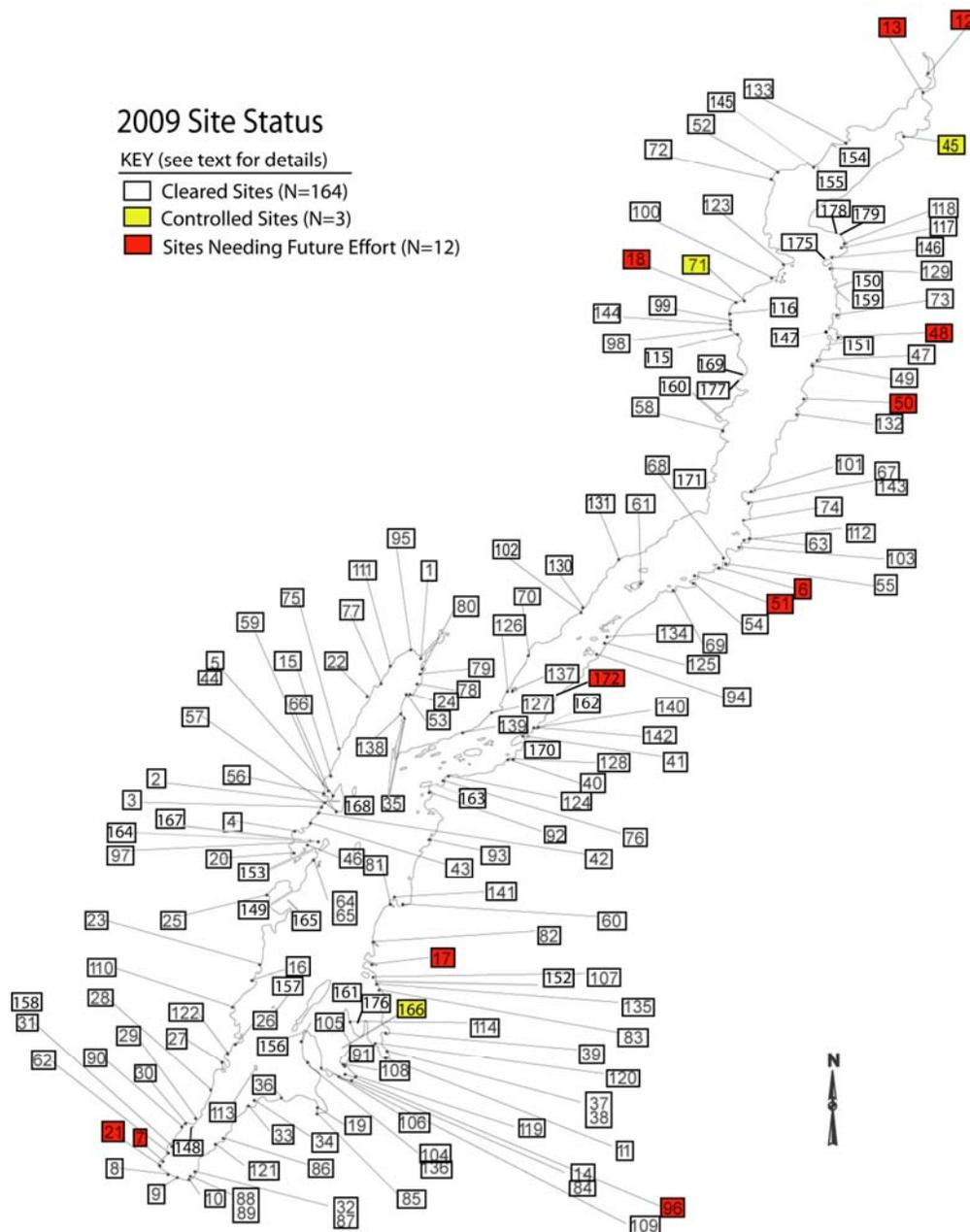




# Lake George Integrated Aquatic Plant Management Program

Lake George Park Commission

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December 2009



## Table of Contents

Acknowledgements .....	i
Executive Summary.....	ii
Introduction .....	1
History of Aquatic Management Program in Lake George .....	1
Process and Participants .....	1
Table 1. 2009 Eurasian Watermilfoil Management Activities .....	2
Figure 1. Map of all known Eurasian Watermilfoil Sites in Lake George .....	7
Aquatic Plant Management .....	8
Table 2. 2009 Data; 2010 Projected Management Plans.....	9
Table 3. Milfoil Sites by Year.....	13
Hand Harvesting .....	13
Table 4. Distribution of Effort by Year .....	14
Figure 2. Distribution of 2009 Effort .....	14
Benthic Barrier .....	15
Table 5. Distribution of Effort by Year .....	15
Figure 3. Distribution of 2009 Effort .....	16
General Conclusions .....	16
References .....	17
Appendix A. Site Histories	
Appendix B. 2009 Major Benthic Barrier Installation Sites	
Appendix C. Site GPS Waypoint Data (WGS84)	
Appendix D. Inventory of In-Lake Barrier Panels 1985-2009	



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## Executive Summary

Eurasian watermilfoil (*Myriophyllum spicatum* L.) was first documented in Lake George in 1985. Physical plant management of milfoil began in 1986 through volunteer hand harvesting and the placement of benthic barrier. In 1989 suction harvesting was incorporated into the management program with the support of local, state, and federal funding. Federal support for milfoil management ended in 1993. Since 1994 the Lake George Eurasian Watermilfoil Program has been undertaken by the Lake George Park Commission with support from The Fund for Lake George Inc. and in kind service support from Darrin Freshwater Institute. Additionally, in 2009 the Fund for Lake George Inc. hired an independent contractor, AIM to supplement the project.

In the management program, physical plant management techniques form the basis for management activities. Preferred physical management approaches are based on density of milfoil growth. Scattered and moderately dense sites are managed by hand harvesting. Dense growth sites are managed with benthic barrier and/or suction harvesting in conjunction with hand harvesting.

By the conclusion of the 2009 management effort, a total of 179 Eurasian Watermilfoil sites were identified, eight more than documented in 2008. In the southern basin, there are high concentrations of milfoil sites near human population centers and boat-use areas including, but not limited to Lake George Village, Bolton Landing, Harris Bay and Dunham's Bay. In the north basin, clusters of Eurasian watermilfoil sites are also found in areas of high use near Huletts Landing, Putnam, Hague, and throughout the bay at the outlet.

A total of 169 milfoil sites have been managed in one or more years since the initial effort in 1986 (though not all efforts were successful). Of these, 164 sites were cleared of Eurasian watermilfoil in 2009. Combining Lycott and AIM data, a total estimated 275,689 plants were removed by hand harvesting in 2009. Additionally, ~79,000 ft<sup>2</sup> (210.5 panels) of pond liner was installed and ~226,000 ft<sup>2</sup> (603.5 panels) were removed from previously managed sites.

Management activities in Lake George have had a positive effect on the control of many milfoil sites. However, 9 sites remain with dense milfoil beds and 6 sites have moderately-dense growth. As of 2009, a total of 164 sites have been successfully cleared or managed. Thus, in addition to routine annual effort, 15 of the 179 total sites in Lake George require significant future effort.



# EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE 2009 PROGRAM REPORT

## Introduction

The Lake George Park Commission began plant control activities in 1986 with a three-acre benthic barrier installation and volunteer hand-harvesting program. From 1989-1993 physical plant management was performed by Darrin Freshwater Institute (DFWI) under an agreement with the New York State Department of Environmental Conservation. The work was supported by a Federal Clean Lakes Program grant. In 1994 the Lake George Park Commission (LGPC) accepted responsibility for the program as federal funding ended. DFWI continued to provide the management services under an agreement with the LGPC from 1995 through 2001. Since 1994 the LGPC has provided the financial means, administration and permits for the project. Additional support is given by the Fund for Lake George, Inc., and DFWI continues to provide essential data collection and reporting.

DFWI concluded their role as primary provider of physical milfoil management in Lake George in 2001. Beginning in 2002, Lycott Environmental Inc. (Lycott) was retained by LGPC to continue the management program through the year 2009. The following report details past and ongoing physical management efforts as well as the current status of milfoil sites in Lake George. Additionally, in 2009 LGPC contracted with AE to remove barrier panels and the Fund for Lake George, Inc. contracted with AIM primarily for large-scale hand-harvesting effort.

## Eurasian Watermilfoil Sites

As of 2009 season end, a total of 179 Eurasian watermilfoil (*Myriophyllum spicatum*) sites have been identified in Lake George (Table 1, Figure 1). Approximately half of these sites are located in the southern basin, with high concentrations near human population centers and boat-use areas including: Lake George Village, Bolton Landing, and the southeastern shallow bays (Dunham's, Harris and Warner). In the northern basin, clusters of milfoil colonies are also found in areas of high use near Huletts Landing, Putnam, Hague, and the outlet.



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

**Table 1A.** Lake George 2009 Eurasian watermilfoil sites. If a site remained clear from prior effort, 'r-clear' is coded in the action column. 'DNV' denotes sites which are on the rotating schedule for visits. Density categories are assigned prior to management activity. 'Status' is the state of the site following 2009 management activities. Last column is the general geographic site location within LG. Numbers in the '2009 Harvested' column with an asterisk (\*) are AIM data and are estimates (see also footnote). More benthic barrier data can be found in Table. 2.

Site	Name	Date	2009 Density	2009 Harvested	Status	Panels Installed 2009	Basin
1	NWB-Head of Bay	13-Aug	bed	1793	clear	17	Middle
2	Conger's Point	16-Jul	scattered	12	clear		Middle
3	SW Conger's Pt	16-Jul	r-cleared	0	clear		Middle
4	NW Sweetbriar Is	3-Sept	moderate	2610*	clear		Middle
5	W. Green Island	16-Jul	scattered	23	clear		Middle
6	Sunset Bay	28-Jul	bed	0	bed		North
7	Shepards Park	29-Oct	bed	5662*	bed		South
8	West Brook	10-Aug	bed	0	clear	4	South
9	Million Dollar Beach	2-Jul	scattered	9	clear		South
10	East Brook	2-Jul	scattered	32	clear		South
11	S. End Warner Bay	6-Jul	scattered	5	clear		South
12	LG Outlet	13-Jul	bed	0	bed		North
13	NE Mossy Pt.	18-Aug	bed	746	moderate		North
14	SE Happy Family Is.	6-Jul	r-cleared	0	clear		South
15	Finkle Brook	21-Jul	scattered	54	clear		Middle
16	Middleworth Bay	2-Jul	scattered	38	clear		South
17	E. end Echo Bay	6-Jul	moderate	0	moderate		Middle
18	Hague Boat Launch	28-Jul	bed	0	moderate	19	North
19	Dunham's Bay	17-Aug	moderate	1759	clear		South
20	Huddle Bay	3- Sept	bed	72065*	clear		Middle
21	Sheriff's Dock	27-Oct	bed	16788*	bed		South
22	Shadow Bay	16-Jul	r-cleared	0	clear		Middle
23	Lake George YC	2-Jul	scattered	7	clear		South
24	NWB-W. Tongue Mt	5-Aug	bed	763	clear	3	Middle
25	Basin Bay	1-Jul	scattered	39	clear		Middle
26	SW Cannon Pt	17-Aug	bed	1345	clear	4	South
27	NW Cooper Pt.	2-Jul	scattered	9	clear		South
28	S. Hearthstone	DNV			clear		South
29	Bay. NE Tea Is.	1-Jul	r-cleared	0	clear		South
30	N. Tea Is Bay	30 Oct	bed	3190*	clear		South
31	English Brook	DNV			clear		South
32	Crosbyside	1-Jul	scattered	2	clear		South
33	S. Plum Pt.	2-Jul	r-cleared	0	clear		South
34	Plum & Woods Pt.	2-Jul	r-cleared	0	clear		South
35	Bay S of Fan Pt.	8-Jul	scattered	204	clear		Middle



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

36	Dark Bay	2-Jul	scattered	6	clear		South
37	S. Warner Bay	6-Jul	r-cleared	0	clear		South
38	S. Warner Bay-B	6-Jul	scattered	7	clear		South
39	S. Katskill Bay	6-Jul	scattered	7	clear		South
40	Bay S. of Red Rock	14-Jul	r-cleared	0	clear		Middle
41	Paradise Bay	30-Jul	bed	143	clear	11	Middle
42	Bolton Bay T55	16-Jul	r-cleared	0	clear		Middle
43	Bolton Bay T54	16-Jul	scattered	31	clear		Middle
44	Bolton Bay NE Brg	16-Jul	r-cleared	0	clear		Middle
45	Tiroga/Black Pt.	13-Jul	moderate	0	moderate		North
46	Leotine/Clay	20-Jul	scattered	874	clear		Middle
47	Smith Bay	13-Aug	bed	192	clear	4	North
48	Gull Bay	4-Aug	bed	0	bed		North
49	S. Burnt Point	14-Jul	scattered	24	clear		North
50	Clark Hollow	14-Jul	bed	0	bed		North
51	Eichlerville Bay	28-Jul	bed	0	bed		North
52	Roger's Rock Beach	DNV			clear		North
53	W. Tongue Mtn	29-Jun	scattered	3	clear		Middle
54	Cooks Bay @ HL	15-Jul	scattered	10	clear		North
55	Indian Bay	28-Jul	scattered	68	clear		North
56	S. Sawmill Bay	29-Jul	moderate	139	clear	2	Middle
57	S. Green Is.	21-Jul	scattered	4	clear		Middle
58	Silver Bay	18-Aug	moderate	577	clear		North
59	Hondah Cottages	21-Jul	scattered	13	clear		Middle
60	Camp Andrew Bay	16-Jul	scattered	14	clear		Middle
61	Harbor Is- Moonlight	13-Aug	bed	278	clear	12	North
62	Marine Village	DNV			clear		South
63	S. Agnes Is.	7-Jul	scattered	84	clear		North
64	3 Brothers Is.	1-Jul	r-cleared	0	clear		Middle
65	W. of 3 Brothers Is.	1-Jul	scattered	39	clear		Middle
66	N. Sawmill Bay	22-Jul	moderate	94	clear	3	Middle
67	Bluff Head Creek	7-Jul	r-cleared	0	clear		North
68	Rock- Dunbar Is.	27-Jul	scattered	96	clear		North
69	Kitchal Bay	15-Jul	r-cleared	0	clear		North
70	S. Trib. W Halfway	30-Jun	r-cleared	0	clear		North
71	Hague Brook	5-Aug	moderate	396	moderate		North
72	South Cook's Bay	18-Aug	moderate	798	clear	6	North
73	Dark Bay Trib	13-Jul	scattered	78	clear		North
74	Point N. of Agnes Is.	3-Aug	bed	449	clear	10	North
75	Bell Pt.	11-Aug	bed	407	clear		Middle
76	S. Shelving Rock Pt.	9-Jul	scattered	18	clear		Middle
77	Walker Point	16-Jul	scattered	6	clear		Middle



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

78	N. of W. Tongue Mt.	5-Aug	moderate	207	clear		Middle
79	Shore S. of Bear Pt.	29-Jun	scattered	9	clear		Middle
80	Bay S of Bear Pt.	29-Jun	scattered	14	clear		Middle
81	Butternut Brook	DNV			clear		Middle
82	Barber Bay	6-Jul	scattered	11	clear		Middle
83	Van Warmer Bay	DNV			clear		South
84	Harris Bay Inlet	DNV			clear		South
85	Dunham's Bay Inlet	2-Jul	r-cleared	0	clear		South
86	East Shore	2-Jul	r-cleared	0	clear		South
87	Crosbyside	1-Jul	r-cleared	0	clear		South
88	Crosbyside	1-Jul	r-cleared	0	clear		South
89	Crosbyside	1-Jul	r-cleared	0	clear		South
90	S. Tea Is. Culvert	1-Jul	scattered	20	clear		South
91	Harris Bay E. Side	10-Aug	bed	15	clear	4	South
92	E. Hens & Chicks Is.	8-Jul	r-cleared	0	clear		Middle
93	E. of Refuge Is	8-Jul	scattered	2	clear		Middle
94	NW 3 Sirens Is.	30-Jun	r-cleared	0	clear		North
95	NWB-Head of Bay	16-Jul	scattered	5	clear		Middle
96	Harris Bay- Midbay	6-Jul	bed	0	bed		South
97	W. side Clay Is.	21-Jul	scattered	97	clear		Middle
98	S. Jenkin's Brook	14-Jul	scattered	53	clear		North
99	Holman Hill Creek	14-Jul	scattered	36	clear		North
100	Temple Island	15-Jul	scattered	3	clear		North
101	Brook N. Green Pt.	DNV			clear		North
102	S. Trib. 5 Mile Mtn. Brk	30-Jun	scattered	7	clear		North
103	N. N. Meadow Pt.	15-Jul	scattered	211	clear		North
104	Assembly Pt. West	2-Jul	r-cleared	0	clear		South
105	Assembly Pt. NW	DNV			clear		South
106	Assembly Pt.	6-Jul	r-cleared	0	clear		South
107	Elizabeth Is.	28-Jul	moderate	762	clear	5	South
108	Harris Bay Culvert	6-Jul	r-cleared	0	clear		South
109	SW Happy Family Is.	6-Jul	r-cleared	0	clear		South
110	Diamond Pt.	DNV			clear		South
111	NWB-NE Walker Pt.	16-Jul	r-cleared	0	clear		Middle
112	Whale Rock	7-Jul	scattered	179	clear		North
113	Diamond Is.	2-Jul	scattered	13	clear		South
114	Mooring Post Marina	6-Jul	r-cleared	0	clear		South
115	Cape Cod Village	14-Jul	rcleared	0	clear		North
116	Holman Hill Creek N.	14-Jul	scattered	108	clear		North
117	Glenbernie Blairs Bay	13-Jul	scattered	58	clear		North
118	Blairs Bay- North	13-Jul	scattered	8	clear		North
119	E. Side Harris Bay YC	6-Jul	scattered	2	clear		South



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

120	North Warner Bay	6-Jul	scattered	9	clear		South
121	East Shore	2-Jul	r-cleared	0	clear		Middle
122	Still Bay	2-Jul	r-cleared	0	clear		Middle
123	West Flirtation Is.	4-Aug	scattered	90	clear		North
124	N. Shelving Rock Pt.	15-Jul	r-cleared	0	clear		Middle
125	E. of Sagamore Is.	30-Jun	r-cleared	0	clear		North
126	NW Dollar Island	30-Jun	r-cleared	0	clear		Middle
127	SW French Pt.	30-Jun	r-cleared	0	clear		Middle
128	B. N of Commission Pt.	27-Jul	scattered	490	clear		Middle
129	Camp Sagamore	13-Jul	scattered	2	clear		North
130	N. Trib. 5 Mile Mtn Brk	30-Jun	scattered	11	clear		Middle
131	N. Steere Is.	30-Jun	scattered	4	clear		North
132	Lamb Shanty Bay	14-Jul	scattered	38	clear		North
133	Roger's Rock Club	13-Jul	scattered	3	clear		North
134	St. Sacrement Is.	30-Jun	r-cleared	0	clear		North
135	NE Van Warner Bay	21-Jul	r-cleared	0	clear		South
136	Assembly Pt. Pocket B.	2-Jul	scattered	86	clear		South
137	West Dollar Island	30-Jun	scattered	2	clear		Middle
138	Bay N. Fan Pt	20-Jul	moderate	647	clear	3	Middle
139	NE Little Harbor Island	30-Jun	scattered	89	clear		North
140	NW of 3 Sirens Is.	30-Jun	r-cleared	0	clear		North
141	Camp Andrew Bay West	6-Jul	scattered	176	clear		Middle
142	S. of Fox Island	30-Jun	scattered	27	clear		Middle
143	S. Bluff Head Creek	30-Jul	moderate	120	clear	2	North
144	N. Jenkin's Brook	14-Jul	scattered	21	clear		North
145	Juniper Is.	13-Jul	scattered	29	clear		North
146	Blairs Bay-South	13-Jul	scattered	58	clear		North
147	Gull Island	20-Aug	scattered	274	clear		North
148	W. side Tea Is.	17-Aug	scattered	14	clear		South
149	Fish Point	23-Jul	scattered	82	clear		Middle
150	E. Rock Bros. Is.	23-Jul	scattered	23	clear		North
151	Indian Pt.	14-Jul	scattered	15	clear		North
152	SE Elizabeth Is.	9-Jul	scattered	931	clear		South
153	Eye of Needle	28-Jul	scattered	221	clear	1	Middle
154	Roger's Slide	13-Jul	scattered	13	clear		North
155	N. Juniper Is	13-Jul	scattered	1	clear		North
156	NE Cove Assembly Pt.	2-Jul	scattered	12	clear		North
157	S. Canoe Islands	21-Jul	scattered	214	clear		South
158	Georgian	17-Aug	scattered	13	clear		South
159	Robert Allen	13-Jul	scattered	8	clear		North
160	Van Buren Bay-S	14-Jul	scattered	21	clear		North
161	E. Speaker Heck Ch.	2-Jul	r-cleared	0	clear		South



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

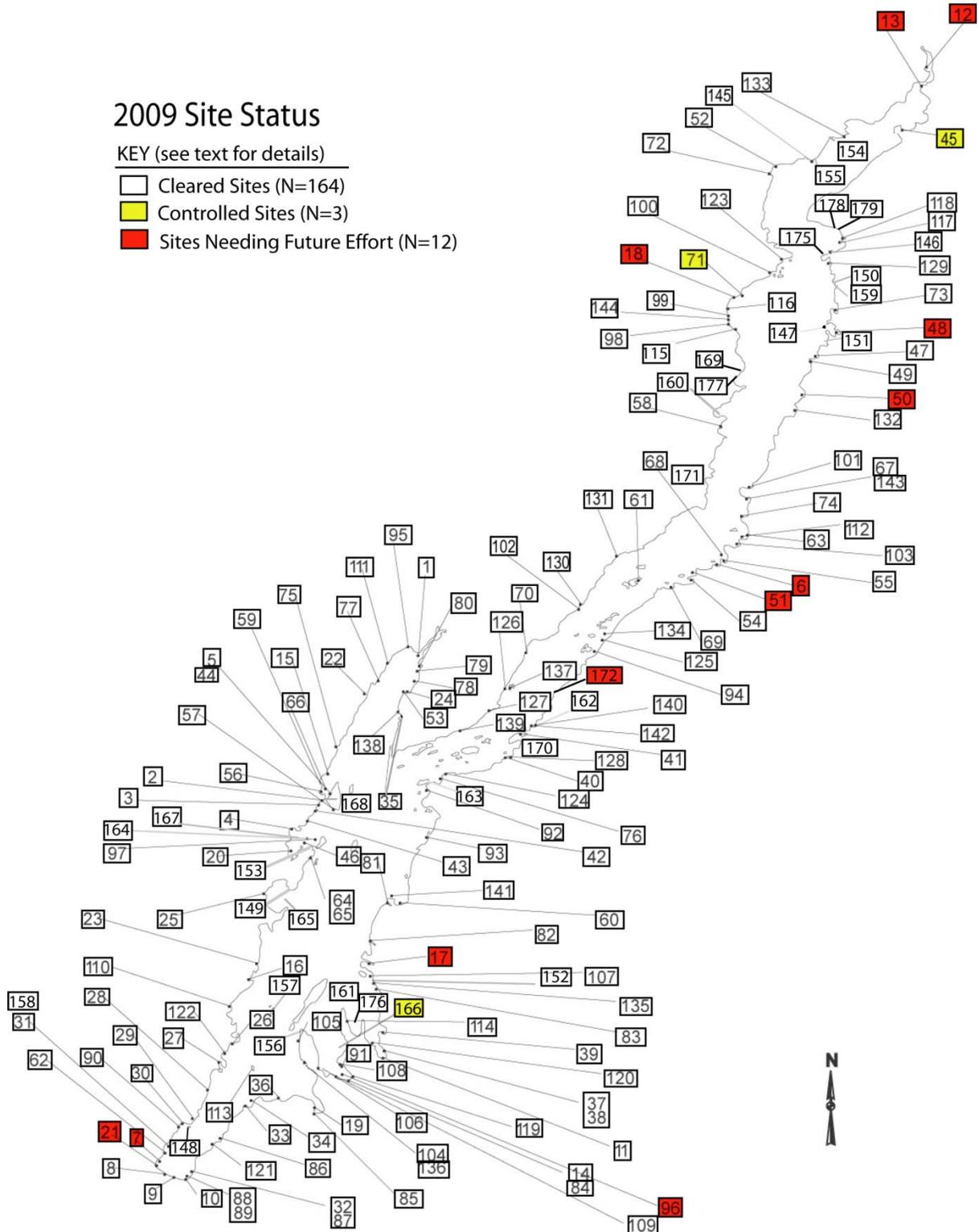
162	N. Hazel Island	2-Jul	scattered	23	clear		Middle
163	14 Mile Island	20-Aug	scattered	403	clear		Middle
164	N. Leotine Shoal	9-Sept	moderate	5727*	clear		Middle
165	Basin Bay Shoal	22-Jul	moderate	537	clear	4	Middle
166	Harris Bay Shore Acres	6-Jul	moderate	0	moderate		South
167	Clay Island SW	9-Sept	bed	5727*	clear		Middle
168	SW Green Island	22-Jul	moderate	219	clear	3	Middle
169	Arcady Bay	12-Aug	bed	177	clear	19.5	North
170	Red Rock Bay	11-Aug	bed	252	clear	15	Middle
171	S. Delaware Is.	27-Jul	moderate	79	clear	1	North
172	N Black Mtn. Point	30-Jun	bed	0	bed		Middle
173	BoltonBay2	10-Sept	bed	5365*	clear		Middle
174	BoltonBay3	11-Sept	bed	6090*	clear		Middle
175	Blair's Bay S.Shore	18-Aug	bed	1789	clear	11	North
176	Sandy Bay	10-Aug	bed	1901	clear	31	South
177	Arcady Bay Docks	13-Aug	bed	207	clear	13	North
178	Blair's Bay N. Shore1	18-Aug	bed	256	clear	3	North
179	Blair's Bay N. Shore2	18-Aug	moderate	432	clear		North
				<b>AIM</b>	<b>252,155*</b>	<b>0</b>	
				<b>LYCOTT</b>	<b>23,534</b>	<b>210.5</b>	

Note: In addition to the AIM count estimates presented in Table 1 (data with an asterisk), AIM reports another 128,931 plants combined from areas around and between the following sites: 2,3,25,42,43,56,57,66, & 165 for a total of 252,155 plants.



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

**Figure 1.** Map of all known Eurasian watermilfoil sites at the conclusion of 2009. Open labels are sites that are clear of all visible milfoil; yellow labels are sites that are actively managed and/or of moderate density but are not yet cleared of milfoil; red labels are sites in need of future managed effort.



**2009 Site Status**

KEY (see text for details)

- Cleared Sites (N=164)
- Controlled Sites (N=3)
- Sites Needing Future Effort (N=12)



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

### **Aquatic Plant Management**

A five-year permit for aquatic plant management in Lake George was issued by the Adirondack Park Agency in 1992 and transferred from NYS DEC to the LGPC in 1994. This permit was most recently renewed in 2006, and allows physical control methods to be applied to manage the growth and spread of Eurasian watermilfoil in Lake George through the spring of 2011. Additionally, in 2009 The Fund for Lake George Inc. contracted with an independent firm (AIM) to perform hand harvesting at selected sites and the LGPC contracted with AE to remove barrier panels at three sites. This report summarizes all watermilfoil management activities conducted on Lake George in 2009.

