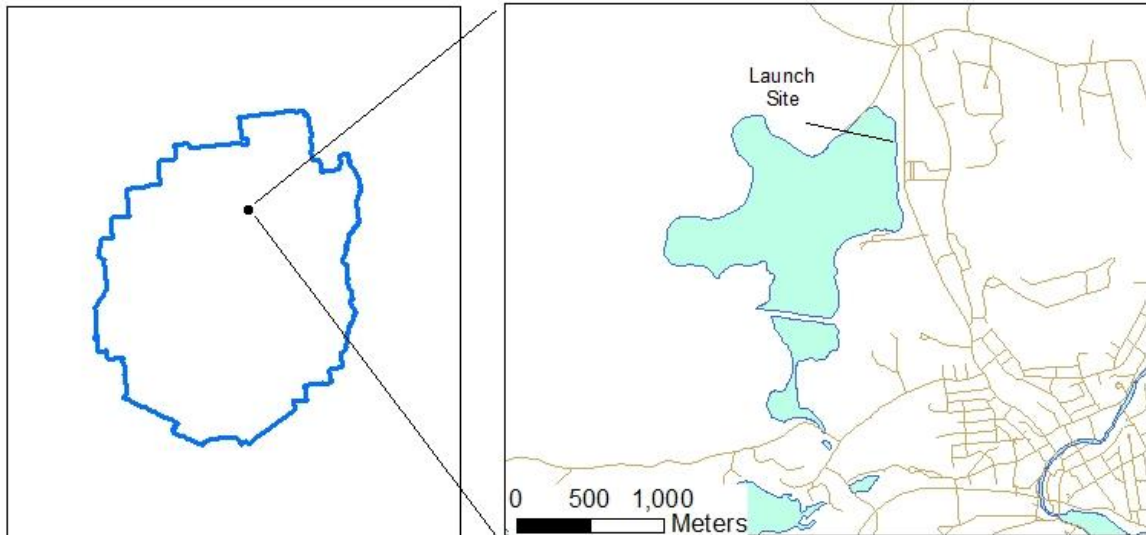


Colby Lake & Little Colby Aquatic Plant Survey 2012



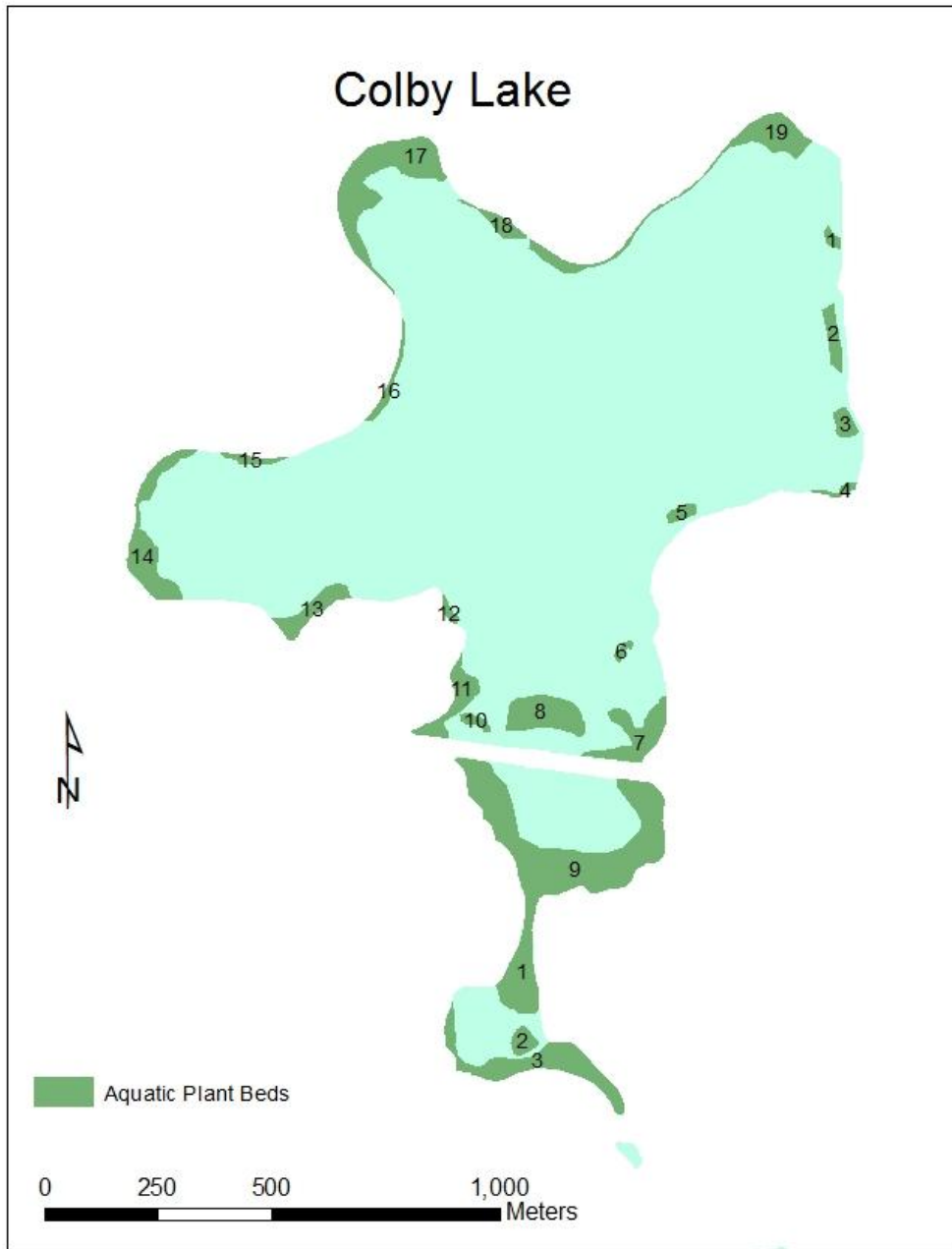
Map 27: Location of Colby Lake

Colby Lake is located in the town of Harrietstown in Franklin County, New York (Map 27). The 286 acre lake was accessed by hardtop launch off from State Route 86 just west of the Village of Saranac Lake. Little Colby is the smaller section of the lake located to the south of the narrows past the railroad tracks.

