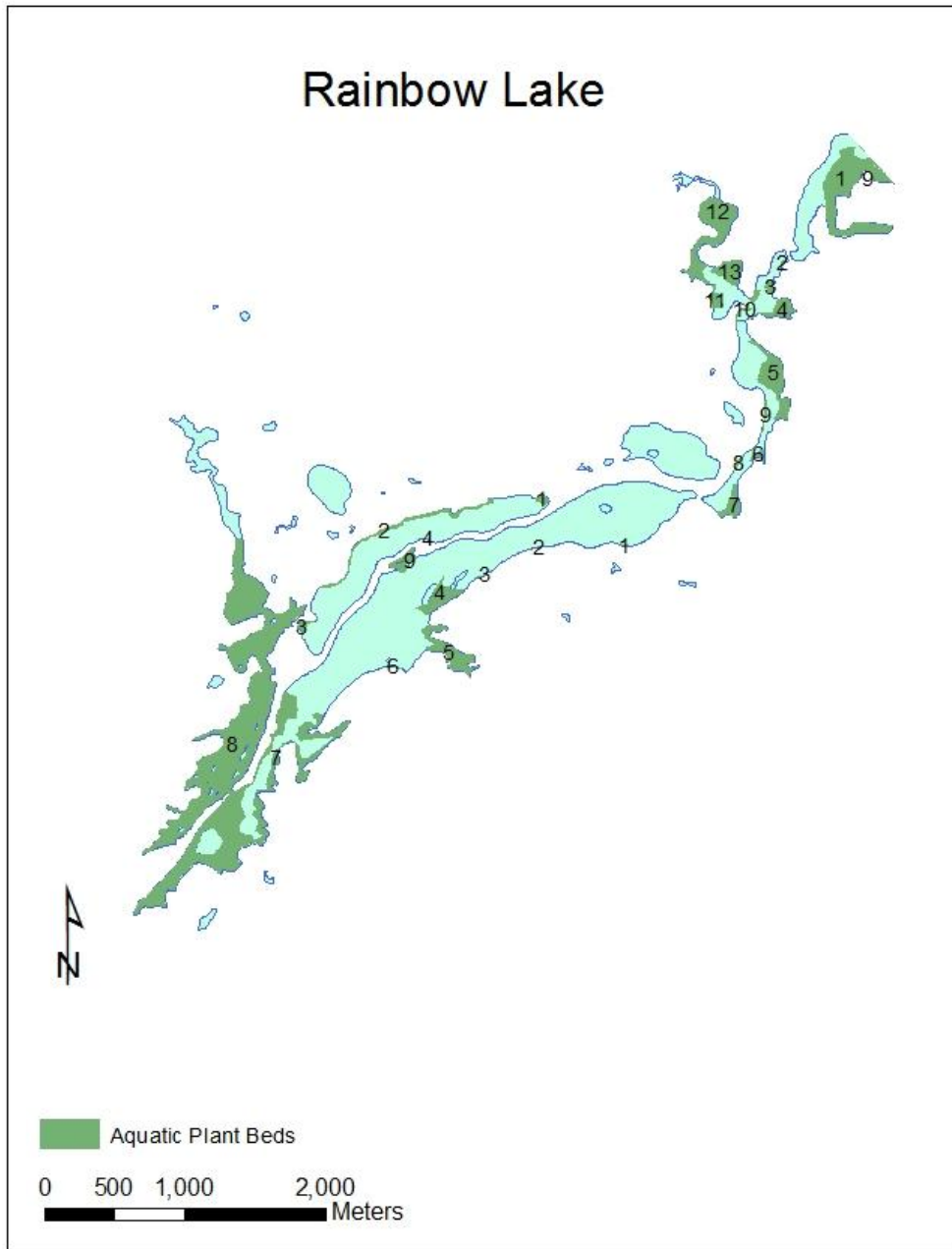


Map 86: Location of Rainbow Lake & Clear Pond (Rainbow Lake).