In the Integrated Aquatic Plant Management Program developed for Lake George, physical plant management techniques form the basis for management activities. Therefore, the general management approach required by the LGPC has been to keep previously cleared sites free of milfoil by conducting hand harvesting where possible (Tables 1 & 2). Once all sites suitable for hand harvesting are cleared, the primary management approach becomes benthic barrier maintenance, installation, and removal (where appropriate). The management strategy for large, dense stands of milfoil in Lake George is relatively long term. Hence, a number of sites may be left without active management (i.e., observed only) in any given year.

Preferred physical management approaches are based upon density of milfoil growth and logistics (i.e., time constraints, location of sites and availability of management tools such as barrier panels). Scattered sites and some moderately dense sites are managed through hand harvesting. Large, dense beds are managed with benthic barrier or as of 2009 'robust' hand harvesting by AIM.

Of the 179 known milfoil sites, 169 have been managed for milfoil in one or more years since the start of aquatic plant management efforts. Of these, 116 were cleared of milfoil in 2009. An additional 48 sites remained clear of milfoil from prior efforts. Thus, at the close of the 2009 effort, 164 of the 179 sites were clear of milfoil. Cleared, as used in this context, indicates removal of all visible milfoil plants, including roots. As of 2005, 'cleared' also includes sites which have benthic barrier in place, but which are devoid of milfoil. Because sites can be re-colonized by fragments generated at nearby sites and/or from fragments unintentionally left behind, cleared sites may see some re-growth of milfoil between management efforts.

Additionally, 15 sites require a more intensive management strategy than our traditional hand harvesting approach. Ten sites in Lake George currently have stands of milfoil toward which no management activity has been directed.



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

**Table 2.** 2009 Benthic Barrier (panel) management & 2010 projected management needs by site (HH is hand harvest only, M is a combination of barrier maintenance and hand harvesting). “?” are sites where no physical management plan has been established; these are very large sites and/or very busy locations. In addition to Lycott benthic barrier work, AE removed a total of 333 panels from three sites and AIM removed the equivalent of 28.5 from Huddle Bay.

Site	Name	Basin	Lycott Panels Installed 2009	Lycott Panels Removed 2009	Additional Panels Removed 2009	Status	2010 Projection
1	NWB-Head of Bay	Middle	17			clear	M
2	Conger's Point	Middle				clear	HH
3	SW Conger's Pt	Middle				clear	HH
4	NW Sweetbriar Is	Middle				clear	HH
5	W. Green Island	Middle				clear	HH
6	Sunset Bay	North				bed	M
7	Shepards Park	South				bed	HH
8	West Brook	South	4		121	clear	HH
9	Million Dollar Beach	South				clear	HH
10	East Brook	South				clear	HH
11	S. End of Warner Bay	South				clear	HH
12	LG Outlet	North				bed	?
13	NE Mossy Pt.	North		2		moderate	M
14	SE Happy Family Is.	South				clear	HH
15	Finkle Brook	Middle				clear	HH
16	Middleworth Bay	South				clear	HH
17	E. end Echo Bay	Middle				moderate	?
18	Hague Boat Launch	North	19	19		moderate	HH
19	Dunham's Bay	South		45	30	clear	HH
20	Huddle Bay	Middle		65	28.5	clear	M
21	Sheriff's Dock	South				bed	HH
22	Shadow Bay	Middle				clear	HH
23	Lake George YC	South				clear	HH
24	NWB-W. Tongue Mtn	Middle	3			clear	HH
25	Basin Bay	Middle				clear	HH
26	SW Cannon Pt	South	4	41		clear	M
27	NW Cooper Pt.	South				clear	HH
28	S. Hearthstone	South				clear	HH
29	Bay. NE Tea Is.	South				clear	HH
30	N. Tea Is Bay	South				clear	HH
31	English Brook	South				clear	HH
32	Crosbyside	South				clear	HH
33	S. Plum Pt.	South				clear	HH
34	Plum & Woods Pt.	South				clear	HH
35	Bay S of Fan Pt.	Middle				clear	HH
36	Dark Bay	South				clear	HH
37	S. Warner Bay	South				clear	HH
38	S. Warner Bay-B	South				clear	HH
39	S. Katskill Bay	South				clear	HH
40	Bay S. of Red Rock Bay	Middle				clear	HH



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

41	Paradise Bay	Middle	11		clear	HH
42	Bolton Bay T55	Middle			clear	HH
43	Bolton Bay T54	Middle			clear	HH
44	Bolton Bay NE Bridge	Middle			clear	HH
45	Tiroga/Black Pt.	North			moderate	?
46	Leotine/Clay	Middle			clear	HH
47	Smith Bay	North	4		clear	HH
48	Gull Bay	North			bed	M
49	S. Burnt Point	North			clear	HH
50	Clark Hollow	North			bed	BB
51	Eichlerville Bay	North			bed	BB
52	Roger's Rock Beach	North			clear	HH
53	W. Tongue Mtn	Middle			clear	HH
54	Cooks Bay @ HL	North			clear	HH
55	Indian Bay	North			clear	HH
56	S. Sawmill Bay	Middle	2		clear	HH
57	S. Green Is.	Middle			clear	HH
58	Silver Bay	North			clear	HH
59	Hondah Cottages	Middle			clear	HH
60	Camp Andrew Bay	Middle			clear	HH
61	Harbor Is- Moonlight B.	North	12		clear	HH
62	Marine Village	South			clear	HH
63	S. Agnes Is.	North			clear	HH
64	3 Brothers Is.	Middle			clear	HH
65	W. of 3 Brothers Is.	Middle			clear	HH
66	N. Sawmill Bay	Middle	3		clear	HH
67	Bluff Head Creek	North			clear	HH
68	Rock- Dunbar Is.	North			clear	HH
69	Kitchal Bay	North			clear	HH
70	S. Trib. W Halfway Is.	North			clear	HH
71	Hague Brook	North		182	moderate	M
72	South Cook's Bay	North	6		clear	HH
73	Dark Bay Trib	North			clear	HH
74	Point N. of Agnes Is.	North	10		clear	HH
75	Bell Pt.	Middle			clear	HH
76	S. Shelving Rock Pt.	Middle			clear	HH
77	Walker Point	Middle			clear	HH
78	N. of W. Tongue Mtn.	Middle			clear	HH
79	Shore S. of Bear Pt.	Middle			clear	HH
80	Bay S of Bear Pt.	Middle			clear	HH
81	Butternut Brook	Middle			clear	HH
82	Barber Bay	Middle			clear	HH
83	Van Warmer Bay	South			clear	HH
84	Harris Bay Inlet	South			clear	HH
85	Dunham's Bay Inlet	South			clear	HH
86	East Shore	South			clear	HH
87	Crosbyside	South			clear	HH
88	Crosbyside	South			clear	HH
89	Crosbyside	South			clear	HH
90	S. Tea Is. Culvert	South			clear	HH



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

91	Harris Bay E. Side	South	4	clear	HH
92	E. of Hens & Chicks Is.	Middle		clear	HH
93	E. of Refuge Is	Middle		clear	HH
94	NW 3 Sirens Is.	North		clear	HH
95	NWB-Head of Bay	Middle		clear	HH
96	Harris Bay- Midbay	South		bed	BB
97	W. side Clay Is.	Middle		clear	HH
98	S. Jenkin's Brook	North		clear	HH
99	Holman Hill Creek	North		clear	HH
100	Temple Island	North		clear	HH
101	Brook N. Green Pt.	North		clear	HH
102	S. Trib. 5 Mile Mtn. Brk	North		clear	HH
103	N. N. Meadow Pt.	North		clear	HH
104	Assembly Pt. West	South		clear	HH
105	Assembly Pt. NW	South		clear	HH
106	Assembly Pt.	South		clear	HH
107	Elizabeth Is.	South	5	clear	HH
108	Harris Bay Culvert	South		clear	HH
109	SW Happy Family Is.	South		clear	HH
110	Diamond Pt.	South		clear	HH
111	NWB-NE Walker Pt.	Middle		clear	HH
112	Whale Rock	North		clear	HH
113	Diamond Is.	South		clear	HH
114	Mooring Post Marina	South		clear	HH
115	Cape Cod Village	North		clear	HH
116	Holman Hill Creek N.	North		clear	HH
117	Glenbernie Blairs Bay	North		clear	HH
118	Blairs Bay- North	North		clear	HH
119	E. Side Harris Bay YC	South		clear	HH
120	North Warner Bay	South		clear	HH
121	East Shore	Middle		clear	HH
122	Still Bay	Middle		clear	HH
123	West Flirtation Is.	North		clear	HH
124	N. Shelving Rock Pt.	Middle		clear	HH
125	E. of Sagamore Is.	North		clear	HH
126	NW Dollar Island	Middle		clear	HH
127	SW French Pt.	Middle		clear	HH
128	B. N of Commission Pt.	Middle		clear	HH
129	Camp Sagamore	North		clear	HH
130	N. Trib. 5 Mile Mtn Brk	Middle		clear	HH
131	N. Steere Is.	North		clear	HH
132	Lamb Shanty Bay	North		clear	HH
133	Roger's Rock Club	North		clear	HH
134	St. Sacrement Is.	North		clear	HH
135	NE Van Warner Bay	South		clear	HH
136	Assembly Pt. Pocket B.	South		clear	HH
137	West Dollar Island	Middle		clear	HH
138	Bay N. Fan Pt	Middle	3	clear	HH
139	NE Little Harbor Island	North		clear	HH
140	NW of 3 Sirens Is.	North		clear	HH



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

141	Camp Andrew Bay West	Middle			clear	HH
142	S. of Fox Island	Middle			clear	HH
143	S. Bluff Head Creek	North	2		clear	HH
144	N. Jenkin's Brook	North			clear	HH
145	Juniper Is.	North			clear	HH
146	Blairs Bay-South	North			clear	HH
147	Gull Island	North		12	clear	HH
148	W. side Tea Is.	South		13	clear	HH
149	Fish Point	Middle			clear	HH
150	E. Rock Bros. Is.	North			clear	HH
151	Indian Pt.	North			clear	HH
152	SE Elizabeth Is.	South			clear	HH
153	Eye of Needle	Middle	1		clear	HH
154	Roger's Slide	North			clear	HH
155	N. Juniper Is	North			clear	HH
156	NE Cove Assembly Pt.	North			clear	HH
157	S. Canoe Islands	South			clear	HH
158	Georgian	South		30	clear	HH
159	Robert Allen	North			clear	HH
160	Van Buren Bay-S	North			clear	HH
161	E. Speaker Heck Ch.	South			clear	HH
162	N. Hazel Island	Middle			clear	HH
163	14 Mile Island	Middle		15	clear	HH
164	N. Leotine Shoal	Middle			clear	HH
165	Basin Bay Shoal	Middle	4		clear	HH
166	Harris Bay Shore Acres	South			moderate	HH
167	Clay Island SW	Middle			clear	M
168	SW Green Island	Middle	3		clear	HH
169	Arcady Bay	North	19.5		clear	HH
170	Red Rock Bay	Middle	15		clear	HH
171	S. Delaware Is.	North	1		clear	HH
172	N Black Mtn. Point	Middle			bed	HH
173	BoltonBay2	Middle			clear	HH
174	BoltonBay3	Middle			clear	HH
175	Blair's Bay S.Shore	North	11		clear	HH
176	Sandy Bay	South	31		clear	HH
177	Arcady Bay Docks	North	13		clear	HH
178	Blair's Bay N. Shore1	North	3		clear	HH
179	Blair's Bay N. Shore2	North			clear	HH
			<b># Panels:</b>	<b>210.5</b>	<b>242</b>	<b>361.5</b>
			<b>Acreage:</b>	<b>1.8</b>	<b>2.1</b>	<b>3.1</b>



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

**Table 3.** Number of reported milfoil sites and their status at the conclusion of each survey year. Data for years 1985-2001 are from Eichler & Boylen 2001. Except for the 'Total' column, data in this table are not necessarily inclusive of all sites; there is a 'hidden' category of managed sites. Sites which are actively being managed with benthic barrier but which still have stands of milfoil are considered 'managed' sites. New sites are accounted for in the appropriate category and are listed here to track number of new sites/year. In previous annual activity reports (2004 and prior) sites were considered managed if benthic barrier remained even if the site was devoid of milfoil. Since 2005, all sites devoid of milfoil are listed as cleared even when benthic barrier remains in place.

Year	Total # of Milfoil Sites	Density of Milfoil Growth			Status	
		Bed	Moderate	Scattered	New	Clear
1985	3	3	0	0	3	0
1986	22	9	0	13	19	0
1987	43	8	0	29	21	6
1988	55	8	0	35	12	12
1989	66	12	6	23	11	25
1990	76	13	8	19	10	36
1991	91	11	7	27	15	46
1992	97	16	4	40	6	37
1993	106	21	13	10	9	62
1994	N/A	N/A	N/A	N/A	N/A	N/A
1995	111	26	13	5	1	67
1996	118	25	11	9	7	73
1997	123	28	11	13	5	72
1998	127	31	7	6	4	83
1999	134	34	7	4	7	91
2000	136	28	8	3	2	94
2001	141	24	11	4	5	103
2002	144	23	7	4	3	110
2003	146	22	6	3	2	114
2004	148	20	8	2	2	112
2005	149	18	10	2	1	115
2006	157	17	9	0	8	127
2007	160	14	8	6	3	132
2008	171	16	6	9	11	140
<b>2009</b>	<b>179</b>	<b>9</b>	<b>6</b>	<b>0</b>	<b>8</b>	<b>164</b>

*Hand Harvesting*

Lycott visited and cleared 157 sites using hand harvesting or confirmed sites remained clear. In doing so, Lycott removed 23,534 plants by hand harvesting. The number of hand harvested plants were determined by a tally of individual plants kept by divers as each site was cleared. AIM also reported the removal of 252,155 plants by hand harvesting. However, their methodology differs significantly from that of Lycott and thus the numbers are not directly comparable. The AIM effort cleared an additional seven sites. Thus, a total of 164 sites were clear of milfoil at the close of milfoil management operations by all groups.



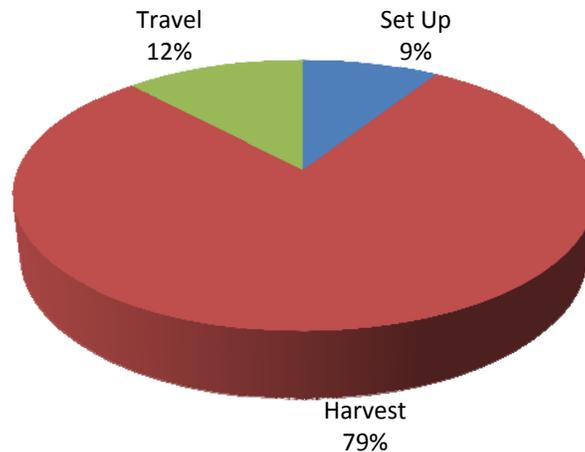
**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

**Table 4.** Recent hand-harvest effort by Lycott. 1999-2001 data are from DFWI, 2002-2009 data are from Lycott. In previous annual activity reports (2004 and prior) sites were listed as managed if benthic barrier remained even if the site was devoid of milfoil. Beginning in 2005, all sites devoid of milfoil are listed as cleared even if benthic barrier remains in place.

Year	Number of Sites <sup>1</sup>	Number of Plants Harvested	Total Person•Hours	Average Person•Hours/ Hand-Harvest Sites
1999	65/26 91	5,733	193	3.1
2000	46/48 94	4,065	211	4.4
2001	50/55 105	5,074	352	3.4
2002	68/42 115	11,605	491	4.2
2003	64/50 116	17,438	546	4.6
2004	58/54 119	9,387	501	4.2
2005	72/43 122	7,073	480	3.9
2006	73/54 131	13,409	390	4.0
2007	80/52 139	19,753	422	3.1
2008	93/47 153	14,690	450	2.9
2009	109/48 168	23,534	480	2.9

<sup>1</sup> Top numbers in cells are sites cleared/sites that remained clear (from prior year's effort). Bottom number in cell is total number of sites worked (i.e., hand harvesting and/or benthic barrier installation/maintenance)

**Figure 2.** 2009 Distribution of Lycott hand-harvesting effort. Graph represents 480 total person•hours.



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

*Benthic Barrier*

References to the relocation or installation of benthic barrier panels in Lake George 2001-2006 refers exclusively to Palco® pond liners. These panels are a negatively-buoyant polyvinyl chloride (pvc) material and are each cut to 7' x 50' (350 ft<sup>2</sup>). Beginning in 2007, generic 20-mil pvc pond liners were used. These panels are also a negatively-buoyant pvc material, however they are slightly larger at 7.5' x 50' (375 ft<sup>2</sup>). Both types of panel require overlap with adjacent panels. Thus, the actual coverage once installed is slightly less than the product of the number of panels at each site by the total square feet of each panel.

Sites managed with benthic barrier in previous years were inspected and maintenance was performed where required. A total of 67 sites in Lake George which were formerly dense stands of milfoil have been managed with benthic barrier; 58 are now clear of milfoil, 3 are controlled but not yet completely devoid of milfoil, and 6 have milfoil growth which is not currently controlled (Table 1, 2 & Appendix D).

Routine benthic barrier inspections were conducted at all barrier locations. Panels were inspected, cleaned where possible and repaired as needed. Maintenance included repositioning of panels to close gaps, venting of trapped gases, as well as moving and installing additional weight bars as necessary. In addition to routine maintenance, 26 sites had barrier installed and 12 sites had barrier panels removed in 2009 (Table 2).

**Table 5.** Lycott effort data for benthic barrier installation and removal by year. Panels in years 2004-2005 were 350 ft<sup>2</sup> each. Panels in 2007 and later are 375 ft<sup>2</sup> each. In addition to Lycott data, in 2009 AE removed 123,875 ft<sup>2</sup> and AIM removed 10,687 ft<sup>2</sup>.

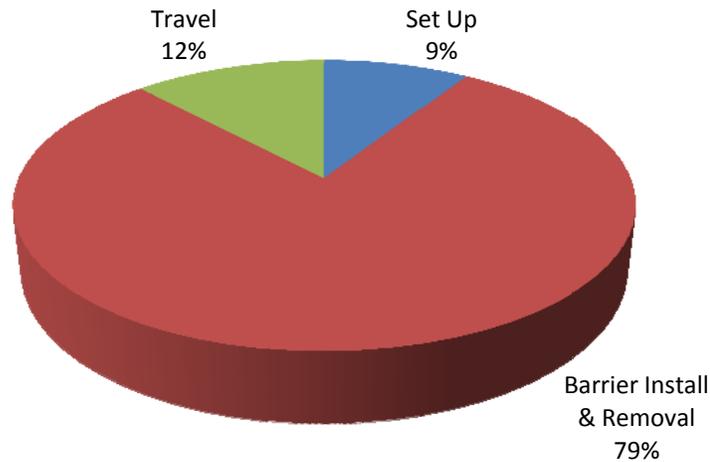
Year	Person•Hours	Panels (removed)(installed) (total)	Average Person•Hours per Panel	Square Feet (removed)(installed) (total)	Average sf/ Person•Hour	# Sites Worked
2004	560	(6)(135) 141	3.97	(1,800)(42,000) 43,800	78.2	8
2005	510	(102)(135) 237	2.15	(31,000)(42,000) 73,000	143.1	13
2006	694	(3)(317.5) 320.5	2.17	(900)(96,000) 96,900	139.6	16
2007	1,514	(0)(487.25) 487.25	3.11	(0)(170,537.5) 170,537.5	112.6	15
2008	1,310	(0)(331) 331	3.96	(0)(115,850) 115,850	88.44	21
2009	1,310	(242)(210.5) 452.5	2.89	(90,750)(78,937.5) 169,687.5	129.53	33

In addition to the Lycott data presented in Table 5, AIM and AE removed panels from four sites. AIM removed the last 28.5 panels from M-20. AE removed 182, & 121 panels from sites M-71, M-8 respectively removing all panels from each of these sites in the process. Additionally, AE removed 30 panels from M-19 leaving 175 panels currently in place at this site.



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

**Figure 3.** Distribution of Lycott effort for benthic barrier management conducted in 2009. Graph represents 1,310 total person•hours.



### **General Conclusions**

Of the 179 known watermilfoil sites, a total of 164 (92%) were clear at the conclusion of year 2009 management efforts. Approximately 25% of the 164 cleared sites remained so for one or more years. Furthermore, 85% of these 164 cleared sites were cleared with modest hand harvesting effort (i.e., 0-500 plants). Lycott removed a total of 23,534 plants by traditional hand harvesting techniques. AIM, though using a different approach, estimated a removal of an additional 252,155 plants.

In 2009, a total of just over 1.8 acres (210.5 panels) of benthic barrier were installed across 26 sites (Tables 1 & 2). These 26 sites also produced 13,176 (56%) of the total plants hand harvested by Lycott in 2009. Thus, while the total number of plants hand harvested was high for 2009, several bed sites were cleared or significantly reduced for the first time with use of benthic barrier or a combination of barrier and hand harvesting efforts.

In 2009, for the first time a concerted effort was made to remove previously installed barrier panels. In total 5.2 acres (603.5 panels) were removed from 12 sites for a net decrease of in-lake panels of 3.4 acres (or 393 panels) for the 2009 effort.

There were 32 bed sites and 19 moderate sites in Lake George when management efforts began in June 2009 (Table 1) for a total of 51 sites needing significant effort. Twenty-one of the 32 bed sites (66%) were cleared in 2009. Nine bed sites remain and two bed sites were reduced to moderate status. Of the 19 pre-existing (pre-2009 effort) moderate sites, 15 were cleared, one was reduced but remains a moderate site, and three were not managed. All 80 of the 'scattered' sites were cleared in 2009.

Therefore, 9 bed sites and 6 moderate sites remain in Lake George (Table 3). These will require future management effort in addition to the routine annual work.

**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

**References**

- Boylen, C.W., L.W. Eichler, and J.W. Sutherland, 1996. Physical Control of Eurasian Watermilfoil in an Oligotrophic Lake. *Hydrobiologia*. **340(1-3)**: 213-218.
- Eichler, L. W, and C. W. Boylen. 2001. Eurasian watermilfoil management in Lake George, New York for 2001. FWI Report 2001-5. Rensselaer Fresh Water Institute, Troy, NY.
- Eichler, L. W., R. T. Bombard, J. W. Sutherland and C. W. Boylen. 1995. Re-colonization of the Littoral Zone by Macrophytes following the Removal of Benthic Barrier Material. *J. Aquatic Plant Manage.* 33: 51-54.
- Eichler, L. W., R. T. Bombard, J. W. Sutherland and C. W. Boylen. 1993. Suction harvesting of Eurasian watermilfoil and its effect on native plant communities. *J. Aquat. Plant Manage.* 31:144-148.
- King, R. W, and L. Lyman. 2005. Eurasian watermilfoil management in Lake George, New York, 2006. Lycott Technical Report LG2006. Lycott Environmental Inc. Southbridge, MA. USA
- King, R. W, and L. Lyman. 2008. Eurasian watermilfoil management in Lake George, New York, 2006. Lycott Technical Report LG2006. Lycott Environmental Inc. Southbridge, MA. USA
- Madsen, J.D., L.W. Eichler and C. W. Boylen. 1988. Vegetative spread of Eurasian Watermilfoil in Lake George, New York. *J. Aquat. Plant Manage.* 26:47-50.
- Madsen, J. D., J. W. Sutherland, and L. W. Eichler. 1989. Hand harvesting Eurasian Watermilfoil in Lake George. FWI Report 89-8. Rensselaer Fresh Water Institute, Troy, NY.



## APPENDIX A

### Descriptions of Eurasian Watermilfoil Sites

Criteria used for site designations follow Eichler & Boylen (2001). Briefly, sites are designated as 'beds' when  $\geq 50$  percent of the total macrophyte community cover was milfoil, 'moderate' when milfoil was  $< 50$  but  $\geq 10$  percent cover, and 'scattered' when  $< 10$  percent of total macrophyte community was milfoil as determined by visual survey estimates.

**Northwest Bay (M-1).** The number of Eurasian watermilfoil plants has increased at this site since its discovery in 1986, and the bed has also increased in size to cover a substantial portion of the littoral zone. This site has fine, organic-rich bottom sediments, due to wetland runoff from Northwest Bay Brook and wetland. Slope is moderately flat, except adjacent to the navigation channel into the wetland. The once diverse native aquatic flora has become severely impacted by the development of the dense bed of Eurasian watermilfoil. Sixty plants were removed by hand harvesting in 2002, none have been removed since. There remains a large bed of milfoil at this site. This was formerly a research site for DFWI. In 2008, 57 panels of benthic barrier were installed covering the bed, but leaving scattered plants. In 2009, 17 panels of benthic barrier were installed and 1793 plants were removed by hand harvesting to clear the site.

**Bolton Bay at Conger's Point (M-2).** In the past, this site included a small area with moderately dense growth of milfoil plants, a nearby small dense bed, and an extensive area of low-density milfoil growth throughout this small bay. Benthic barrier material was installed over the dense bed growth at this site during 1990. This barrier was removed and relocated elsewhere in 1997. Areas of moderate and low-density milfoil growth were also harvested in 1997. When visited in 1998, only 55 plants of Eurasian watermilfoil were found and removed via hand harvesting. In 1999, hand harvesting accounted for 39 plants, indicating that continued hand harvesting is able to keep pace with milfoil growth. In 2000 and 2001, the number of milfoil plants hand-harvested continued its decline with a total of 18 and 2 plants removed, respectively. In 2002, the number of plants hand-harvested increased to 138 but declined again in 2003 with just 34 plants removed. In 2004, 9 plants were removed to clear the site. In 2005 a small piece of benthic barrier was installed to cover ca. 100 plants and 8 plants were hand pulled. In 2006, 49 plants were removed and in 2007, 104 plants were removed to clear the site. In 2008, the existing panel was repositioned and 1 panel was installed (in several pieces), additionally 37 plants were removed by hand harvesting to clear the site. The bottom is silt and sand with a moderately flat slope. Heavy boat traffic occurs in the adjacent open water. In 2009, 12 plants were removed by hand harvesting to clear the site.

**Bolton Bay SW of Conger's Point (M-3).** Moderately dense stands of milfoil were found among the docks of a marina, with adjacent areas of low-density plant growth. This area has heavy boat traffic both among the docks and in the adjacent open water area. Approximately 50 meters of shoreline was affected. This site was suction harvested in 1991, however some areas of milfoil growth remained. Heavy boat traffic limits diver

**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

access to this site. No management occurred here in 2000. No milfoil growth has observed at this site in the years 2001-2005. This site was not visited in 2006 or 2007. In 2008, this site was visited and 8 plants were removed to once again clear the site. In 2009, this site remained free of milfoil.