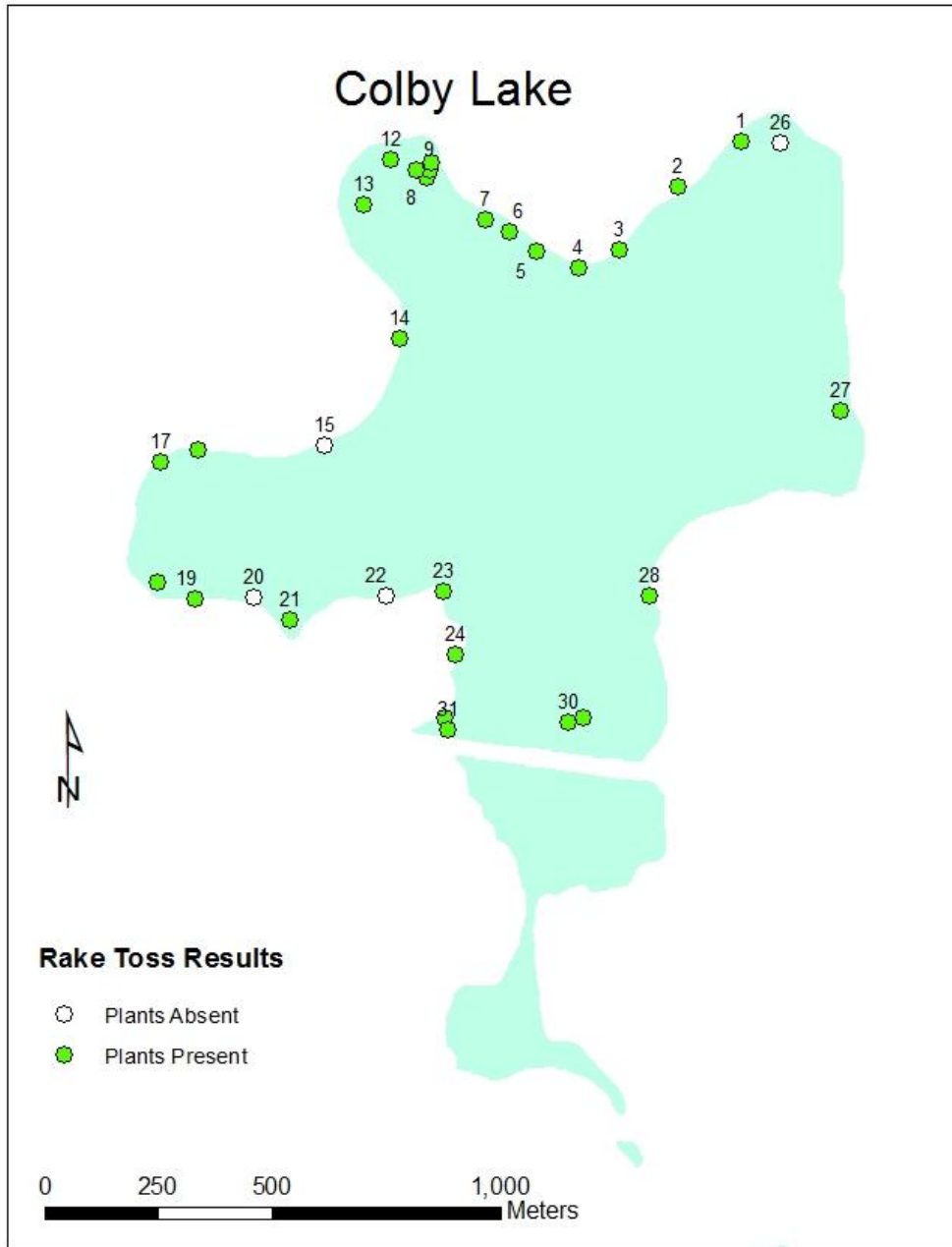
An aquatic plant survey of Colby Lake was conducted on 18-June-2012. Eurasian watermilfoil (*Myriophyllum spicatum*) was detected during the survey (Map 31). Aquatic plant coverage in Colby Lake was relatively high, comprised of 22 beds that collectively covered 47.8 acres or 16.7% of the surface area of the lake (Map 28). Twenty-one different aquatic species were identified during this survey. The most common species were Claspingleaf pondweed (*Potamogeton perfoliatus*) White-stem pondweed (*P. prealonus*), Canada waterweed (*Elodea canadensis*) and Eurasian watermilfoil. Common bladderwort (*Utricularia vulgaris*), Purple bladderwort (*U. purpurea*), and a fairly rare species, Water marigold (*Megalodonta beckii*) could all be easily confused with invasive species (Table 18).

An additional survey to specifically locate beds of Eurasian watermilfoil was conducted on 09-August-2012, specific data is separate (Maps 30 & 31 and Tables 20 & 21). Beds identified in this survey only accounted for Eurasian watermilfoil and included isolated plants as individual beds. One-hundred-twenty-one beds were identified during this survey, though 3 overlap previous beds to show particularly dense areas. These beds collectively covered 11.4 acres, 4% of the total surface area of the lake and 24% of the total plant coverage in the lake (Table 20).