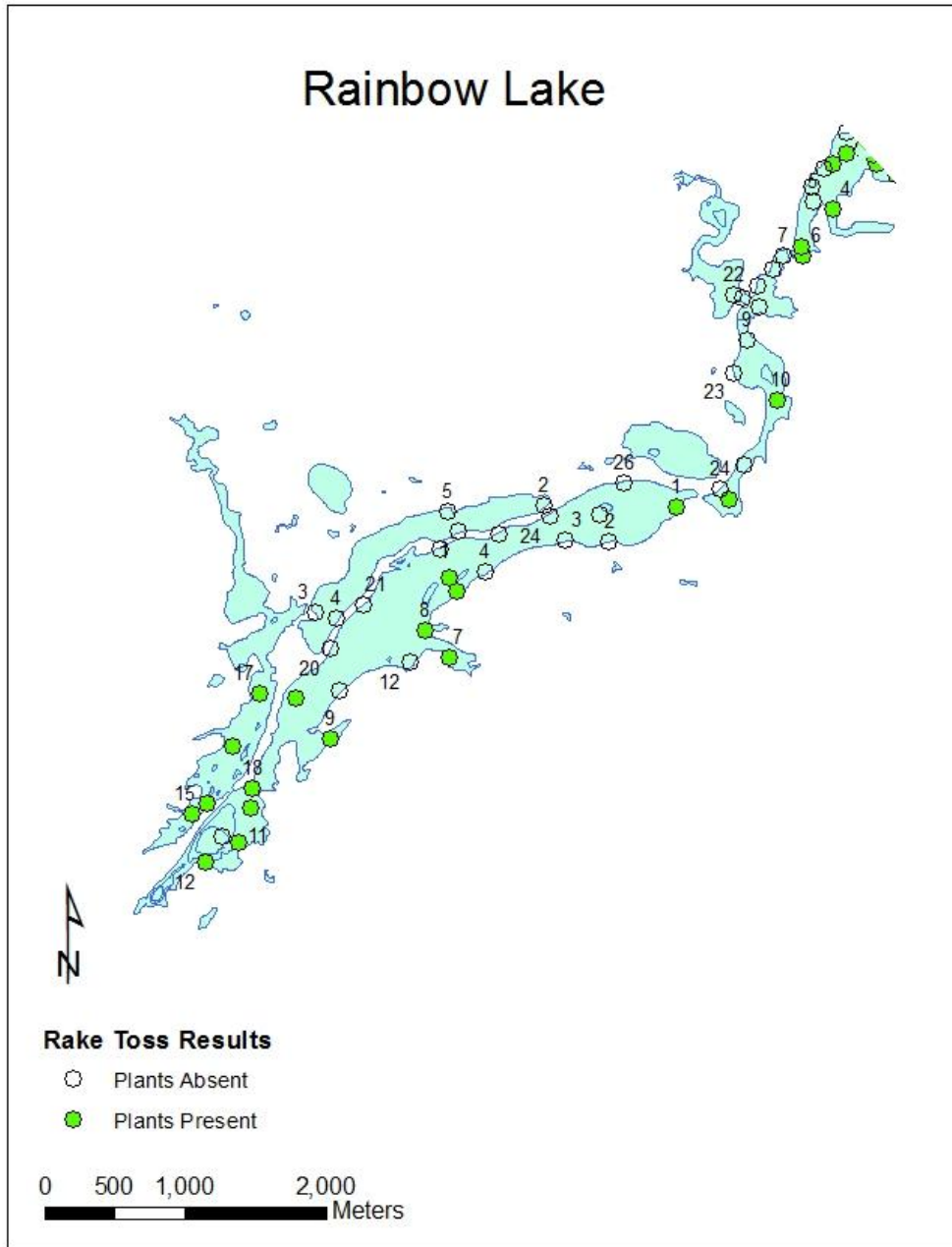
Rainbow Lake is located in the town of Brighton in Franklin County, New York (Map 86). The 588 acre lake was accessed by the Rainbow Lake Narrows from the Camp Road off from the Kushaqua-Mud Pond Road in Onchiota, New York.

An aquatic plant survey of Rainbow Lake was conducted on 23-August-2012. No invasive species were detected during this survey. Aquatic plant coverage in Rainbow Lake was relatively high, comprised of 28 aquatic plant beds that covered 317 acres or 53.9% of the surface area of the lake (Map 87). Nineteen different aquatic species were identified during this survey. Common species in the Lake included Water naiad (*Najas sp.*), Spatterdock (*Nuphar variegata*), and Watershield (*Brasenia schreberi*). Purple bladderwort (*Utricularia purpurea*), Common bladderwort (*U. vulgaris*), Whorl-leaf watermilfoil (*Myriophyllum verticillatum*), Shortspike watermilfoil (*M. sibiricum*), and Coontail (*Ceratophyllum sp.*) were species found in the lake that could be easily confused with invasive species (Table 59).

Of the 55 rake tosses spaced throughout the littoral zone of Rainbow Lake (Map 85), 23 had acquired plants upon recovery (41.8%). Brittlewort (*Nitella sp.*) was the only species recovered by the rake tosses that was not detected during the surface survey (Table 60).