**Huddle Bay NW of Sweetbriar Is (M-4).** A few scattered plants were found around the docks of a marina (low density) and commercial establishments (low to moderate density). The bottom is silty, and the slope is shallow. Curly-leaf Pondweed (*Potamogeton crispus*) was also observed here. Boat traffic is heavy among the docks and in this small embayment. Approximately 100 m of shoreline was affected. The moderate density areas were suction harvested and the scattered plants were hand-harvested in 1991. No management occurred here in 2000 or 2001. An attempt was made to hand-harvest here in 2002 and a total of 13 plants were removed. This area is deemed too dangerous to have divers in the water unless management activities can be conducted outside of high traffic times. This was not possible in 2002 due to time constraints and the fact that management activities occurred between 1 July and 9 August. Likewise, in 2003 scattered plants were seen among the boats at Chic's Marina but could not be taken. Scattered milfoil plants remain at the conclusion of the 2003 season. In 2004, 259 plants were removed to reduce plant density at this site. No management has occurred here since 2005. However, in 2008 it was noted that the dense beds were no longer present. Currently this site is considered 'moderate,' however the distribution of plants encompasses the docks at Chic's Marina as well as the Algonquin and continues to be scattered just off and between these two properties. In 2009, moderate density milfoil growth was apparent. AIM removed an estimated 2610 plants to clear the site.

**Sawmill Bay W shore of Green Is (M-5).** Moderate density milfoil growth was found near a boat ramp for NYSDEC, and around a marine railway at an adjacent private facility. The bottom is composed of mixed silt and rubble, with numerous bottom obstructions. Boat traffic in the adjacent waterway and among the docks is heavy. The milfoil population at this site was managed via suction harvesting in the fall of 1990; however the bottom obstructions severely hampered this operation. Annual surveys in 2000-2006 note that milfoil populations had become re-established into moderately dense growth around the docks. This population is most likely enhanced with fragments from the large bed nearby in Sawmill Bay. This site was cleared of 230 plants in 2007. In 2008, this site was cleared of 183 plants. In 2009, 23 plants were removed by hand harvested to clear the site.

**Sunset Bay (M-6).** The moderate density area surrounding the small bed of milfoil reported in 1989 has increased in density and merged with the small milfoil bed. A majority of this area was covered with benthic barrier in 1992 and 1993. The remainder of this small bay contains scattered plants. A small patch of scattered plants to the north of the principal milfoil area has increased to moderate density. The slope is gradual, with a silty bottom. Eurasian watermilfoil was found from 1 to 4 meters water depth with very dense milfoil growth in 2 to 3 meters depth. Substantial accumulations of silt on top of benthic barrier were observed annually from 1998 through 2008. Eurasian watermilfoil continues to spread southward along the shore, mixed with a native pondweed,



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

*Potamogeton amplifolius*. In 2008 it was noted that while there exists a fairly well defined bed along the north & west of the cove (likely adjacent to the '92-'93 panel installation area). Additionally, numerous large plants are scattered throughout the bay East of the swim area mixed with native plants. In 2009, a bed of watermilfoil was observed, but no management occurred in this year.

**Shepard's Park (M-7).** Substantial beds of Eurasian watermilfoil have become established to the north of the dock and along the shoreline outside the swim buoys. The milfoil beds increased in size from 1989 until 1992, and a large population of Curly-leaf Pondweed was also observed. The three beds were controlled using benthic barrier and suction harvesting in 1992. Much of the remaining area had either low-density scattered plants, or small clumps of moderate to dense growths, too small to be considered a bed. Hand harvesting removed a number of scattered plants. Sand imported for the public swimming beach was the predominant bottom sediment, but some areas of exposed silt were found at deeper depths. This site is a heavily used public beach. Additional panels (3500 ft<sup>2</sup>) of benthic barrier were installed in 1996 to cover the majority of the remaining dense bed areas. In 1998, 3 moderate to large beds were observed off the northern section of the beach area, with many scattered plants along the perimeters of the beds. Future management efforts at this site are required. By 2000, the milfoil beds in this area had spread to such extent that milfoil was visible from the northern end of the beach area southward along the shore, joining with the Sheriff's Dock site (M-21) and spreading to the far side of the town docks, a condition which persisted in 2001. In 2002, 46 barrels of milfoil were suction harvested from this site. Additionally, four panels of Palco® were removed from within and near the swim area in anticipation of a proposed dredging project in and around the old pier. In 2002, milfoil was cleared starting in the northern section of the site near the swim buoys south to within 20' of the northern tip of the McDonald Pier. Suction harvesting was continued in 2003 with the removal of 47, 30-gallon barrels of milfoil. No management has occurred since 2004. In 2009, removed an estimated 5662 plants but a bed remains.

**West Brook Delta (M-8).** Dense and moderately dense areas of milfoil growth extended in a semicircle from the outlet of West Brook to the western end of the cement seawall, with some low density scattered plants. Numerous Curly-leaf Pondweed plants were also found. This is a heavy use area, which is highly disturbed due to sediment deposition. Eurasian watermilfoil was found in a band from 2 to 4 meters depth, on the delta formed where West Brook enters Lake George. In 1992 and 1993 benthic barrier was installed in this area; however groundwater and surface water flow negatively affected the stability of the benthic barrier. Barrier material was also frequently damaged as a result of boat anchors. Slope is moderately steep, with sediment grading from sand in the shallows to deep organic silt beyond 5 meters. Native plant growth was also extensive. In each of the years between 2001 & 2005 Eurasian watermilfoil was also observed in scattered patches around a shallow-water buoy adjacent to the established bed. In 2006, 31 panels of benthic barrier were installed. In 2007, an additional 72 panels of benthic barrier were installed and 39 plants were hand harvested around older panels to clear the site. Due to re-growth of scattered plants and several of the installed panels being disturbed by boat anchors, significant growth was noted at the beginning of 2008. 14 panels were installed,



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

existing panels were repositioned where needed, and 27 plants were hand harvested around the perimeter of the installed panels to clear the site. In 2009, 4 panels were installed on a watermilfoil bed but later removed by AE when they extracted all 121 panels from this site. This site was cleared in 2009.

**Million Dollar Beach (M-9).** This site had a string of scattered plants between East and West Brook deltas. The plants were located on the deep edge of a public swimming beach with the majority of plants located nearer to West Brook. Sediments grade from sand on the beach, to rock and silt on the steep slope beyond the beach. The slope at this site restricts the potential growth of Eurasian watermilfoil. Hand harvesting has been conducted on a regular basis at this site with 198 plants removed to clear the site in 1996. The management here appears to have been effective, as less than 10 plants have been removed from this site in each of the last four survey years. A single milfoil plant was located and removed in 2001. No plants were found in 2002, 2003, 2004 or 2005. This site was not visited in 2006 or 2007. This site was surveyed in 2008 and no plants were found. In 2009, nine plants were hand harvested to clear the site.

**East Brook Delta (M-10).** There was a moderately large dense bed, which was covered with benthic barrier material in 1992-3. An area of moderate to low density scattered plants surrounded the bottom barrier material, requiring further effort to control. Barrier material was also frequently damaged as a result of boats anchoring in this area. As with West Brook Delta, the Eurasian watermilfoil was found in a band from 2 to 4 meters of depth, on the delta formed by the drainage of East Brook into Lake George. Curly-leaf Pondweed was also found at this site. Sediments grade from sand in the shallow areas, to thick organic silts in deeper areas. Native plant growth was also extensive. The site is adjacent to Million Dollar public swimming beach. In 1996, slits were cut in the mat to vent gases and the general condition of the mat was good. Several panels of benthic barrier were relocated at this site and hand harvesting conducted to complete management. Frequent maintenance visits (annual) to this location are recommended. Hand harvesting of Eurasian watermilfoil plants and routine maintenance of the benthic barrier here appears to keep the site under control. Hand harvesting removed 189 plants here in 1997, 67 plants in 1998, 117 in 1999 and 20 in 2000. No milfoil plants were found at this location in 2001, 2002 or 2003. Twenty panels of Palco® were removed from this site in 2002. Approximately 100 pieces of rebar (weights for Palco®) were recovered and relocated to M98 in 2003. This site remained free of milfoil in 2004. In 2005 a small patch was cleared very near site M-9. In 2006, a total of 255 plants were removed by hand harvesting. Milfoil was scattered widely throughout the site mixed with native species. A single plant was found and removed in 2007 to clear the site. 19 plants were removed to clear the site in 2008. In 2009, 32 plants were hand harvested to clear the site.

**Warner Bay, South End (M-11).** The entire southern, inner bay has had very low-density scattered milfoil growth. The slope in this area is flat and the bottom is highly organic silt. Water transparency in the bay tends to be less than average for Lake George. This site also supports Northern Milfoil, *M. sibiricum* (formerly taxonomically classified as *M. exalbescens*), so care should be taken in identifying the extent of Eurasian



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

watermilfoil. Warner Bay is an area of intense boating activity, but does have a restrictive speed limit. This area was cleared of milfoil in 1991 through a combination of hand and suction harvesting. Scattered milfoil plants were harvested in 1993, and 1995 through 2001. Scattered milfoil growth will require continued maintenance. In 2002, twenty-seven plants were hand-harvested to clear the site. In 2003, 40 plants were removed to clear the site. In 2004 six plants were removed to clear the site. No plants were found in 2005. In 2006, 22 plants were removed and 38 plants removed in 2007 and 2008. In 2009, five plants were hand harvested to clear the site.

**Lake George Outlet (M-12).** Several beds were identified within the outlet area in 1998, and remain largely unchanged through the 2003 survey. The survey also indicated an overall low-density of scattered plants throughout the outlet region, between the natural dam (end of lake) and the end of navigation. The highest concentration of milfoil growth is found along the east shore. Since *M. sibiricum* is also found at this site, special care is indicated in evaluating the extent of Eurasian watermilfoil. Water clarity is very poor making survey work difficult. Given the shallow, silty nature of the outlet area, it is an ideal location for the spread of Eurasian watermilfoil. No management activities have occurred here due to site conditions. In 2009, a bed of watermilfoil was observed at this site, but it was not managed.

**Mossy Point Boat Launch (M-13).** The NYSDEC boat launch facility had dense beds around the southern docks, with moderate density areas in the launch ramp. Eurasian watermilfoil plants were also scattered at the fringes and into an adjacent wetland. The bottom becomes very rocky out from the boat launch facility, restricting the expansion of the milfoil population. The slope in this area was slight, and the bottom very silty around the dock facility and wetland. Water clarity here tends to be lower than average for Lake George. This site has heavy boat traffic due to the boat launch facility and proximity to the navigable channel to the outlet region. Benthic barrier material was installed over the milfoil bed areas at this site in 1990. Barrier removal and hand harvesting was done in the year following the barrier installation. Scattered plants were found in follow up surveys in 1996 with high-density growth on the fringes of the adjacent wetland. A small bed was observed in front of the pump-out station in 1998, and a larger bed near the mouth of the marsh, to the southeastern end of the boat launch area. Low densities of scattered plants were found within the launch area as well. Surveys in 1999-2003 did not reveal any new locations of milfoil in this area, or any notable change in size of the existing populations. Water clarity was particularly poor in 2003 reducing visibility to <1' at time of survey. In the years 2004-2007 a moderate bed was observed in a boat slip, however due to site conditions no management occurred. In 2008, an experimental installation of 2 panels was conducted here. Panels were installed between the docks in ca. 4-5 feet of water. Visibility was near zero. Approximately half of the bed between the docks was covered. In 2009, 746 plants were hand harvested from a bed of watermilfoil. After hand harvesting, a moderate stand remained at this site. Additionally, two panels were removed. No panels remain at this site.

**Harris Bay - Happy Family Islands (M-14).** A small bed in mid-channel and numerous scattered plants in the marina were originally observed in 1988. *Myriophyllum*



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

*alterniflorum*, currently considered a rare plant in New York State, was also found at this location. Slope is shallow, and bottom sediments are silty. A moderate amount of boat traffic occurs in this area as a result of the adjacent marina, but boat speed is restricted. Benthic barrier material was installed over the small bed in 1990, and a portion removed in 1993. The remainder of the benthic barrier was removed in 1997. Hand harvesting in 1997 removed 32 plants scattered over the area. No milfoil plants have been found here since 1997. In 2003 a small, isolated patch of 68 plants was removed to clear the site. In 2004 another small isolated patch was cleared of 71 plants. In 2005 a small bed was located just southeast of established site boundary. No management occurred at this site in 2005, 2006 or 2007. In 2008, no plants were found here. The site was completely barren of any plants (including natives). For 2008, the site is considered clear. However, unexplained loss of beds typically is not lasting and it is anticipated that plants will return here. In 2009, this site remained free of milfoil.

**Sawmill Bay - Outflow of Finkel Brook (M-15).** This was one area of moderately dense scattered plants of limited aerial extent. The slope is flat, with sediments grading from sand in the shallows to silt in deeper water. The plants were growing on the edge of the delta formed by the inflow of Finkle Brook to Lake George. All of the Eurasian watermilfoil at this site was removed as part of hand harvesting operations from 1989 to the present. No plants were found in 2003 or 2004. In 2005, 15 plants were cleared. In 2006, 36 plants were removed. This site was cleared of 36 plants in 2007. In 2008, 25 plants were picked to clear this site. Large, submerged mats of filamentous algae were noted in 2008. In 2009, 54 plants were hand harvested to clear this site.

**Middleworth Bay (M-16).** Low to moderate density scattered Eurasian watermilfoil was found in both arms of this bay, in association with an unusually dense growth of native plants. The southern arm of this bay had the largest amount of milfoil. Bottom slope is flat, with a silt bottom. Curly-leaf Pondweed was observed in the north arm of the bay. The south arm of the bay was cleared of milfoil in 1991 through hand and suction harvesting. Surveys in 1995 found a large number of scattered milfoil plants in the south arm of the bay around the docks of a marina, requiring future management. In 1996, this scattered population had grown to bed density. By 1998, the milfoil in the southern arm had become a moderately sized, oval-shaped bed along the southeast shoreline, extending throughout the small marina on this side of the bay. No management occurred at this location in 2001. In 2002, a small number of plants were hand-harvested before a decision was made to use an alternate management technique (i.e., benthic barrier). In 2007 very few plants were found and the site was cleared of 26 plants. In 2008, milfoil densities were again moderate-to-dense. Five panels were installed and 238 plants were removed by hand harvesting. This site remains scattered. In 2009, 38 plants were removed by hand harvesting to clear this site.

**Echo Bay - East End (M-17).** Scattered Eurasian watermilfoil was observed at this location in the 1991 survey, after not being found in 1989. The majority of plants were found at the eastern end of the bay around and adjacent to a marina. This area is unusually silty, and supports large growths of benthic filamentous algae. Some low-density scattered plants were found in shallow water, in the interior portion of the bay in



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

1988. Plants were removed by hand harvesting in 1991, 1993, and 1995 to present, with a substantial number of plants being removed each year. *Potamogeton crispus* is also found here among the extremely diverse flora. In 2001 this site was noted as having potential for dense aquatic plant growth (Eichler & Boylen 2001). In 2002 a total of 2004 plants were hand-harvested in three days of effort. Extensive milfoil growth remains at the conclusion of 2002 season. A proposed dredging operation (by residents) for 2002 or 2003 could aid in milfoil control at this site. This site was not managed in 2003-2008 and extensive milfoil remains, particularly in the easternmost (shallow) sections. In 2009, a moderate stand of watermilfoil was observed at this site, but it was not managed.

**Hague Boat Launch (M-18).** The area of Eurasian watermilfoil growth is restricted to the boat launch, where the bottom is silty. Low-to-moderate density scattered Eurasian watermilfoil and Curly-leaf Pondweed were observed. The boat launch also supports a dense, near-nuisance growth of native plants and filamentous algae. This site may be considered suitable for suction harvesting given proper safety controls for the boat launch area. No management occurred at this site through 2001, due to the intensity of boat traffic. In 2002, 12 plants were hand-harvested to clear the site. Earlier in 2002 a dredging operation substantially reduced the milfoil density here. In 2003, 167 plants were removed to clear the site. Annual monitoring is suggested for this site. In 2004 extensive plant growth (natives, *P. crispus* and *M. spicatum*) was noted. A total of 179 plants were pulled to clear the site of milfoil. No management occurred here in 2005. In 2006, only six plants were found and the site was cleared of milfoil. No management occurred in 2007. In 2008, milfoil densities were down and an attempt to manage with hand harvesting was made. 408 plants were removed in 2008. However, busy use of this launch forced us to abandon the site and work more efficiently elsewhere. It remains a moderate site. In 2009, nineteen panels were installed to cover a bed of watermilfoil. It remains a moderate site. Additionally, nineteen panels were removed from the site.

**Dunham's Bay (M-19).** The inner bay has had Eurasian watermilfoil growth to 4 meters of depth. Scattered plants of low to moderate density occurred from the former bed site towards the wetland, and in shallow water throughout the inner bay. This is one location in which the LGPC installed benthic barrier in 1986 over a dense bed of milfoil. The slope is uniformly gentle, with a bottom of predominantly silty material. Water clarity is reduced by the wetland drainage. Boat traffic is moderately heavy at this site. A moderate sized bed has developed adjacent to the matted area on the eastern side, just inside the reduced speed zone. Scattered growth of Eurasian watermilfoil to the northwest of the bridge has been removed annually via hand harvesting. Moderate density growth of milfoil is found to the west of the barrier material, with sediment buildup on the barrier supporting a number of milfoil plants as well. In 2005, 38 panels were installed to cover ca. half of the bed. In 2006, 127 panels of barrier were installed. In 2007, 978 plants were removed and 73 panels were installed. In 2008, 1684 plants were hand harvested and two panels installed to clear the site. In 2009, 1759 plants were removed by hand harvesting to clear the site. Additionally, 75 panels were removed from the site.

**Huddle Bay (M-20).** Currently the largest milfoil beds in Lake George, the two beds in Huddle Bay are located along the eastern portion of the bay in water depth of from 1 to 4



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

meters. They are separated by an area mainly consisting of the native *Potamogeton amplifolius*. Extensive areas of moderate to low density scattered Eurasian watermilfoil plants occurred throughout the eastern half of the bay, and in deeper water (5 to 6 meters) past Hiawatha Island. The populations at this site have changed little since 1988. Slope is slight, with deep silty substrates in water depths greater than 2 meters. Extensive benthic barrier work was conducted in 2004. A total of 14,100 square feet of Palco® pond liner was installed. In 2005, 20 panels of barrier were removed and 16 panels were installed. Additionally, a bed adjacent to M-20 was noted. This bed is on the west side of Huddle Bay and is ca. 50' wide by 350' long. In this report, this bed is considered part of the existing M-20 site. In 2006, 57 panels of barrier were installed to cover the bed on the west side of Huddle Bay and 208 plants were removed. No plants were harvested, but the older panels were managed in 2007. No management occurred at this site in 2008. In 2009, a bed of watermilfoil was observed at this site, and later cleared by AIM with an estimated 72,065 plants removed. Additionally, 65 panels were removed from the site by Lycott and the remaining 28.5 panels by AIM.

**Sheriff Dock Area (M-21).** This former bed area was reduced to a zone of moderate density scattered plants, in the zone of water deeper than the benthic mats installed by the LGPC in 1986. Further expansion is restricted by depth; however a zone of dense milfoil growth at the deep margins of the benthic barrier is now evident possibly growing on accumulated silt at the margins of the barrier. Scattered and moderate density plants were found around both benthic mats in shallower waters. Inspection of the mat in 1995 revealed substantial silt deposits on the surface of the mat, particularly at the end nearest the effluent of the Sheriff's Dock storm sewer. Scattered plants were also found growing on the surface of the mats and in seams of the barrier material. The mat material was also showing signs of deterioration with large sections removed when new docks were installed. Curly-leaf Pondweed was also found at this site. Slope is moderately steep, with bottom sediments generally sand and silt. This area has extremely high traffic, but also has a restricted speed limit. Recent surveys (1999-2007) indicate a large bed of Eurasian watermilfoil stretching from the pump station on Beach Road to the pier at Shepard's Park. 2.3 acres of benthic barrier were installed at this site in 1986. No management occurred at this site in 2008. In 2009, a bed of watermilfoil was observed at this site, and later managed by AIM. AIM removed an estimated 16,788 plants, but a bed remains.

**Shadow Bay (M-22).** Initial surveys in 1989 found this bay almost entirely filled by a Eurasian watermilfoil dense bed, with few scattered plants. Being a quiet, sheltered area, it is one site at which Eurasian watermilfoil flowers and fruits have been observed. Curly-leaf Pondweed was also observed. Slope is moderately flat, with bottom sediments predominantly silt. The dense bed at this site was covered with benthic barrier material in 1990. Hand harvesting has continued, on an annual basis, since the removal of the bottom barrier (1991). A large number of milfoil plants (393) were removed at this site in 1998. The repeated visits in 1998 appear to have had an influence on the population here, because in 1999 only 39 plants were removed and less than 10 have been removed annually since. No plants were found at this site in 2002. In 2003, 2004 and 2005, 6, 9, and 28 plants respectively were removed. In 2006, 8 plants were removed and in 2007 36



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

plants were removed and a single panel installed to clear the site. In 2008, 2 plants were harvested to clear the site. In 2009, this site remained free of milfoil.

**Lake George Yacht Club (M-23).** This site had low to moderate density scattered plants among the docks, with little or no vegetation found beyond the dock area. Curly-leaf Pondweed was also observed in moderate densities. This area has heavy boat traffic. Slope is moderately steep, with variable bottom sediments. The dense milfoil growth at this site was covered with benthic barrier and the scattered plants were hand-harvested in 1990 - 1993. Hand harvesting of this site was discontinued in 1993 and substantial regrowth has occurred. Moderate to dense growth of milfoil is now found in the swim area. In 2000, suction and hand harvesting were conducted at this location, with a significant reduction in milfoil growth. In 2001, hand harvesting reduced milfoil growth at this site with the removal of 347 milfoil plants. Maintenance via hand harvesting at this location is critical to maintaining limited milfoil growth. In 2002, a total of 89 plants were hand-harvested to clear the site. Extensive *P. crispus* growth along with fairly dense filamentous algae was noted. In 2003, a total of 199 plants were removed in two visits. By late August (after initial visit) several plants were seen growing under docked boats and throughout slips. There is extensive vegetation growth here and smaller milfoil plants were likely not visible during the first visit. In 2004 this site was cleared of 27 plants. In 2005, 63 plants were removed. In 2006, 26 plants were removed to clear the site. In 2007, 13 plants were harvested to clear the site. Three plants were pulled in 2008 to clear the site. In 2009, seven plants were removed by hand harvesting to clear this site.

**NW Bay - Bay Between Fan and Bear Point (M-24).** This small bay currently has low, moderate and dense growth areas of Eurasian watermilfoil. Scattered growth of Curly-leaf Pondweed was also observed. Slope is moderately flat, with highly variable bottom sediments from rocks to silt. The bottom also has numerous logs and other bottom obstructions. All of the Eurasian watermilfoil was removed from this site as part of the 1989 and 1990 hand harvesting project. Intermittent hand-harvesting efforts since that time have not kept this site in control. By 1998, this site had become a large bed. The 2000 survey observed expansion to the north and western edges of the bed. Density levels now suggest more intensive management efforts. In 2001, surveys indicated a decline in milfoil growth at this site, with several areas of moderate density growth and scattered growth throughout this small bay. A similar status was noted for 2002-2007. Decline of milfoil populations in Lake George, not attributable to management efforts, are rare and additional inspections of this location are warranted. This site was formerly a research site for DFWI. There remains a bed at this site, though it has 'moved' slightly into deeper waters than the original bed. In 2008, 674 plants were harvested and 24 panels were installed to clear the site. In 2009, three panels were installed and 763 plants were hand harvested to clear a bed of watermilfoil from this site.

**Basin Bay - North tributary (M-25).** Scattered plants of Eurasian watermilfoil were found as a result of the survey, along with numerous Curly-leaf Pondweed plants. Plants were found on the delta formed by the inflow of an unnamed brook. The slope was moderately flat out to 4 meters depth, at which point the slope increased greatly. Bottom sediments graded from sand to silt. Eurasian watermilfoil was removed from this site as



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

part of the 1989-90 hand-harvesting project. Harvesting continued through 2003, maintaining milfoil populations at a low level. In 1997, 629 plants were removed with an additional 63 plants removed in 1998. Hand-harvesting techniques appear to have been effective here with 31 plants removed in 1999, 3 in 2000 and 10 in 2001. No plants were found in 2002, 2003, 2005. This site was not visited in 2006 or 2007. In 2008, 46 plants were pulled to clear the site. In 2009, four panels were installed and 39 plants were hand harvested to clear the site.

**Bay SW of Cannon Point (M-26).** This is a small bay with a moderate size bed of Eurasian watermilfoil and an additional area of moderate density scattered plants that is substantially larger than the area of the bed. An abundant population of Curly-leaf Pondweed was also found. A few individuals of *M. alterniflorum* were also found. Slope is moderately flat, with a silty bottom. Some boat traffic occurs in this area as a result of a sailboat mooring area, and docks for a condominium complex constitute the activities using this site. Benthic barrier material was installed over the milfoil bed at this site in 1990 and limited suction harvesting conducted in a portion of the moderate density areas. Barrier was removed in 1991 and without maintenance activities, substantial regrowth of *P. crispus* and Eurasian watermilfoil has occurred since that time. No management occurred at this site between the years of 1999 and 2003. In 2004, 9,600 square feet of Palco® pond liner was installed. In 2005, 32 panels were removed and 20 panels were installed to cover remaining bed. Additionally, 37 plants were hand pulled. Scattered plants remain between the shore and panels. In 2006, 1044 plants were hand pulled and an additional 10 panels of barrier were installed. In 2007, 1463 plants were removed to clear the site. In 2008, 443 plants were pulled by hand and two panels were added to the existing coverage to clear the site. In 2009, 4 panels were installed and 1345 plants were pulled to clear a bed from this site. Additionally, 41 panels were removed from the site.

**Bay NW of Cooper Point (M-27).** Scattered plants were found near the docks of a marina, at the north end of the bay and in the southwest corner of the bay adjacent to the seawall. An area of low growing moderately dense plants was also observed in the wetlands at the northern end. Eurasian watermilfoil was removed from this site as part of the 1989, 1990, 1993, 1995 and 1996 hand harvesting projects. The short stature of the plants in the wetland area and the shallow depth (0.5 meters) make hand harvesting of plants in this location difficult. A small area of dense growth was observed in 1996, and continued to flourish through 1999. Intensive hand harvesting in 2000 removed 440 milfoil plants, effectively clearing this site of milfoil. A single milfoil plant was removed in 2001. Slope is flat, and the bottom is silty. In 2002 plant count had returned to previous levels; 386 plants were removed to clear the site. In 2003, 134 plants were removed to clear the site. In 2004, 43 plants were harvested to clear the site and in 2005, 5 plants were cleared. In 2006, 6 plants were pulled to clear the site and in 2007, 8 plants were removed to clear the site. In 2008, 17 plants were harvested to clear the site. In 2009, nine plants were pulled to clear the site.

**Bay S of Hearthstone (M-28).** The only Eurasian watermilfoil shoot found was removed for a voucher specimen in 1987 during the tributary survey, just to the north of the beach area. No Eurasian watermilfoil has been found since that date. The bottom was



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

moderately steep, with sediments grading from sand to silt. This site was not visited in 2006-2009.