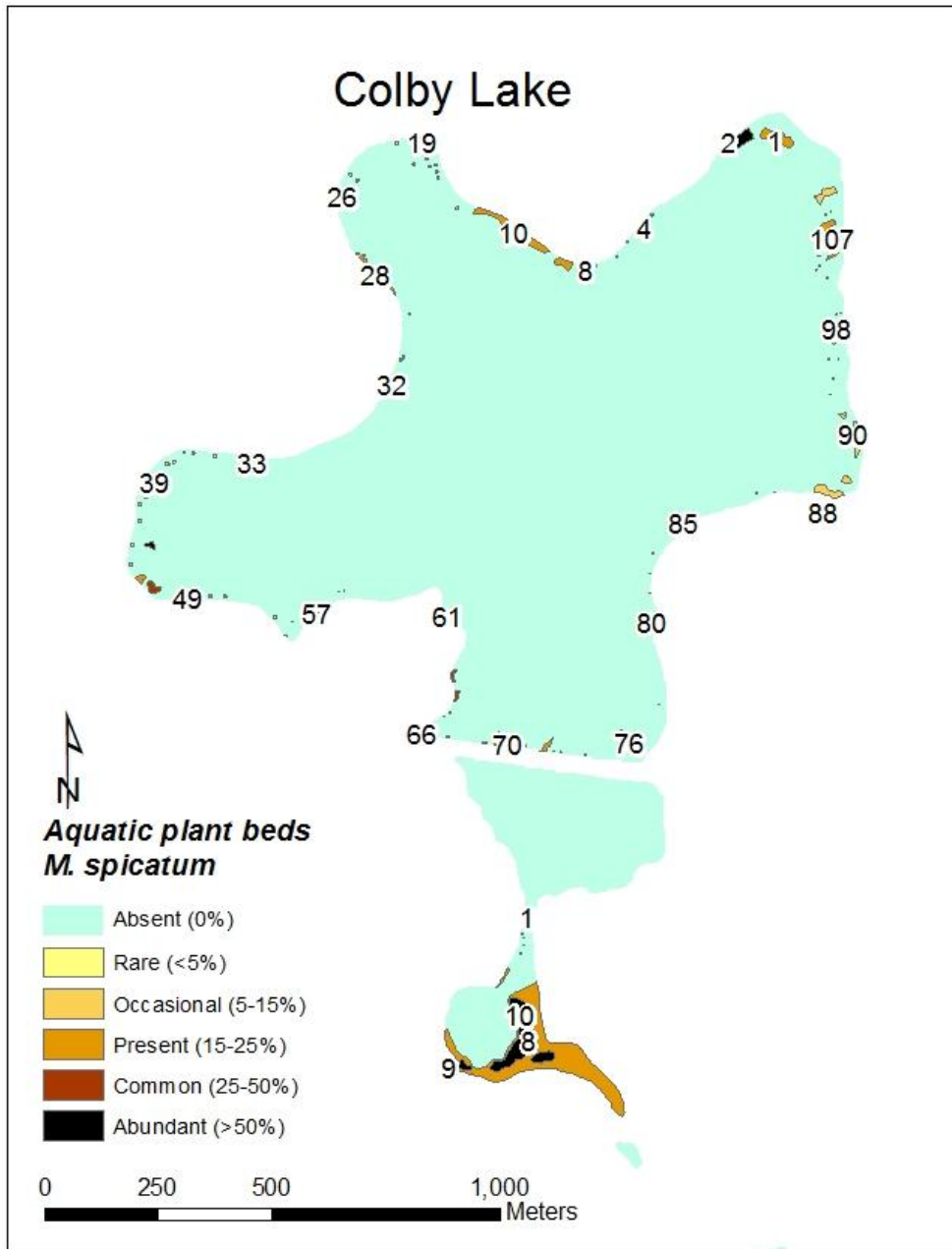
In the first survey 31 rake were tossed throughout the littoral zone of the lake (Map 29), 27 had acquired plants upon their recovery (87.1%). Western waterweed (*Elodea nuttallii*) was the only species brought up on the rakes that was not detected in the surface survey (Table 19). The Rapid Response survey included 42 rake tosses, only two of which recovered and Eurasian watermilfoil (4.8%) (Table 21).



Map 28: Location of the aquatic plant beds detected in Colby Lake during the surface survey performed on 13 June, 2012.
Data for Plant Beds can be found on Tables 23-24.

