

Monitoring Report

Invasive Aquatic Plants

Candlewood Lake

Lake Lillinonah

Lake Zoar

2014

Bulletin 1045

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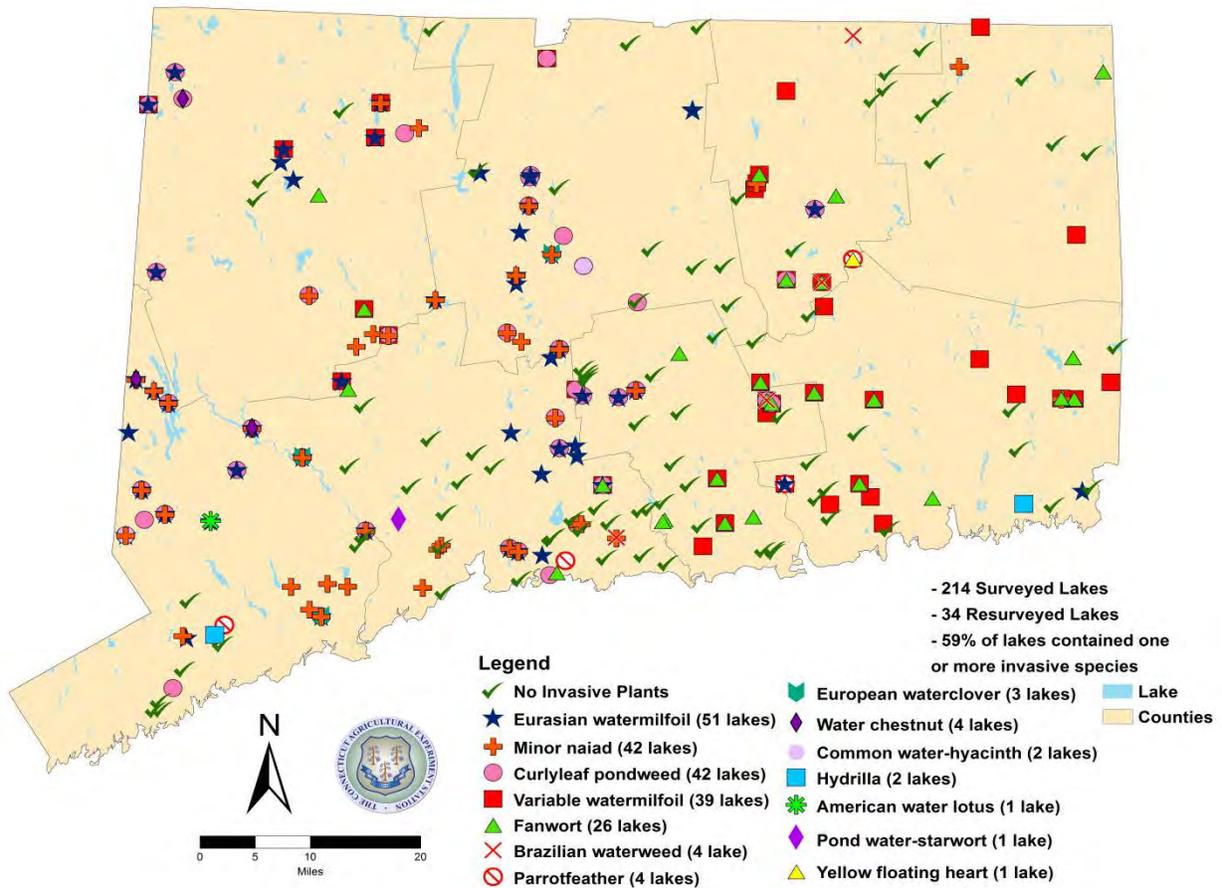


Figure 1. Locations of invasive aquatic plants found by CAES IAPP from 2004 to 2014.

Introduction

Lakes Candlewood, Lillinonah and Zoar are three of the Connecticut’s largest lakes. They offer exceptional recreational opportunities for fishing, boating and outdoor enthusiasts. Through generating stations operated by FirstLight Power Resources Services, LLC (FLP) these lakes provide the State’s largest supply of non-greenhouse gas producing hydroelectric power. Invasive aquatic plants are of great concern because they can impede recreation, degrade native aquatic ecosystems (Barrett 1989, Les and Mehrhoff 1999) and reduce home values (Connecticut Aquatic Nuisance Species Working Group 2006, Fishman et al. 1998). These non-native plants have few natural enemies (Wilcove et al. 1998, Pimintel et al. 2000), and are therefore capable of uncontrolled growth. Once invasive plants are established, long term and costly management programs are often needed. The Federal Energy Regulatory Commission (FERC) Article 409 requires FLP to provide invasive aquatic plant monitoring of Lakes Candlewood, Lillinonah and Zoar (Northeast Generating Company 2005).



Figure 2. Hand removal on Eurasian watermilfoil around dock in Candlewood Lake.

Statewide surveys by The Connecticut Agricultural Experiment Station's (CAES) Invasive Aquatic Plant Program (IAPP) have found 14 invasive aquatic plant species inhabit nearly 60 percent of Connecticut's lakes and ponds (Figure 1) (CAES IAPP, 2014). Eurasian watermilfoil (*Myriophyllum spicatum*) is the most common problem in Lakes Candlewood, Lillinonah and Zoar. This plant has been present in Candlewood Lake since at least the early 1980's (Siver et al. 1986) when it probably entered Lakes Lillinonah and Zoar as well.

CAES IAPP has studied the plant communities in lakes Candlewood, Lillinonah and Zoar since 2005 and has found many similarities (Bugbee et al. 2013, Bugbee et al. 2012, Bugbee 2011, Bugbee and Balfour 2010, Bugbee and Reeps 2009, Bugbee et al. 2008). As many as 18 plant species occur in the lakes with Eurasian watermilfoil, minor naiad (*Najas minor*), curlyleaf pondweed (*Potamogeton crispus*), European watercress (*Marsilea quadrifolia*), and water chestnut (*Trapa natans*) being invasive. Water chestnut is found only in Lake Lillinonah and European watercress is found only in Lake Zoar. Eurasian watermilfoil covers the largest area in the lakes followed by minor naiad and curlyleaf pondweed (Bugbee et al. 2013). Curlyleaf pondweed may be underestimated prior to 2012 because it naturally dies back before the summer surveys (Catling and Dobson 1985). Although the plant communities are similar in all three lakes, differences in the way invasive plants are managed and differences in the closed impoundment nature of Candlewood Lake versus the riverine systems of lakes Lillinonah and Zoar result in dissimilarities in plant populations from year to year.

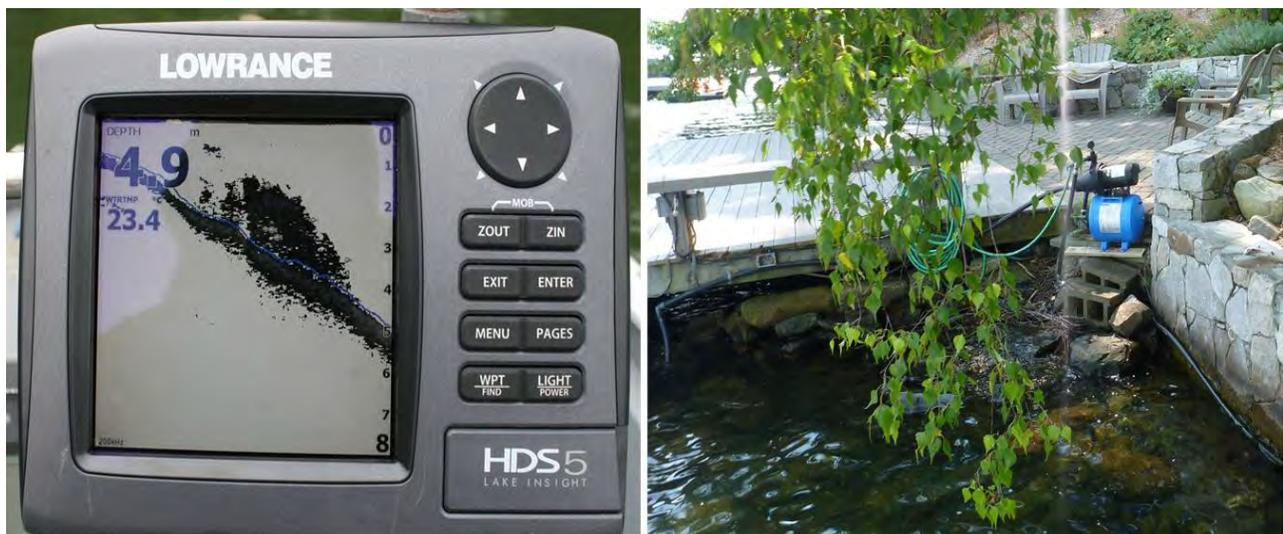


Figure 3. Sonar (left) shows submersed Eurasian watermilfoil (dark blotch) at depths of 1 to 5 meters. Locations of water intakes (right) were georeferenced.

Winter drawdown and occasional harvesting (Figure 2) are used to manage Eurasian watermilfoil in Candlewood Lake (Tarsi 2006). Deep winter drawdowns (3 m) with long exposure times have proven most effective (Bugbee et al. 2013). In 2008, 2010 and 2012, milfoil weevils (*Euhrychiopsis lecontei*) were introduced into Candlewood Lake to control Eurasian watermilfoil; however, their efficacy appears minimal. In Lake Zoar nuisance vegetation is managed by harvesting and herbicide applications. Minimal aquatic plant management occurs in Lake Lillinonah but passive control may be occurring due to occasional low water levels and storm events that cause intense flow rates.

The following report represents the eighth year of CAES IAPP surveillance and mapping of invasive aquatic plants in Lakes Candlewood, Lillinonah and Zoar for FLP. The report fulfills the requirements of FERC Article 409.

Objectives

Survey and map invasive aquatic plants in Lakes Candlewood, Lillinonah and Zoar to fulfill the FERC nuisance plant monitoring requirement in Article 409. Compare the long term effects of winter drawdown on the aquatic plant community. Provide the science necessary to manage invasive aquatic vegetation, enhance native species, provide overall protection of the water bodies, and assure continuance of hydroelectric power generation.

Materials and Methods

Our 2014 aquatic vegetation surveys utilized methods established by CAES IAPP (2014). We recorded locations of all invasive plants with Trimble GeoXT[®] or ProXT[®] global positioning systems (GPS) with sub-meter accuracy. In 2014, we added a Lowrance HDS[®] sonar system with structure scan technology to determine patches near the bottom that were not viewable from the surface (Figure 2). This eliminated the hundreds of grapple tosses needed during the 2013 survey when low water clarity obscured much of the invasive plant biomass. We circumnavigated the plant patches to form georeferenced polygons. Patches covering less than one square meter were recorded as a point and assigned an area of 0.0002 acres (1 m²). We measured depth with a rake handle, drop line or digital depth finder and sediment type was estimated. Plant samples were obtained in shallow water with a rake and in deeper water with a grapple. We measured plant abundance using a visual scale of 1 to 5 (1 = single stem; 2 = few stems; 3 = common; 4 = abundant; 5 = extremely abundant). When field identifications were questionable, we brought samples back to the lab for review using the taxonomy of Crow and Hellquist (2000a, 2000b). We post-processed the GPS data in Pathfinder[®] 5.10 (Trimble Navigation Limited, Sunnyvale, CA) and then imported it into ArcGIS[®] 10.2 (ESRI, Redlands, CA), where it was geo-corrected. Data were then overlaid onto 2010 United States Department of Agriculture - National Agricultural Inventory Program (NAIP) aerial imagery with 1 m resolution.

We collected occurrence and abundance plant information from ten transects per lake with points positioned 0.5, 5, 10, 20, 30, 40, 50, 60, 70 and 80 m from shore. In Candlewood Lake these transects were a subset of the 105 laid out in 2005 (Bugbee et al. 2008) and contained at least one occurrence of each native and invasive plant species. In Lake Zoar, previously established transects were used, but not all species in the earlier surveys were present. In Lake Lillinonah, we decreased the number of transects from the 16 we surveyed in 2009 to 10. We chose transects that represented the greatest species richness. Significant differences in the frequency of occurrence of plant species between years along transects ($p < 0.05$) were determined using analysis of variance (ANOVA) followed by Tukey's post-hoc test. Significant differences in species richness per transect point were determined by \pm one standard error of the mean (SEM). We surveyed Candlewood Lake for curlyleaf pondweed from June 12 to 18 and all invasive plants from July 30 to September 11. This was the second

Table 1. The frequency of occurrence and area of aquatic plants in Candlewood Lake.