**Bay NE of Tea Is (M-29).** Moderate density Eurasian watermilfoil is found near and to the north of the tributary outlet. A few low-density scattered Eurasian watermilfoil plants were also found among an extensive area of Curly-leaf Pondweed. Slope is moderately steep, with sediments grading from sand to silt. Suction harvesting was used to manage the milfoil at this site in 1990, with hand harvesting conducted in 1991 and 1992. No maintenance occurred between 1992 and 1995. Moderate density growth required intensive hand harvesting in 1996. The site was cleared of 25 plants via hand harvesting in 1997, 17 in 1998, 6 in 1999 and none were found in 2000. A single milfoil plant was removed in 2001, none were found since. This site was not visited in 2006 or 2007. In 2008 the site was visited, but no plants were found. In 2009, this site remained free of milfoil.

**North Tea Is Bay (M-30).** A large area of moderate to high-density plants was found around the periphery of this bay, in 1 to 4 meters of water. A dense bed had formed in 2-3 meters water depth. A significant amount of Curly-leaf Pondweed was also present. The bottom is generally silty with a flat slope. No management has occurred at this site; however the large area of dense milfoil growth suggests an intensive management strategy. If sufficient benthic barrier can be obtained (e.g., ca. one acre) this bed can likely be covered. However, due to high boat traffic the barrier would be expected to sustain some damage by anchored boats. In 2004, 13,200 square feet of Palco® pond liner were installed. In 2005, 43 panels were removed, 47 panels were installed to cover the remaining bed and 52 plants were hand pulled. Scattered plants remain within the hotel boat slips in very shallow water. 687 plants were harvested in 2006, however there remains a small but dense bed in very shallow water in the NW section of the cove near and within the boat docks. In 2007, 36 panels were installed and 63 plants harvested to reduce the site. In 2008, it was noted that dense bed has reinvaded the shallower parts of the cove. This site is once again a bed site. In 2009, a bed of watermilfoil was observed at this site and later cleared by AIM with an estimated 3,190 plants removed.

**English Brook (M-31).** A limited area of low density scattered Eurasian watermilfoil plants were found south of the delta. However, all of the Eurasian watermilfoil was removed from this site as part of the 1989 and 1990 hand harvesting projects. In 1993, scattered milfoil plants were cleared from this area, however, a small area of moderate density growth of milfoil plants was found at this time. Sediments grade from sand to silt, with a moderately flat slope. This area is in a zone of heavy boat traffic. From 1995 through 1996, the scattered plants were removed by hand harvesting, however the moderate density area was only reduced in density. Hand harvesting removed 84 plants to clear this site in 1997. No plants were found here between 1998 and 2001. In 2002, five plants were removed by hand-harvesting to clear the site. None have been found since 2002. This site was not visited in 2006-2009.

**Crosbyside Culvert (M-32).** A single Eurasian watermilfoil shoot was harvested for a voucher specimen in 1987. No Eurasian watermilfoil was found in 1989 or 1990. During



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

the 1991 tributary survey scattered milfoil plants were discovered at this site and harvested. The plants were growing to 5m depth directly in front of Usher's Park beach and in front of a white boathouse to the south of the beach. Twelve milfoil plants were found and removed in 1995 and an additional four removed in 1996. No milfoil plants have been found here since. The slope is moderately steep, and sediment is sand and silt. This site was not visited in 2006 or 2007. This site was visited in 2008, no plants were found. In 2009, two plants were removed by hand harvesting to clear the site.

**South of Plum Point (M-33).** The bottom is predominantly sand and cobble with a moderately flat slope. Eurasian watermilfoil plants were removed for voucher specimens in 1987; none had been sighted since then through 2002. In 2003 five plants were cleared from the site, in 2004 a single plant was removed. None were found in 2005-2008. In 2009, this site remained free of milfoil.

**Bay Between Plum Point and Woods Point (M-34).** The slope is moderately steep, with a sandy bottom. Low density scattered Eurasian watermilfoil plants along the shore north of the stream in 1987 were removed for voucher specimens. Eurasian watermilfoil was not sighted in 1989 or 1990, but 2 additional plants were removed during the 1993 and 1995 surveys. No milfoil was found at this site in 1996 or 1997, and one plant was removed in 1998, and 2 in 1999. No milfoil was found at this site in 2000 or 2001. In 2002, two plants were removed to clear the site. No plants were found in 2003-2005. This site was not visited in 2006 or 2007. This site was visited in 2008, but no plants were found. In 2009, this site remained free of milfoil.

**NW Bay - Bay South of Fan Point (M-35).** All Eurasian watermilfoil stems found were harvested for voucher specimens in 1987. No plants were found in 1989; however, a single plant was found and removed as a voucher specimen in 1990, and 2 plants were removed in 1992. No milfoil was observed at this site in 1995; however, a single plant was found and removed in 1996 as well as in 1997. Four milfoil plants were harvested in 1998, 2 in 1999 and none were found here in 2000, 2001 or 2002. Two plants were found in 2003, none in 2004 or 2005. This steep and rocky site is an unlikely Eurasian watermilfoil site. This site was not visited in 2006 or 2007. In 2008, 564 plants were found and harvested to once again clear the site. In 2009, 204 plants were removed by hand harvesting to clear the site.

**Bay E of Dark Bay (M-36).** An area of low density scattered Eurasian watermilfoil plants were found on the eastern side of the bay in 1988. In 1989, a small bed within a boat slip, as well as a few scattered plants was observed. This steep slope site has a sandy/rocky bottom. The scattered plants at this site were removed by hand harvesting in 1989 and 1990. The small bed was covered with benthic barrier in 1990. Hand harvesting at this site has continued since the removal of the benthic barrier with only limited regrowth observed until 1997, when a substantial number of plants (190) were removed from the boat slip. Moderate growth occurred in 1998 as well with 129 plants removed, almost entirely from the boat slip. Ninety-six plants were removed from the boat slip area in 1999 and 35 in 2000. No milfoil was found at this site in 2001. In 2002 and 2003, 117 and 223 plants respectively were hand-harvested to clear the site. Sixty-four plants were



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

removed in 2004. In 2005, 3 panels of benthic barrier were installed to cover ca. 200 plants scattered throughout the boat slip. In 2006 only 6 plants were harvested to clear the site. No plants were found in 2007. In 2008, 12 plants were cleared from the site. In 2009, six plants were pulled to clear the site.

**South Warner Bay culvert (M-37).** The entire southern, inner bay has had very low-density scattered milfoil growth. The slope in this area is flat and the bottom is highly organic silt. Water transparency in the bay tends to be less than average for Lake George. This site also supports Northern Milfoil, *M. sibiricum* (formerly taxonomically classified as *M. exalbensis*), so care should be taken in identifying the extent of Eurasian watermilfoil. Warner Bay is an area of intense boating activity, but does have a restrictive speed limit. Management in this site prior to 2002 included hand and suction harvesting (see sites M-11 and M-38). In 2002, this site was cleared by hand harvesting of 40 plants. In 2003 this site (along with M-38) was found to be moderately populated with milfoil throughout the eastern side of the bay and merging with site M-38. No management occurred here since 2002. In 2008, 14 plants were hand picked to once again clear the site. This is another site where dense growth was lost between 2007 and 2008 for reasons other than management practices. In 2009, this site remained free of milfoil.

**North Warner Bay Culvert (M-38).** In 1990 this site was suction harvested, and in 1991 the area was hand harvested. Due to the dense growth of native macrophytes and the presence of native watermilfoil, not all of the Eurasian watermilfoil in the area was removed. In 1992 this site was surveyed and an area of moderately scattered plants was discovered. In 1993, this site was upgraded to its current description of moderate density growth of Eurasian watermilfoil. Continued hand harvesting from 1997 to present has cleared the milfoil plants in this area. The 2003 and 2004 surveys found extensive Eurasian watermilfoil growth beyond that feasible for hand harvesting. Either plants were overlooked in past surveys or this site has drastically increased in the abundance and distribution of milfoil recently. The slope at this site is flat and the sediment is deep, soft silt. Hand harvesting is no longer a viable management option here and the plants are too far spread and intermixed with native plants for benthic barrier placement. Substrate (deep silt) precludes the use suction harvesting. In short, physical management appears to be impractical here. In 2008, only 27 plants were located and picked to clear the site. See also site M-37 data. In 2009, seven plants were pulled to clear the site.

**South Katskill Bay (M-39).** Eurasian watermilfoil was found in 1 meter of depth, behind a boathouse in an area of lily pads on the southern shore. Slope is moderately flat, with a mixture of sand and silt substrates. All of the Eurasian watermilfoil was removed from this site as part of the 1989 and 1990 hand harvesting project. Several plants have been taken from this site in subsequent years although none were found in 1995 and very few plants have been removed since that time, with 12 removed in 1999. A single milfoil plant was removed from this site in the 2000 survey. Twenty-seven milfoil plants were removed by hand harvesting in 2001 and 36 were removed in 2002. In 2003, 22 plants were harvested. Seventy-nine plants were removed in 2004 and 77 in 2005 clearing the site each time. In 2006, 72 plants were pulled to clear the site. In 2007, the site was



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

cleared of 29 plants. In 2008, 24 plants were pulled to clear this site. In 2009, seven plants were removed by hand harvesting to clear the site.

**Bay South of Red Rock Bay (M-40).** There was a small area of low density scattered Eurasian watermilfoil plants. A moderately dense area of Curly-leaf Pondweed was also found amongst a highly diverse community of native plants. Slope is flat, with an organic silt substrate. The Eurasian watermilfoil was removed from this site as part of the 1989 and 1990 hand harvesting project. Hand harvesting has continued during the recent revisits with three milfoil plants removed in 1995 and 5 in 1996 and 1997. The milfoil population appears to have surged here in 1998, with 151 plants removed to clear the area, 105 in 1999, 93 in 2000, 32 in 2001 and 4 in 2002. This patch was found near the northeastern point at the base of a rock pile. No plants were found in 2003. In 2004 a single plant was found and removed. No plants were found in 2005. In 2006, 9 plants were pulled to clear the site. In 2007, only 3 plants were found and removed. No plants were found in 2008. In 2009, this site remained free of milfoil.

**Paradise Bay (M-41).** There was a moderate-sized area of low-density scattered plants in the northern arm of the bay. Eurasian watermilfoil was found at depths of from 1 to 4 meters. The native plant community appears disturbed. This area receives heavy boat traffic. Slope is moderately flat, with a silty substrate. Eurasian watermilfoil was removed from this site as part of the 1989 and 1990 hand harvesting project. Hand harvesting continued at this site until 1992. Since 1993, no maintenance has occurred and growth of milfoil has grown to large areas of heavy to moderate bed growth on the southeast shore. Moderate to scattered density of plants on the southwestern shore are also found within this enclosed bay. In 2008, 21 panels were installed on the southernmost bed. Scattered plants remain around this bed and the northernmost bed in this bay remains unmanaged at this time. In 2009, eleven panels were installed and 143 plants were hand harvested to clear a bed from the site.

**Bolton Bay (M-42).** A small area of low density scattered Eurasian watermilfoil plants had been found at this site, but all the plants were collected for voucher specimens in 1987. No Eurasian watermilfoil was observed in 1989; however, several hundred plants were removed by hand harvesting 1993. In 1995, 251 milfoil plants were removed to clear this location. An additional 40 plants were removed in 1996. By 1997, the population had increased to 210 hand harvested plants. In 1998, a small bed of moderate density of milfoil plants was found on the southern tip of the point south of the Bixby boathouse. A total of 1,148 plants were hand harvested from this new location, in 2-4 meters of water on a steep slope of soft silt, amongst large boulders and deadfalls. This site is adjacent to a small tributary south of Bixby Point. The 1999 survey removed 114 plants, primarily from this new location. This site remained clear of milfoil in 2000-2004. In 2005, 6 plants were removed. No plants were found in 2006 or 2007. In 2008, 8 plants were hand picked to clear this site. In 2009, this site remained free of milfoil.

**Bolton Bay (M-43).** A small area of low-density scattered Eurasian watermilfoil plants was found around a submerged dock crib at the foot of Mohican Road. The sediment here is a mixture of rock and silt, with sand in shallow areas, the slope is moderately flat.



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

Eurasian watermilfoil was removed from this site as part of the 1989 and 1990 hand harvesting project. In 1993, over 300 milfoil plants were removed by hand harvesting at this site. In 1995, all milfoil plants found (58) were removed. In 1996, an additional 91 milfoil plants were harvested to clear this location. In 1997, 67 milfoil plants were found scattered across the bay. A total of 94 milfoil plants were removed in 1998, and 93 in 1999. Two milfoil plants were removed from this location in 2000 and 2001. No plants were found in 2002 or 2003. Twenty-four plants were found and removed in 2004 and 18 in 2005. In 2006, 99 plants were pulled to clear the site. In 2007, 15 plants were removed to clear the site. 46 plants were pulled to clear this site 2008. In 2009, 31 plants were pulled to clear this site.

**Bolton Bay - NE of Bridge (M-44).** This site was found in 1988; the area has a small dense bed. The bottom is silty, grading to sand in the boat channel. The site experiences heavy boat traffic under the adjacent bridge. The milfoil at this site was managed via suction harvesting in 1990. Hand harvesting was conducted in 1992, however moderately dense growth of Eurasian watermilfoil was reported for this site in 1993. In 1995, this site remained a small moderately dense growth area of milfoil. Suction harvesting was employed to clear this site in 1996, with hand harvesting included as a follow-up measure. A total of 117 plants were hand harvested to clear the site in 1997. When visited in 1998, only 4 plants were found and removed, and 2 in 1999 and 2000. Five milfoil plants were harvested in 2001 and another 8 in 2002. None were found in 2003, however 22 plants were removed in 2004 and 48 in 2005. In 2006, 9 plants were pulled to clear the site. In 2007, only 2 plants were removed to clear the site. Five plants were pulled in 2008 to clear the site. In 2009, this site remained free of milfoil.

**Tiroga Point Channel (M-45).** Scattered Eurasian watermilfoil plants were observed throughout the channel, increasing to a moderate density near the southern end along with *M. verticillatum*, a native milfoil, in this shallow man-made channel, draining a wetland. The depth was 1-2 meters, with a bottom consisting of organic silt. No management has occurred at this site. Water clarity and quality in this channel is much poorer than the norm for Lake George and precludes physical management techniques. In 2009, a moderate stand of watermilfoil was observed at this site, but it was not managed.

**Leotine Island (M-46).** A few Eurasian watermilfoil plants were found on the reef to the east of Leotine Island in 1989, and all plants were removed. In 1990, five plants were found along the shoreline near the southern end of the reef. The plants were removed as voucher specimens. In 1993, 255 plants were removed by hand from this site. A small number (19) of milfoil plants were found and removed in 1995. The slope is moderately steep, with a rocky bottom. In 1996, several small dense patches of milfoil were found and removed from areas adjacent to anchors for navigation markers on this reef. Hand harvesting in 1997 removed nearly 400 plants, but the population was only reduced. The survey in 1998 found a small dense bed near the southern navigation marker, and hand harvesting removed nearly 650 plants scattered throughout the rest of that rocky area. The 1999 survey removed 122 plants from the outer perimeter of the bed and northward along the shoal. In 2000 and 2001, a combination of benthic barrier, suction and hand harvesting was employed at this location. A total of 5,425 ft<sup>2</sup> of Palco<sup>®</sup> pond liner was



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

installed in 2000, and 1,575 ft<sup>2</sup> of Palco® pond liner in 2001. In 2002 a total of 1,020 plants were hand-harvested at this site. In 2003, 3,253 plants were hand-harvested and all benthic barrier panels were removed to clear this site for the first time. In 2004, only 309 plants were found and the site was cleared. In 2005, 815 plants were located with the majority of plants in an area not previously found to have high numbers. In 2006, 207 plants were pulled to clear the site and a single benthic barrier panels was installed. In 2007, 747 plants were found and removed to clear the site. In 2008, 1,051 plants were hand picked to clear the site. In 2009, 874 plants were removed by hand harvesting to clear the site.

**Smith Bay (M-47).** In 1988, a single plant of Eurasian watermilfoil was found and removed from this moderately sloping, silty bay. Moderately dense Curly-leaf Pondweed was found in 1989, but no Eurasian watermilfoil was observed. In 1990, a small area of moderate density growth of milfoil was observed with an outlying area of scattered plants. These plants were in depths of 3 to 4 meters. The milfoil was managed at this site in 1990 with suction harvesting. During follow up visits in 1993 and 1995, hand harvesting removed 33 and 157 milfoil plants, respectively. In 1996, 176 milfoil plants were removed, primarily along the southern shore of the bay in an area remote from that suction harvested in 1990. The 267 milfoil plants removed in 1997 and 255 in 1998 were scattered near the base of a steep drop off on the southeastern shore of the bay, about 5 meters deep. A few plants were also removed along the opposite shore on the northern side of the bay. A total of 127 plants were removed in 1999 and 142 in 2000, roughly from the same areas as described in 1998. In 2001, a total of 76 milfoil plants were removed from this site and in 2002, 29 plants were hand-harvested. Only two plants were found in 2003 and 8 in 2004. In 2005, 44 plants were found and removed. There is a very diverse population of native plants here, and heavy filamentous algae growth on the southern side of the bay. In 2006, 38 plants were pulled to clear the site. In 2007, 99 plants were removed to clear the site and in 2008, 43 plants were removed to clear the site. In 2009, four panels were installed and 192 plants were pulled to clear a bed of watermilfoil from the site.

**Gull Bay (M-48).** Numerous low-density scattered Eurasian watermilfoil plants were found off of the stream adjacent to the public beach in this bay. Curly-leaf Pondweed was also found at this location. During revisits to this site a small bed of Eurasian watermilfoil was found at the end of a “T” dock. The slope was moderately flat, the bottom grading from sand in the shallows to silt past 3 meters in depth. The Eurasian watermilfoil was managed at this site as part of the 1989 hand-harvesting project. In 1990, both hand and suction harvesting were used for plant management. A small moderate density patch and large area of scattered milfoil growth was observed in 1995. In 1997, three large areas of dense growth were observed. Two of these were near the speed restriction buoys at the mouth of the bay. The remaining bed was centrally located in the bay, though not near the area that was suction harvested in 1990. There appears to be a healthy *Potamogeton* population existing here as well. The 1999 survey removed 20 scattered plants from the mouth of a tributary at the foot of the bay, just to the north of the swim area. Sketches were drawn of the three existing beds in the central portion of the bay in 2000 and 2001. No management occurred here in 2002-2006. In 2007, 62



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

panels were installed and 1101 plants were hand harvested to reduce the site significantly. No management occurred at this site in 2008. Construction onshore seems to have resulted in very poor visibility within this bay. Panels were maintained, but no more were installed and no plants were hand picked. This site remains moderate. In 2009, a bed of watermilfoil was observed at this site, but it was not managed.

**South of Burnt Point (M-49).** A single specimen of Eurasian watermilfoil was found, and collected as a voucher specimen, in 1988. No additional Eurasian watermilfoil were found between 1989 and 2003. In 2004 a single plant was located and removed. None were found in 2005. The slope was moderate at this site, with a rocky bottom. No plants were found in 2006-2008. In 2009, twenty four plants were removed by hand harvesting to clear the site.

**Clark Hollow Bay Brook (M-50).** Scattered Eurasian watermilfoil plants were found in 2-3 meters depth parallel to the shoreline in 1989. The slope is moderately flat, with a bottom grading from sand in shallow water to silt in deeper water. All of the Eurasian watermilfoil was removed from this site as part of the 1989 and 1990 hand harvesting project, and during subsequent revisits. Five milfoil plants were removed in 1997. In 1998 a small patch of moderate density was found near a boathouse on the northern side, approximately 4 meters deep. A total of 191 milfoil plants were hand harvested to clear the site. In 1999, a small patch of milfoil was discovered off in deeper water to the north of the original location, thus 136 plants were harvested, but the site was not cleared at the completion of the survey. A small bed of milfoil was found 100 meters to the north of the current location in 2000. Limited hand harvesting (174 plants removed) was conducted. In 2001, 4,375 ft<sup>2</sup> of Palco<sup>®</sup> pond liner was installed. Significant future management efforts are necessary. In 2002, seventeen scattered plants were hand-harvested from the southern reaches of this site. Additionally, existing benthic barrier was maintained and nine panels (4,500 ft<sup>2</sup>) of Palco<sup>®</sup> were installed adjacent to existing mats. In 2003, a single panel of Palco<sup>®</sup> was placed and 250 plants were hand harvested. In 2004 we harvested 545 plants from the area below the mooring buoy and around the benthic barrier. In 2005, 293 plants were removed to clear the area. In 2006, 172 plants were pulled to clear the site. No management occurred at this site in 2007, although a bed was observed to have regrown on top of the existing panels at the tributary. No management occurred here in 2008, but a small, dense bed exists on top of existing panels at the delta from the small tributary. In 2009, a bed of watermilfoil was observed at this site, but it was not managed.

**Eichlerville Bay (M-51).** Moderate and low-density Eurasian watermilfoil plants were found at this site. The majority of plants were in two areas along the outer fringe of the delta, in depths of 3-4 meters. The bottom slope was gradual and sediments consisted mainly of silt with large amounts of detritus. Milfoil at this site was managed via suction harvesting in 1990, and hand harvesting in 1991 and 1992. Since that time, limited maintenance has occurred and the milfoil populations are similar to those observed in 1989, with an extensive area of dense growth of milfoil observed at the deep margin of the littoral zone. This site was formerly utilized by DFWI. In 2006 no management occurred here. In 2007, 38 panels were installed to clear this site for the first time. In



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

2008, 18 additional panels were installed and the site remains moderate. In 2009, a bed of watermilfoil was observed at this site, but it was not managed.

**Rogers Rock Park Beach (M-52).** Low density scattered Eurasian watermilfoil plants were found along the boat mooring line at the park, adjacent to the public swimming beach, and around the boat launch ramp. The slope at this site was flat, with a predominantly sandy substrate. The plants were restricted to depths of 1-2 meters. All of the Eurasian watermilfoil was removed from this site as part of the 1989 and 1990 hand harvesting project. No milfoil plants have been found at this site since that time. This site was not visited in 2006-2009.

**Southwest Tongue Mountain [Clay Bay] (M-53).** Numerous low-density scattered Eurasian watermilfoil plants are annually found in this small bay immediately to the south of the first-named West Tongue Mountain site (M-24). The bottom is composed of clay and silt surrounding numerous exposed boulders. Water clarity is unusually poor due to an eroding clay bank at this location. Slope is moderately flat. Eurasian watermilfoil has been removed from this site on an annual basis since 1989, with a minimal number of plants found and removed since that time. No milfoil was found at this location in 2001. Seven plants were removed in 2002 and a single plant in 2003 to clear the site. No plants were found in 2004, 10 plants were found in 2005. No plants were found in 2006. In 2007, 56 plants were found and removed to clear the site. In 2008, 379 plants were hand picked to clear the site. In 2009, three plants were pulled to clear the site.

**Cooks Bay, Hulett's Landing (M-54).** Nine milfoil plants were removed from this site in 1993, and a single Eurasian watermilfoil plant was found and collected in 1990. No Eurasian watermilfoil was found at this site in 1989. All milfoil plants were found in the northeast shore of the bay near a small tributary. The slope is gradual with sediment predominantly sand and silt. In 1995, 4 milfoil plants were found and removed. No Eurasian watermilfoil was found in 1996 or 1997. Four plants were removed near a red roof boathouse on the north side of the bay in 1998, and a single plant was found here in 1999. No milfoil was present at this location in 2000, 2001, 2002 or 2003. In 2004 two plants were removed, none were found in 2005. In 2006, a single plant was pulled as well as in 2007. In 2008, 6 plants were found and removed. In 2009, ten plants were removed by hand harvesting to clear the site.

**Indian Bay, Hulett's Landing (M-55).** Two Eurasian watermilfoil plants were found by a local resident, and sent to the Fresh Water Institute for identification in 1988. Slope in this bay is gradual with a silt/sand bottom adjacent to the tributary with a highly diverse native plant community. No Eurasian watermilfoil had been found since 1988 until 1998 when a single plant was removed, and an additional 4 in 1999. No milfoil were found in 1999-2004, in 2005 the site was cleared of 47 plants. In 2006, 57 plants were harvested. In 2007, 47 plants were pulled to clear the site. In 2008, 49 were hand picked to clear the site. In 2009, 68 plants were removed by hand harvesting to clear the site.

**South Sawmill Bay (M-56).** A large dense bed of Eurasian watermilfoil was found southeast of Veteran's Memorial Park in the middle of Sawmill Bay, in 3-5 meters water



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

depth. Adjacent areas of moderately dense and low-density scattered plants were also observed. Benthic barrier was installed in both 1991 and 1992; however considerable amounts of milfoil remain in the area predominantly to the east and north of the matted zone. In 1997 through 2001, barrier at this location was inspected and found to be in good condition with small quantities of silt present. The majority of benthic barrier material installed in 2001 (5950 ft<sup>2</sup>) has since been removed from this location. As of 2004 a dense bed remains adjacent to the previously managed area. No management occurred here in 2007. In 2008, 20 panels were installed. Scattered plants remain. In 2009, two panels were installed and 139 plants were pulled to clear a moderate stand of watermilfoil from this site.

**South End, Green Island (M-57).** Moderate to bed density Eurasian watermilfoil was found within the dock complex at the extreme south end of Green Island. Water depth within the dock area is 2-3 meters, with gradually sloping bottom and soft silty sediments. Numerous obstructions including pipes and old pieces of dock cribbing were found at this site. The milfoil at this site was managed via suction harvesting in 1990. By 1993, the area that was harvested had returned to bed density, and inside the east crib dock a small, new area of moderately dense milfoil has been discovered. This condition was observed in 1995. In 1996, suction harvesting and hand harvesting were used to manage this location. Annual maintenance is recommended. A total of 289 milfoil plants were hand harvested in 1997. Site inspections in 2000, 2001 and 2002 produced no milfoil. In 2003 a single plant was found and in 2004 two plants were removed. In 2005, 5 plants were removed. In 2006, 161 plants were pulled. In 2007, 75 plants were pulled to clear the site. In 2008, 21 plants were pulled to clear the site. In 2009, four plants were pulled to clear the site.

**Silver Bay (M-58).** A large number of scattered Eurasian watermilfoil plants were found within the dock and boathouse complex in Silver Bay in 1990, along with a few individuals of Curly-leaf Pondweed. Water depth in this area ranged from 1 to 2 meters. The sediment in this area is sand to clay with a gradually sloping bottom. Milfoil was removed from this area by hand harvesting in 1991. In 1995 and 1996, a small bed of milfoil and a large area of scattered plants were observed at this location. A moderate density growth of milfoil has been observed here on a yearly basis since that time. Intense recreational use and shallow water depth limits management options at this location. In 2002 a dense growth of filamentous algae was noted. All 181 milfoil plants encountered were hand-harvested to clear the site. In 2003 an additional 71 plants were found and removed; 47 plants were removed from this location in 2004. However, it was discovered that a moderately dense bed exists around a submerged crib that the Silver Bay Association uses for a floating life-guard stand. A total of 1,116 plants were removed from this new area and are included in the total plants harvested in Tables 1 & 2. In 2005, 146 plants were removed and 350 sq. ft. of benthic barrier was positioned near the lifeguard platform. In 2006, 62 plants were harvested. In 2007, 63 plants were pulled to clear the site. In 2008, 674 plants were hand picked to clear the site. In 2009, 577 plants were pulled to clear a moderate stand of watermilfoil from the site.