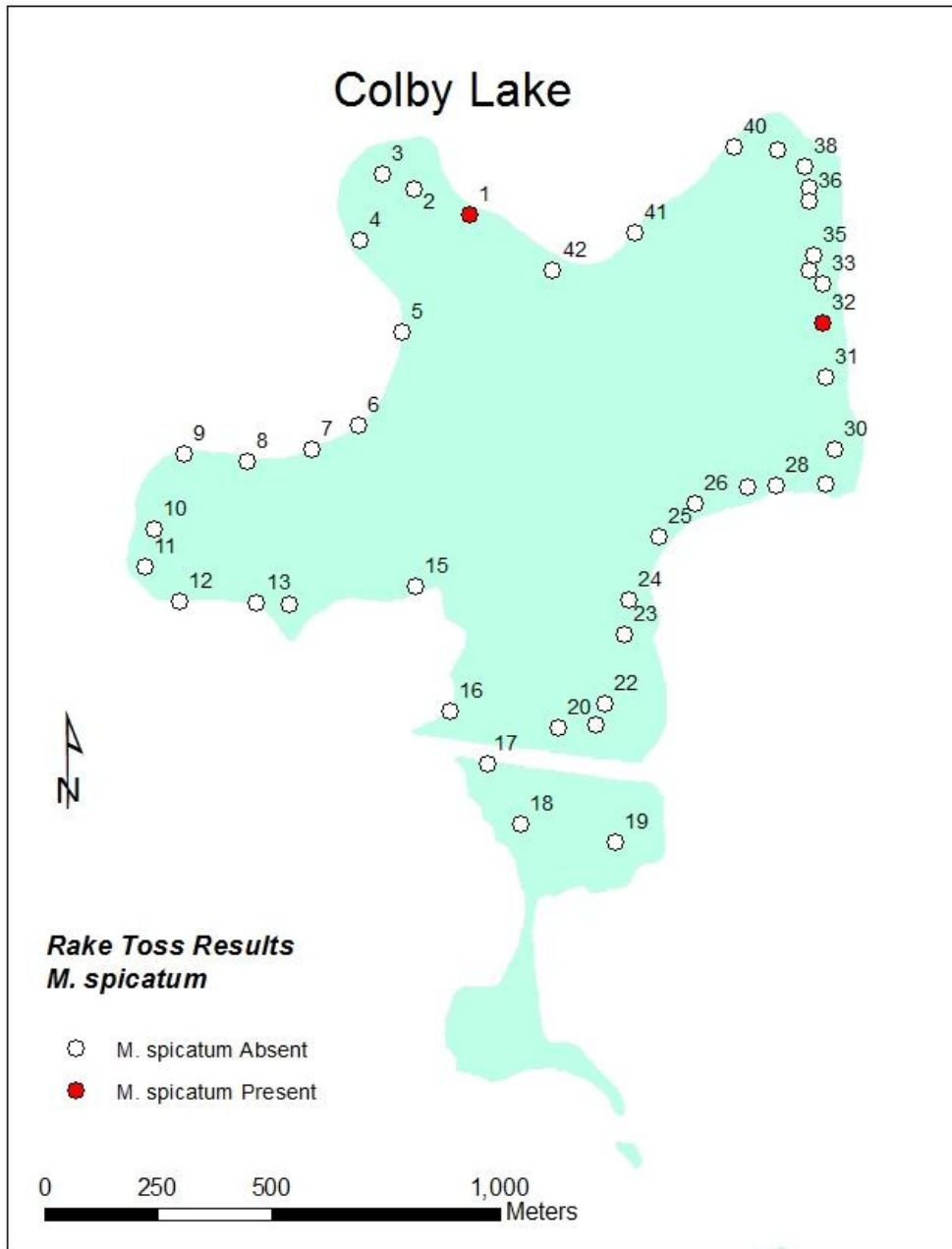


Map 29. Rake toss locations on Colby Lake, 13 Jun, 2012. Open Circles represent where no plants were detected. Closed circles represent locations where plants were encountered on the rake.
 Data for Rake Tosses can be found on Table 25.



Map 30: Location of the *Myriophyllum spicatum* beds detected in Colby Lake during the surface survey performed on 09 Aug, 2012.

Data for *M. spicatum* beds can be found on Tables 26-27.



Map 31: Rake toss locations on Colby Lake, 09 Aug, 2012. Open Circles represent where no *M. spicatum* was detected. Closed circles represent locations where *M. spicatum* was encountered on the rake. Data for *M. spicatum* Rake Tosses can be found on Table 28.