Scientific Name	Common Name	Frequency of Occurrence (percent *)								Area (acres)							
		2005	2008	2009	2010	2011	2012	2013	2014	2007	2008	2009	2010	2011	2012	2013	2014
<i>Callitriche sp.</i>	Water starwort	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ND**	ND	ND	ND	ND	ND	ND	ND
<i>Ceratophyllum demersum</i>	Coontail	3.1	33.3	11.3	22.7	29.9	22.7	21.7	22.7	ND	ND	ND	ND	ND	ND	ND	ND
<i>Elatine sp.</i>	Waterwort	0.0	1.0	3.1	2.1	0.0	4.1	0.0	1.0	ND	ND	ND	ND	ND	ND	ND	ND
<i>Eleocharis sp.</i>	Spikerush	0.0	0.0	3.1	1.0	1.0	3.1	0.0	1.0	ND	ND	ND	ND	ND	ND	ND	ND
<i>Elodea nuttallii</i>	Waterweed	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ND	ND	ND	ND	ND	ND	ND	ND
<i>Lemna minor</i>	Duckweed	2.1	6.3	1.0	4.1	7.2	4.1	0.0	3.1	ND	ND	ND	ND	ND	ND	ND	ND
<i>Myriophyllum spicatum</i>	Eurasian watermilfoil	51.0	79.2	64.9	70.1	78.4	79.4	42.3	78.4	221	451	373	461	331	505	259	477
<i>Najas flexilis</i>	Nodding waternymph	7.3	1.0	1.0	0.0	2.0	0.0	0.0	0.0	ND	ND	ND	ND	ND	ND	ND	ND
<i>Najas minor</i>	Minor naiad	12.5	6.3	8.2	11.3	15.5	12.4	19.6	24.7	12	11	26	21	19	32	24	19
<i>Nymphaea odorata</i>	White water lily	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	ND	ND	ND	ND	ND	ND	ND	ND
<i>Potamogeton bicupulatus</i>	Snailseed pondweed	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	ND	ND	ND	ND	ND	ND	ND	ND
<i>Potamogeton crispus</i>	Curlyleaf pondweed	13.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	<1	<1	1	1	<1	0	0	3.9
<i>Potamogeton foliosus</i>	Leafy pondweed	3.1	0.0	0.0	0.0	2.1	1.0	5.2	1.0	ND	ND	ND	ND	ND	ND	ND	ND
<i>Potamogeton gramineus</i>	Variable pondweed	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ND	ND	ND	ND	ND	ND	ND	ND
<i>Potamogeton perfoliatus</i>	pondweed	1.0	2.1	1.0	0.0	0.0	2.1	0.0	1.0	ND	ND	ND	ND	ND	ND	ND	ND
<i>Potamogeton pusillus</i>	Small Pondweed	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	ND	ND	ND	ND	ND	ND	ND	ND
<i>Spirodela polyrhiza</i>	Great duckweed	1.0	0.0	0.0	1.0	5.2	0.0	0.0	0.0	ND	ND	ND	ND	ND	ND	ND	ND
<i>Stuckenia pectinata</i>	Sago pondweed	6.3	1.0	0.0	4.1	0.0	3.1	2.1	2.1	ND	ND	ND	ND	ND	ND	ND	ND
<i>Vallisneria americana</i>	Eel grass	2.1	2.1	4.1	4.1	3.1	4.0	4.1	6.2	ND	ND	ND	ND	ND	ND	ND	ND
<i>Wolffia sp.</i>	Spotless watermeal	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	ND	ND	ND	ND	ND	ND	ND	ND
<i>Zannichellia palustris</i>	Horned pondweed	11.5	3.1	0.0	0.0	0.0	0.0	0.0	0.0	ND	ND	ND	ND	ND	ND	ND	ND
Total Invasive Species Richness		3	3	2	2	2	2	2	2								
Total Native Species Richness		14	11	7	8	8	10	5	9								
Total Species Richness		17	14	9	10	10	12	7	11								
Invasive plant (in bold)																	
* Percent occurrence on 97 points in 10 transects																	
**Not determined																	
Shaded columns indicate deep drawdown years																	

consecutive year we performed the early curlyleaf pondweed survey to provide a more thorough documentation of this plant prior to its summer senescence. When summertime curlyleaf patches overlapped spring patches only the spring data is reported. This eliminated the double reporting of this plant. The Candlewood Lake transect data were obtained from September 2 to 11. We surveyed Lake Zoar for curlyleaf pondweed from June 2 to June 10 and all invasive plants from July 24 to August 28. We obtained transect data on Lake Zoar on August 22 and 28 and Lake Lillinonah on August 7 and 8. Detailed information regarding our “on-lake” time is located in the Appendix (Page 52).

A large number of residents pump water from Candlewood Lake for irrigation. Information on the number and locations of these water intakes is of value when considering aquatic herbicides because irrigation restrictions are usually needed. In 2014, we recorded the location of each water intake with our GPS (Figure 2). Because some water intakes are hidden by vegetation or under docks etc. some were likely missed.

We obtained water samples from Candlewood Lake on August 21 and on Lakes Lillinonah and Zoar on September 4. We used a Secchi disk to measure transparency.

Table 2. Yearly comparisons of the number and size of invasive species patches in Candlewood Lake.

Year	Patch Size (acres)											
	Eurasian watermilfoil				Minor naiad				Curlyleaf pondweed			
	Number	(min)	(max)	(mean)	Number	(min)	(max)	(mean)	Number	(min)	(max)	(mean)
2014	485	0.0002	46.5	1.0	136	0.0002	1.9	0.1	41	0.0002	3.4	0.1
2013	432	0.0002	14.9	0.6	79	0.0002	2.7	0.3	0	0	0	0
2012	637	0.0002	29.8	0.8	83	0.0002	4.0	0.4	0	0	0	0
2011	485	0.0002	13.5	0.7	46	0.0002	4.4	0.4	1	0.0002	0.0002	0.0002
2010	324	0.0002	35.6	1.6	47	0.0170	6.6	0.4	1	1.0	1.0	1.0
2009	489	0.0002	39.6	0.8	50	0.0002	7.9	0.5	1	0.7	0.7	0.7
2008	469	0.0002	28.1	1.0	26	0.0006	5.5	0.4	5	0.0002	0.1	0.0
2007	489	0.0002	24.9	0.4	31	0.0003	5.0	0.4	1	0.1	0.1	0.1

*Shaded rows indicate deep drawdown years

Because algal blooms often restricted our ability to see vegetation, we also performed Secchi measurements most days we performed surveillance. We used an YSI[®] 58 meter (YSI Inc. Yellow Springs, Ohio) to measure water temperature and dissolved oxygen. Measurements occurred in deep areas of each lake at a depth of 0.5 m and at 1 m intervals until we reached the bottom. We collected water samples from 0.5 m below the surface and 0.5 m from the bottom. Samples were stored in sterile 250 ml plastic Nalgene[®] containers at 3°C until they were analyzed for pH, alkalinity, conductivity and total phosphorus. We measured conductivity and pH with a Fisher-Accumet[®] XL20 meter (Fisher Scientific International Inc. Hampton, NH) and quantified alkalinity by titration with 0.16 N H₂SO₄ to a pH 4.5 endpoint. Finally, we analyzed total phosphorus via spectroscopy using the ascorbic acid method with potassium persulfate digestion (American Public Health Association, 1995).

Results and Discussion

Candlewood Lake

Our invasive aquatic plant surveys from 2007 to 2014 confirm that the deep winter drawdowns result in decreases in Eurasian watermilfoil and number of native plant species in Candlewood Lake. In 2014, we found the same invasive plant species as in previous years; Eurasian watermilfoil, minor naiad and curlyleaf pondweed. We also found eight native species (Table 1). We observed no new invasive or native species in 2014. Eurasian watermilfoil continued to be the most prevalent invasive aquatic plant covering 477 acres (Table 2). Mean coverage of this plant, in the four shallow drawdown years, was 474 acres compared to 296

Table 3. Yearly comparisons of the abundance of invasive species in Candlewood Lake.

		Patch Abundance (1 = sparse - 5 = dense)								
		Eurasian watermilfoil			Minor naid			Curlyleaf pondweed		
Year		(min)	(max)	(mean)	(min)	(max)	(mean)	(min)	(max)	(mean)
	2014	1	5	3.1	2	4	2.1	1	5	2.9
	2013	1	5	2.4	1	4	2.4	0	0	0
	2012	1	5	3.1	2	5	2.6	0	0	0
	2011	1	5	2.3	1	4	2.1	2	2	2.0
	2010	1	5	3.3	2	3	2.1	1	1	1.0
	2009	1	5	2.1	1	4	1.9	1	1	1.0
	2008	1	5	3.0	2	4	1.5	1	1	1.0
	2007	1	5	2.9	1	4	2.1	2	2	2.0

*Shaded rows indicate deep drawdown years

acres in the four deep drawdown years (38% reduction, significant t-test $p=0.00$). There were 485 patches of Eurasian watermilfoil in 2014 (Table 2). Mean patch number in the shallow drawdown years is 479 compared to 433 in the deep drawdown years (10% reduction, not significant t-test $p=0.50$).

Mean patch size of Eurasian watermilfoil was 1.0 acres in 2014 (Table 2). In the shallow drawdown years the mean patch size of Eurasian watermilfoil was 1.1 acres compared to 0.6 acres in the deep drawdown years (45% reduction, significant t-test $p=0.03$). The increase in patch size in 2014 appears to coincide with the overall increase in Eurasian watermilfoil lakewide. The largest patches of Eurasian watermilfoil in 2014 were 47 acres in and around Echo Bay (Map 8, page 30), 27 acres in Danbury Cove (Map 9, page 31) and 26 acres to the west of Great Neck (Map 5, page 27). In the shallow drawdown years of 2012, 2010 and 2008 the largest patches of Eurasian watermilfoil were 30, 36 and 28 acres, respectively. The locations of the largest patches after shallow drawdowns are inconsistent from year to year but often include Danbury Cove and Echo Bay. After deep drawdowns the largest patches range from 14 to 40 acres often located near Great Neck and in Brookfield Bay (Map 6, page 28).

The mean abundance of Eurasian watermilfoil patches in Candlewood Lake (Table 3) increased to 3.1 in 2014 from 2.4 in 2013. Mean patch abundance in the shallow drawdown years is 3.1 compared to 2.4 in the deep drawdown years (33% reduction, significant t-test $p=0.03$). Eurasian water milfoil abundance decreases in deep drawdown years, even in areas too

deep to be directly affected by the drawdown. An explanation for this phenomenon might be the tearing action of ice containing frozen milfoil. Shallow drawdown years such as 2014 typically result a large number of dense Eurasian watermilfoil sub-patches (abundance = 5) that are in flower and within larger patches that usually recorded with an abundance of four. These sub-patches are shown on the Candlewood Lake maps and the georeferenced locations are tabulated in the Appendix (pages 89 to 106).

We found 19 acres of minor naiad in 2014 compared to 24 acres in 2013 (Table 1). The 2014 decrease offsets the large increases in 2012 and 2013. There were no significant differences (t-test $p = 0.5$) between the mean patch area of minor naiad in the shallow drawdown years (21 acres) compared to the deep drawdown years (20 acres). The number minor naiad patches increased to 136 in 2014 representing the greatest number of any survey. Mean patch number in the shallow drawdown years is 76 compared to 52 in the deep drawdown years (32% reduction, not significant t-test $p = 0.22$). Minor naiad patch size averaged 0.1 acres in 2014 and 0.3 to 0.5 acres in previous years (Table 2). Mean patch size in the shallow drawdown years is 0.3 compared to 0.4 in the deep drawdown years (25% increase, not significant t-test $p = 0.21$). The largest patch was in Great Neck (Map 8, page 30) and covered 1.9 acres. In 2013 the largest patch was in Echo Bay and covered 2.8 acres. The mean patch abundance of minor naiad in 2014 was 2.1 (Table 3) which was similar to 2013 and 2012 (2.4, 2.6) but higher than in previous survey years (1.5 to 2.1). Mean patch abundance in the shallow drawdown years and the deep drawdown years is identical (2.1). Minor naiad appears to be less affected by drawdown than Eurasian watermilfoil because it is an annual plant that propagates from potentially drawdown resistant seeds.

Curlyleaf pondweed, showed a marked increase in 2014 from previous years. In 2014 the total acreage of curlyleaf pondweed rose to 3.9 acres, comprising 41 patches, with the largest patch (3.4 acres) on the east side of Danbury Cove (Map 9, page 31). All patches were found in the spring survey except for a small patch found in September along the southeastern shoreline of Lattin's Cove (Map 9, Page 31). Curlyleaf pondweed coverage was approximately 1 acre from 2007 to 2011 and was not present in 2012 and 2013. Our 2013 report (Bugbee et al. 2014) suggested that curlyleaf pondweed was likely having difficulty establishing in Candlewood Lake and may be sensitive to the drawdown practices. The increase in 2014 weakens this argument particularly in shallow drawdown years.