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

**Hondah Cottages (M-59).** Approximately 550 low-density scattered Eurasian watermilfoil plants were found and removed from among the docks south of the Veteran's Memorial Park beach in 1993. Sediments in this area were sand and silt and the bottom slope is gradual. There is a high density of native plants located here. Boat traffic in this area is high. In 1995, 259 milfoil plants were removed. In 1996, 283 milfoil plants were removed. In 1997, 407 milfoil plants were removed via hand harvesting and 344 in 1998. The 1999 survey removed 105 plants and 96 milfoil plants were removed in 2000. A total of 10 milfoil plants were removed from this location in 2001, 3 were taken in 2002, and one in 2003. Three plants were removed in 2004. In 2005, 6 plants were found. A nearby bed within Sawmill bay provides ample fragments to re-colonize this site on an annual basis. In 2006, no plants were found. In 2007, 8 plants were found and removed to clear the site. In 2008, 9 plants were pulled to clear the site. In 2009, thirteen plants were pulled to clear the site.

**Camp Andrew Bay (M-60).** Moderate and low-density Eurasian watermilfoil plants were observed in two distinct areas at this location in 1989. Milfoil was found in depths of from 2-3 meters. The bottom sediments are silt and the slope is gradual. Eurasian watermilfoil was removed from this area by suction harvesting in 1990, and hand harvested in 1991. In both 1992 and 1993 an area of moderately dense milfoil was observed at this site. In 1995, a bed of milfoil and larger area of moderate density growth was observed in this bay. This condition persisted through 1999, and a second smaller bed was found to the north of the original one. In 2000, benthic barrier was installed (2500 ft<sup>2</sup>), and both suction and hand harvesting were conducted to return this location to a maintenance level. In 2001, suction and hand harvesting was employed to complete management of this site. In 2002, 137 plants were removed. In 2003, 65 plants were removed along with all benthic barrier panels. In 2004, 61 plants were removed and in 2005, 370 were removed. In 2006, 5 panels were installed and 130 plants were hand pulled. In 2007, 29 plants were removed to clear the site. In 2008, 7 plants were picked to clear the site. In 2009, fourteen plants were hand harvested to clear the site.

**Moonlight Bay, Harbor Island (M-61).** An area of dense Eurasian watermilfoil growth remains at this site, along with an extensive area of scattered low-density plants. The dense area is near a beaver lodge in the southern end of this small bay. Numerous small milfoil plants were observed growing in the edges of the beaver lodge, making management of this population difficult. Sediments in the bay consisted of clay and the bottom slope was moderate. Milfoil was managed in this area by suction harvesting in 1990 and hand harvesting in 1991. No management occurred at this location between 1992 and 2004 because it is used by DFWI for research. However, our survey in 2004 noted only scattered plants (ca. 15-20 plants). In 2005, an area of moderate growth was found very near shore. In 2006, this site was noted to have moderately dense growth spread throughout the entire 'harbor.' In 2007, 757 plants were removed to clear the site for the first time. In 2008, 177 plants were picked to clear the site. In 2009, twelve panels were installed and 278 plants were pulled to clear a bed of watermilfoil from the site.

**Marine Village (M-62).** A small number of scattered Eurasian watermilfoil plants were found among the docks at this site. Bottom sediments were sandy and slope was gradual.



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

The plants were removed by hand harvesting in 1990, 1991, 1993, and 1995 through 1998. None were found here in 1999 or 2000. Two milfoil plants were harvested from this location in 2001. None were found in 2002, 2003 or 2004. In 2005, 6 plants were cleared. In 2006, 8 plants were pulled. This site was not visited in 2007-2009.

**South of Agnes Island (M-63).** In 1989, approximately 25 Eurasian watermilfoil plants were found near submerged dock cribs at this northern basin tributary site. Surrounding sediments are sand and clay; however, silt has accumulated between the dock cribs. Hand harvesting has occurred here every year since 1990. One Eurasian watermilfoil plant was removed from this location by hand harvesting in 1993. No milfoil plants were observed in 1995 and one plant was removed in 1996. The site was cleared with the removal of 24 plants in 1997, and 19 in 1998. A total of 40 Eurasian watermilfoil plants were harvested from this site in 1999, 5 in 2000 and 1 in 2001 and 2002. In 2003, 3 plants were removed. None were found in 2004, but 4 were found in 2005. In 2006, a single plant was hand pulled as well as in 2007. In 2008, 54 plants were picked to clear the site. In 2009, 84 plants were removed by hand harvesting to clear the site.

**Three Brothers Island (M-64).** Few scattered plants of Eurasian watermilfoil were found along the western side of these islands within a small area of lily pads. Sediments are sandy to boulders with a moderate slope. All plants were hand-harvested in 1993 through 1999. A single milfoil plant was removed in 2000. No milfoil was found at this site in 2001. In 2002, 36 plants were removed by hand-harvesting in ca. 3 meters of water. In 2003, 27 plants were removed from the same location. None were found in 2004. In 2005, 97 plants were cleared from around an submerged crib near the power cable for the islands. In 2006, 163 plants were hand harvested. In 2007, 113 plants were removed to clear the site. In 2008, 62 plants were removed to clear the site. In 2009, this site remained free of milfoil.

**West of Three Brothers Island (M-65).** Approximately 5 plants of Eurasian watermilfoil were found at the docking facility for Three Brothers Island in 1989. No milfoil was found at this site between 1989 and 2003. In 2004 twenty-one plants were removed. In 2005, none were found. This site was not visited in 2006. In 2007, a single plant was found and removed, in 2008, no plants were found. In 2009, 39 plants were pulled to clear the site.

**North Sawmill Bay (M-66).** A large area of moderate-density Eurasian watermilfoil plants were found clumped along the western speed and hazard buoys at the north end of Sawmill Bay. Depth of this population was 4-5 meters. Eurasian watermilfoil populations now rim the entire Sawmill Bay area. A portion of the milfoil at this site was covered with benthic barrier in 1990. The barrier positioned in 1990 remains in place at this time. Milfoil now surrounds the barrier at this site. No management occurred at this site in 2007. In 2008, 40 panels were installed. This site remains scattered. In 2009, three panels were installed and 94 plants were pulled to clear a moderate stand of watermilfoil from the site.



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

**Bluff Head Creek T-8 (M-67).** Two Eurasian watermilfoil plants were found in 1990 at this northern basin tributary site. Surrounding sediments are sand and clay however silt has accumulated between the dock cribs. Both Eurasian watermilfoil plants were removed from this location for voucher specimens in 1990. A single milfoil plant was removed during the 1993 site revisit and two plants were removed in 1995. In 1996, 18 milfoil plants were removed. One milfoil plant was removed in 1997, 2 in 1998, 3 in 1999, 2 in 2000 and 4 in 2001. Four plants were removed in 2002. No plants were found in 2003 or 2004. Three plants were found in 2005. No plants were found in 2006 or 2007. In 2008, a single plant was found and removed. In 2009, this site remained free of milfoil.

**Rock Dunbar Island (M-68).** Eight scattered plants and a number of fragments of Eurasian watermilfoil were found on the north side of the tributary in 1993. Sediments are sand and clay with a moderate slope. No Eurasian watermilfoil plants were found in 1995. In 1996, 9 milfoil plants were found and removed. In 1997, 37 plants were found scattered along the base of the drop-off on the southeastern side of the island. A total of 59 plants were removed from this same location in 1998. The 1999 survey found 21 plants here, mostly along the southeast side of the island. An additional 5 milfoil plants were found in 2000. No milfoil was found at this site in 2001. Thirteen plants were hand-harvested in 2002. A single plant was found in 2003, none were found in 2004. 47 were found in 2005. In 2006, 77 plants were pulled. In 2007, 82 plants were removed to clear the site. 63 plants were removed in 2008 to clear the site. In 2009, 96 plants were removed by hand harvesting to clear the site.

**Kitchal Bay (M-69).** Four Eurasian watermilfoil plants were found and removed during the 1991 survey. All plants were found between two covered boathouses on the east end of the bay. The slope is gradual to moderate and the sediment consists of a mixture of clay and sand at this site. Milfoil had not been recorded at this site until one plant was found and removed in 1997. No milfoil has been found here since that time. This site was not visited in 2006 or 2007. In 2008, this site was visited, but no plants were found. In 2009, this site remained free of milfoil.

**West Halfway Island (M-70).** A single Eurasian watermilfoil plant was found and removed as a voucher specimen during the 1990 Tributary Survey. The following year four more plants were removed. A minimal number of plants have been removed from this site since that time. No milfoil was found at this site in 2001 through 2005. This site was not visited in 2006 or 2007. In 2008, this site was visited, but no plants were found. In 2009, this site remained free of milfoil.

**Hague Brook (M-71).** Two Eurasian watermilfoil plants were found and removed as voucher specimens in 1990. Later in the 1990 season, a number of Eurasian watermilfoil plants were observed at the outer edge of the delta near the pin buoys. This site was upgraded to a bed in 1991. A large dense bed of Eurasian watermilfoil now extends along the outer edge of the delta in water depth of from 2 to 5 meters. Sediments at this site are sandy on the delta grading to silt at the edges of the delta. The slope on the delta is gradual with a relatively sharp drop-off at the edge. No management efforts have been conducted to date. This site is relatively large, but is suitable for suction harvesting or



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

benthic barrier. In 2007, 127 panels were installed to reduce the site. This site will require ca. 20 more panels to cover the entire bed (based upon 2007 observations). In 2008, 55 panels were added to the 2007 installation. This site remains moderate. In 2009, 396 plants were pulled from a moderate stand of watermilfoil. A moderate density still remains at the site. All 182 panels were removed by AE in 2009.

**South Cooks Bay (M-72).** This site is located at the south edge of the bathing beach at Rogers Rock State Park, adjacent to the mouth of a small tributary. Slope at this site is gradual with sediments of sand and silt. A single Eurasian watermilfoil plant was found in 1990 and 1991; both were removed as voucher specimens. An additional four plants were removed during the 1993 Tributary Survey. In 1995, 27 milfoil plants were removed. A single milfoil plant was removed in 1996. In 1997, a total of nine plants were harvested. During the 1998 survey, one plant was found and removed. A total of 43 plants were removed from this site in 1999 and none were found in 2000 or 2001. In 2002 a total of 12 plants were found. In 2003, 3 plants were removed. None were found in 2004, 65 were found in 2005. In 2006, 362 plants were harvested. In 2007, 586 plants were pulled to clear the site. No management occurred in 2008, however it was noted that small beds and scattered plants remain through the entire site. In 2009, six panels were installed and 798 plants were pulled to clear a moderate stand of watermilfoil from the site.

**Tributary in Dark Bay (M-73).** Nine scattered Eurasian watermilfoil plants were hand harvested adjacent to a white boathouse north of the tributary in this bay during the 1993 survey. In 1995, 53 milfoil plants were found and harvested from this site. In 1996, an additional 21 milfoil plants were removed. In 1997, only five plants were found and removed from this site. The number increased to 15 when this site was visited in 1998, 14 plants were removed in 1999, 13 in 2000 and 4 in 2001. In 2002, 189 plants were hand-harvested at this site. In 2003, 35 plants were removed. A total of 7 plants were removed in 2004 and 9 in 2005. Sediments are sand and rock with steep slopes. In 2006, 11 plants were pulled to clear the site. In 2007, 8 plants were removed to clear the site. In 2008, 23 plants were removed to clear the site. In 2009, 78 plants were removed by hand harvesting to clear the site.

**Point North of Agnes Island (M-74).** Four Eurasian watermilfoil plants were found and removed as voucher specimens after receiving a letter in 1990 from a resident describing the location. Seven plants were removed during the 1993 survey. The slope is gradual near shore and moderate beyond a depth of 4 meters. Sediments are silt and sand. No plants have been observed at this site since 1995. In 2002 a moderately dense bed was cleared by hand-harvesting at this site. In 2003, 59 plants were cleared from this site. Sixty-nine plants were found and removed in 2004. 160 were found in 2005. In 2006, 158 plants were pulled. In 2007, 181 plants were pulled to clear the site. In 2008, 274 plants were pulled to clear the site. In 2009, ten panels were installed and 449 plants were hand harvested to clear a bed of watermilfoil from the site.

**Bell Point (M-75).** An area of moderate density milfoil was located within the dock area at Bell Point following a description of the area by a local resident. The slope in this area



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

is steep with soft sediments at the south edge of the docks and bedrock at the north. Numerous obstructions are present on the bottom in this area. Hand harvesting removed 144 plants at this site in 1995, with an additional 385 milfoil plants removed in 1996. Extensive management was done on this site in 1997. A total of 655 plants were hand harvested from inside the dock area before suction harvesting was attempted later in the season. Unfortunately the site could not be cleared due to a malfunction with the harvesting equipment, and approximately 1/3 of the milfoil population was removed. One 30-gallon can of Eurasian watermilfoil was hand harvested to clear milfoil from this site in 1998. It was not suction harvested due to the condition of the existing plants, many of which were low growing, scattered, and did not appear healthy. The 1999 survey found this site to be much improved from the previous year, as 146 plants were removed, and the site was designated as cleared of milfoil for the first time since the initial discovery in 1987. In 2000, 196 milfoil plants were removed to clear this site. A total of 650 milfoil plants were harvested from this site in 2001. In 2002 a total of 776 plants were hand-harvested to clear the site. Extensive *P. crispus* growth was noted at that time. In 2003, 392 plants were cleared from this site. Additionally to hand pulling 449 plants in 2004, three panels (ca. 900 square feet) of barrier was placed here since prior hand harvesting efforts appear to be inadequate. In 2005, 108 plants were hand harvested, and the three panels were repositioned to cover the remaining bed. In 2006, 5 panels were installed to cover the remaining bed. In 2007, 306 plants were removed to clear the site. In 2008, only 22 plants were removed to clear the site. In 2009, 407 plants were removed by hand harvesting to clear a bed of watermilfoil from the site.

**South Shelving Rock Point (M-76).** An area of scattered Eurasian watermilfoil plants adjacent to a dock on the south side of the point was hand harvested in 1993. In 1996, the density in this area had increased to moderate. The slope of the bottom in this area is gradual and the sediment is sandy. A small section of benthic barrier may be appropriate for this location. This site was originally designated for suction harvesting in 1997, but due to equipment failure, a “raking” technique was applied. This technique was somewhat effective. In 1998, this site was cleared via suction harvesting and hand harvesting. A total of 2, 30-gallon barrels of Eurasian watermilfoil were removed. The 1999 survey revealed that the milfoil has an established presence, as several attempts to clear this site via hand harvesting failed. A total of 489 plants were removed, and the site was merely reduced. A more intensive management strategy was utilized in 2000 with 350 ft<sup>2</sup> of benthic barrier installed. In 2001, the barrier was removed and 30 milfoil plants removed by hand harvesting to complete management at this location. In 2002, only 13 plants were found and removed suggesting previous management efforts were highly effective at this site. In 2003, 34 plants were removed from a small patch under the bow of a boat at the private dock. *P. crispus* is common here. Once again in 2004 this site required the use of benthic barrier. 350 square feet were installed and 234 plants were hand harvested. In 2005, the barrier panel was repositioned and 31 plants were hand harvested. In 2006, 96 plants were hand pulled. In 2007, 18 plants were pulled to clear the site. In 2008, 12 plants were pulled and two panels installed to clear the site. In 2009, eighteen plants were removed by hand harvesting to clear the site.



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

**Walker Point (M-77).** An area of scattered milfoil plants was found north of the point and stretched to the boathouses of the Loines estate. The slope in this area was steep; the sediments were soft silt and cobble. All plants were found 1 to 4 meters in depth and were removed during 1993. No milfoil had been found at this site until the 1998 survey, when 19 plants were removed. These plants were found around the boathouse of the Loines estate, in a similar locale to previously existing populations. Dense growth of the native pondweed *Potamogeton foliosus* was also noted. None were found here in 1999 or 2000. A single milfoil plant was removed in 2001 and 2002. In 2003-2005 no plants were found. This site was not visited in 2006. No plants were found in 2007 or 2008. In 2009, six plants were pulled to clear the site.

**Bay North of West Tongue Mountain (M-78).** This site is approximately 0.5 km north of the West Tongue Mountain site. The milfoil was found growing among a pair of fallen trees just off shore. The slope at this site is moderately steep, and the sediments consisted of sand, gravel, and silt. Fewer than 10 plants were removed from this area in 1992, 1993 and 1995. Eighteen milfoil plants were removed in 1996. In 1997, a moderately dense grouping of 405 milfoil plants were found and removed via hand harvesting on the southern side of the bay, on the edge of a very steep drop off. Eighty plants were removed by hand harvesting in 1998, however this site was not cleared. A large area of moderate density growth of milfoil remains to the south of the point. This site was suction harvested in the summer of 1999, and 1 barrel of milfoil was removed. Follow-ups with hand harvesting cleared this site of milfoil. Intensive hand harvesting in 2000 removed 660 milfoil plants to clean this location. A total of 146 milfoil plants were removed in 2001, 288 in 2002 and 67 in 2003 to clear this site. In 2004 the site was cleared of 65 plants. In 2005, the site was cleared of 110 plants. In 2006, 126 plants were hand pulled. In 2007, 249 plants were pulled to clear the site. In 2008, 121 plants were removed to clear the site. In 2009, 207 plants were pulled to clear a moderate stand of watermilfoil from the site.

**Shore South of Bear Point (M-79).** The site is approximately 0.5 km south of Bear Point. This site had 2 milfoil plants at the base of a fallen tree in 1993. The slope was very steep, and the plants were located on a small shelf in soft silt. No milfoil was found in 1995. In 1996, five milfoil plants were harvested, and three in 1997. The 1998 survey did not reveal any milfoil plants present here. Ten plants were removed in 1999. No milfoil was found at this site in 2000. Eight milfoil plants were harvested in 2001, 16 in 2002 and a single plant in 2003. In 2004, 104 plants were found and removed. In 2005, 2 plants were found. In 2006, no plants were found. In 2007 a new area of growth was discovered and 305 plants were removed to clear the site. In 2008, 54 plants were removed to clear the site. In 2009, nine plants were hand pulled to clear the site.

**Bay South of Bear Point (M-80).** An area of widely scattered milfoil plants was found in this bay. The site was cleared of 15 plants at 1 to 3 meters in depth in 1993. In 1995, one milfoil plant was found with an addition two milfoil plants removed in 1996 and 1997. None were found here in 1998. Thirty-seven plants were removed to clear this site in 1999 and 2 in 2000. No milfoil was found at this site in 2001. Twenty-nine plants were located and removed in 2002 and four in 2003. In 2004 five plants were removed, in 2005



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

7 plants were removed. The slope was gradual; the sediment was a mixture of wood chips and silt. No plants were found in 2006. In 2007, a new area of growth was found and cleared with 7 panels and 361 plants removed. In 2008, 51 plants were pulled to clear the site. In 2009, fourteen plants were hand harvested to clear the site.

**Butternut Brook (M-81).** This site was located south of Point Comfort at the mouth of Butternut Brook. A single milfoil plant was found and removed in 1991, from the culvert in the end of the bay. The slope of the bay is very gradual; the sediment is sand and soft silt. No additional milfoil had been found since the original harvest in 1991 until the 1998 survey, when one plant was removed. No milfoil has been found at this site since 1998. This site was not visited in 2006 or 2007. This site was visited in 2008, no plants were found. This site was not visited in 2009.

**Barber Bay (M-82).** Scattered milfoil plants were found in the center of the bay during the 1991 tributary survey. The majority of the plants were removed from 2-5 meters of water. The slope was gradual, and the sediments consisted of sand and silt. In 1995, all milfoil plants observed (204) were removed by hand harvesting. In 1996, 168 milfoil plants were harvested. Fourteen plants were cleared from amongst the logs in the central portion of the bay in 1997. In 1998, the population was cleared with the removal of five plants, and 14 were pulled in 1999. In 2000, a small colony of milfoil was located at the base of an area of cobblestones on the southwest shore of the bay and a total of 105 milfoil plants were removed from this area. In 2001, 143 milfoil plants were harvested from this location. In 2002, ten plants were removed from this site. In 2003, two plants were found and 8 were located in 2004. In 2005, 4 plants were removed. In 2006, 10 plants were pulled. In 2007, 35 plants were pulled to clear the site. In 2008, two plants were removed to clear the site. In 2009, eleven plants were pulled to clear the site.

**Van Warmer Bay (M-83).** This site had a single milfoil plant found along a dock just south of a hazard buoy in front of the Brodeur camp on the east shore. One milfoil plant was removed from this site in 1991, 1992 and 1993. The slope is gradual, and the bottom sediment is sand. No milfoil was observed from 1995 through 2004. In 2005, six plants were removed to clear the site. No plants were found in 2006 or 2007. This site was not visited in 2009.

**Harris Bay Inlet (M-84).** In 1991 milfoil was found in an area stretching from the tributary culvert to the boat docks in less than one half meter of water. Approximately 50 milfoil plants were observed. A number of milfoil plants were removed as voucher specimens. This area was exposed (dry) during 1993. No milfoil was observed in 1995 or 1996. Twenty-nine plants were found and removed in 1997 and 5 in 1998. None were observed here in 1999 or 2000. A single milfoil plant was removed in 2001. Five plants were removed in 2002 and none in 2003-2005. The sediment in this area is very soft silt, and the slope at this site is flat. This site was not visited in 2006-2009.

**Dunham Bay Inlet (M-85).** Three milfoil plants were found scattered between the bridge and a boat dock to the east in approximately 2 meters of water during the 1991 survey. There were also a large number of milfoil fragments found covering the bottom



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

in the south end of the bay. Since that time, this site has only been surveyed due to large milfoil populations throughout the bay. In 1996, no milfoil was observed in this area, but 18 plants were removed in 1997 and 32 in 1998. A total of 185 plants were hand harvested from this site in 1999 and an additional 10 milfoil plants in 2000. No milfoil was found at this site in 2001. In 2002, 29 plants were found and removed and 91 were cleared in 2003. None were found in 2004. In 2005, 6 plants were removed. Dense growth of a Eurasian watermilfoil bed within Dunham's Bay (M-19) is a likely source of propagules. The plants located here have mainly been found scattered at the edges of the boat channel. The slope at this site is gradual, and sediments are a combination of sand, soft silt and cobble. No plants were found in 2006. In 2007, 11 plants were cleared from the site. In 2008, no plants were found. In 2009, this site remained free of milfoil.

**East Shore (M-86).** Two milfoil plants were found at this site during the 1991 tributary survey. No milfoil plants have been found at this site since. The site has a sheer rock wall to the north, and a storm culvert between two docks. The slope at this site which is adjacent to the Crosbyside area, is steep, and sediments are sand, light silt, and rock. This site was not visited in 2006 or 2007. This site was visited in 2008, but no plants were found. In 2009, this site remained free of milfoil.

**Crosbyside (M-87).** This site is approximately 100m north of T-37a. It is adjacent to a culvert in a wooden seawall. A total of 4 milfoil plants were taken for voucher specimens in 1991. No milfoil was found in 1995; however 2 milfoil plants were harvested in 1996. There were no plants found here in 1997 or 1998, and 5 were found in 1999. None have been found since 1999. The slope is gradual, and the sediment is sand and rock. This site was not visited in 2006 or 2007. In 2008, no plants were found. In 2009, this site remained free of milfoil.

**Crosbyside (M-88).** Six milfoil plants were removed in 1991 for voucher specimens at this site, which is at the mouth of a seasonal tributary. No milfoil plants were found at this site in 1993. In 1995, two milfoil plants were removed. No milfoil was observed in 1996, 1997 or 1998. Five plants were cleared in 1999 with M-87. No milfoil was found in 2000, 2001 or 2002. A single plant was found in 2003, none in 2004 or 2005. The tributary runs to a double slip dock approximately 50m south of T-37d (M-89). The slope is moderately steep; the sediment is a combination of silt, sand, and rock. In 2006, 3 plants were found. This site was not visited in 2007. This site was visited in 2008, but no plants were found. In 2009, this site remained free of milfoil.

**Crosbyside (M-89).** A pair of milfoil plants were found in 1991 and removed from this site directly in front of a private beach with drainage culverts on each side. This site is approximately 50m north of T-37c, the slope is moderately steep, and the sediment is a combination of sand, silt, and cobble. No milfoil was found in 1995 through 2001. Two plants were located and removed in 2002 with none found in 2003-2005. This site was not visited in 2006 or 2007. This site was visited in 2008, but no plants were found. In 2009, this site remained free of milfoil.



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

**South Tea Island Culvert (M-90).** This site is located to the southwest of Tea Island adjacent to the Lake George water treatment plant. A large culvert drains under a dock and into the lake at this location. Milfoil was first found in 1991 in the outwash area of the culvert. A total of 7 milfoil plants were removed from this site in 1993. Eleven milfoil plants were removed in 1995 and an additional 7 in 1996. One plant was harvested in 1997, and none in 1998, 1999 or 2000. A single milfoil plant was harvested in 2001. No plants were found in 2002 and two were found in 2003. In 2004, 17 plants were removed. In 2005, 41 plants were removed. The slope at this site is moderate and the bottom sediment consists of sand and rock. In 2006, 168 plants were found. In 2007, 568 plants were removed to clear the site. In 2008, 127 plants were pulled to clear the site. In 2009, twenty plants were removed by hand harvesting to clear the site.

**Harris Bay-East Side (M-91).** Milfoil was located in 1991 in the outwash area of a culvert, on the northeast shore of the bay. An area of scattered to dense growth of milfoil extends from the marina south along the east shore. The slope is gradual, and the sediment is a mixture of sand, silts, and cobble. This site has received no management activity to date. In 2008, 14 panels were installed. This site remains scattered. In 2009, four panels were installed and fifteen plants were pulled to clear a bed of watermilfoil from the site.

**Bay East of Hens and Chickens (M-92).** The site is on the east shore at Shelving Rock Point. The slope is moderate near shore to a depth of 3 meters. The bottom is rocky in shallow waters (less than 2 meters) and changes to sand and silt with logs and debris covering the bottom in deeper waters. The shoreline slopes steeply to the lake edge and a pump house and water intake are found at this location. Milfoil was first found at this location in 1992, when 1 plant was removed. Seven milfoil plants were removed in 1993. No milfoil plants were observed in 1995 or 1996. Hand harvesting of this site in 1997 removed 61 milfoil plants. No milfoil was located here in 1998 through 2001. In 2002, five plants were hand harvested with none found in 2003 or 2004. In 2005, 1 plant was found. No plants were found in 2006 or 2007. In 2008, two plants were pulled to clear the site. In 2009, this site remained free of milfoil.

**East of Refuge Island (M-93).** A single milfoil plant was found and removed from a small cove on the east shore across from Refuge Island in 1992. No milfoil was found at this site in 1993, 1995 or 1996. Eighteen plants were removed from this site in 1997, 3 in 1998, and 6 in 1999. A single milfoil plant was removed in 2000, 2001, 2002 and 2003. None was found in 2004, 3 were found in 2005 and none in 2006 or 2007. Sediments in this area are sand and cobble from 0 to 2 meters, and sandy silt and detritus from 2 to 4 meters. The slope was flat to 2m depth, then moderate. No plants were found in 2008. In 2009, two plants were pulled to clear the site.