Table 18: Percent cover of aquatic plant species detected at each plant bed in Colby Lake. Refer to Map 28 for bed locations. A = Abundant (>50% cover), C = Common (25-50%), P = Present (15-25%), O = Occasional (5-15%), and R = Rare (<5%).

Colby Lake			Plant Bed Number																		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Scientific Name	Common Name	AREA (M ²)	1119	3693	2534	1285	1784	922	10588	11607	49735	1468	7132	963	6551	14451	1837	2643	23506	3065	15203
<i>Brasenia schreberi</i>	Water shield		-	-	-	C	-	-	A	-	P	-	-	-	R	R	R	-	-	-	-
<i>Ceratophyllum sp.</i>	Coontail		-	-	-	-	-	-	-	-	-	-	-	-	R	R	-	-	R	P	-
<i>Eleocharis sp.</i>	Hairgrass		-	-	-	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	R
<i>Elodea canadensis</i>	Canadian waterweed		-	-	P	C	R	-	-	O	-	-	P	R	R	O	-	R	O	P	C
<i>Megalodonta beckii</i>	Water Marigold		-	-	-	-	-	-	-	-	R	-	-	-	-	-	-	-	-	-	-
<i>Myriophyllum spicatum</i>	Eurasian watermilfoil		A	A	A	P	O	-	-	A	R	O	R	O	R	O	-	R	R	-	R
<i>Nitella sp.</i>	Brittlewort		-	-	-	-	-	-	-	-	-	-	O	-	O	P	-	R	O	R	-
<i>Nuphar variegata</i>	Spatterdock		-	-	-	-	-	-	P	-	O	-	O	-	R	R	-	-	O	-	-
<i>Nymphaea odorata</i>	White waterlily		-	-	-	O	-	-	C	-	A	P	R	R	R	R	R	O	O	-	-
<i>Potamogeton amplifolius</i>	Large-leaf pondweed		R	P	R	-	A	-	-	-	-	-	-	-	-	-	R	O	-	-	R
<i>Potamogeton epihydrus</i>	Ribbon-leaf pondweed		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P
<i>Potamogeton gramineus</i>	Variable-leaf pondweed		-	-	O	O	-	-	-	-	-	-	O	-	-	P	-	-	P	O	P
<i>Potamogeton perfoliatus</i>	Clasping-leaf pondweed		O	O	O	-	-	-	-	-	-	R	O	-	R	P	-	O	O	-	R
<i>Potamogeton prealongus</i>	White-stem pondweed		O	P	-	-	O	A	-	O	-	-	O	-	-	-	-	O	O	P	C
<i>Potamogeton robbinsii</i>	Robbins pondweed		-	-	-	-	-	-	-	-	R	-	-	-	-	R	-	-	A	-	-
<i>Sagittaria graminea</i>	Grassy arrowhead		-	-	-	-	-	-	-	-	-	-	C	R	R	O	R	O	O	-	P
<i>Sparganium sp.</i>	Bur-reed		-	-	-	-	-	-	-	-	R	-	-	-	-	R	-	-	-	-	R
<i>Utricularia purpurea</i>	Purple bladderwort		-	-	-	-	-	-	-	-	R	-	-	-	-	-	-	-	-	-	-
<i>Utricularia vulgaris</i>	Common bladderwort		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O

Little Colby			Plant Bed Number		
			1	2	3
Scientific Name	Common Name	AREA (M ²)	12623	2673	17912
<i>Brasenia schreberi</i>	Water shield		-	-	P
<i>Myriophyllum spicatum</i>	Eurasian watermilfoil		P	A	C
<i>Nuphar variegata</i>	Spatterdock		C	R	P
<i>Nymphaea odorata</i>	White waterlily		A	-	C
<i>Potamogeton amplifolius</i>	Large-leaf pondweed		R	-	-
<i>Potamogeton natans</i>	Floating pondweed		-	-	R
<i>Potamogeton prealongus</i>	White-stem pondweed		O	-	-
<i>Potamogeton robbinsii</i>	Robbins pondweed		R	-	R

Table 19: Species present on the rake at each of the rake toss locations and abundance. Refer to Map 29 or Rake locations.