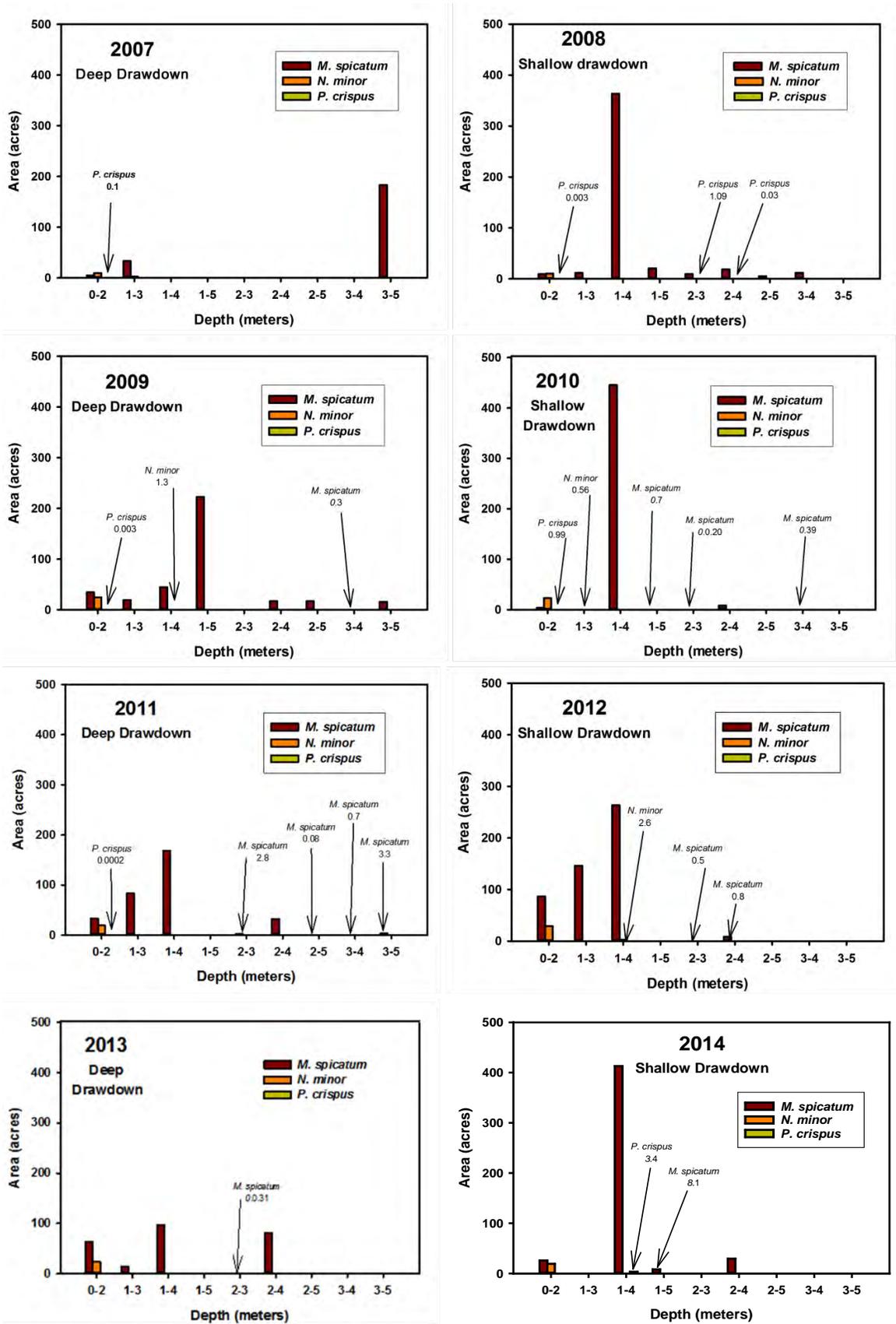


Figure 4. Yearly comparisons of depth preferences of invasive plants in Candlewood Lake.

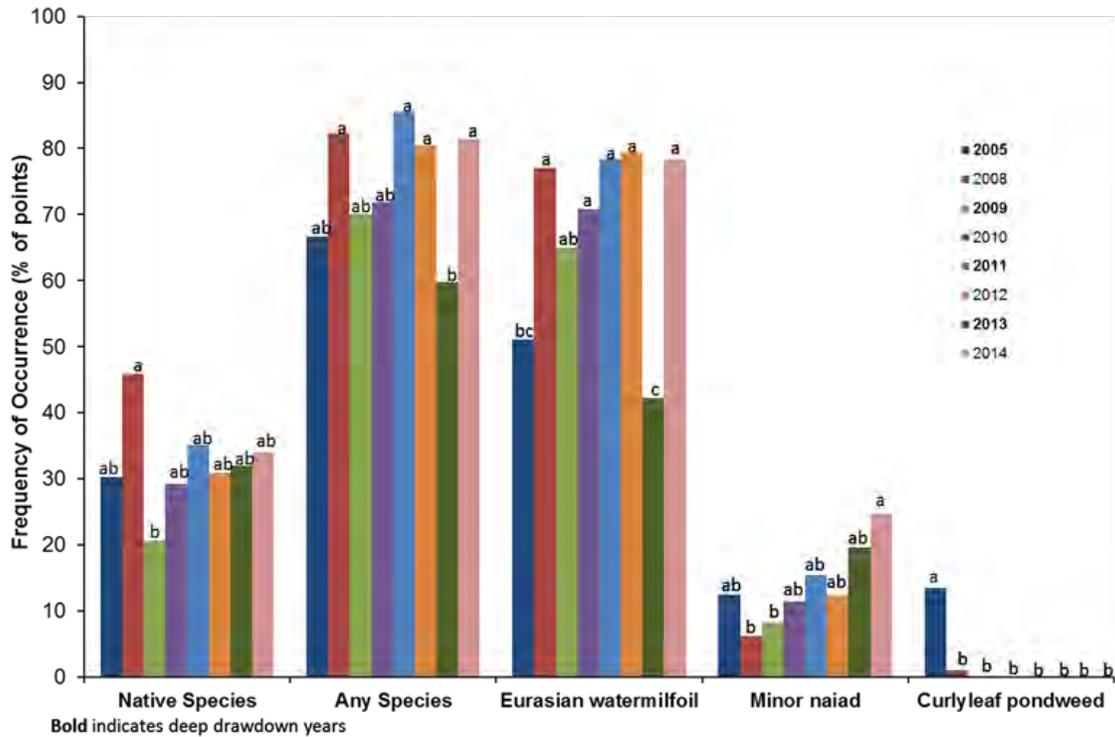


Figure 5. Yearly frequency of occurrence of aquatic vegetation on transects in Candlewood Lake. Bars with the same letter within a species are not statistically different.

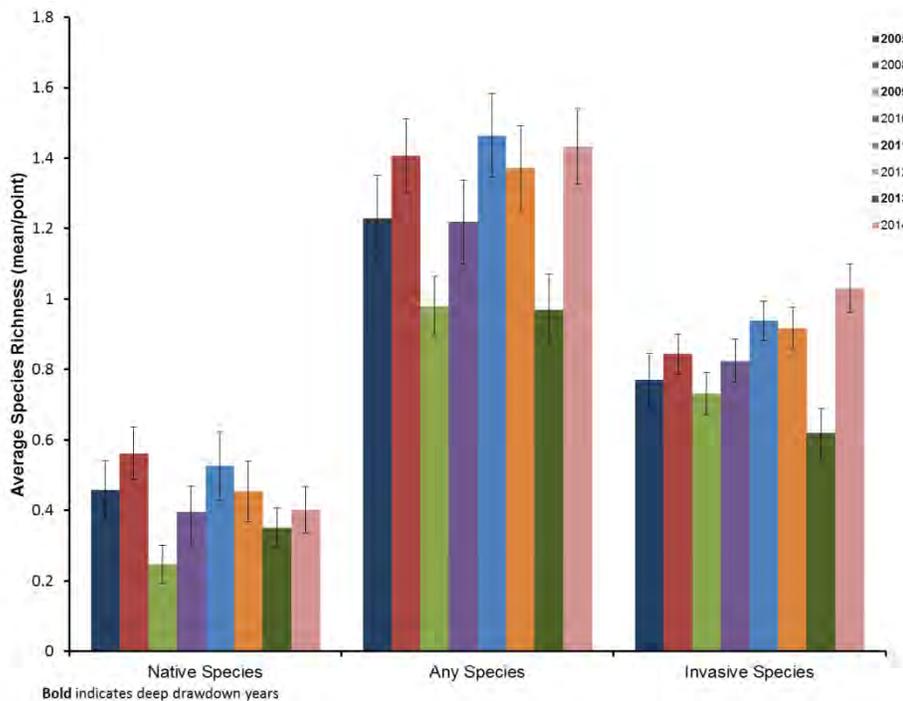


Figure 6. Yearly comparisons of average number of plant species per transect point in Candlewood Lake. Error bars equal +/- one standard error of the mean (SEM).

Depth preferences of invasive species in Candlewood Lake may change from year to year because of drawdowns, summer water levels and natural variation in plant communities (Figure 4). In 2014, Eurasian watermilfoil patches were distributed at depths of from 0 to 5 m. We observed 26 acres (5.3%) at depths of 0 to 2 meters, 0.4 acres (0.1%) at depths of depths of 1 to 3 meters, 413 acres (86.6%) at depths of 1 to 4 meters, 30 acres (6.2%) at 2 to 4 meters and 8 acres (1.7%) at 1 to 5 m. We found a general increase in patch abundance with depth in 2014. For instance, patches extending to a depth of 2 m had an average abundance of 2.2 while patches extending to a depth of 4 and 5 m had an abundance of 4.0. This is in contrast to the deep drawdown year of 2013 when there was very little difference in the abundance of Eurasian watermilfoil at any depth. The shallow drawdown of 2014 may have resulted in a more pronounced increase in the abundance of Eurasian watermilfoil growing in deep water. The apparent difficulty for the recent drawdowns to control Eurasian watermilfoil in the shallowest areas is perplexing, but might be explained by increased rooting of “float-in” fragments or groundwater discharge that prevents freezing and desiccation. Water clarity and associated light restriction at depths of greater than 4 m is the likely cause for Eurasian watermilfoil to be absent at 5 m. As in past years, minor naiad was primarily limited to depths of 0 to 2 m in 2014.

The frequency of occurrence of Eurasian watermilfoil on transects in 2014 (Figure 4) was 78% and was significantly higher ($p < 0.05$) than the deep drawdown years of 2013 (42.3%) and 2005 (51.0%). The frequency of occurrence of minor naiad in 2014 was 25% and was statistically greater ($p < 0.05$) than in 2008 (6%) and 2009 (8%). The general increase in minor naiad frequency through the years may indicate a significant trend. We did not find curlyleaf pondweed on transects in 2014 but a substantial patch was found just northeast of transect 10 (Lattin’s Cove, Map 8, page 30). The mean invasive species richness (number of plant species) per transect point reached an all-time high of 1.0 in 2014 which is significantly more than all previous years except 2011 and 2012 (Figure 6).

Robust populations of native species are sometimes considered an indicator of a healthy aquatic ecosystem. In addition, they may decrease the invasibility of non-native species (Capers et al. 2007). The overall native species richness on transects in 2014 was 9, compared to a low of 9 in 2013 and a high of 14 in 2005 (Table 1). Some species rich Connecticut lakes

Table 4. Yearly comparison of the coverage of invasive aquatic plants in Candlewood Lake's littoral zone (0-5m).

Scientific Name	Common Name	Year	Area (%)
<i>Myriophyllum spicatum</i>	Eurasian watermilfoil	2014	58.9
		2013	32.0
		2012	62.3
		2011	40.9
		2010	56.9
		2009	46.0
		2008	55.7
		2007	27.3
<i>Najas minor</i>	Minor naiad	2014	2.3
		2013	3.0
		2012	4.0
		2011	2.3
		2010	2.6
		2009	3.2
		2008	1.3
		2007	1.5
<i>Potamogeton crispus</i>	Curlyleaf pondweed	2014	0.5
		2013	0.0
		2012	0.0
		2011	<0.1
		2010	0.1
		2009	<0.1
		2008	<0.1
		2007	<0.1

contain over 30 native plant species (CAES IAPP, 2014) and for a large lake like Candlewood to contain such a small number of plants is unusual. This is probably explained by a decrease in shoreline species caused by winter drawdowns. We found no new native species in 2014. We found waterwort (*Elatine sp.*), spikerush (*Eleocharis sp.*), duckweed (*Lemna minor*), and clasping pondweed (*Potamogeton perfoliatus*) in 2014 but not in 2013. Water starwort (*Callitriche sp.*), waterweed (*Elodea nuttallii*), nodding water nymph (*Najas flexilis*), variable leaf pondweed (*Potamogeton gramineus*), small pondweed (*Potamogeton pusillus*), great duckweed (*Spirodela polyrhiza*), and horned pondweed (*Zannichellia palustris*) were present in 2005 but not in 2014. The 2014 increase in native species from 2013 suggests that native species rapidly recolonize in shallow drawdown years.

When frequency of occurrence and species richness is high, biodiversity is considered optimal. The frequency of occurrence of any species (native + invasive) on transect points

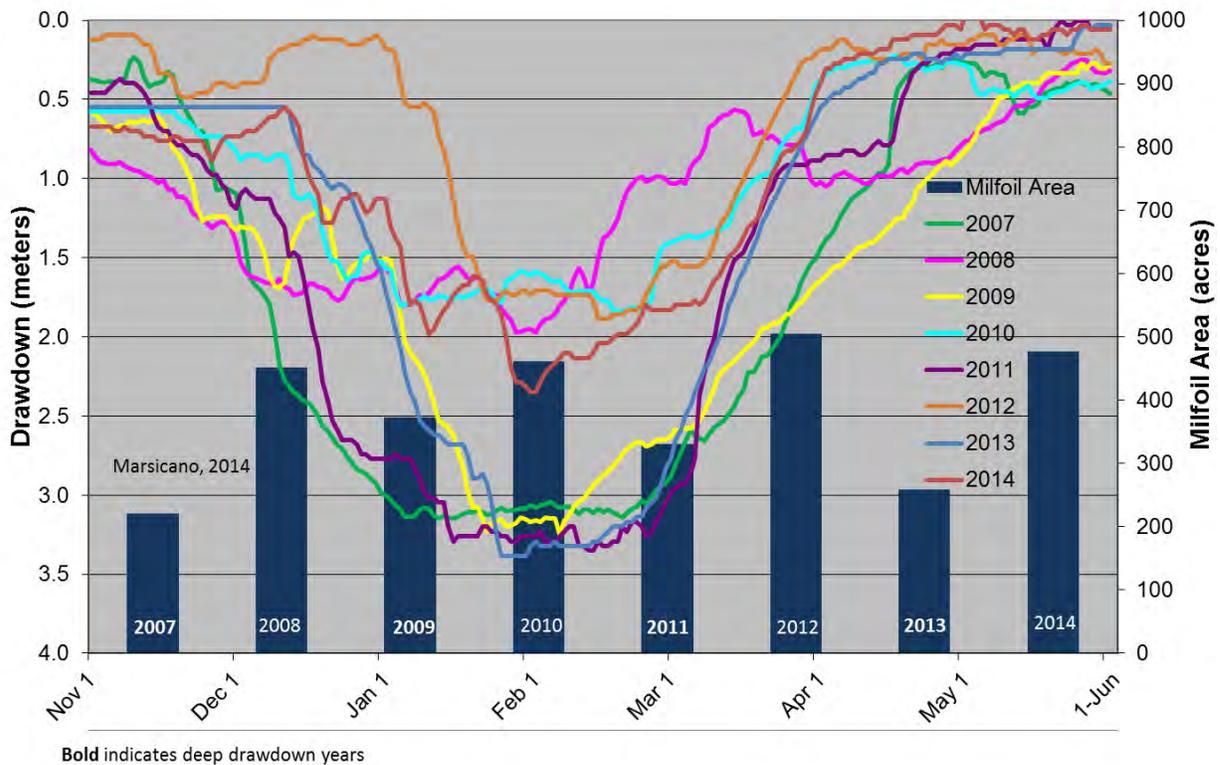


Figure 7. Candlewood Lake's drawdown depths and duration from 2007 to 2014.