Map 87: Location of the aquatic plant beds detected in Rainbow Lake and Clear Pond (Rainbow Lake) during the surface survey performed on 22 August, 2012. Data for Plant Beds can be found on Table 59.



Map 85: Rake toss locations on Rainbow Lake and Clear Pond (Rainbow Lake), 22 August, 2012. Open circles represent locations where no plants were detected, closed circles represent locations where plants were encountered on the rake.

Data for Rake Tosses can be found on Table 60.

Table 59: Percent cover of aquatic plant species detected at each plant bed in Rainbow Lake. Refer to Map 87 for bed locations. A = Abundant (<50% cover), C = Common (25-50%), P = Present (15-25%), O = Occasional (5-15%), and R = Rare (<5%).

Rainbow Lake			Plant Bed Numbers								
			1	2	3	4	5	6	7	8	9
<i>Scientific Name</i>	Common Name	AREA (M <sup>2</sup> )	1012	179	1085	30749	46138	1297	76488	706561	15187
<i>Brasenia schreberi</i>	Water shield		R	O	O	O	C	O	C	P	O
<i>Ceratophyllum sp.</i>	Coontail		-	-	-	-	R	-	-	R	-
<i>Eleocharis sp.</i>	Hairgrass		-	-	-	R	P	R	-	R	-
<i>Elodea canadensis</i>	Canadian waterweed		-	-	-	-	O	-	R	O	-
<i>Elodea nuttalia</i>	Western waterweed		-	-	-	-	P	-	R	O	R
<i>Myriophyllum sibiricum</i>	Shortspike watermilfoil		-	-	-	-	-	-	-	R	-
<i>Myriophyllum verticillatum</i>	Whorl-leaf watermilfoil		-	-	-	R	-	-	-	R	-
<i>Najas sp.</i>	Water naiad		R	-	O	-	O	-	O	C	P
<i>Nuphar variegata</i>	Spatterdock		R	-	R	R	-	-	R	O	O
<i>Nymphaea odorata</i>	White waterlily		R	-	-	-	O	R	-	R	R
<i>Potamogeton amplifolius</i>	Large-leaf pondweed		O	-	R	O	O	O	-	O	O
<i>Potamogeton epihydrus</i>	Ribbon-leaf pondweed		O	O	O	R	-	O	O	O	O
<i>Potamogeton robbinsii</i>	Robbins pondweed		-	-	-	-	O	-	R	P	P
<i>Potamogeton zosterformis</i>	Flatstem pondweed		-	-	-	R	-	-	-	-	-
<i>Sparganium sp.</i>	Bur-reed		R	O	-	R	R	-	O	R	-
<i>Utricularia purpurea</i>	Purple bladderwort		-	-	-	R	P	-	R	R	R
<i>Utricularia vulgaris</i>	Common bladderwort		-	-	-	-	P	-	R	O	-
<i>Vallisneria americana</i>	Eel-grass		-	-	-	-	-	-	-	R	-

Rainbow Lake Narrows			Plant Bed Numbers													
			1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>Scientific Name</b>	<b>Common Name</b>	<b>AREA (M<sup>2</sup>)</b>	126082	840	4088	19747	54141	5028	17383	2525	4475	4251	9681	83337	24686	4054
<i>Brasenia schreberi</i>	Water shield		P	O	O	R	O	P	O	R	O	-	O	R	O	R
<i>Ceratophyllum sp.</i>	Coontail		-	-	-	-	-	-	-	-	-	-	-	-	R	-
<i>Eleocharis sp.</i>	Hairgrass		-	-	-	-	-	-	-	-	-	-	-	-	R	-
<i>Elodea canadensis</i>	Canadian waterweed		-	-	-	O	-	-	O	-	O	-	R	O	O	-
<i>Elodea nuttalia</i>	Western waterweed		-	-	-	-	O	-	-	R	R	-	O	O	O	-
<i>Myriophyllum sibiricum</i>	Shortspike watermilfoil		-	-	-	R	O	R	-	-	-	-	-	-	-	-
<i>Myriophyllum verticillatum</i>	Whorl-leaf watermilfoil		-	-	O	-	-	-	-	-	-	-	R	-	-	-
<i>Najas sp.</i>	Water naiad		A	C	O	P	P	P	P	O	P	R	P	P	A	O
<i>Nuphar variegata</i>	Spatterdock		P	O	O	O	R	O	R	O	O	R	O	O	O	R
<i>Nymphaea odorata</i>	White waterlily		R	-	R	R	O	-	R	R	R	R	-	-	R	-
<i>Potamogeton amplifolius</i>	Large-leaf pondweed		-	O	O	O	R	O	O	R	-	R	-	R	R	O
<i>Potamogeton epihydrus</i>	Ribbon-leaf pondweed		R	-	-	O	O	-	O	R	R	-	R	R	R	O
<i>Potamogeton robbinsii</i>	Robbins pondweed		R	-	-	-	-	-	-	-	-	-	-	R	R	-
<i>Potamogeton zosterformis</i>	Flatstem pondweed		-	-	-	-	R	-	-	-	-	-	-	-	R	-
<i>Sparganium sp.</i>	Bur-reed		-	R	O	O	O	O	R	R	-	R	-	-	R	R
<i>Utricularia purpurea</i>	Purple bladderwort		O	-	O	O	-	R	-	-	-	-	-	R	R	-
<i>Utricularia vulgaris</i>	Common bladderwort		R	-	R	R	-	-	-	-	-	-	-	R	R	R