Colby Lake	Rake Toss Number																														
Scientific Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	16	17	18	19	21	23	24	25	27	28	29	30	31				
<i>Brasenia schreberi</i>	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
<i>Ceratophyllum sp.</i>	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-			
<i>Eleocharis sp.</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P	-	-			
<i>Elodea canadensis</i>	A	-	-	-	-	C	-	-	-	-	-	-	-	-	-	R	R	-	-	R	-	-	P	-	-	P	-	-			
<i>Elodea nuttalia</i>	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
<i>Myriophyllum spicatum</i>	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	R	-	O	-	-	R	R			
<i>Nitella sp.</i>	-	O	-	-	O	R	-	R	-	R	-	A	O	O	R	-	P	R	C	-	-	C	R	R	P	-	O				
<i>Nuphar variegata</i>	-	-	R	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
<i>Nymphaea odorata</i>	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	R	-	-	-	-	-	-	-			
<i>Potamogeton gramineus</i>	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-				
<i>Potamogeton perfoliatus</i>	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	R	-	-	R	-	-	-			
<i>Potamogeton prealonus</i>	-	-	-	P	-	-	O	-	-	-	-	-	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-			
<i>Potamogeton robbinsii</i>	-	-	-	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-			
<i>Sagittaria graminea</i>	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	R	-	-	R	R	-	-	-	-	-	-	-			

No rakes returned with plant material during the aquatic plant survey of Little Colby
09-August-2012

Table 20. Percent Cover of *Myriophyllum spicatum* detected in Colby Lake. Refer to Map 30 for *M. heterophyllum* locations. A = Abundant (>50% cover), C - Common (25-50%), P = Present (15-25%), O = Occasional (5-15%), and R = Rare (<5%).

Colby Lake			Plant Bed Number																													
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Scientific Name	Common Name	AREA (M²)	1554	1339	15	15	13	15	15	19	582	2517	30	24	27	20	27	31	28	26	36	17	35	37	39	36	18	202	23	770	27	23
<i>Myriophyllum spicatum</i>	Eurasian Watermilfoil		P	A	P	R	R	R	P	P	P	P	O	R	R	R	R	R	R	R	O	C	R	R	R	R	R	P	R	P	O	R
			31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Scientific Name	Common Name	AREA (M²)	29	272	18	25	32	14	30	49	321	37	41	45	36	36	227	41	244	468	713	36	36	55	1	1	1	3	253	3	3	3
<i>Myriophyllum spicatum</i>	Eurasian Watermilfoil		R	P	R	R	R	R	R	R	C	O	O	O	R	R	A	O	P	C	C	P	O	R	P	P	P	P	P	P	P	
			61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Scientific Name	Common Name	AREA (M²)	254	153	183	4	3	554	6	7	34	1224	249	6	4	6	6	7	6	6	7	15	6	3	4	3	11	5	5	912	253	1264
<i>Myriophyllum spicatum</i>	Eurasian Watermilfoil		P	C	C	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	O	O	O	
			91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110										
Scientific Name	Common Name	AREA (M²)	121	4	4	4	4	4	112	985	4	4	4	5	5	4	9	11	1238	3	3	683										
<i>Myriophyllum spicatum</i>	Eurasian Watermilfoil		O	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	O										

Little Colby			Plant Bed Number										
			1	2	3	4	5	6	7	8	9	10	11
Scientific Name	Common Name	AREA (M²)	150	3	6	3	3	3	196	26716	381	5236	984
<i>Myriophyllum spicatum</i>	Eurasian Watermilfoil		P	P	P	P	P	P	P	P	A	A	A

Table 21. *Myriophyllum spicatum* present on the rake at each of the rake toss locations and abundance. Refer to Map 32 for *M. spicatum* Rake locations.

Colby Lake		Rake Toss Number	
Scientific Name	Common Name		
<i>Myriophyllum spicatum</i>	Eurasian Watermilfoil	O	R

No rakes returned with *M. spicatum* during the rapid response survey of Little Colby
09-August-2012