(Figure 5) has ranged between 60% and 86% throughout our surveys and have only been statistically lower ($p > 0.05$) in 2013. In 2014, the frequency of occurrence of any species increased to 81% from an all-time low of 60% in 2013. The frequency of occurrence of native species in 2014 was 34% which was not statistically different from any previous year. The average native species richness on transect points in 2014 was 0.4 (Figure 6) which is only statistically different (± 1 SEM) from 2008 (0.6) and 2009 (0.2). These data suggest that mean species richness on transects for both native and invasive species will be favored by shallow drawdowns.

Coverage of the littoral zone by aquatic vegetation is sometimes used to infer whether optimum habitat is available for fish and other aquatic organisms. From 20% to 40% vegetative coverage is considered optimal in Connecticut lakes (Jacobs and O'Donnell, 2002). This range does not take into account whether the vegetation inhabits the entire water column, as is often the case with Eurasian watermilfoil, or whether it grows near the bottom as is common with many native plants. We used a depth of five m (16 feet) as the littoral zone limit in Candlewood Lake because it best corresponds to our in situ observations. Candlewood Lake has a littoral zone of 810 acres or 16% of the total lake area (Bugbee, 2011). Eurasian



Figure 8. Typical patch of Eurasian watermilfoil in 2014 (left). Occasionally dense milfoil patches occurred in shallow water often intermixed with filamentous algae (right).

watermilfoil occupied 59% of the littoral zone in 2014. Littoral zone coverage of Eurasian watermilfoil generally increases in shallow drawdown years (mean = 58%, range = 56 to 62%) and decreases in deep drawdown years (mean = 36%, range = 27 to 46%) (Table 4). Minor naiad covered 2.4 % of the littoral zone in 2014 and showed little response either a shallow (mean = 2.6%, range = 1.3 to 4.0%) or deep drawdown (mean = 2.5%, range = 1.5 to 3.2%). Curlyleaf pondweed occupied 0.5% of the littoral zone in 2014. The increase from earlier shallow drawdown years is probably because 2014 was the first time we performed a shallow drawdown year spring survey. Further spring surveys for curlyleaf pondweed will be needed to determine long term trends.

A total of approximately 60% of Candlewood Lake's littoral zone was covered with rooted invasive aquatic macrophytes (primarily Eurasian watermilfoil) in 2014. This alone is greater than optimal range of 20 to 40% suggested by Jacobs and O'Donnell (2002).

2014 Drawdown

The shallow winter drawdown of 2014 began in mid-December and reached its lowest level in early February. Refilling began immediately until the lake was full by early April (Figure 7). The 2014 drawdown generally resulted in sparse to moderate milfoil in water 0 to 2 m deep and a dense milfoil in water 2 to 4 meters deep (Figure 8, left). Occasionally, however, dense patches occurred in coves in less than 1 meter of water where an accumulation of rooted fragments were likely (Figure 8, right).

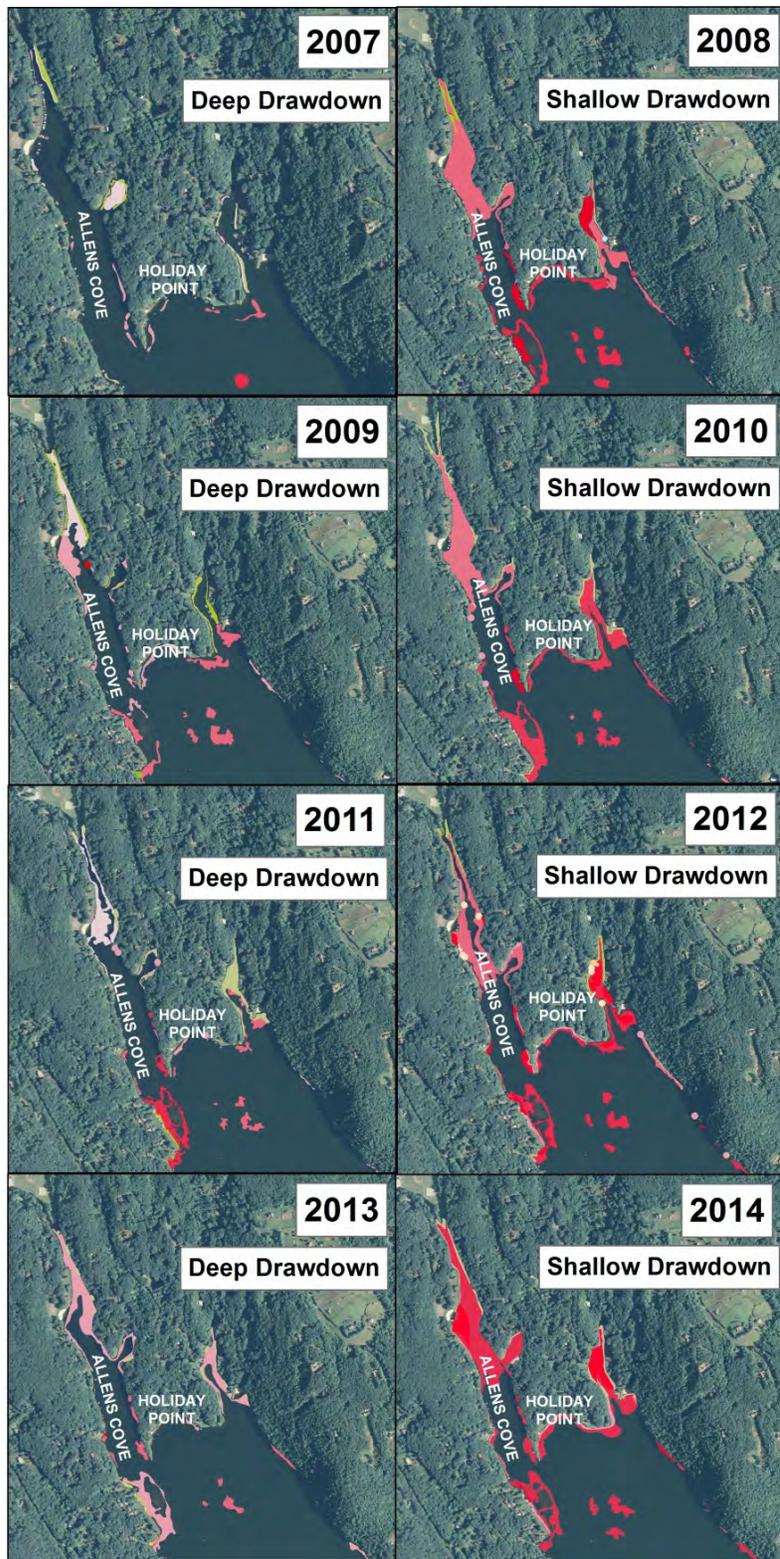


Figure 9. Comparison of the coverage and abundance of Eurasian watermilfoil in Allen's Cove from 2007 to 2012. Darker pink colors indicate greater abundance.

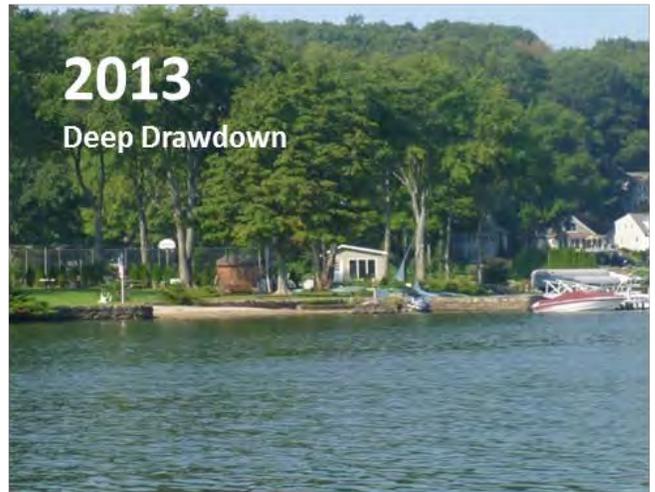


Figure 10. Yearly comparison of Eurasian watermilfoil reaching the surface at reference site outside Lattin's Cove.

Large differences in the coverage of Eurasian watermilfoil as related shallow and deep drawdowns are evident in Allen's Cove (Figure 9). The rapid regrowth in the shallow drawdown years is typical throughout Candlewood Lake and has become reasonably predictable (Bugbee et al. 2013). Recent work by (Lonergan et al. 2014) found Eurasian watermilfoil was killed by freezing at -5 C or desiccation at 4 C but plants would survive if covered with 10 cm of snow or submerged in water. Our yearly photograph of the outer west side of Lattin's Cove (Figure 10) showed no Eurasian watermilfoil reaching the surface in 2014. Considerable details on the effects of the 2014 shallow winter drawdown on the invasive plants in Candlewood Lake are included in other parts of this report.

Water Intakes

We recorded the locations of 255 private water intakes along the shore of Candlewood Lake (Figure 3). They are shown on the Candlewood Lake Maps (pages 23 - 31) with the georeferenced locations tabulated in the appendix (pages 122 - 129). Clusters of water intakes are common in and around Turtle Bay (Map 5, page 27), South of Brookfield Bay (Map 6, page 28), Candlewood Knolls (Map 7, page 29), and North of Echo Bay (Map 8, Page 30). Most appeared used for irrigating home grounds. It is beyond the scope of this report to determine if the cause of the clustering or if the quantity of water removed might affect hydro-generation. If herbicides for controlling invasive aquatic vegetation are considered, irrigation restrictions are likely and these residences would have to be notified. Opposition to aquatic herbicides often comes from citizens concerned about adverse effects on human health or the health of their landscape plants and vegetable gardens.

Potential Grass Carp Introduction

Recent progress towards introducing triploid grass carp (*Ctenopharyngodon idella*) into Candlewood Lake to act as a biological control agent for Eurasian watermilfoil increases the pertinence of the many years of CAES IAPP surveillance. The data contained in the reports can be used as a reference to determine grass carp efficacy. Because grass carp are aquatic herbivores that tend to graze on the terminal shoots of vegetation, milfoil control would likely first be noticed by a reduction in the plants reaching near the surface or at the surface of the lake. Our abundance data records these areas with a ranking of four (dense and near the