**Northwest of 3 Sirens Islands (M-94).** The site is on the eastern side of Tongue Mountain in a small cut along the shoreline. The slope is steep and rocky with small pockets of silty sediments. A single milfoil plant was found in 1992 and removed. None were found between 1993 and 1997. In 1998, 11 milfoil plants were removed. No milfoil has been found here between 1998 and 2001. In 2002, two plants were removed. No



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

milfoil was found in 2003, 2004 or 2005. This site was not visited in 2006 or 2007. No plants were found in 2008. In 2009, this site remained free of milfoil.

**N.W.B. Head of Bay (M-95).** Two plants were harvested from this site in 1992 and a single milfoil plant in 1993. The site is located at the extreme north end of the bay, between two boathouses in approximately 2 m of water. The slope is gradual to moderate with sand and silt inshore and soft silt after a depth of 4 m. No milfoil plants were found in 1995 through 1998. Seven were located and removed in 1999. No milfoil was found at this site in 2000, 2001 or 2002. A single plant was found in 2003, none was found in 2004 or 2005. This site was not visited in 2006-2008. In 2009, five plants were hand pulled to clear the site.

**Harris Bay/mid-bay (M-96).** The small milfoil bed at this site, which was first observed in 1992, is located south of the 5 mile per hour buoy line and north of a small rock outcropping in the middle of Harris Bay. The slope is flat and the bottom is rocky with large areas covered by bedrock, the plants are growing in large pockets of silt on top of the bedrock. No management has occurred at this site. In 2009, a bed of watermilfoil was observed at this site, but it was not managed.

**West Side Clay Island (M-97).** The milfoil at this site was located in 1992, in a sunken coal barge in 3 meters of water. Fine silty sediment was inside the barge along with the majority of the milfoil plants. Very few plants were found outside of the barge where the sediment was a mixture of sand and silt. All milfoil observed has been hand harvested to clear the site. No milfoil was found at this site in 2000 or 2001. A single plant was removed in 2002 with none again in 2003. In 2004, 16 plants were removed. In 2005, 59 plants were removed. In 2006, 103 plants were removed. In 2007, 47 plants were removed to clear the site. In 2008, 137 plants were pulled to clear the site. In 2009, 97 plants were hand pulled to clear the site.

**South Jenkins Brook (M-98).** First observed in 1993, the site is just south of a small tributary (Jenkins Brook) on the north side of Jenkins Point, Hague. Approximately 30-50 plants were discovered under a white mooring float. In 1995, a small area of dense growth around a water intake was observed. This condition persisted in 1996. In 1997, a small bed approximately 100 feet in length was observed, encompassing the original site around the mooring. Benthic barrier was installed at this site in 1997. Management in 1998 included further installation of benthic barrier, including maintenance of the existing barrier, supported by suction harvesting and hand harvesting. Management efforts continued in 1999, with benthic barrier, suction, and hand harvesting efforts. Efforts at this site are limited by available barrier materials and an extensive area of low density growth of Eurasian watermilfoil. This site required intensive efforts in 2000, including several more panels of benthic barrier (1750 ft<sup>2</sup>) and hand harvesting. Barrier cleaning and inspection was carried on in 2001 and 2002 including the hand harvesting of 15 plants before the decision was made to postpone needed management here. In 2003 extensive barrier work was conducted with the placement of 23 panels (8,050 ft<sup>2</sup>) adjacent to, and sometime on top of existing barrier. In 2004 the barrier was cleaned and slightly repositioned. Additionally, 745 plants were hand harvested. In 2005, 47 plants



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

were removed. The slope at this site is moderate, with bottom sediment of sand and light silt. In 2006, 70 plants were found. In 2007, 121 plants were removed to clear the site. In 2008, 64 plants were pulled to clear the site. In 2009, 53 plants were removed by hand harvesting to clear the site.

**Holman Hill Creek (M-99).** A scattered area of milfoil (50-100 plants) was first located during the 1993 tributary survey. The site is in front of the boathouse on the north side of Holman Hill Creek. In 1995, 125 plants were removed from this site. In 1996, 54 milfoil plants were removed, and 81 in 1997. In 1998, milfoil plants removed had been reduced to eight. The 1999 survey removed 91 milfoil plants, primarily small individuals near the boathouse, and a larger number at the northern edge of the delta. A total of 4 milfoil plants were found and removed in 2000. An additional 22 milfoil plants were removed in 2001. No plants were found in 2002. A single plant was found in 2003 and again in 2004. None were found in 2005. The slope is moderate to a depth of 3 meters and the bottom sediments are delta sands. Beyond 3 meters depth, bottom slope becomes steep to 10 meters depth. In 2006, only two plants were found and none in 2007. In 2008, 40 plants were removed to clear the site. In 2009, 36 plants were pulled to clear the site.

**Temple Island (M-100).** Two milfoil plants were found at this location in 1993 and removed. The plants were found 100m from the west shore and 100m south of the culvert across from the Island. The slope is flat to gradual and sediments are sand and light silt. No milfoil was found in 1995 or 1996, and one plant was harvested in 1997. Nineteen plants were removed from here in 1998. These plants were primarily located on the western shore of the bay, just north of the docks on that shore. The 1999 survey removed two plants from within the bay area, along the seawall. No milfoil was found at this site in 2000. Six and sixteen milfoil plants were found and removed in 2001 and 2002 respectively. None were found in 2003, 10 were removed in 2004 and 5 in 2005. In 2006, a single plant was found and none in 2007. 65 plants were found and removed in 2008. In 2009, three plants were pulled to clear the site.

**Brook North of Green Point (M-101).** A single milfoil plant was found in 1993 and 1995 on the delta of this stream in about 1 meter of water. Close to shore the bottom was rocky with numerous logs. Sand and silt dominated the sediments beyond 1 meter depth. The slope is moderate to steep. No milfoil was found in 1996 or 1997. The 1998 survey found three plants at this site in a marshy area behind a red boathouse, and 10 were removed in 1999. A total of 21 milfoil plants were removed in 2000 and 7 in 2001. Two plants were found and removed in 2002. None were found in 2003-2005. This site was not visited in 2006-2009.

**South Tributary at 5 Mile Mountain (M-102).** The site is in a small cut in the shoreline along the eastern side of the Tongue Mountain range, the slope is moderate and the sediment consisted mainly of shallow silt in rock depressions. Eight plants were removed during 1993 and twelve in 1995. No milfoil was found in 1996, 1997, or 1998; two plants were harvested in 1999. No milfoil was found at this site in 2000 or 2001. In 2002, 111 plants were hand harvested. None were found in 2003, 8 were removed in 2004 and 16 in 2005. None were found in 2006. In 2007, 7 plants were removed to clear



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

the site. In 2008, 148 plants were found and removed. In 2009, seven plants were hand harvested to clear the site.

**North of North Meadow Point (M-103).** Five milfoil plants were hand-harvested from this site in approximately 3m of water in 1993. The site is on the north side of the point east of a large rock on shore; a small green shed is on shore even with the location of the site. No milfoil was found at this site in 1995 and a single plant was removed in 1996. None were found in 1997. In 1998, a resident reported a number of possible milfoil plants inside the bay north of Meadow Point, the first bay south of Agnes Island, and 162 plants were cleared from around their dock area. In 1999, 102 plants were removed to clear the site. Two milfoil plants were removed in 2000, 3 in 2001, 5 in 2002 and 1 in 2003. In 2004, 11 plants were removed. In 2005, 6 plants were removed. There is a diverse native population of plants in existence here as well. In 2006, 2 plants were found. In 2007, 8 plants were removed to clear the site. In 2008, 65 plants were removed to clear the site. In 2009, 211 plants were hand pulled to clear the site.

**Assembly Point/West Bay (M-104).** A small area of moderate density growth of milfoil plants was found in 1993. This site is 100 meters south of the wetland outlet on the western side of Assembly Point. Milfoil plants were found near a sailboat mooring. In 1995, 27 milfoil plants were removed from this location. There was no Eurasian watermilfoil in 1997 through 2005. Slope was moderate and sediments were sand and silt. This site was not visited in 2006 or 2007. In 2008, this site was visited but no plants were found. In 2009, this site remained free of milfoil.

**Assembly Point/Northwest (M-105).** A single milfoil plant was found and removed, approximately a quarter mile southwest of the tip of Assembly Point, in front of a white boathouse. The plant was in water 3 m deep in a sand/silt sediment mixture, and the slope was gradual to moderate. Milfoil has not been found here since that time. This site was not visited in 2006-2009.

**Assembly Point/Southeast Bay (M-106).** The site was in the bay on the southeast side of Assembly Point. Three plants were found in the mouth of the bay in 1 to 2 meters of water in 1993. The sediments consisted of sand and silt, the slope in this area was flat to gradual. No milfoil was found at this site in 1995, 1996 or 1997. Two plants were removed in both 1998 and 1999. No milfoil was found at this site since. This site was not visited in 2006 or 2007. A single plant was removed in 2008 to clear the site. In 2009, this site remained free of milfoil.

**Elizabeth Island (M-107).** The site is located on the delta of a small tributary to the east of Elizabeth Island. Bottom slope is gradual and sediments are mainly sand with sand and silt mixed at the deeper margins. A single milfoil plant was found at this site in 1994 and then none through 2001. In 2002, 246 plants were found scattered in this site and removed. In 2003, 28 plants were removed and in 2004, 23 plants were taken. In 2005, 7 plants were found. In 2006, 9 panels were installed and 97 plants were hand pulled. In 2007, 3 panels were installed and 1060 plants were harvested to clear the site. In 2008,



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

207 plants were removed to clear the site. In 2009, five panels were installed and 762 plants were hand pulled to clear a moderate stand of watermilfoil from the site.

**Harris Bay Culvert (M-108).** This site is immediately adjacent to site M-91 and should probably be combined. The culvert is found at the Lake George Boat Company. Moderate density growth of milfoil is found at the mouth of the culvert and extending into the docks of the marina complex. In 2008, 59 plants were found and removed. In 2009, this site remained free of milfoil.

**SW Happy Family Islands (M-109).** Scattered patches of milfoil were observed adjacent to a covered boathouse (Cedar Rock Lodge). In 1995, 27 milfoil plants were observed and removed by hand harvesting. In 1996, moderate density patches of milfoil were found to the north of the original site and hand harvested. The population was reduced with the removal of 346 plants in 1997 and 305 in 1998. Several visits to hand harvest in 1999 removed 910 plants to clear this site. In 2000, a total of 185 milfoil plants were removed. In 2001, 89 milfoil plants were removed. In 2002 and 2003, 15 and 86 plants respectively, were removed. In 2004, 31 plants were removed. In 2005, 47 plants were removed. Maintenance levels have been achieved at this site. The bottom slope is gradual and the sediments composed of sand and cobblestones with scattered rock outcrops. In 2006, 227 plants were pulled. In 2007, 189 plants were removed to clear the site. In 2008, 43 plants were found and removed. In 2009, this site remained free of milfoil.

**Diamond Point (M-110).** Sparsely scattered milfoil plants were found in a small embayment just north of Diamond Point in 1994 at depths of 2 to 3 meters. Bottom slope at this site is gradual and sediments are sand and silt. Milfoil has not been found here since that time. This site was not visited in 2006-2009.

**NWB-NE Walker Point (M-111).** In 1995, scattered milfoil plants were first found around an “L” shaped dock and boat launch approximately 500 m north of Walker Point. The milfoil plants (106) were removed by hand harvesting. In 1996, six milfoil plants were removed. No plants were located at this site until 2003 when a single plant was removed. In 2004 and 2005 no plants were found. Slope is moderate and the sediment is mainly silt with some sand. This site was not visited in 2006-2008. In 2009, this site remained free of milfoil.

**Whale Rock, East of Agnes Island (M-112).** In 1996, a moderate density area of milfoil growth was observed in pockets of silt on the eastern side of Whale rock. Slope is steep and the sediment is mainly silt on this bedrock outcrop. By 1998, these patches had grown together to form a moderate sized bed along the eastern edge of the rock. This site received benthic barrier in 2000. A total of 1050 ft<sup>2</sup> of barrier were installed, and hand harvesting was employed to complete management. In 2001, 170 milfoil plants were removed by hand harvesting. In 2002 heavy growth was noted but management did not occur. In 2003, 881 plants were removed by hand harvesting including ca. 50 plants removed on a second visit in late August. In 2004, 223 plants were pulled from the shallow area on the east side of the rock. In 2005, 120 plants were removed and the 3



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

panels were removed to clear the site for the first time. In 2006, 102 plants were hand pulled. In 2007, 96 plants were removed to clear the site. In 2008, 132 plants were found and removed. In 2009, 179 plants were removed by hand harvesting to clear the site.

**Diamond Island (M-113).** In 1996, several small dense patches of milfoil plants were observed on the western side of Diamond Island. The milfoil plants (112) were removed by hand harvesting. A total of 248 plants were hand harvested in 1997, however several small areas of dense growth remained. In 1998, this site was suction harvested, and two barrels of milfoil were removed to clear the site. In 1999, 572 plants were hand harvested from the rocky walls along the south and western sides of the island to clear the site. A total of 110 milfoil plants were removed in 2000. In 2001, an additional 332 milfoil plants were removed from this site. In 2002 and 2003 only 97 and 35 plants respectively were found and removed showing a general decline in plant abundance at this location due to effective management. In 2004 only 12 plants were found and in 2005 only 8. Slope is moderate to steep and the sediment is mainly silt between boulders. In 2006, 10 plants were hand pulled. In 2007, 7 plants were removed to clear the site. In 2008, 5 plants were found and removed. In 2009, thirteen plants were pulled to clear the site.

**Sandy Bay – West Side (M-114).** In 1996, scattered and moderate density milfoil plants were first found within a marina on the southwest side of Sandy Bay. No management has occurred here since. In 2000 and 2001, surveys of the area revealed little or no milfoil growth. Loss of milfoil at this site is unexplained, although harvesting by local landowners is suspected. In 2002 hand harvesting by landowners was confirmed. No plants were found and this site is designated as cleared. In 2003, 2 plants were found. None were found in 2004, and 8 in 2005. Slope is moderate and sediment is mainly silt with some sand. In 2006, 36 plants were pulled. In 2007, 2 plants were pulled to clear the site. In 2008, 5 plants were found and removed. In 2009, this site remained free of milfoil.

**Cape Cod Village Bay (M-115).** In 1996, a single milfoil plant was found around a series of finger docks at the Cape Cod Village Resort. A return visit in 1997 did not indicate the presence of Eurasian watermilfoil. However, six plants were found and removed here in 1998, and two were removed in 1999 and 2000. No milfoil was found at this site in 2001 but 9 and 1 were located and removed in 2002 and 2003 respectively. No plants were found in 2004 or 2005. Slope is moderate and sediment is mainly sand. This site was not visited in 2006 or 2007. In 2008 this site was visited and 37 plants were found and removed. In 2009, this site remained free of milfoil.

**Holman Hill Creek - North (M-116).** An area of scattered milfoil plants was first found in 1996. The milfoil plants (54) were removed by hand harvesting. In 1997, 92 plants were removed. A total of 148 milfoil plants were removed from a spot on the southern edge of an old steel pier in 1998. Hand harvesting in 1999 removed 39 plants to clear the site. In 2000, an additional 16 milfoil plants were removed. No milfoil was found at this site in 2001. In 2002, 18 plants were hand harvested and none in 2003. In 2004, 21 plants were found. In 2005, 140 low growing plants were found. Slope is moderate and sediment is mainly a silt composition with some sand. In 2006, 171 plants were pulled



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

and 2 panels were installed. In 2007, 1 panel was installed and 48 plants harvested to clear the site. In 2008, 58 plants were removed and 4 panels were installed to clear the site. In 2009, 108 plants were pulled to clear the site.

**Glenbernie - Blairs Bay (M-117).** A small area of dense growth of milfoil was observed under a swim float near the steamboat landing in Blairs Bay. Slope is moderate and sediments are mainly sand. No management has been conducted here to date. The site has become a large bed, and was in flower at the time of visit in 2001. No management has occurred at this site until 2007. In 2007, 32 panels were installed and 487 plants pulled to reduce the site. Scattered plants remain near the old, submerged cribs extending offshore from the point. In 2008, 78 plants were pulled to clear the site. In 2009, 58 plants were removed by hand harvesting to clear the site.

**Blairs Bay, North (M-118).** Scattered milfoil plants were observed within a dock area to the south of the Association beach. Slope is gradual and sediments are a sand/clay mixture with some silt and detritus material. No management was conducted in 1996. Twenty plants were hand-harvested within a dock crib and boathouse in 1997. Two were removed in 1998, and 14 in 1999. A total of 113 milfoil plants were removed from the base of a cobblestone area along the southwest shore of the bay in 2000. In 2001, an additional area of scattered milfoil plants were found near the point and 120 plants removed. In 2002, nine plants were found and removed. In 2003, 36 plants were removed. No plants were found in 2004 and a single plant was found in 2005. In 2006, 13 plants were found. In 2007, 61 plants were found to clear the site. No plants were found in 2008. In 2009, eight plants were pulled to clear the site.

**East Side HBYC (M-119).** Eurasian watermilfoil plants were observed scattered off the northeast corner of the marina in 1997. Four plants were harvested to clear the site. Two were removed here in 1998, 7 in 1999, 2 in 2000, 1 in 2001, 3 in 2002 and 5 in 2003. In 2004 no plants were found. In 2005, 8 plants were found. Slope is gradual and sediments are composed of soft silt over a sandy bottom with a mixture of wood chips and other detritus. No plants were found in 2006. In 2007, 8 plants were removed to clear the site, in 2008 no plants were found. In 2009, two plants were hand pulled to clear the site.

**North Warner Bay – Culvert (M-120).** Eurasian watermilfoil was first observed off the entrance to the tributary in 1997. One plant was harvested in water about three meters deep. Seventeen were removed from a rock outcropping located along the western shore in about 2 meters of water in 1998, and eight were harvested in 1999. In 2000, eleven milfoil plants were removed. No milfoil was found at this site in 2001. In 2002, 46 plants were hand harvested. In 2003, 83 plants were harvested. In 2004, 3 plants were found and in 2005 2 were found. The bottom is sandy, with a gradual slope out to three or four meters. There is a minimal population of native plants here. In 2006, 4 plants were found. In 2007, 161 plants were removed to clear the site. In 2008, 49 plants were found and removed to clear the site. In 2009, nine plants were removed by hand harvesting to clear the site.



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

**Bay South of Paulist Fathers (M-121).** Eurasian watermilfoil was first observed in rocks at the edge of old crib docks in 1997. Four plants were harvested here in 1997 and a single plant in 1998. No milfoil has been observed at this site since 1998. Sediments are of a soft sand/silt composition. This site was not visited in 2006 or 2007. In 2008 this site was visited, but no plants were found. In 2009, this site remained free of milfoil.

**Still Bay (M-122).** Eurasian watermilfoil was first found here in 1997, at the mouth of Still Bay Brook, just north of Cooper Point. Six plants were harvested, scattered between the docks as well as out in water approximately three meters deep. None were found in 1998, and two removed in 1999. No milfoil was found at this site in 2000. Two and 13 milfoil plants were harvested in 2001 and 2002 respectively. A single plant was found in 2003 and none in 2004. One plant was found in 2005, and two were found in 2006. Sediments are composed primarily of firm sand and bottom slope is gradual. In 2007, 122 plants were removed to clear the site, in 2008 only two were found and removed. In 2009, this site remained free of milfoil.

**West Flirtation Island (M-123).** A small bed of Eurasian watermilfoil was found here in 1997, about 75 yards from the docks of the Northern Lake George Yacht Club. The Eurasian watermilfoil plants were found in water 3 or 4 meters deep. No management occurred here until 1999, when the site was suction harvested. Approximately 5 barrels were removed from the site, via a combination of suction and hand harvesting. In 2000, intensive hand harvesting removed 414 milfoil plants from this location. An additional 169 milfoil plants were removed in 2001. In 2002, 114 plants were removed. This site was cleared of 308 plants in 2003 and 205 in 2004. In 2005, 37 plants were located. In 2006, 17 plants were found to clear the site. No plants were found in 2007 or 2008. In 2009, 90 plants were hand pulled to clear the site.

**North Shelving Rock Pt. (M-124).** This location was first found in 1998, and was pointed out by a resident. A single plant was found at the Knapp estate, inside the slips of the first docks to the north of the South Shelving Rock site (M-76). No milfoil plants have been located since 1998. Bottom sediment consists of soft sand, and the slope is very steep a few meters out from shore. This site was not visited in 2006 or 2007. This site was visited in 2008, but no plants were found. In 2009, this site remained free of milfoil.

**East of Sagamore Island (M-125).** First reported in 1998, a single milfoil plant was found and removed from this site. This site is located on the eastern shore of the Narrows adjacent to Sagamore Island. Bottom slope is moderate and sediments are a combination of sand and silt. The 1999-2005 surveys did not find milfoil plants here. This site was not visited in 2006 or 2007. This site was visited in 2008, but no plants were found. In 2009, this site remained free of milfoil.

**NW of Dollar Islands (M-126).** Milfoil was first observed at this tributary site in 1998. Four plants were removed from around a large rock and downed tree at the southern end of the site. The site is located on the western shore of the Narrows. The bottom consists of soft silt and the slope is moderate to steep. No plants were found here in 1999 or



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

2000. A small group of milfoil plants (90) were found and removed in 2001. No milfoil plants were found here in 2002 or 2003; a single plant was found in 2004, none in 2005, 2006 or 2007. This site was visited in 2008, but no plants were found. In 2009, this site remained free of milfoil.

**SW French Point (M-127).** All Eurasian watermilfoil found here was located in a brush pile at the mouth of the tributary to a depth of four meters. First located in 1998, 10 plants were removed to clear this location of milfoil. Surveys in 1999 through 2005 did not reveal any further milfoil growth. This site was not visited in 2006 or 2007. This site was visited in 2008, but no plants were found. In 2009, this site remained free of milfoil.

**Bay North of Commission Point (M-128).** This site was first located in 1999. The Eurasian watermilfoil population consists of a thick bed, located opposite docks for the picnic area. Milfoil is growing among the branches of a fallen tree, therefore making hand harvesting very difficult. A total of 940 plants were removed, and the site was slightly reduced. Suction and hand harvesting were employed at this site in 2000. Three 30 gallon barrels of milfoil were suction harvested and 206 milfoil plants hand harvested from this location. In 2001, intense hand harvested completed management at this site, removing 959 milfoil plants. In 2002, 161 plants were removed and in 2003, 88 plants were taken. In 2004, 186 plants were pulled. In 2005, 1205 plants were harvested. The area around the downed tree continues to support milfoil growth. In 2006, 411 plants were pulled and 9 panels were installed. In 2007, 3 panels were installed and 435 plants were removed to clear the site. In 2008, 653 were removed to clear the site. In 2009, 490 plants were removed by hand harvesting to clear the site.

**Camp Sagamore (M-129).** First located during the tributary survey of the north basin in 1999, two milfoil plants were hand harvested from underneath a few logs on the bottom of the lake. Several old dock cribs were inspected at this location in 2000, and produced a large number of milfoil plants. A total of 69 milfoil plants were harvested from this location in 2001. This area has a gradual slope, sand and silt sediment and cobblestones near the shore. The endangered species *Subularia aquatica* was also found here along the shore, in less than 1 meter depth. In 2002, 337 plants were hand harvested in a boulder pile from an old crib dock (under the new floating dock). In 2003 only 6 plants were located and removed. In 2004, 2 plants were found. In 2005, 8 were found and in 2006, 7 plants were found and in 2007 no plants were found. No plants were found in 2008. In 2009, two plants were pulled to clear the site.

**South Trib 5 Mile Mtn Brook (M-130).** This site was first identified during the 1999 tributary survey. Two milfoil plants were identified and removed. This location has a moderate slope, with boulders to 4 meters depth, and then primarily a sand/silt sediment composition. Beaver activity was also noted here. No milfoil was found at this site since 1999. This site was not visited in 2006 or 2007. This site was visited in 2008, but no plants were found. In 2009, eleven plants were removed by hand harvesting to clear the site.



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

**North Steere Island (M-131).** The 1999 tributary survey found 3 Eurasian watermilfoil plants, which were removed via hand harvesting. This site has a moderate slope, boulders to 1 meter depth and then sand and rock sediment composition. No milfoil was found at this site in 2000 or 2001. In 2002, 68 plants were hand harvested. In 2003, 5 plants were removed and a single plant was found in 2004. In 2005, 2 plants were found. No plants were found in 2006. In 2007, 13 plants were removed to clear the site. Only 7 plants were found and removed in 2008. In 2009, four plants were removed by hand pulling to clear the site.

**Lamb Shanty Bay (M-132).** One milfoil plant was harvested from this site during the 1999 tributary survey, from about 4 meters depth on the side of an underwater drop-off. The location is sandy with a gradual slope out to three meters depth, and then steep slope to 7 meters depth, with soft silt sediment. Milfoil was not found at this site in 2000, 2001, 2002 or 2003. In 2004, 3 plants were found. In 2005, none were found. In 2006, 3 plants were found and in 2007, 92 plants were cleared from the site. In 2008, 30 plants were found and removed. In 2009, 38 plants were pulled to clear the site.

**Rogers Rock Club (M-133).** Identified by a local resident in 1999, milfoil was found around the entire perimeter of the pier at the club. A total of 127 plants were removed via hand harvesting in 1999. An additional 31 plants were removed in 2000 and 28 in 2001. In 2002, 57 plants were removed from the same location at this site. In 2003, 12 plants were removed and in 2004, 16 were found. In 2005, 14 were found. There is a very diverse plant community here, especially in the shelter of the slip on the north side of the pier, the area most heavily populated by milfoil. The site in general has a steep slope, with soft sediment in amongst large boulders. In 2006, 17 plants were found. In 2007, no plants were found. In 2008, 15 plants were pulled to clear the site. In 2009, three plants were pulled to clear the site.

**St. Sacramento Island (M-134).** Identified by an inquiry of a local resident, milfoil was found in a small cove on the southeastern side of the island in 1999. The identification was made too late in the season for any management, but a boat survey identified several small clusters of milfoil within the cove. In 2000, a total of 124 milfoil plants were harvested, however the site was only reduced. Hand harvesting in 2001 removed 116 milfoil plants. A single plant was located and removed in 2002, 2003 and 2004. In 2005, 3 plants were found. There is a gradual slope with sand and silt sediments; large boulders and downed trees are also apparent. In 2006-2008, no plants were found. In 2009, this site remained free of milfoil.

**Northeast Van Warmer Bay (M-135).** This location was first reported in 2000 by a lakeside resident. A total of 26 milfoil plants were harvested. No milfoil was found here since 2000. There is a gradual slope with sand and silt sediments. Approx. 300 meters south of Elizabeth Island, nine camps north of the pin buoy south of the island. Subsequent to 2005 effort, a small patch was reported in this area. However, three sites exist in this channel (M-83, M-107 and M-135) and it is not clear from the information given which site may still harbor milfoil plants. This site seems most likely based upon available information and is thus considered scattered until Lycott can confirm/clear this



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

area in 2006. This site was not visited in 2006 or 2007. This site was visited in 2008, but no plants were found. In 2009, this site remained free of milfoil.