Clear Pond (Rainbow Lake)			Plant Bed Numbers			
			1	2	3	4
<b>Scientific Name</b>	<b>Common Name</b>	<b>AREA (M<sup>2</sup>)</b>	4276	31905	7131	478
<i>Brasenia schreberi</i>	Water shield		3	3	2	2
<i>Najas sp.</i>	Water naiad		-	1	-	-
<i>Nuphar variegata</i>	Spatterdock		1	-	1	-
<i>Potamogeton amplifolius</i>	Large-leaf pondweed		2	2	-	-
<i>Potamogeton epihydrus</i>	Ribbon-leaf pondweed		-	2	-	-
<i>Potamogeton robbinsii</i>	Robbins pondweed		-	1	-	-
<i>Sparganium sp.</i>	Bur-reed		-	1	-	-
<i>Vallisneria americana</i>	Eel-grass		-	2	-	-

Table 60: Species present on the rake at each of the rake toss locations and abundance. Refer to Map 88 for Rake locations.

Rainbow Lake		Rake Toss Numbers															
<i>Scientific Name</i>	Common Name	1	5	6	7	8	9	10	11	12	14	15	16	17	18	19	
<i>Ceratophyllum sp.</i>	Coontail	-	-	-	-	-	-	-	-	-	-	-	R	O	-	-	
<i>Elodea canadensis</i>	Canadian waterweed	-	-	-	C	-	-	A	-	-	-	O	-	-	-	-	
<i>Elodea nuttalia</i>	Western waterweed	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	
<i>Myriophyllum sibiricum</i>	Shortspike watermilfoil	-	-	-	C	-	-	-	-	R	-	-	-	O	-	-	
<i>Myriophyllum verticillatum</i>	Whorl-leaf watermilfoil	-	-	-	P	-	-	-	-	-	-	-	-	-	-	-	
<i>Najas sp.</i>	Water naiad	R	-	C	-	O	A	-	-	C	-	O	-	-	R	P	
<i>Nitella sp.</i>	Brittlewort	-	-	-	-	-	-	-	-	-	-	-	P	A	-	-	
<i>Potamogeton amplifolius</i>	Large-leaf pondweed	-	-	-	-	-	-	-	-	-	-	R	-	-	-	-	
<i>Potamogeton robbinsii</i>	Robbins pondweed	-	O	-	-	-	-	O	P	O	-	O	O	P	R	-	
<i>Sparganium sp.</i>	Bur-reed	-	-	-	-	-	-	-	-	R	-	-	-	-	-	-	
<i>Utricularia purpurea</i>	Purple bladderwort	-	O	R	-	R	O	-	-	-	R	O	R	O	-	O	
<i>Utricularia vulgaris</i>	Common bladderwort	-	-	-	-	-	-	R	-	-	-	-	-	O	R	-	

Rainbow Lake Narrows		Rake Toss Numbers								
<i>Scientific Name</i>	Common Name	1	2	3	4	6	10	14	18	
<i>Elodea canadensis</i>	Canadian waterweed	-	-	-	-	-	-	P	-	
<i>Elodea nuttalia</i>	Western waterweed	-	-	-	-	R	R	-	-	
<i>Najas sp.</i>	Water naiad	A	A	R	A	-	R	A	O	
<i>Potamogeton amplifolius</i>	Large-leaf pondweed	-	-	-	-	-	-	R	-	
<i>Vallisneria americana</i>	Eel-grass	-	-	-	-	-	-	-	R	

No rakes returned with plant materials during the aquatic plant survey of Clear Pond (Rainbow Lake)  
22-August-2012