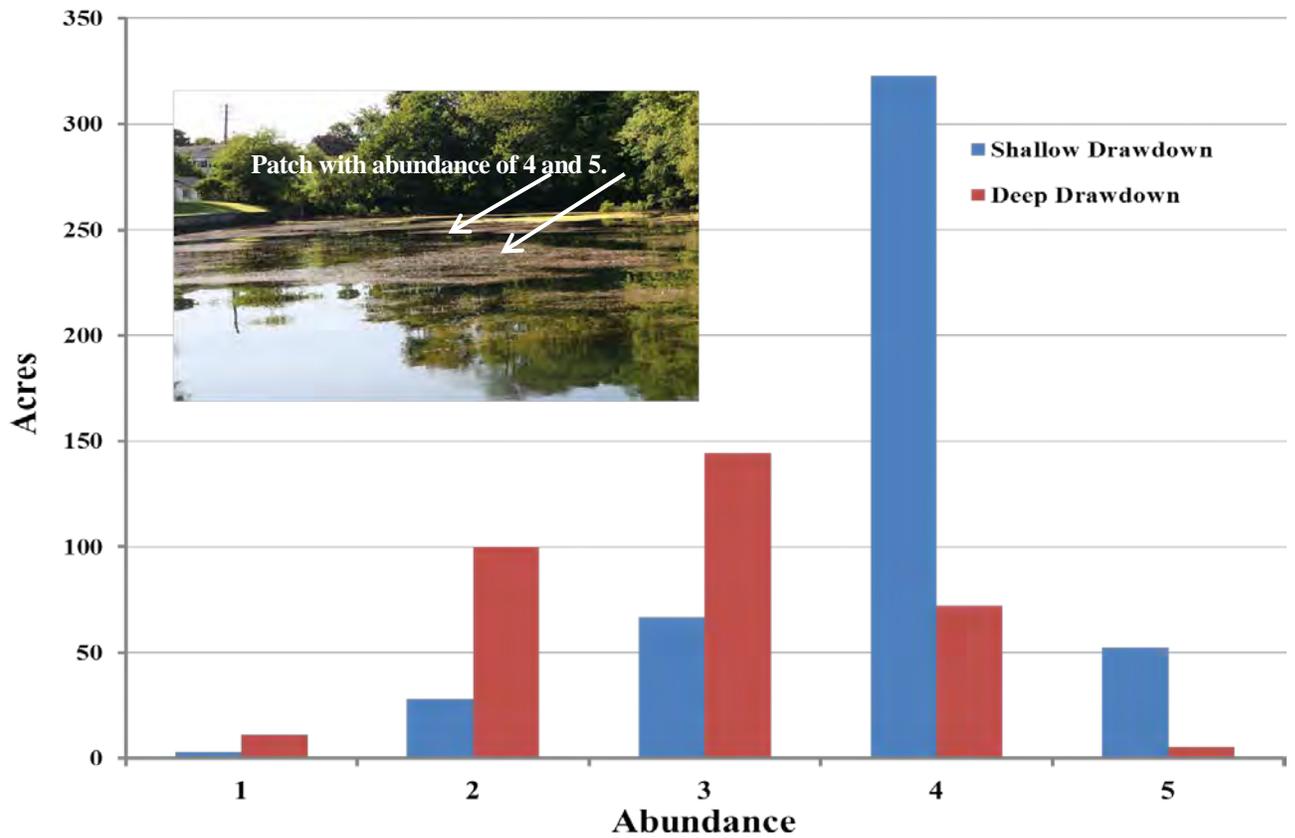


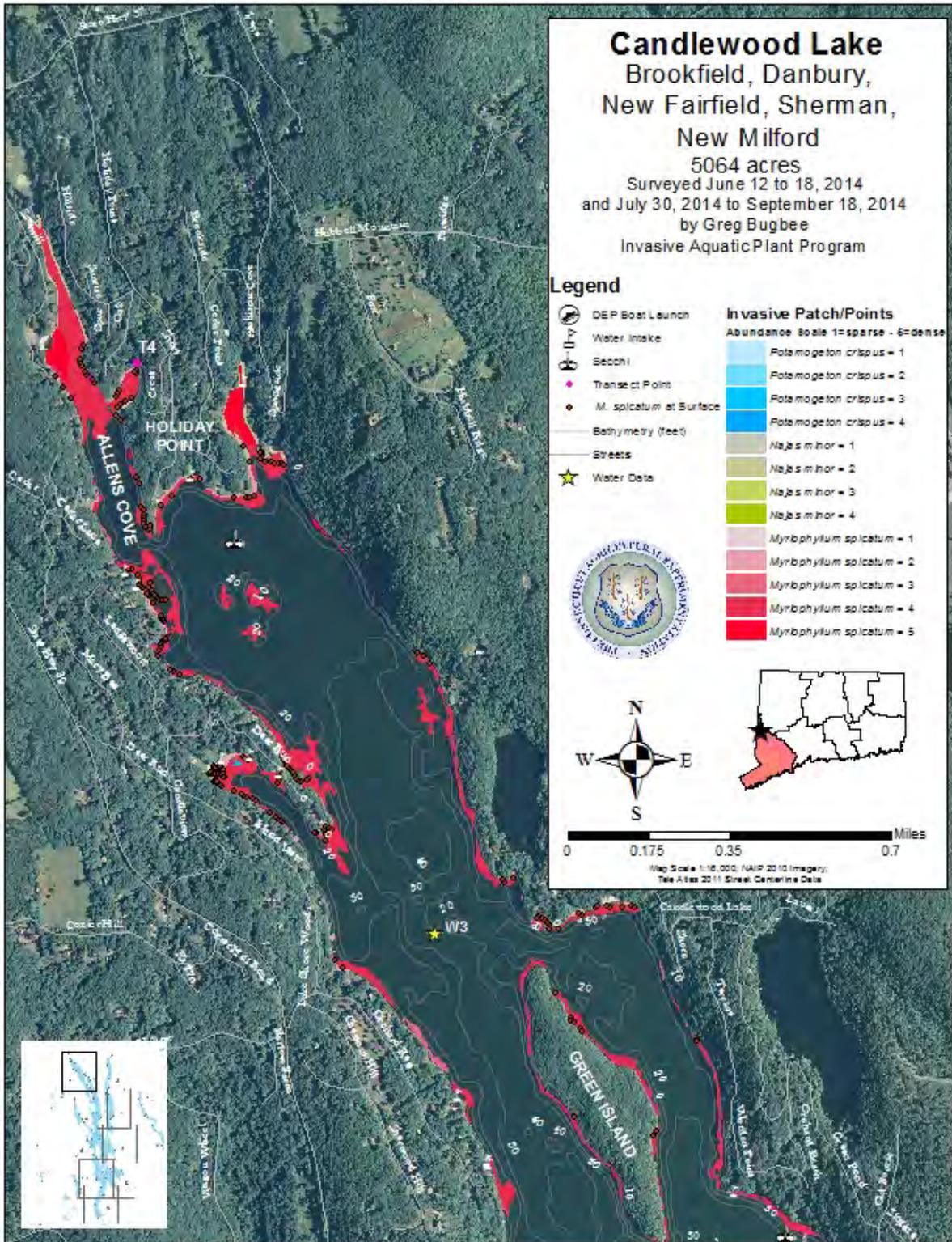
Figure 11. Mean acres versus abundance of Eurasian watermilfoil during shallow and deep drawdowns in Candlewood Lake.

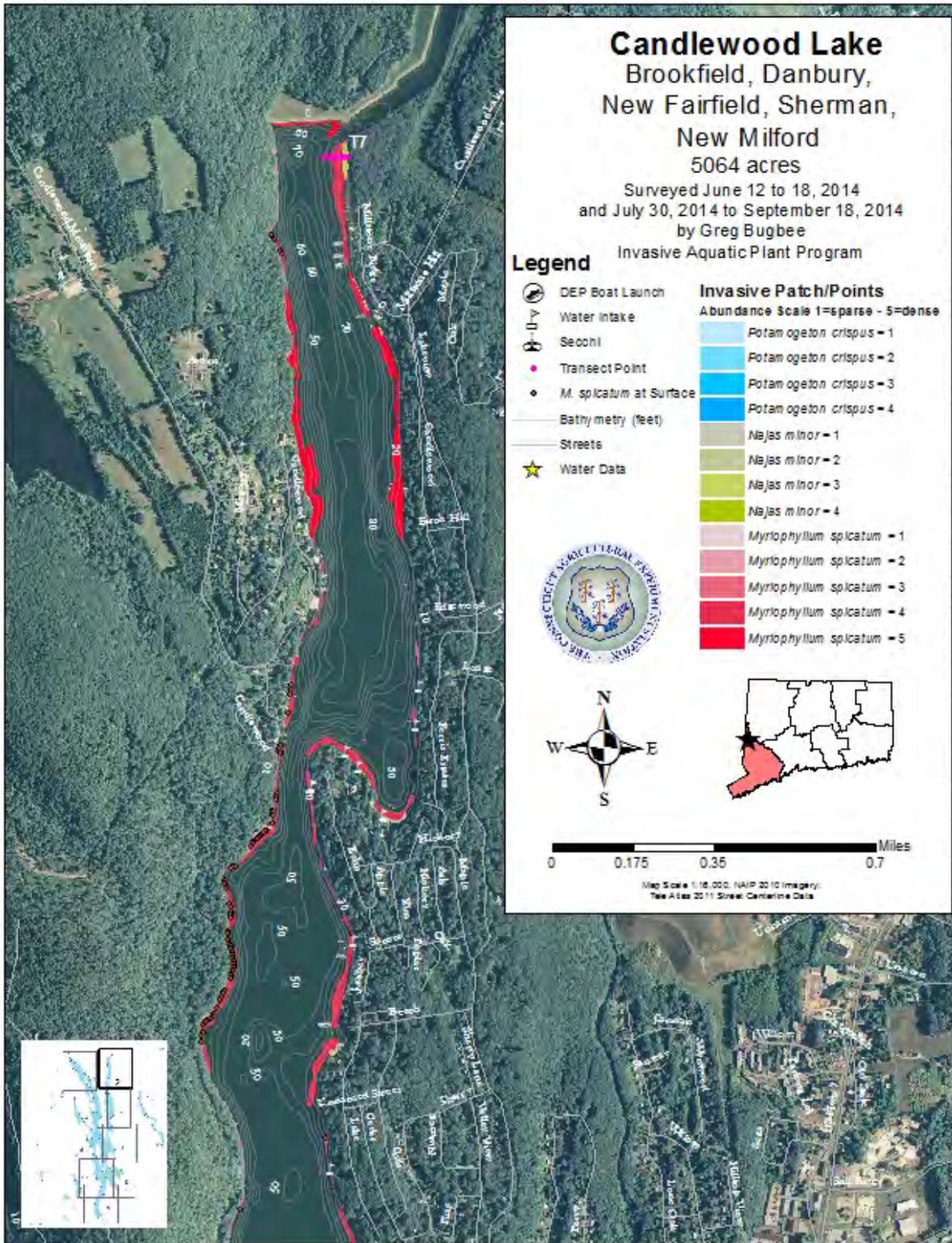


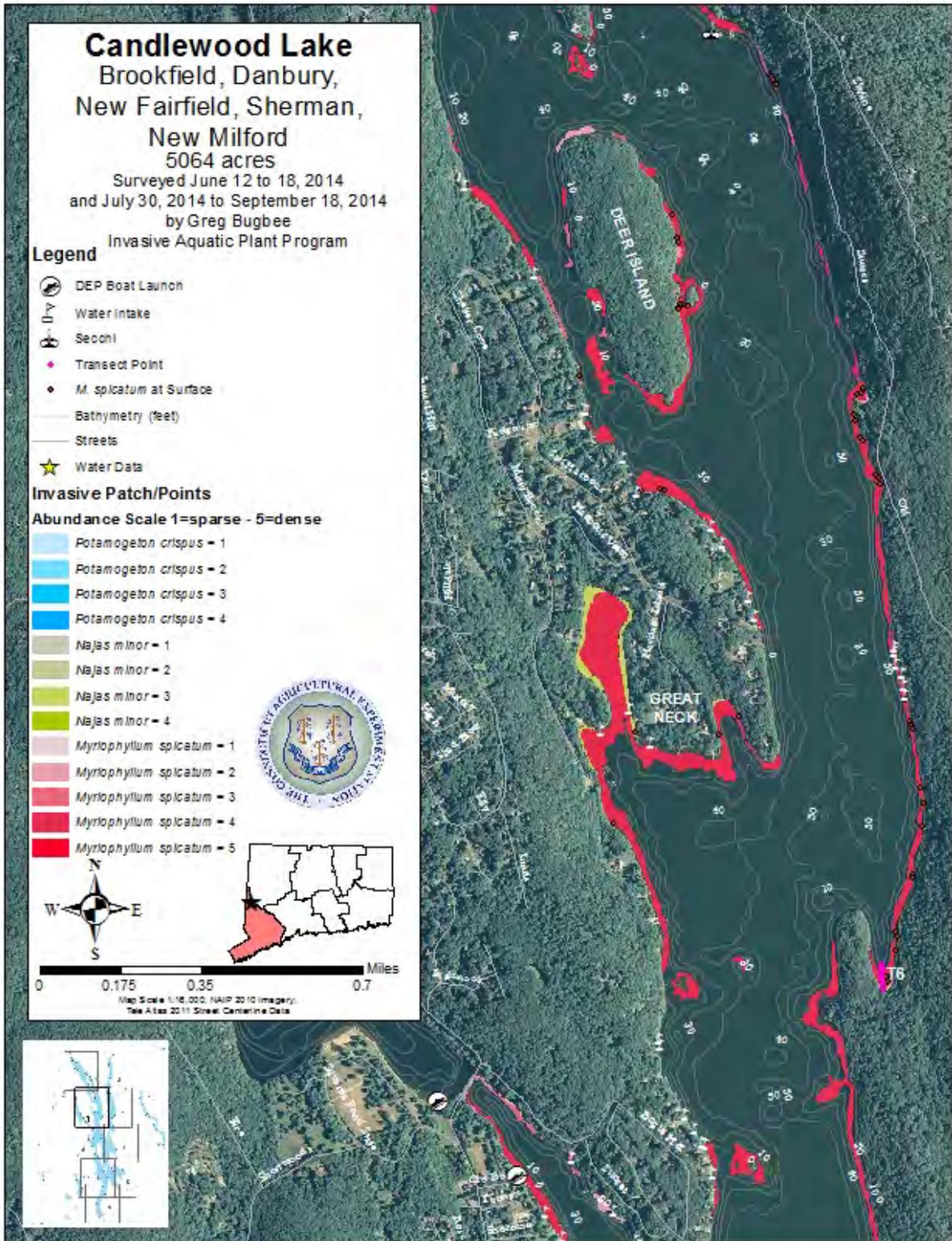
Figure 12. Subpatches of Eurasian watermilfoil marked with abundances of five (*) from 2012-2014 near transect eight in Candlewood Lake.