**Pocket Bay, Assembly Point (M-136).** This site was first located in 2000, as part of the Fund for Lake George Tributary Survey. A single milfoil plant was harvested adjacent to where the tributary meets the lake. No milfoil was found at this site in 2001, 2002, 2003 or 2004. In 2005 a single plant was found. There is a gradual bottom slope with sand and silt sediments. No plants were found in 2006 or 2007. This site was visited in 2008, but no plants were found. In 2009, 86 plants were removed by hand harvesting to clear the site.

**West Dollar Island (M-137).** This site was first located in 2001, as a result of a report by a lake user. A small area of dense milfoil growth was observed near one of the docks on the southeast end of West Dollar Island. There is a gradual bottom slope with bedrock outcrops, sand and silt sediments. No management occurred at this site in 2001. In 2002, a total of 467 were hand harvested from a moderate bed. In 2003, 19 plants were removed from the same spot as noted in 2002. In 2004 only 6 plants were found in the same area as the bed from 2002. In 2005, 3 plants were removed. In 2006, 4 plants were found. In 2007, a single plant was found and removed. No plants were found in 2008. In 2009, two plants were removed by hand harvesting to clear the site.

**Bay NE of Fan Point (M-138).** This site was first located in 2001, as part of the FUND for Lake George Tributary Survey. Two milfoil plants were harvested adjacent to where the tributary meets the lake. In 2002, 22 plants were removed. In 2003, additional milfoil growth was noted outside of the boundary for M138. The boundary was thus extended to include this bed. 3,889 plants were hand harvested here in 2003. In 2004 only 665 plants were located and removed. In 2005, 852 plants were pulled. There is a gradual bottom slope with sand and silt sediments. In 2006, 1489 plants were hand pulled from a large but sparse area. In 2007, 1309 plants were harvested to clear the site. In 2008, 707 plants were found and pulled. In 2009, three panels were installed and 647 plants were pulled to clear a moderate stand of watermilfoil from the site.

**NE Little Harbor Island (M-139).** This site was first located in 2001, as part of the Fund for Lake George Tributary Survey. A single milfoil plant was harvested adjacent to where the tributary meets the lake. In 2002, 190 plants were located and removed by hand harvesting. In 2003, 39 plants were harvested and 6 were located and removed in 2004. In 2005 no plants were found. There is a gradual bottom slope with sand and silt sediments. In 2006, no plants were found. In 2007, 8 plants were removed to clear the site. No plants were found in 2008. In 2009, 89 plants were hand pulled to clear the site.

**SE of Three Sirens Island (M-140).** This site was first located in 2001, as part of the Fund for Lake George Tributary Survey. A single milfoil plant was harvested adjacent to where the tributary meets the lake. In 2002, 63 plants were hand harvested and 12 were located in 2003. In 2004, 13 plants were removed. In 2005, 20 plants were found. There is a gradual bottom slope with sand and silt sediments. No plants were found in 2006. In



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

2007, 7 plants were removed to clear the site. Twelve plants were removed in 2008 to clear the site. In 2009, this site remained free of milfoil.

**Camp Andrew Bay, West (M-141).** This site was first located in 2001, as a result of a report by a local resident. A narrow strip, approximately ten feet wide, of dense growth of Eurasian watermilfoil extends from the mouth of the bay around the western point for a distance of about 100 meters. In 2002, four panels of Palco® were placed here and 522 plants were hand harvested. In 2003, benthic panels were removed and 684 plants were hand harvested to clear the site for the first time. In 2004 the site was cleared of 142 plants. In 2005, 360 plants were found. Bottom slope in this area is moderate, and sediments are a mixture of sand and silt. In 2006, 466 plants were pulled. In 2007, 127 plants were removed to clear the site. In 2008, 39 plants were found and removed. In 2009, 176 plants were hand harvested to clear the site.

**S. of Fox Island (M-142).** This is a dense bed located just outside of site M140 below a small rock outcropping ca. 50 meters south of Fox Island. Discovered in 2002, 2221 plants were hand harvested to clear the site. In 2003, 48 plants were harvested to clear the site. In 2004, 16 plants were removed. In 2004, 42 plants were found. In 2006, 56 plants were pulled. In 2007, 59 plants were removed to clear the site. In 2008, 24 plants were found and removed. In 2009, twenty seven plants were hand harvested to clear the site.

**S. of Bluff Head Creek (M-143).** This site was discovered just south of site M-67 in 2002. A small patch of milfoil was found on the east shore off of the small rock cliffs. The moderately dense patch was found in the southern section of the site just off of a private boathouse in sand and silt at ca. 2 meters deep. Hand harvesting cleared this site of 375 plants in 2002 with an additional 232 plants found in 2003. In 2004, 275 plants were removed. In 2005, 49 plants were found. In 2006, 23 plants were found. In 2007, 54 plants were removed to clear the site. In 2008, 127 plants were removed to clear the site. In 2009, two panels were installed and 120 plants were hand pulled to clear a moderate stand of watermilfoil from the site.

**N. Jenkin's Brook (M-144).** First discovered in 2002, this site is actually just south of Jenkin's Brook, but north of the site named 'South Jenkin's Brook (M-98)'. It is a narrow (ca. 10' wide) band of milfoil extending north and south ca. 100' from shore in 2-3 meters of water. Six panels of Palco® were placed here in 2002. In 2003, 146 plants were harvested. In 2004 a small bed was located ca. 30 feet from the benthic barrier. 254 plants were harvested and the panels were relocated. In 2005, 192 plants were found primarily outside of the area where the barriers were installed (and removed). In 2006, only 14 plants were found. In 2007, 29 plants were removed to clear the site. In 2008, 24 plants were found and removed. In 2009, twenty one plants were hand pulled to clear the site.

**Juniper Island (M-145).** First confirmed in 2003 following resident's suggestion received by LGPC. This site was a moderate-to-dense bed circling the majority of Juniper Island. Slope was moderate to steep with boulders, cobble and bedrock as the primary substrate. Depths of growth range from ca. 4 feet near shore to 16-18 feet at southernmost section of site. In 2003 this site was cleared by hand harvesting 2,832 plants. In 2004, 416



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

plants were removed and in 2005 only 147 plants were found. In 2006, 55 plants were pulled and 75 in 2007. In 2008, 26 plants were removed to clear the site. In 2009, twenty nine plants were removed by hand harvesting to clear the site.

**Blair's Bay-South (M-146).** First confirmed in 2003 following resident's suggestion received by LGPC. This site was a dense but narrow strip of milfoil found among boulders off of and between two private docks. One strip of black pond liner was in place (apparently placed by a resident as there is no official record of this site prior to 2003). Slope is flat-to-moderate. In 2003, this site was cleared of 2,688 plants. In 2004, 329 plants were found and removed. In 2005, 678 plants were removed including a small area west of areas previously harvested. In 2006, 131 plants were pulled. In 2007, 46 plants were removed to clear the site. In 2008, 24 plants were found and removed. In 2009, 58 plants were pulled to clear the site.

**Gull Island (M-147).** First confirmed in 2004 by DFWI. This is a large rock outcropping outside of Gull Bay. Commonly used by gulls with significant nutrient input. Initially, hand harvesting efforts collected 1,275 plants. Additionally 6 panels (1,800 square feet) were installed covering ca. 90% of standing milfoil. In 2005, 3 additional panels were installed, existing panels were repositioned and 146 plants removed. In 2006, two panels were repositioned and 907 plants were pulled to clear the site. In 2007, 389 plants were removed to clear the site. In 2008, 289 plants were removed to clear the site. In 2009, 274 plants were hand harvested to clear the site. Additionally, twelve panels were removed from the site.

**West of Tea Island (M-148).** First confirmed in 2004 by Lycott. This is moderately dense, small bed on the west side of Tea Island running roughly north-south in the boulder pile beginning roughly at the intake stand pipe from the island cabin. There is a steep slope from the shore to the flat bottom at ca. 18 feet where the bottom becomes silt and sand with scattered native plants. Milfoil is confined primarily to the boulder pile. In 2004, two benthic barrier panels (650 ft<sup>2</sup>) were installed and weighted down with rocks. In 2005, the two panels were removed to clear the site. In 2006, an addition dense bed was located off the SW side of Tea Island and covered with 13 panels. 214 plants were also pulled in 2006. In 2007, 146 plants were removed to clear the site. In 2008, 62 plants were pulled to clear the site. In 2009, fourteen plants were hand pulled to clear the site. Additionally, thirteen panels were removed from the site.

**Fish Point (M-149).** Confirmed by Lycott in 2005, this site is inside of a private dock whose construction prevents water movement. Residents attempted to cover with tarp but were unsuccessful. This is a moderately dense site with lots of algae growing on and around plants. Five benthic barrier panels were installed and 18 plants were removed in 2005. In 2006, 57 plants were pulled to clear the site. In 2007, 77 plants were removed to clear the site. In 2008, 192 plants were pulled to clear the site. In 2009, 82 plants were removed by hand harvesting to clear the site.

**East Rock Bros. Islands (M-150).** Confirmed by Lycott in 2006, this site is off of a rocky point on the eastern shore east of Rock Bros. Islands. In 2006, 279 plants were



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

pulled. In 2007, 59 plants were removed to clear the site. In 2008, 17 plants were removed to clear the site. In 2009, twenty-three plants were pulled to clear the site.

**Indian Point (M-151).** Confirmed by Lycott in 2006, this site sits in a very small cove ca. .7 miles south of Gull Bay on the eastern shore very near a private boathouse (Hansen's Boathouse as of 2006). The site was cleared of 122 plants in 2006. In 2007, 25 plants were removed to clear the site. In 2008, 8 plants were found and removed. In 2009, fifteen plants were hand harvested to clear the site.

**S.E. Elizabeth Island Channel. (M-152)** Confirmed by Lycott in 2006, this site is actually several isolated patches of milfoil extending from near site M-135 north ca. .25 miles toward Elizabeth Island Channel. In 2006, all of the patches were covered with a total of 31 panels and 1453 plants were hand pulled. Primarily rocky bottom. In 2007, 2,396 plants were removed from the entire site (spanning ca. 300M of shoreline) to clear the site. In 2008, 732 were found and removed to clear the site. In 2009, 931 plants were removed by hand harvesting to clear the site.

**Eye of the Needle (M-153).** Confirmed by Lycott in 2006, this site received 1 panel and 96 plants were hand pulled. This is a shallow, silty bay just southwest of Eye of Needle (Bolton Bay at Clay Island). This site was reduced by the removal of 336 plants. Many scattered plants remain and may need several panels of barrier for coverage. In 2008, 57 plants were removed and two panels installed to clear the site. In 2009, 1 panel was installed and 221 plants were pulled to clear a scattered stand from the site.

**Roger's Slide (M-154).** Confirmed by Lycott in 2006, this site received 3 panels and 304 plants were hand pulled. This site is a steep rocky shore on the extreme northern edge of Roger's Slide at Echo Bay. In 2007, only 12 plants were removed to clear the site. In 2008, 29 plants were removed to clear the site. In 2009, thirteen plants were pulled to clear the site.

**N. Juniper Island (M-155)** Confirmed by Lycott in 2006, this site received 1 panel in 2006. However, the panel was missing on our follow-up visit so the remaining 344 plants were hand pulled. In 2007, 43 plants were removed to clear the site. In 2008, 21 plants were pulled to clear the site. In 2009, one plant was removed by hand harvesting to clear the area.

**N.E. cove Assembly Pt. (M-156)** Confirmed by Lycott in 2006, this site was cleared of 240 plants. This is the northern-most cove on the east side of Assembly Point. Plants were scattered among a rocky shoal that extends ca. NNE. In 2007, 29 plants were removed to clear the site. In 2008, 83 plants were pulled to clear the site. In 2009, twelve plants were pulled to clear the site.

**S.E. Canoe Island (M-157)** Confirmed by Lycott in 2006, this site received 10.5 panels and 1334 plants were hand pulled. This site is an extension of the shoal leading SE from the southern most of the Canoe Islands. This site varies in depth from ca. 8 feet to ca. 16 feet in very rocky habitat. In 2007, 3 panels were installed and 1,567 plants were



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

removed. In 2008, 246 plants were removed to clear the site. In 2009, 214 plants were removed by hand harvesting to clear the site.

**South English Brook (M-158)** This is an isolated bed in approx. 15 feet of water roughly 100 Meters offshore and 500 meters south of English Brook. This bed grows in primarily a sandy bottom with a light layer of fine sediments. In 2007, 30 panels were installed and 139 plants hand harvested to clear this site. In 2008, 8 plants were found and removed. In 2009, thirteen plants were pulled to clear the site. Additionally, thirty panels were removed from the site.

**Southeast Rock Bros. Islands (M-159)** This is a small scattered site that parallels the shoreline in 6-12 feet of water along a sloped rocky area. This site was cleared by installing ¼ panel and hand pulling 207 plants in 2007. In 2008, 7 plants were found and removed to clear the site. In 2009, eight plants were hand pulled to clear the site.

**Van Buren Bay-S (M-160)** This site is adjacent to a newly place (as of 2007) private dock on the western side of Van Warner Bay just south of Hague. It is a primarily a sloped, rocky site with lots of native plants and a small, dense milfoil bed around and in an old submerged dock crib. There appears to be a natural seepage here which supports this small but productive site. In 2007 the site was cleared of 857 plants. In 2008, 156 plants were found and removed to clear the site. In 2009, twenty-one plants were hand harvested to clear the site.

**East Speaker Heck Island (M-161)** This is a shallow channel between Speaker Heck and Long Islands on the east side. Primary centered around the southern pin buoy marking the channel. The areas is shallow (less than 5 feet) and solid bedrock with pockets of sand. Plants were scattered through this rocky area. This site was first discovered in 2008; 127 plants were found and removed to clear the site. In 2009, this site remained free of milfoil.

**North Hazel Island (M-162)** This site in directly north of Hazel island, on the shore of a small, unnamed island. Plants primarily found along the steep slope on the east side of the unnamed island on bedrock and boulder/cobble fields. In 2008, 654 plants were removed to clear the site. In 2009, twenty-three plants were pulled to clear the site.

**14 Mile Island (M-163)** This is a small cove on the east side of >>>>> channel. The substrate is fine sands and organic materials. A small, but dense bed was located immediately outside of a private, red boathouse. Moderate to scattered plants continued south along the eastern shore and around the point in scattered boulders. In 2008, 19 panels were installed on the bed and along the southern reaching moderate patches. Additionally, 407 plants were hand picked to clear the site. In 2009, 403 plants were removed by hand harvesting to clear the site. Additionally, fifteen panels were removed from the site.

**North Leotine Shoal (M-164)** While managing site M-46 in 2008 a new, dense bed site was located ca. 100 meters north in open water. The substrate is large (ca. 10 ft. in



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

diameter) boulders with fine, organic sediment pockets in between. No management has been conducted at this site. In 2009, a moderate stand of watermilfoil was observed at this site and was later cleared by AIM. In 2009, AIM removed an estimated 5,727 plants.

**Basin Bay Shoal (M-165)** In the center of the entrance to Basin Bay is a small shallow shoal with boulder and cobble. Around this shoal is scattered to moderate patches of milfoil. In 2008, 5 panels were installed and 502 plants were hand picked to reduce the site. Moderate patches remain on the southwestern section of this shoal. In 2009, four panels were installed and 537 plants were pulled to clear a moderate stand of watermilfoil from the site.

**Harris Bay- Shore Acres (M-166)** This site is on the eastern shore of Harris Bay in shallow (ca. 3-6 feet). Substrate is flat and sandy with fine organic materials. Little vegetation exists apart from milfoil. A bed exists on the northern reaches of the site. In 2008, 376 plants were hand harvested in an attempt to clear the scattered sections of the site leaving only the dense bed behind. In 2009, a bed of watermilfoil was observed at this site, but it was not managed.

**Clay Island SW (M-167)** A small, but very dense bed of milfoil was found around and extending south of the pin buoy on the southwestern side of Clay Island. The bed begins (northern reach) in a steeply sloping boulder field and extends into deeper (ca. 12 feet) flat area with soft, organic materials mixed with sand. In 2008, 8 panels were installed to reduce the site. It is estimated that 4-5 additional panels will be required to clear the site in 2009. Later in 2009 this site was cleared by AIM. In 2009, AIM removed an estimated 5,727 plants.

**SW Green Island (M-168)** A small, dense bed of milfoil was located in Sawmill Bay. This site is far enough away from existing sites (M-5, M-55) to justify a separate listing. This bed is found in ca. 15 feet of water on flat bottom with fine organic materials. In 2008, 16 panels were installed to clear the dense areas. Scattered plants remain. In 2009, three panels were installed and 219 plants were pulled to clear a moderate stand from the site.

**Arcady Bay (M-169)** Site submitted after 2008 management operations. Site sits direct adjacent to shore on the North side of the large, brown house which extends into the lake on the northwest stretch of Arcady Bay. Substrate is primarily sandy soils transitioning to exposed bedrock nearshore. Depth range from 3-10 feet. This is a bed site. In 2009, 19.5 panels were installed and 177 plants were hand picked to clear a bed of watermilfoil from the site.

**Red Rock Bay (M-170)** Site submitted after 2008 management operations. Very dense, but compact and well-defined stand of milfoil in 12-15 feet of water with a substrate of dark, fine organics and some sand. While the bed itself was well-defined, scattered plants continue north into the shallow cove. A small, shallow channel connects this site to Paradise Bay. In 2009, fifteen panels were installed and 252 plants were pulled to clear a bed of watermilfoil from the site.



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

**South Delaware Island (M-171)** Site submitted after 2008 management operations. In 2009, one panel was installed and 79 plants were hand pulled to clear a moderate stand of watermilfoil from the site.

**North Black Mountain Point (M-172)** In 2009, a bed of watermilfoil was observed at this site, but it was not managed. Large, dense stand surrounds wooden remains of a large boat (original Mohican?). Site needs combination of barrier and intensive hand harvesting to clear.

**Bolton Bay 2 (M-173)** In 2009, a bed of watermilfoil was observed at this site. AIM removed an estimated 5,365 plants to clear this site.

**Bolton Bay 3 (M-174)** In 2009, a bed of watermilfoil was observed at this site. AIM removed an estimated 6,090 plants to clear this site.

**Blair's Bay South Shore (M-175)** This site was first discovered in 2009 while surveying beyond existing a nearby site. Moderate to dense milfoil was found distributed in patches along the steep, rocky south (north facing) shore of Blair's Bay extending ca. from the Adirondack Camp ski-boat dock East, along the shore in 5-15' of water in scattered boulders below the cliff wall for ca. 1/3<sup>rd</sup> of a mile (Appendix D for GPS coordinates). In 2009, eleven panels were installed and 1,789 plants were hand harvested to clear a bed of watermilfoil from the site.

**Sandy Bay (M-176)** This site was mentioned as a possibility in previous years, but was first confirmed by Lycott in 2009. This site is centered around the deepest mooring bouys in the center of the bay and extends into open water. Depth ranges from 8-15 feet and the bottom is a mixture of sand and bedrock outcropping. In 2009, 31 panels were installed and 1,091 plants were pulled to clear a bed of watermilfoil from the site.

**Arcady Bay Docks (M-177)** Site sits in very shallow, sandy soils below drainage pipe at Arcady Bay Association docks. In 2009, thirteen panels were installed and 207 plants were removed by hand harvesting to clear a bed of watermilfoil from the site.

**Blair's Bay North Shore 1 (M-178)** Site is exposed rocky shore of north side of Blair's Bay just below the last (northernmost) private home sloping from 5-18 feet. Woody debris collects in boulder pockets, otherwise site is of exposed bedrock. In 2009, three panels were installed and 1,789 plants were removed to clear a bed of watermilfoil from the site.

**Blair's Bay North Shore 2 (M-179)** Site similar to M-178, but located ca. 100M East of M-178. Habitat similar, though less exposed. Sand/silt accumulates here. In 2009, 432 plants were removed by hand harvesting to clear a moderate stand of watermilfoil from the site.



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

**APPENDIX B**

**Major Benthic Barrier Installations 2009**

NYSDOP orthophotos of 2009 major (>10 panels) benthic barrier effort with older barrier overlays where applicable. Orthophoto maps show approximate size, shape and location of benthic barrier coverage at each site. Benthic barrier work was conducted July through August of 2009.

EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT



<p><b>2009</b> <b>Benthic Barrier Coverage</b> <b>Harbor Island (M-61)</b> Lake George Huletts Landing, NY</p>		<p>NYSDOP Orthophoto Nov. 2006</p>	<p><b>Lycott Environmental Inc.</b> 600 Charlton Rd. Southbridge, MA 01551 Ph. 508-765-0101 Fax. 508-765-1352 <a href="http://www.lycott.com">www.lycott.com</a> lycott@aol.com</p>
<p>Scale 1:1744</p>			

EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT



<p><b>2008-2009</b> <b>Benthic Barrier Coverage</b> <b>NWB-Head of Bay (M-1)</b> Lake George Bolton Landing, NY</p>		<p>NYSDOP Orthophoto Nov. 2006</p>	<p><b>Lycott Environmental Inc.</b> 600 Charlton Rd. Southbridge, MA 01551 Ph. 508-765-0101 Fax. 508-765-1352 <a href="http://www.lycott.com">www.lycott.com</a> lycott@aol.com</p>
<p>Scale 1:2670</p>			

EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT



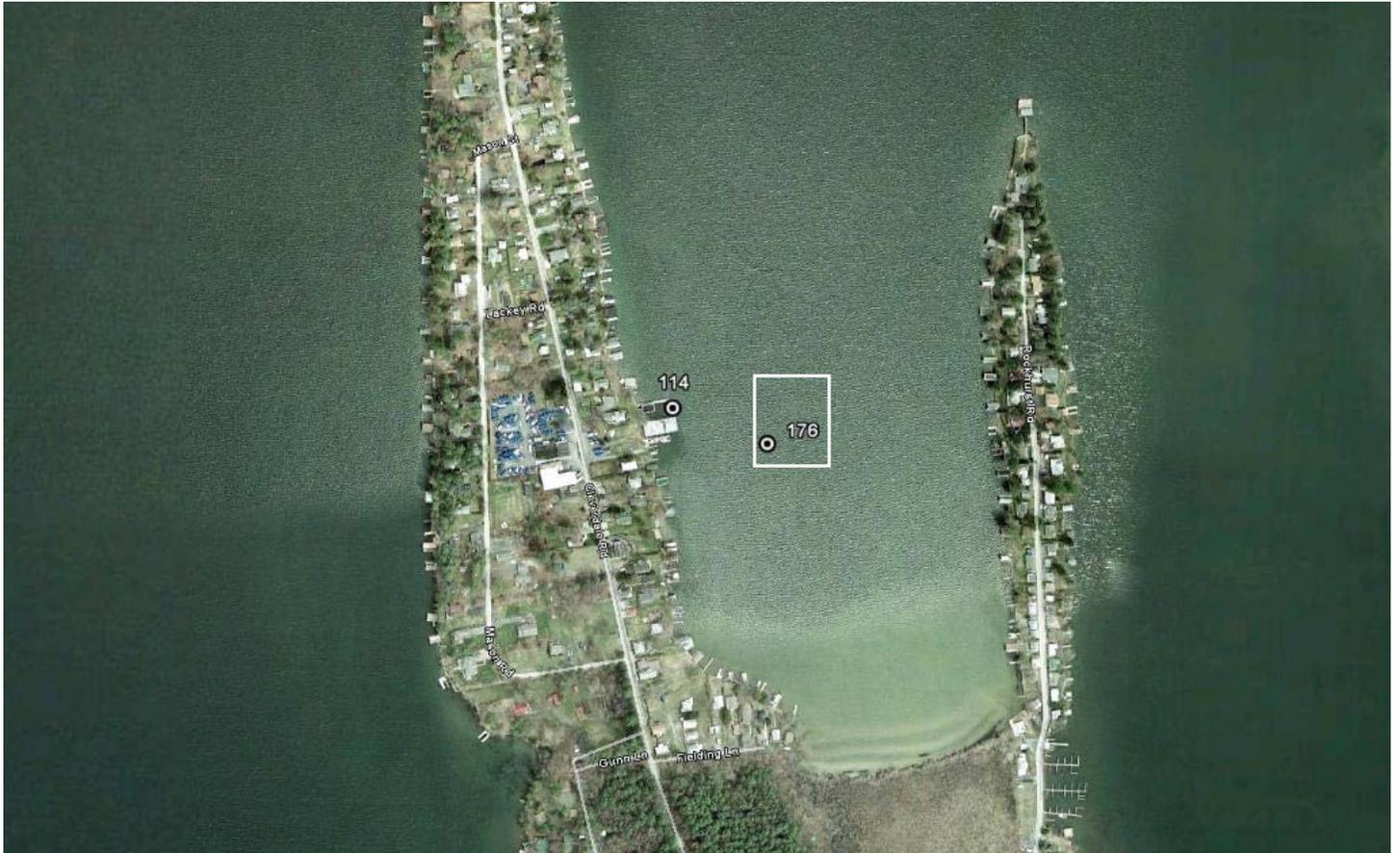
<p><b>2008-2009</b> <b>Benthic Barrier Coverage</b> <b>Paradise Bay (M-41);</b> <b>Red Rock Bay (M-170)</b> Lake George, Queensbury, NY</p>		<p>NYSDOP Orthophoto Nov. 2006</p>	<p><b>Lycott Environmental Inc.</b> 600 Charlton Rd. Southbridge, MA 01551 Ph. 508-765-0101 Fax. 508-765-1352 <a href="http://www.lycott.com">www.lycott.com</a> lycott@aol.com</p>
<p>Scale: 1:2733</p>			

EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT



<b>2009</b> <b>Benthic Barrier Coverage</b> <b>Arcady Bay Sites</b> <b>(M-169, M-177)</b> Hague, NY		NYSDOP Orthophoto Nov. 2006	<b>Lycott Environmental Inc.</b> 600 Charlton Rd. Southbridge, MA 01551 Ph. 508-765-0101 Fax. 508-765-1352 <a href="http://www.lycott.com">www.lycott.com</a> lycott@aol.com
	Scale 1:1105		

EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT



<p><b>2009</b> <b>Benthic Barrier Coverage</b> <b>Sandy Bay (M-176)</b> Lake George Queensbury, NY</p>		<p>NYS DOP Orthophoto Nov. 2006</p>	<p><b>Lycott Environmental Inc.</b> 600 Charlton Rd. Southbridge, MA 01551 Ph. 508-765-0101 Fax. 508-765-1352 <a href="http://www.lycott.com">www.lycott.com</a> lycott@aol.com</p>
<p>Scale 1:4800</p>			

EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT



<p><b>2009</b> <b>Benthic Barrier Coverage</b> <b>Blair's Bay South (M-175)</b> Lake George Putnam, NY</p>		<p>NYS DOP Orthophoto Nov. 2006</p>	<p><b>Lycott Environmental Inc.</b> 600 Charlton Rd. Southbridge, MA 01551 Ph. 508-765-0101 Fax. 508-765-1352 <a href="http://www.lycott.com">www.lycott.com</a> lycott@aol.com</p>
<p>Scale 1:2420</p>			



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

**APPENDIX C**

**Milfoil Site Waypoint Data**

All data presented were collected summer 2009 using a handheld Garmin Colorado 400T and recorded as WGS 84 datum. Several sites have more than a single waypoint. This occurs where there are several, disconnected patches (e.g., M-152) and when the site is elongated. In the latter case waypoints were dropped at the extremities of the sites (e.g., M-175). An attempt was made to position waypoints at or near the centroid of each site or each patch within a site. Site reference points (column 3) is also given for the electronic KML file submitted with this report. This file is easily viewable in GoogleEarth™.