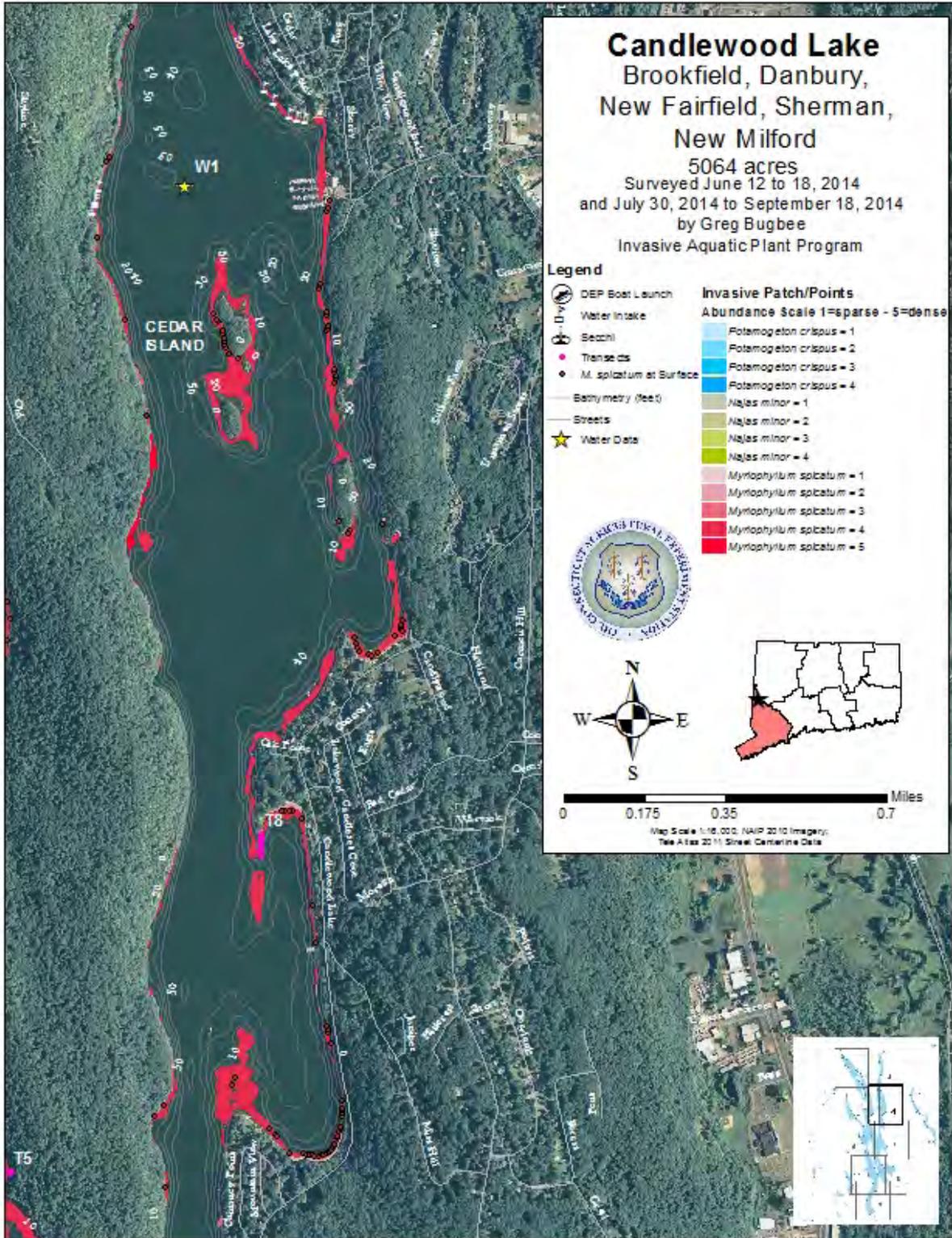
surface) and five (dense and at the surface). If these near-surface and surface patches could be substantially reduced, most of nuisance milfoil would be eliminated and the remaining milfoil could serve as the fish habitat that is desired by anglers. If grass carp are introduced and the current alternate year shallow and deep drawdowns continue, the interactions of the two practices would need to be evaluated.

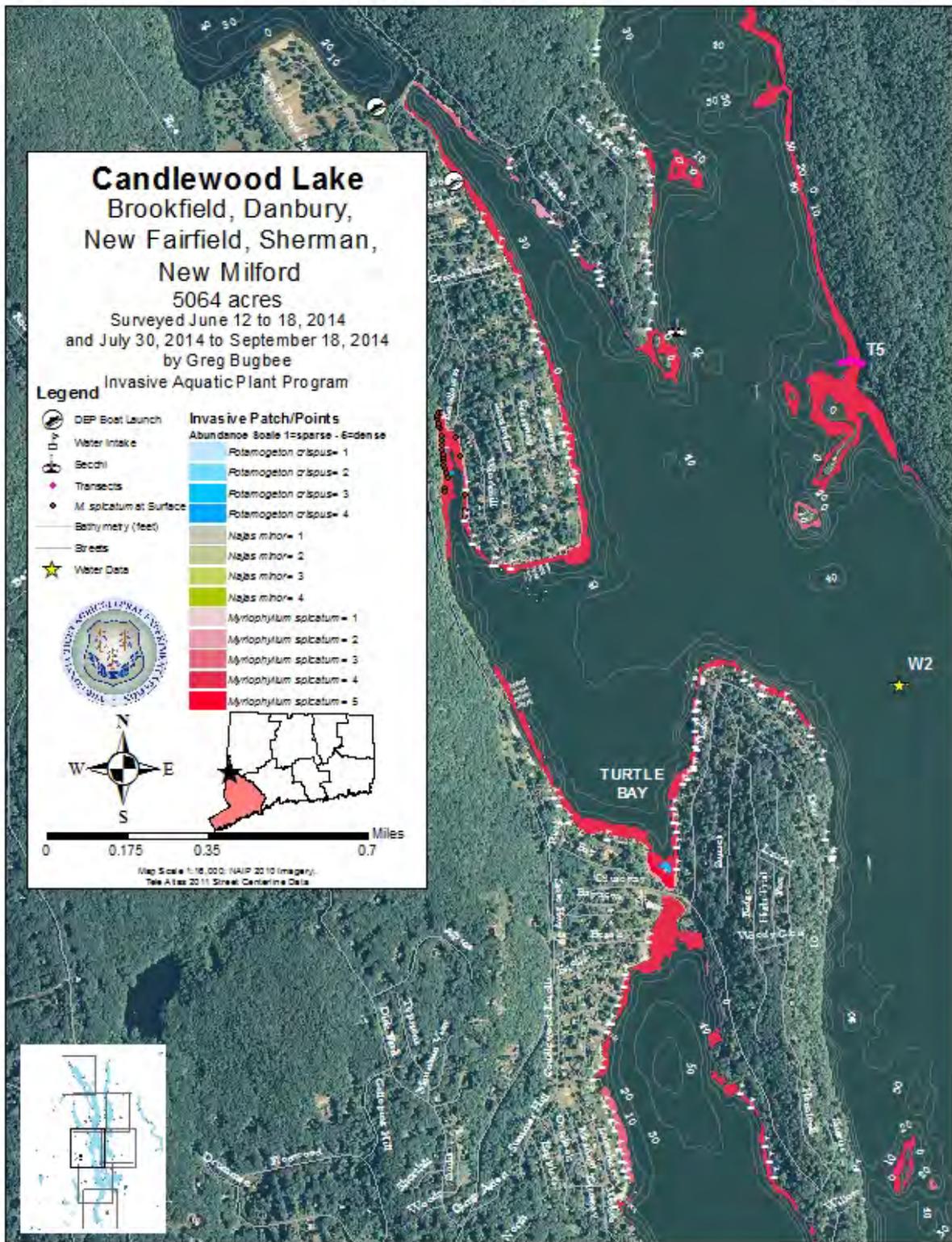
In shallow drawdown years there is substantially more acres of milfoil with abundances of four and five than in shallow drawdown years when the milfoil abundances are tend to fall more within the range of two to three (Figure 11). In addition to the comparing the acres versus abundance data from past year, the number of subpatches with abundances of five that with patches of lower abundance (usually four) can be analyzed. In the shallow drawdown years of 2012 we recorded 1481 of these subpatches and in 2014 we recorded 643. In the deep drawdown year of 2013 the subpatches were few and none were recorded. Examples, of the subpatches in Allen's Cove in 2012, 2103 and 2014 are shown in Figure 12.

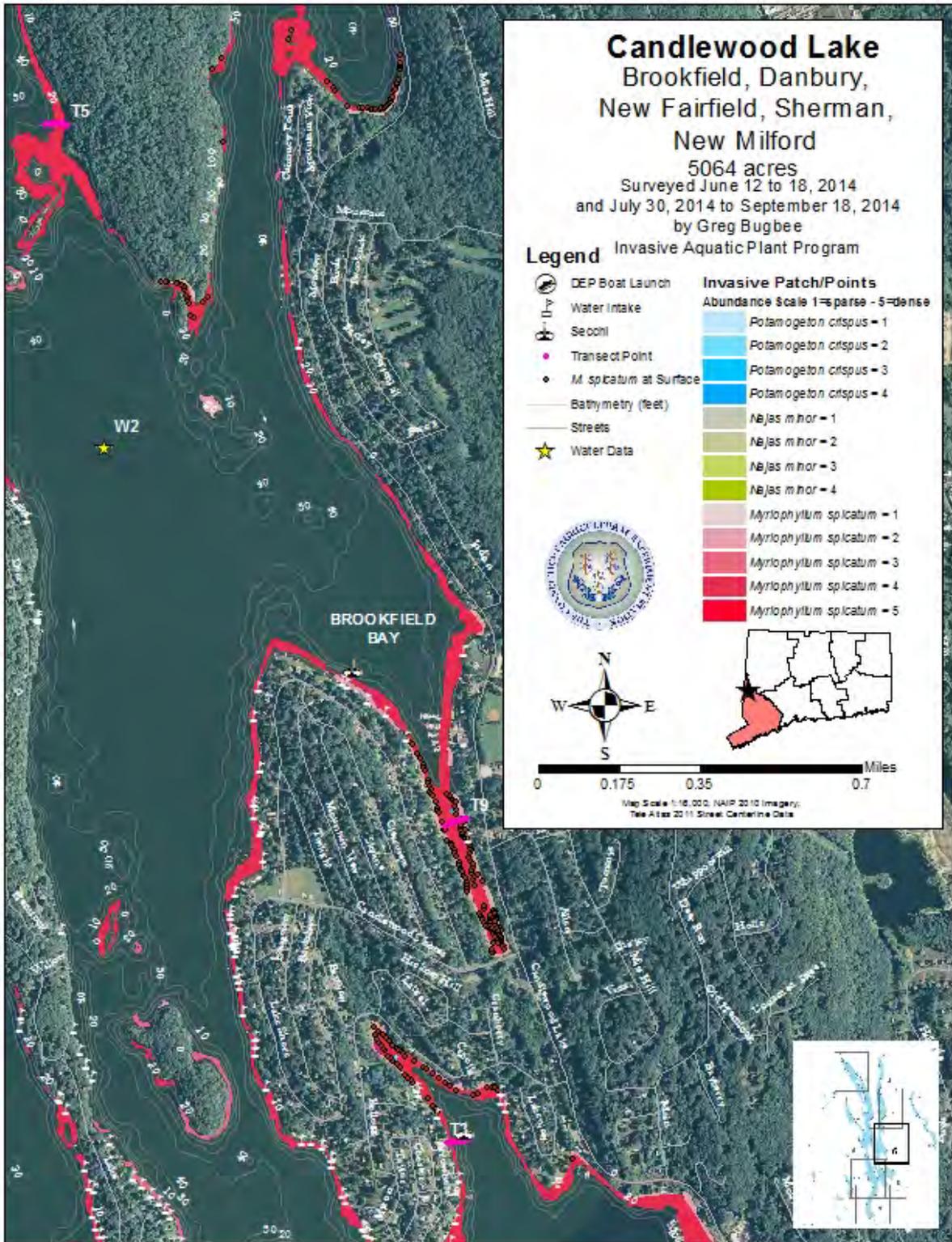


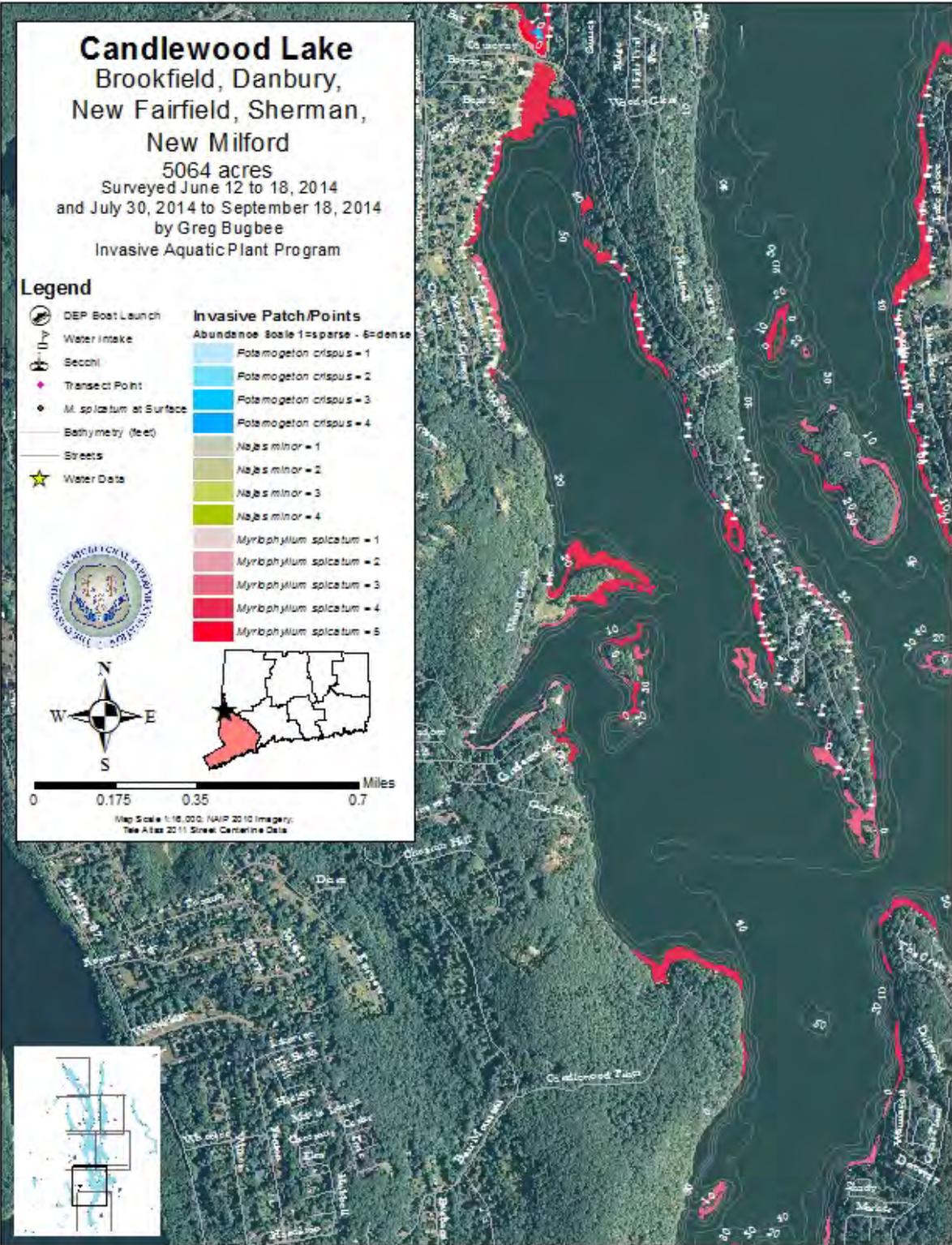


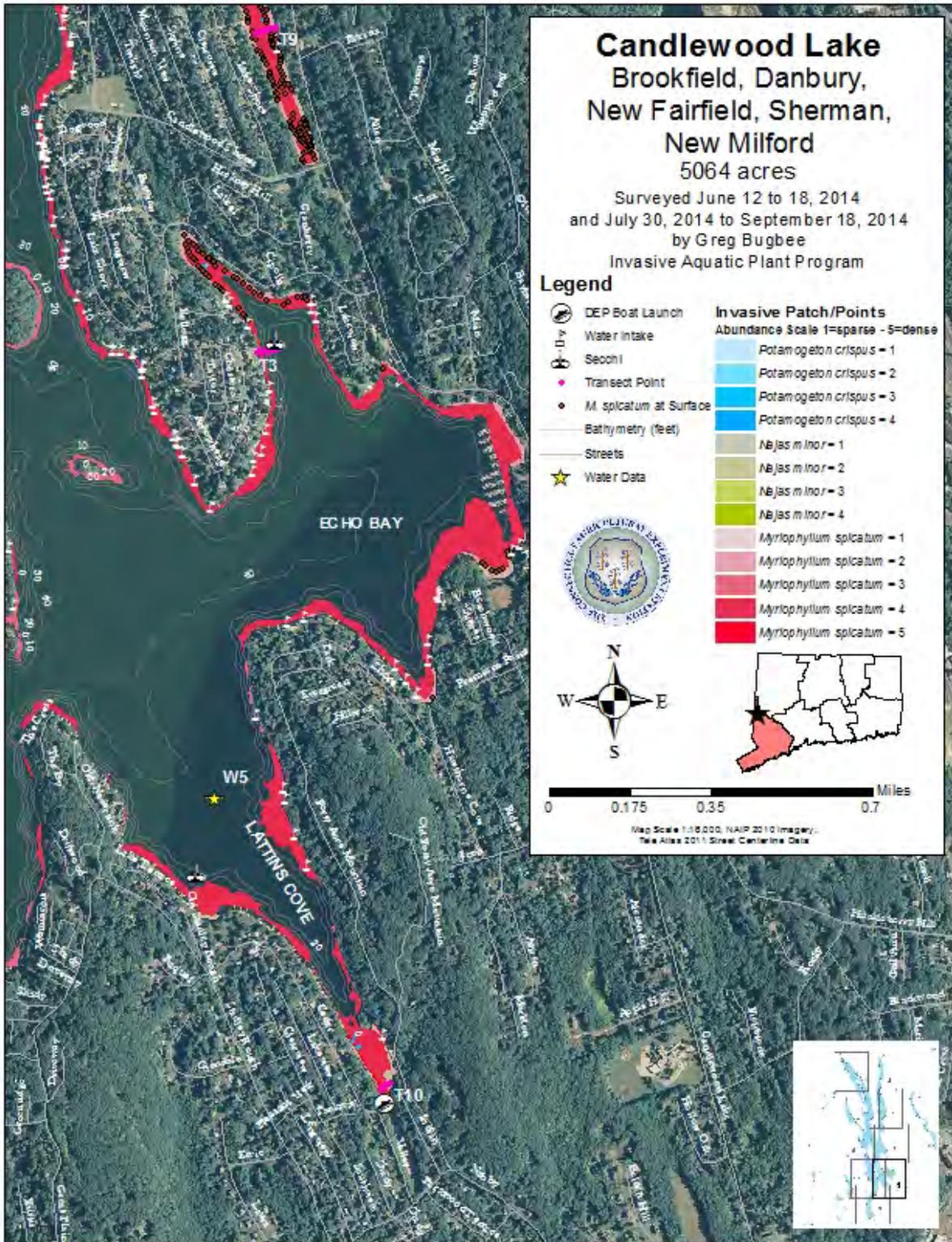












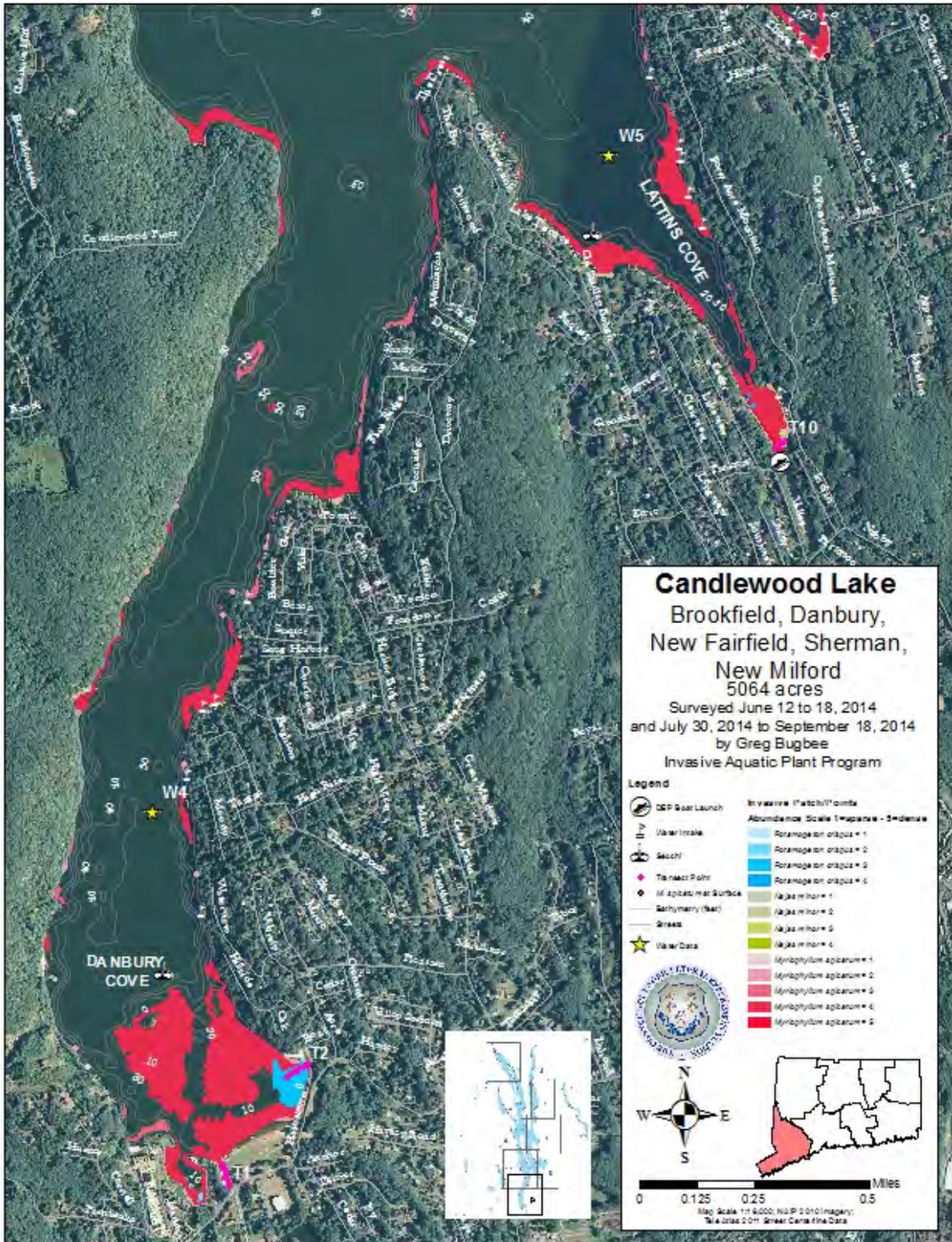


Table 5. Yearly frequency of occurrence and area of aquatic vegetation in Lake Zoar.

Scientific Name	Common Name	Frequency of Occurrence (percent *)								Area (acres)				
		2007	2008	2009	2010	2011	2012	2013	2014	2007	2008	2010	2012	2014
<i>Ceratophyllum demersum</i>	Coontail	3	4	23	15	7	6	9	8	ND**	ND	ND	ND	ND
<i>Elodea nuttallii</i>	Waterweed	6	7	7	23	0	1	2	1	ND	ND	ND	ND	ND
<i>Isoetes</i> species	Quillwort	0	0	0	0	0	0	0	0	ND	ND	ND	ND	ND
<i>Ludwigia</i> species	Primrose-willow	0	0	0	0	1	0	1	0	ND	ND	ND	ND	ND
<i>Marsilea quadrifolia</i>	European waterclover	0	0	0	0	0	0	0	0	<0.1	0.2	0.3	0.3	ND
<i>Myriophyllum spicatum</i>	Eurasian watermilfoil	35	37	33	49	18	15	49	24	63	70	85	85	33
<i>Najas flexilis</i>	Nodding water nymph	2	1	4	2	2	0	0	0	ND	ND	ND	ND	ND
<i>Najas minor</i>	Minor naiad	18	18	16	24	8	17	21	10	33	13	12	34	1.6
<i>Peltandra virginica</i>	Green arrow arum	0	0	0	0	1	0	1	1	ND	ND	ND	ND	ND
<i>Potamogeton crispus</i>	Curlyleaf pondweed	6	10	7	7	1	9	5	2	21	4	12	17	26
<i>Potamogeton epihyrdus</i>	Ribbonleaf pondweed	0	0	2	0	0	0	0	0	ND	ND	ND	ND	ND
<i>Potamogeton foliosus</i>	Leafy pondweed	2	0	0	4	1	0	6	0	ND	ND	ND	ND	ND
<i>Potamogeton natans</i>	Floating leaf pondweed	0	0	0	0	0	0	0	0	ND	ND	ND	ND	ND
<i>Potamogeton nodosus</i>	Long leaf pondweed	0	0	0	0	0	0	0	0	ND	ND	ND	ND	ND
<i>Potamogeton praelongus</i>	White stem pondweed	0	0	1	1	0	0	0	0	ND	ND	ND	ND	ND
<i>Potamogeton perfoliatus</i>	Clasping leaf pondweed	0	0	0	0	0	0	0	0	ND	ND	ND	ND	ND
<i>Potamogeton pusillus</i>	Small Pondweed	0	0	0	0	0	0	0	0	ND	ND	ND	ND	ND
<i>Potamogeton zosteriformis</i>	Flatstem pondweed	0	0	0	3	2	0	0	0	ND	ND	ND	ND	ND
<i>Sagittaria</i> species	Arrowhead	0	0	0	0	0	0	1	0	ND	ND	ND	ND	ND
<i>Stuckenia pectinata</i>	Sago pondweed	3	0	0	0	0	0	12	0	ND	ND	ND	ND	ND
<i>Vallisneria americana</i>	Eel grass	8	6	15	6	9	11	2	13	ND	ND	ND	ND	ND
<i>Zosterella dubia</i>	Water stargrass	1	1	0	0	0	3	2	2	ND	ND	ND	ND	ND
Total Invasive Species Richness		3	3	3	3	3	3	3	3					
Total Native Species Richness		7	5	6	7	7	4	9	5					
Total Species Richness		10	8	9	10	10	7	12	8					
Invasive plant (in bold)														
* Percent occurrence on 100 points in 10 transects														
** Not Determined														

Lake Zoar

Our 2014 invasive aquatic plant survey of Lake Zoar confirmed the presence of Eurasian watermilfoil, curlyleaf pondweed and minor naiad (Table 5). The total acreage of Eurasian watermilfoil decreased to 33 acres in 2014 from 85 acres in 2012. The total acreage of minor naiad decreased to 1.6 acres in 2014 from 34 acres in 2012. The total acreage of curlyleaf pondweed, however, increased to 26 acres in 2014 from 17 acres in 2012. European waterclover was not found in 2014 because of inaccessibility (low water) to the location where it has been known to occur. Our 2014 transect data showed the frequency of occurrence of Eurasian watermilfoil on transects significantly decreased ($p < 0.05$) to 24% in 2014 from 49% in 2013 (Table 5). Minor naiad also showed a decrease in frequency of occurrence along transects to 10% in 2014 from 21% in 2013, however, this decrease was not statistically significant (Figure 13). The frequency of occurrence of curlyleaf pondweed in 2014 (2%) was not significantly different from all other years (Figure 13). Because transects are only analyzed during the summer, after most curlyleaf pondweed has senesced, there is an inherent bias toward underestimation in our data.