<b>Site #</b>	<b>Site Name</b>	<b>KML-file Map Code</b>	<b>Position (WGS 84)</b>
1	NWB-Head of Bay	1	N43 36.672 W73 36.884
2	Conger's Point	2	N43 33.415 W73 39.092
3	SW Conger's Pt	3	N43 33.374 W73 39.085
4	NW Sweetbriar Is	4	N43 32.825 W73 39.726
5	W. Green Island	5	N43 33.702 W73 38.836
6	Sunset Bay	6A	N43 38.755 W73 30.237
6	Sunset Bay	6B	N43 38.720 W73 30.246
6	Sunset Bay	6C	N43 38.703 W73 30.297
7	Shepards Park	7	N43 25.503 W73 42.662
8	West Brook	8	N43 25.223 W73 42.495
9	Million Dollar Beach	9	N43 25.121 W73 42.183
10	East Brook	10	N43 25.092 W73 42.076
11	S. End of Warner Bay	11	N43 27.798 W73 37.667
12	LG Outlet	12	N43 49.835 W73 25.571
13	NE Mossy Pt.	13	N43 49.199 W73 25.783
14	SE Happy Family Is.	14	N43 27.367 W73 38.569
15	Finkle Brook	15	N43 33.845 W73 39.058
16	Middleworth Bay	16	N43 29.498 W73 40.623
17	E. end Echo Bay	17	N43 29.848 W73 37.960
18	Hague Boat Launch	18	N43 44.642 W73 29.919
19	Dunham's Bay	19N	N43 26.707 W73 39.159
19	Dunham's Bay	19S	N43 26.596 W73 39.189
20	Huddle Bay	20A	N43 32.270 W73 39.653
20	Huddle Bay	20B	N43 32.309 W73 39.806
20	Huddle Bay	20C	N43 32.359 W73 39.615
21	Sheriff's Dock	21	N43 25.368 W73 42.721
22	Shadow Bay	22	N43 35.829 W73 38.069
23	Lake George YC	23	N43 29.835 W73 40.475

**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

24	NWB-W. Tongue Mtn	24	N43 35.892 W73 37.131
24	NWB-W. Tongue Mtn	24B	N43 35.900 W73 37.188
25	Basin Bay	25	N43 31.386 W73 40.287
26	SW Cannon Pt	26	N43 28.069 W73 41.039
27	NW Cooper Pt.	27	N43 27.562 W73 41.282
28	S. Hearthstone	28	N43 27.074 W73 41.536
29	Bay. NE Tea Is.	29	N43 26.346 W73 41.920
30	N. Tea Is Bay	30	N43 26.335 W73 42.123
31	English Brook	31	N43 25.893 W73 42.317
32	Crosbyside	32	N43 25.295 W73 41.889
33	S. Plum Pt.	33	N43 26.698 W73 40.641
34	Plum & Woods Pt.	34	N43 26.933 W73 40.471
35	Bay S of Fan Pt.	35	N43 35.283 W73 37.431
36	Dark Bay	36	N43 26.834 W73 39.915
37	S. Warner Bay	37	N43 27.940 W73 37.661
38	S. Warner Bay-B	38	N43 27.895 W73 37.645
39	S. Katskill Bay	39	N43 28.323 W73 37.662
40	Bay S. of Red Rock Bay	40	N43 34.425 W73 34.977
41	Paradise Bay	41A	N43 34.886 W73 34.630
41	Paradise Bay	41B	N43 34.906 W73 34.589
42	Bolton Bay T55	42	N43 33.022 W73 39.303
43	Bolton Bay T54	43	N43 33.104 W73 39.308
44	Bolton Bay NE Bridge	44	N43 33.495 W73 38.962
45	Tiroga/Black Pt.	45	N43 48.317 W73 26.200
46	Leotine/Clay	46	N43 32.560 W73 39.266
47	Smith Bay	47	N43 43.334 W73 28.062
48	Gull Bay	48A	N43 43.849 W73 27.675
48	Gull Bay	48B	N43 43.834 W73 27.676
48	Gull Bay	48C	N43 43.825 W73 27.641
48	Gull Bay	48D	N43 43.835 W73 27.635
49	S. Burnt Point	49	N43 43.177 W73 28.277
50	Clark Hollow	50	N43 42.463 W73 28.371
51	Eichlerville Bay	51	N43 38.505 W73 30.841
51	Eichlerville Bay	51B	N43 38.482 W73 30.826
52	Roger's Rock Beach	52	N43 47.526 W73 28.862
53	W. Tongue Mtn	53	N43 35.835 W73 37.251
54	Cooks Bay @ HL	54	N43 38.336 W73 30.853
55	Indian Bay	55	N43 38.736 W73 30.132
56	S. Sawmill Bay	56A	N43 33.631 W73 38.956
56	S. Sawmill Bay	56B	N43 33.632 W73 38.928
56	S. Sawmill Bay	56C	N43 33.653 W73 38.931
56	S. Sawmill Bay	56D	N43 33.620 W73 38.920
57	S. Green Is.	57	N43 33.258 W73 38.727

**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

58	Silver Bay	58	N43 41.625 W73 30.198
59	Hondah Cottages	59	N43 33.684 W73 39.076
60	Camp Andrew Bay	60	N43 31.179 W73 37.400
61	Harbor Is- Moonlight B.	61	N43 38.307 W73 32.092
62	Marine Village	62	N43 25.642 W73 42.563
63	S. Agnes Is.	63	N43 39.361 W73 29.645
64	3 Brothers Is.	64	N43 32.141 W73 39.349
65	W. of 3 Brothers Is.	65	N43 32.111 W73 39.218
66	N. Sawmill Bay	66	N43 33.814 W73 38.961
67	Bluff Head Creek	67	N43 40.176 W73 29.596
68	Rock- Dunbar Is.	68	N43 38.879 W73 30.132
69	Kitchal Bay	69	N43 38.156 W73 31.291
70	S. Trib. W Halfway Is.	70A	N43 37.569 W73 33.604
70	S. Trib. W Halfway Is.	70B	N43 37.587 W73 33.550
71	Hague Brook	71A	N43 44.596 W73 29.797
71	Hague Brook	71B	N43 44.686 W73 29.742
71	Hague Brook	71C	N43 39.774 W73 29.624
72	South Cook's Bay	72	N43 47.506 W73 28.948
73	Dark Bay Trib	73	N43 44.363 W73 27.617
74	Point N. of Agnes Is.	74	N43 39.764 W73 29.664
75	Bell Pt.	75	N43 34.908 W73 38.524
76	S. Shelving Rock Pt.	76	N43 33.986 W73 36.396
77	Walker Point	77	N43 36.093 W73 37.826
78	N. of W. Tongue Mtn.	78	N43 36.064 W73 36.987
79	Shore S. of Bear Pt.	79	N43 36.411 W73 36.893
80	Bay S of Bear Pt.	80	N43 36.471 W73 36.907
81	Butternut Brook	81	N43 31.224 W73 37.630
82	Barber Bay	82	N43 30.331 W73 37.977
83	Van Warmer Bay	83	N43 28.940 W73 37.777
84	Harris Bay Inlet	84	N43 27.310 W73 38.521
85	Dunham's Bay Inlet	85	N43 26.547 W73 39.186
86	East Shore	86	N43 25.355 W73 41.883
87	Crosbyside	87	N43 25.247 W73 41.907
88	Crosbyside	88	N43 25.195 W73 41.945
89	Crosbyside	89	N43 25.140 W73 41.993
90	S. Tea Is. Culvert	90	N43 26.199 W73 42.227
91	Harris Bay E. Side	91	N43 27.541 W73 38.683
92	E. of Hens & Chicks Is.	92	N43 33.635 W73 36.704
93	E. of Refuge Is	93	N43 32.655 W73 36.716
94	NW 3 Sirens Is.	94	N43 36.635 W73 33.099
95	NWB-Head of Bay	95	N43 36.853 W73 37.087
96	Harris Bay- Midbay	96	N43 27.478 W73 38.760
97	W. side Clay Is.	97	N43 32.549 W73 39.102

**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

98	S. Jenkin's Brook	98	N43 44.042 W73 30.002
99	Holman Hill Creek	99	N43 44.275 W73 30.022
100	Temple Island	100	N43 45.144 W73 29.081
101	Brook N. Green Pt.	101	N43 40.384 W73 29.660
102	S. Trib. 5 Mile Mtn. Brk	102	N43 37.863 W73 33.231
103	N. N. Meadow Pt.	103	N43 39.117 W73 29.794
104	Assembly Pt. West	104	N43 27.635 W73 39.491
105	Assembly Pt. NW	105	N43 28.164 W73 39.566
106	Assembly Pt.	106	N43 27.549 W73 39.074
107	Elizabeth Is.	107A	N43 29.647 W73 37.993
107	Elizabeth Is.	107B	N43 29.646 W73 37.979
108	Harris Bay Culvert	108	N43 27.576 W73 38.588
109	SW Happy Family Is.	109	N43 27.383 W73 38.729
110	Diamond Pt.	110	N43 28.947 W73 41.030
111	NWB-NE Walker Pt.	111	N43 36.670 W73 37.480
112	Whale Rock	112	N43 39.315 W73 29.756
113	Diamond Is.	113	N43 27.508 W73 40.600
114	Mooring Post Marina	114	N43 28.458 W73 38.414
115	Cape Cod Village	115	N43 43.925 W73 29.888
116	Holman Hill Creek N.	116	N43 44.452 W73 30.058
117	Glenbernie Blairs Bay	117	N43 45.829 W73 27.533
118	Blairs Bay- North	118	N43 45.888 W73 27.523
119	E. Side Harris Bay YC	119	N43 27.365 W73 38.363
120	North Warner Bay	120	N43 28.067 W73 37.935
121	East Shore	121	N43 26.344 W73 41.095
122	Still Bay	122	N43 27.890 W73 41.210
123	West Flirtation Is.	123A	N43 45.394 W73 28.826
123	West Flirtation Is.	123B	N43 45.461 W73 28.788
124	N. Shelving Rock Pt.	124	N43 34.071 W73 36.298
125	E. of Sagamore Is.	125	N43 37.210 W73 32.613
126	NW Dollar Island	126	N43 35.819 W73 35.069
127	SW French Pt.	127	N43 35.475 W73 35.264
128	B. N of Commission Pt.	128	N43 34.428 W73 34.869
129	Camp Sagamore	129	N43 45.451 W73 27.839
130	N. Trib. 5 Mile Mtn Brk	130	N43 38.032 W73 33.151
131	N.Steere Is.	131	N43 38.524 W73 32.788
132	Lamb Shanty Bay	132	N43 41.979 W73 28.603
133	Roger's Rock Club	133	N43 48.132 W73 27.530
134	St. Sacrement Is.	134	N43 37.255 W73 32.776
135	NE Van Warmer Bay	135	N43 29.176 W73 37.750
136	Assembly Pt. Pocket B.	136	N43 27.517 W73 39.370
137	West Dollar Island	137	N43 35.954 W73 34.878
138	Bay N. Fan Pt	138	N43 35.325 W73 37.425

**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

139	NE Little Harbor Island	139	N43 35.028 W73 35.961
140	NW of 3 Sirens Is.	140	N43 35.119 W73 34.346
141	Camp Andrew Bay West	141	N43 31.239 W73 37.386
142	S. of Fox Island	142	N43 35.166 W73 34.404
143	S. Bluff Head Creek	143	N43 40.140 W73 29.585
144	N. Jenkin's Brook	144	N43 44.179 W73 30.040
145	Juniper Is.	145A	N43 47.625 W73 28.249
145	Juniper Is.	145B	N43 47.610 W73 28.198
146	Blairs Bay-South	146	N43 45.655 W73 27.606
147	Gull Island	147	N43 43.880 W73 28.131
148	W. side Tea Is.	148A	N43 26.266 W73 42.013
148	W. side Tea Is.	148B	N43 26.236 W73 42.044
149	Fish Point	149	N43 31.486 W73 39.724
150	E. Rock Bros. Is.	150	N43 44.845 W73 27.678
151	Indian Pt.	151	N43 43.461 W73 28.053
152	SE Elizabeth Is.	152A	N43 29.506 W73 37.945
152	SE Elizabeth Is.	152B	N43 29.464 W73 37.922
152	SE Elizabeth Is.	152C	N43 29.439 W73 37.907
152	SE Elizabeth Is.	152D	N43 29.422 W73 37.898
152	SE Elizabeth Is.	152E	N43 29.368 W73 37.885
152	SE Elizabeth Is.	152F	N43 29.325 W73 37.865
152	SE Elizabeth Is.	152G	N43 29.302 W73 37.876
153	Eye of Needle	153	N43 32.378 W73 39.259
154	Roger's Slide	154	N43 48.134 W73 27.813
155	N. Juniper Is	155	N43 47.662 W73 28.150
156	NE Cove Assembly Pt.	156	N43 28.302 W73 39.302
157	S. Canoe Islands	157	N43 28.610 W73 40.149
158	Georgian	158	N43 25.727 W73 42.450
159	Robert Allen	159	N43 44.723 W73 27.691
160	Van Buren Bay-S	160	N43 41.968 W73 30.247
161	E. Speaker Heck Ch.	161	N43 28.507 W73 39.602
162	N. Hazel Island	162	N43 35.102 W73 34.519
163	14 Mile Island	163A	N43 33.822 W73 36.724
163	15 Mile Island	163B	N43 33.799 W73 36.784
163	16 Mile Island	163C	N43 33.769 W73 36.798
164	N. Leotine Shoal	164	N43 32.651 W73 39.271
165	N. Leotine Shoal	165A	N43 31.356 W73 39.892
165	Basin Bay Shoal	165B	N43 31.356 W73 39.828
166	Harris Bay Shore Acres	166	N43 27.996 W73 38.554
167	Clay Island SW	167	N43 32.621 W73 39.455
168	SW Green Island	168	N43 33.599 W73 38.881
169	Arcady Bay	169	N43 42.888 W73 29.784
170	Red Rock Bay	170	N43 34.781 W73 34.687

**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

171	S. Delaware Is.	171	N43 40.461 W73 30.476
172	N Black Mtn. Point	172	N43 35.878 W73 33.853
173	BoltonBay2	No Data	
174	BoltonBay3	No Data	
175	Blair's Bay S.Shore	175END	N43 45.570 W73 27.797
175	Blair's Bay S.Shore	175START	N43 45.623 W73 27.659
176	Sandy Bay	176	N43 28.437 W73 38.337
177	Arcady Bay Docks	177	N43 42.867 W73 29.869
178	Blair's Bay N. Shore1	178	N43 46.142 W73 27.758
179	Blair's Bay N. Shore2	179	N43 46.117 W73 27.706



**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

**APPENDIX D  
Lake George Benthic Barrier Inventory 1985-2009**

The follow data is an attempt to inventory benthic barrier history for Lake George throughout the history of milfoil management. Data from 1985-2001 was gathered from site history information (Appendix A) and old spreadsheet data supplied to in 2002 when Lycott Environmental Inc., assumed management duties. Older data did not always indicated precise numbers of panels. In some cases no information is available (results in negative values in last column), in other cases an estimate (\*) was made based upon several years of sites visits (RWK, pers. obs.). 2002-2009 data are Lycott data.

Site	Name	Basin	2010 Projection	Total Installed 85'-01'	Total Installed 02'-09'	Total Removed 02'-09'	Total Panels in LG
1	NWB-Head of Bay	Middle	M	0	74	0	74
2	Conger's Point	Middle	HH	0	2	0	2
3	SW Conger's Pt	Middle	HH	0	0	0	0
4	NW Sweetbriar Is	Middle	HH	0	0	0	0
5	W. Green Island	Middle	HH	0	0	0	0
6	Sunset Bay	North	M	40*	0	0	40*
7	Shepards Park	South	HH	10	0	4	6
8	West Brook	South	HH	15	121	136	0
9	Million Dollar Beach	South	HH	0	0	0	0
10	East Brook	South	HH	30*	0	20	10*
11	S. End of Warner Bay	South	HH	0	0	0	0
12	LG Outlet	North	?	0	0	0	0
13	NE Mossy Pt.	North	M	0	2	2	0
14	SE Happy Family Is.	South	HH	0	0	0	0
15	Finkle Brook	Middle	HH	0	0	0	0
16	Middleworth Bay	South	HH	0	5	0	5
17	E. end Echo Bay	Middle	?	0	0	0	0
18	Hague Boat Launch	North	HH	0	19	19	0
19	Dunham's Bay	South	HH	10*	240	75	175
20	Huddle Bay	Middle	M	0	118	127	-9
21	Sheriff's Dock	South	HH	286.25	0	0	286.25
22	Shadow Bay	Middle	HH	0	1	0	1
23	Lake George YC	South	HH	0	0	0	0
24	NWB-W. Tongue Mtn	Middle	HH	0	27	0	27
25	Basin Bay	Middle	HH	0	4	0	4
26	SW Cannon Pt	South	M	0	63.4	73	-9.6
27	NW Cooper Pt.	South	HH	0	0	0	0
28	S. Hearthstone	South	HH	0	0	0	0
29	Bay. NE Tea Is.	South	HH	0	0	0	0
30	N. Tea Is Bay	South	HH	0	120.7	43	77.7
31	English Brook	South	HH	0	0	0	0
32	Crosbyside	South	HH	0	0	0	0
33	S. Plum Pt.	South	HH	0	0	0	0
34	Plum & Woods Pt.	South	HH	0	0	0	0
35	Bay S of Fan Pt.	Middle	HH	0	0	0	0
36	Dark Bay	South	HH	0	3	0	3
37	S. Warner Bay	South	HH	0	0	0	0

**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

38	S. Warner Bay-B	South	HH	0	0	0	0
39	S. Katskill Bay	South	HH	0	0	0	0
40	Bay S. of Red Rock B	Middle	HH	0	0	0	0
41	Paradise Bay	Middle	HH	0	32	0	32
42	Bolton Bay T55	Middle	HH	0	0	0	0
43	Bolton Bay T54	Middle	HH	0	0	0	0
44	Bolton Bay NE Bridge	Middle	HH	0	0	0	0
45	Tiroga/Black Pt.	North	?	0	0	0	0
46	Leotine/Clay	Middle	HH	15.5	5.5	20	1
47	Smith Bay	North	HH	0	4	0	4
48	Gull Bay	North	M	0	62	0	62
49	S. Burnt Point	North	HH	0	0	0	0
50	Clark Hollow	North	BB	0	22.5	0	22.5
51	Eichlerville Bay	North	BB	0	56	0	56
52	Roger's Rock Beach	North	HH	0	0	0	0
53	W. Tongue Mtn	Middle	HH	0	0	0	0
54	Cooks Bay @ HL	North	HH	0	0	0	0
55	Indian Bay	North	HH	0	0	0	0
56	S. Sawmill Bay	Middle	HH	40*	39	17	62*
57	S. Green Is.	Middle	HH	0	0	0	0
58	Silver Bay	North	HH	0	1	0	1
59	Hondah Cottages	Middle	HH	0	0	0	0
60	Camp Andrew Bay	Middle	HH	7.1	5	7.1	5
61	Harbor Is- Moonlight B	North	HH	0	12	0	12
62	Marine Village	South	HH	0	0	0	0
63	S. Agnes Is.	North	HH	0	0	0	0
64	3 Brothers Is.	Middle	HH	0	0	0	0
65	W. of 3 Brothers Is.	Middle	HH	0	0	0	0
66	N. Sawmill Bay	Middle	HH	15*	43	0	58*
67	Bluff Head Creek	North	HH	0	0	0	0
68	Rock- Dunbar Is.	North	HH	0	0	0	0
69	Kitchal Bay	North	HH	0	0	0	0
70	S. Trib. W Halfway Is.	North	HH	0	0	0	0
71	Hague Brook	North	M	0	182	182	0
72	South Cook's Bay	North	HH	0	6	0	6
73	Dark Bay Trib	North	HH	0	0	0	0
74	Point N. of Agnes Is.	North	HH	0	10	0	10
75	Bell Pt.	Middle	HH	0	8	0	8
76	S. Shelving Rock Pt.	Middle	HH	1	3	1	3
77	Walker Point	Middle	HH	0	0	0	0
78	N. of W. Tongue Mtn.	Middle	HH	0	0	0	0
79	Shore S. of Bear Pt.	Middle	HH	0	0	0	0
80	Bay S of Bear Pt.	Middle	HH	0	7	0	7
81	Butternut Brook	Middle	HH	0	0	0	0
82	Barber Bay	Middle	HH	0	0	0	0
83	Van Warmer Bay	South	HH	0	0	0	0
84	Harris Bay Inlet	South	HH	0	0	0	0
85	Dunham's Bay Inlet	South	HH	0	0	0	0
86	East Shore	South	HH	0	0	0	0
87	Crosbyside	South	HH	0	0	0	0

**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

88	Crosbyside	South	HH	0	0	0	0
89	Crosbyside	South	HH	0	0	0	0
90	S. Tea Is. Culvert	South	HH	0	0	0	0
91	Harris Bay E. Side	South	HH	0	18	0	18
92	E. of Hens & Chicks Is	Middle	HH	0	0	0	0
93	E. of Refuge Is	Middle	HH	0	0	0	0
94	NW 3 Sirens Is.	North	HH	0	0	0	0
95	NWB-Head of Bay	Middle	HH	0	0	0	0
96	Harris Bay- Midbay	South	BB	0	0	0	0
97	W. side Clay Is.	Middle	HH	0	0	0	0
98	S. Jenkin's Brook	North	HH	20*	23	0	43*
99	Holman Hill Creek	North	HH	0	0	0	0
100	Temple Island	North	HH	0	0	0	0
101	Brook N. Green Pt.	North	HH	0	0	0	0
102	S. Trib. 5 Mile Mtn. Br	North	HH	0	0	0	0
103	N. N. Meadow Pt.	North	HH	0	0	0	0
104	Assembly Pt. West	South	HH	0	0	0	0
105	Assembly Pt. NW	South	HH	0	0	0	0
106	Assembly Pt.	South	HH	0	0	0	0
107	Elizabeth Is.	South	HH	0	17	0	17
108	Harris Bay Culvert	South	HH	0	0	0	0
109	SW Happy Family Is.	South	HH	0	0	0	0
110	Diamond Pt.	South	HH	0	0	0	0
111	NWB-NE Walker Pt.	Middle	HH	0	0	0	0
112	Whale Rock	North	HH	3	0	3	0
113	Diamond Is.	South	HH	0	0	0	0
114	Mooring Post Marina	South	HH	0	0	0	0
115	Cape Cod Village	North	HH	0	0	0	0
116	Holman Hill Creek N.	North	HH	0	7	0	7
117	Glenbernie Blairs Bay	North	HH	0	32	0	32
118	Blairs Bay- North	North	HH	0	0	0	0
119	E. Side Harris Bay YC	South	HH	0	0	0	0
120	North Warner Bay	South	HH	0	0	0	0
121	East Shore	Middle	HH	0	0	0	0
122	Still Bay	Middle	HH	0	0	0	0
123	West Flirtation Is.	North	HH	0	0	0	0
124	N. Shelving Rock Pt.	Middle	HH	0	0	0	0
125	E. of Sagamore Is.	North	HH	0	0	0	0
126	NW Dollar Island	Middle	HH	0	0	0	0
127	SW French Pt.	Middle	HH	0	0	0	0
128	B. N of Commission Pt	Middle	HH	0	12	0	12
129	Camp Sagamore	North	HH	0	0	0	0
130	N. Trib. 5 Mile Mtn Brk	Middle	HH	0	0	0	0
131	N.Steere Is.	North	HH	0	0	0	0
132	Lamb Shanty Bay	North	HH	0	0	0	0
133	Roger's Rock Club	North	HH	0	0	0	0
134	St. Sacrement Is.	North	HH	0	0	0	0
135	NE Van Warner Bay	South	HH	0	0	0	0
136	Assembly Pt. Pocket B	South	HH	0	0	0	0
137	West Dollar Island	Middle	HH	0	0	0	0

**EURASIAN WATERMILFOIL MANAGEMENT IN LAKE GEORGE  
2009 PROGRAM REPORT**

138	Bay N. Fan Pt	Middle	HH	0	3	0	3	
139	NE Little Harbor Island	North	HH	0	0	0	0	
140	NW of 3 Sirens Is.	North	HH	0	0	0	0	
141	Camp Andrew Bay W.	Middle	HH	0	4	4	0	
142	S. of Fox Island	Middle	HH	0	0	0	0	
143	S. Bluff Head Creek	North	HH	0	2	0	2	
144	N. Jenkin's Brook	North	HH	0	6	0	6	
145	Juniper Is.	North	HH	0	0	0	0	
146	Blairs Bay-South	North	HH	0	0	0	0	
147	Gull Island	North	HH	0	12	12	0	
148	W. side Tea Is.	South	HH	0	15	15	0	
149	Fish Point	Middle	HH	0	5	0	5	
150	E. Rock Bros. Is.	North	HH	0	0	0	0	
151	Indian Pt.	North	HH	0	0	0	0	
152	SE Elizabeth Is.	South	HH	0	31	0	31	
153	Eye of Needle	Middle	HH	0	4	0	4	
154	Roger's Slide	North	HH	0	3	0	3	
155	N. Juniper Is	North	HH	0	1	1	0	
156	NE Cove Assembly Pt.	North	HH	0	0	0	0	
157	S. Canoe Islands	South	HH	0	13.5	0	13.5	
158	Georgian	South	HH	0	30	30	0	
159	Robert Allen	North	HH	0	0.25	0	0.25	
160	Van Buren Bay-S	North	HH	0	0	0	0	
161	E. Speaker Heck Ch.	South	HH	0	0	0	0	
162	N. Hazel Island	Middle	HH	0	0	0	0	
163	14 Mile Island	Middle	HH	0	19	15	4	
164	N. Leotine Shoal	Middle	HH	0	0	0	0	
165	Basin Bay Shoal	Middle	HH	0	9	0	9	
166	Harris Bay Shore	South	HH	0	0	0	0	
167	Clay Island SW	Middle	M	0	8	0	8	
168	SW Green Island	Middle	HH	0	19	0	19	
169	Arcady Bay	North	HH	0	19.5	0	19.5	
170	Red Rock Bay	Middle	HH	0	15	0	15	
171	S. Delaware Is.	North	HH	0	1	0	1	
172	N Black Mtn. Point	Middle	HH	0	0	0	0	
173	BoltonBay2	Middle	HH	0	0	0	0	
174	BoltonBay3	Middle	HH	0	0	0	0	
175	Blair's Bay S.Shore	North	HH	0	11	0	11	
176	Sandy Bay	South	HH	0	31	0	31	
177	Arcady Bay Docks	North	HH	0	13	0	13	
178	Blair's Bay N. Shore1	North	HH	0	3	0	3	
179	Blair's Bay N. Shore2	North	HH	0	0	0	0	
				<b>Panels:</b>	<b>492.9</b>	<b>1685.4</b>	<b>806.1</b>	<b>1372.1</b>
				<b>Acreage:</b>	<b>4.2</b>	<b>14.5</b>	<b>6.9</b>	<b>11.8</b>