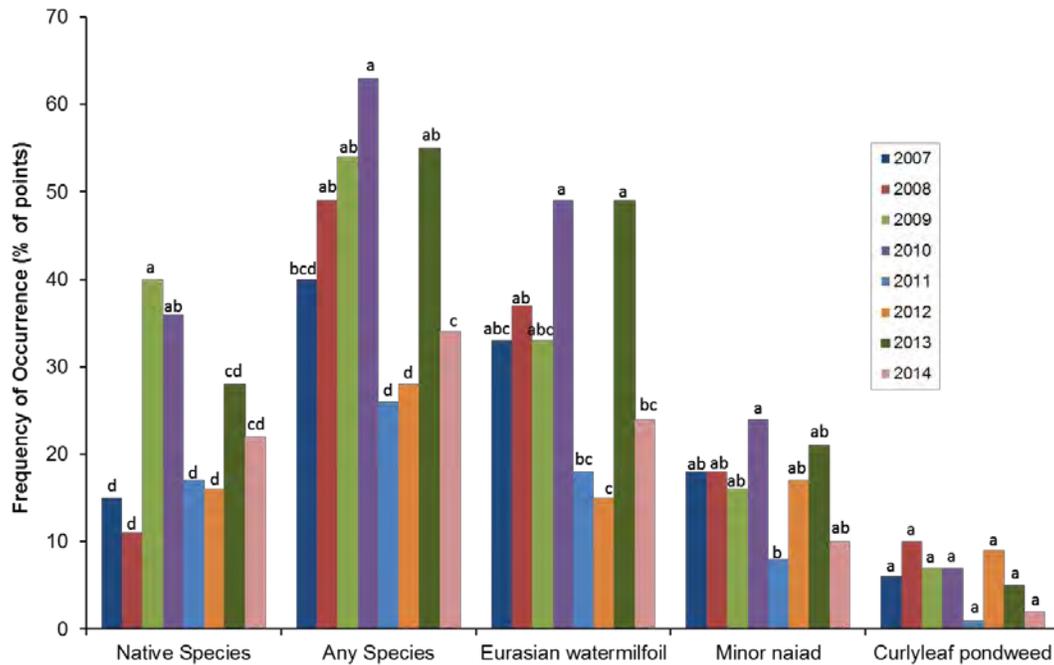


Figure 13. Yearly comparisons of the frequency of native and invasive plants on transects in Lake Zoar. Bars with the same letter are not significantly different.

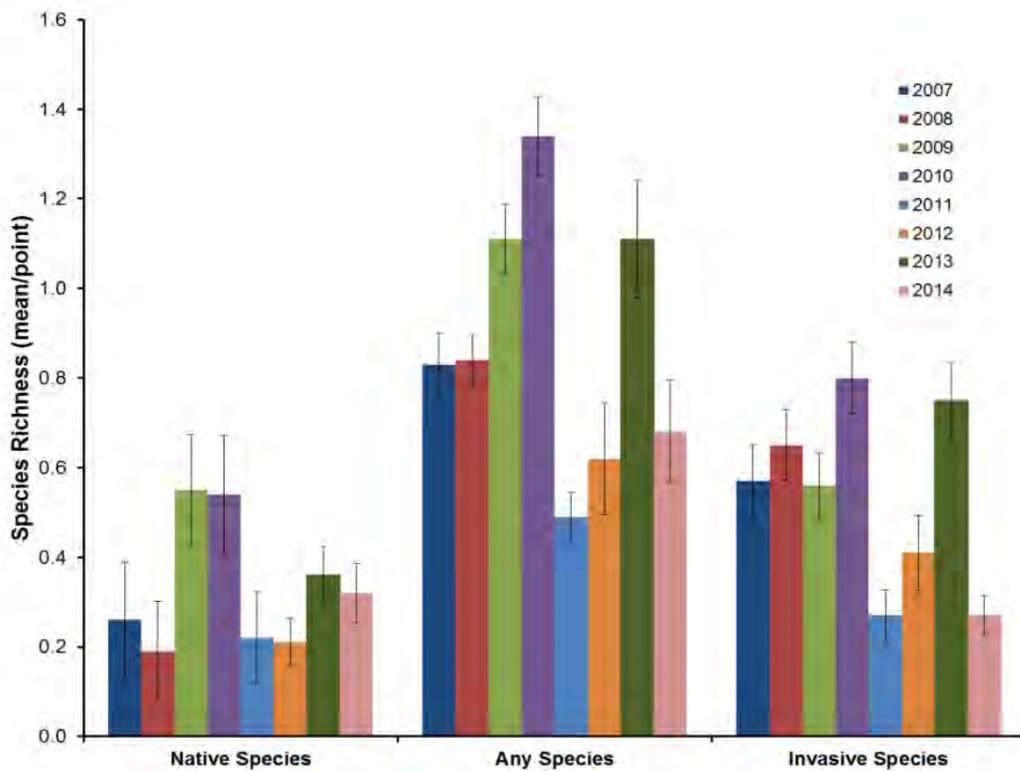


Figure 14. Yearly comparisons of the average number of species per transect point in Lake Zoar. Error bars equal +/- one standard error of the mean.

Table 6. Yearly comparisons of the number of invasive patches and their size in Lake Zoar.

Year	Patch Size (acres)															
	Eurasian watermilfoil			Minor naiad			Curlyleaf pondweed			European waterclover						
	Number	(min)	(max)	(mean)	Number	(min)	(max)	(mean)	Number	(min)	(max)	(mean)	Number	(min)	(max)	(mean)
2014	102	0.0002	8.9	0.3	11	0.0002	0.7	0.1	72	0.0002	4.3	0.4	0	0.0000	0.000	0.000
2012	200	0.0002	24.3	0.4	138	0.0002	5.9	0.3	79	0.0002	3.5	0.2	74	0.0002	0.097	0.003
2010	399	0.0002	24.4	0.2	141	0.0002	4.1	0.1	116	0.0002	4.2	0.1	44	0.0002	0.087	0.006
2008	309	0.0002	19.8	0.2	130	0.0002	4.3	0.1	211	0.0002	1.4	0.0	23	0.0002	0.048	0.014
2007	252	0.0002	26.5	0.2	103	0.0002	11.4	0.3	49	0.0002	9.4	0.4	2	0.0002	0.000	0.000

Table 7. Yearly comparisons of the abundance of plants in patches in Lake Zoar.

Year	Patch Abundance (1 = sparse - 5 = dense)											
	Eurasian watermilfoil			Minor naiad			Curlyleaf pondweed			European waterclover		
	(min)	(max)	(mean)	(min)	(max)	(mean)	(min)	(max)	(mean)	(min)	(max)	(mean)
2014	1	5	2.0	1	5	2.4	1	5	2.2	0	0	0.0
2012	1	5	1.8	1	5	2.1	1	4	1.8	1	5	2.0
2010	1	5	2.0	1	5	2.4	1	4	2.1	2	5	4.0
2008	1	4	1.7	1	4	2.1	1	4	1.9	2	4	3.1
2007	1	4	1.8	1	5	3.5	1	4	2.2	3	4	3.5

A total of eight plant species occurred on Lake Zoar’s transects in 2014 compared to 11 in 2013 (Table 5). Five of the species in 2014 were native compared to the nine in 2013, however, the frequency of occurrence of native species in 2014 (22%) and 2013 (28%) were statistically similar (Figure 13). We have found that the native aquatic plant community on the Lake Zoar transects change from year to year with only coontail (*Ceratophyllum demersum*) and eel grass (*Vallisneria americana*) found in all eight of our survey years (Table 5). Eel grass and coontail and were also the most frequently found native species in 2014.

When 2014 is compared to 2013, any species (native + invasive) on the Lake Zoar transects showed a statistical significant decrease in frequency of occurrence (34% vs 55%) and richness (0.7 vs 1.1) (Figure 13, 14). There was also a decrease between 2014 and 2013 in Eurasian watermilfoil frequency of occurrence (24% vs 29%) and invasive species richness (0.3 vs 0.8) between 2014 and 2013. Although the frequency of occurrence of minor naiad and curlyleaf pondweed were substantially lower in 2014 compared to 2013, there were no statistical differences. Changes in the plant community along transects in Lake Zoar may be influenced by high and low water levels associated with its riverine system and additional water level changes needed for hydroelectric power generation.

We found 102 patches of Eurasian watermilfoil in 2014 compared to 200 in 2012 and 252 to 399 in all other years (Table 6). Our 2014 survey also recorded the lowest Eurasian wa-

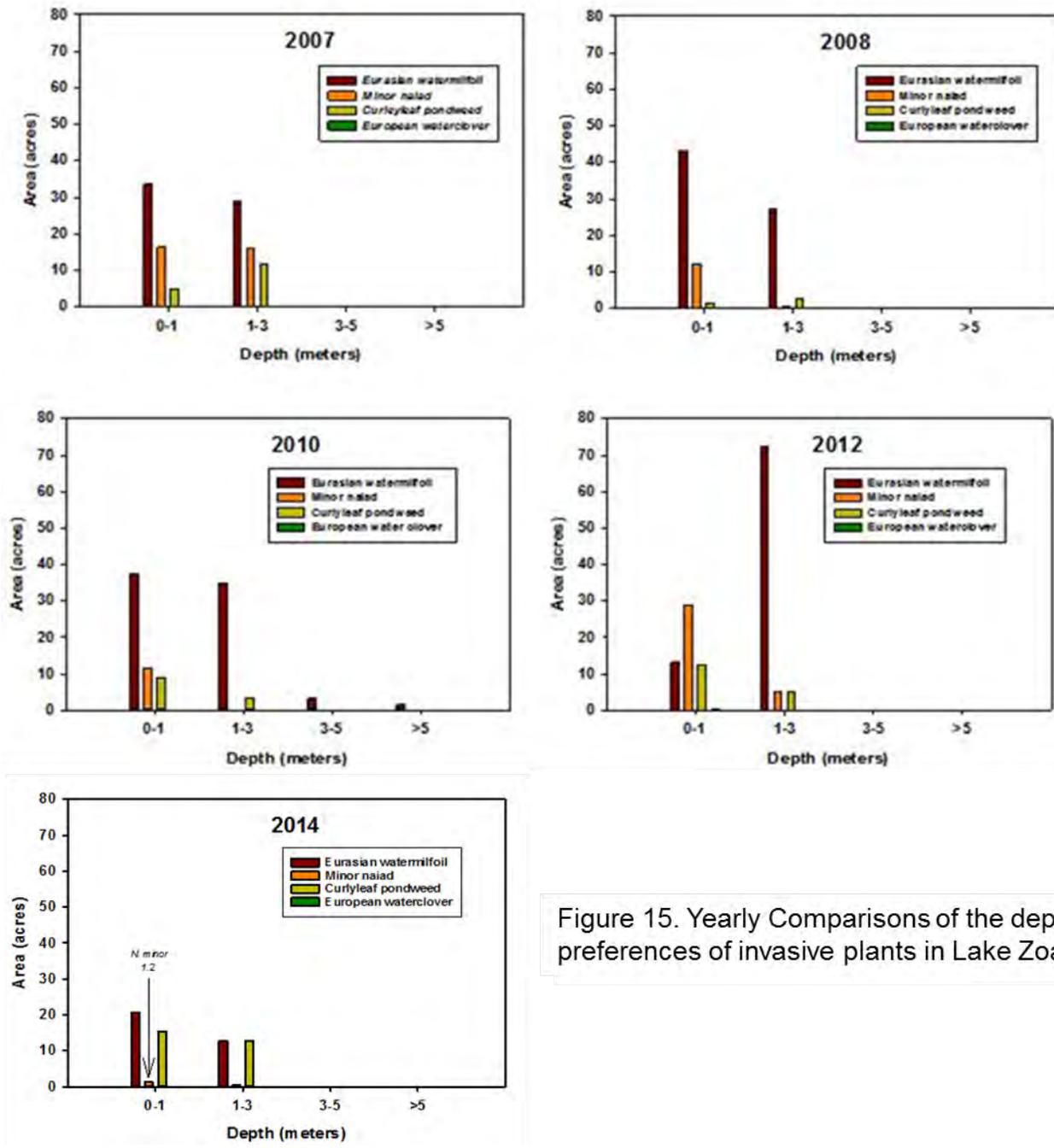


Figure 15. Yearly Comparisons of the depth preferences of invasive plants in Lake Zoar.

termilfoil maximum acreage found to date (8.9). Mean patch abundance of Eurasian watermilfoil (2.0) has remained within the narrow range of 1.7 to 2.0 found in other years (Table 7). The number of minor naiad patches decreased considerably to 11 in 2014 from 138 in 2012. The maximum patch size has also decreased to 0.7 in 2014 from 5.9 in 2012. The mean patch size of curlyleaf pondweed doubled to 0.4 in 2014 from 0.2 in 2012 while the mean abundance has remained stable in all years. The depth preference of Eurasian watermilfoil, minor naiad and curlyleaf pondweed was 0 to 3m (Figure 15).

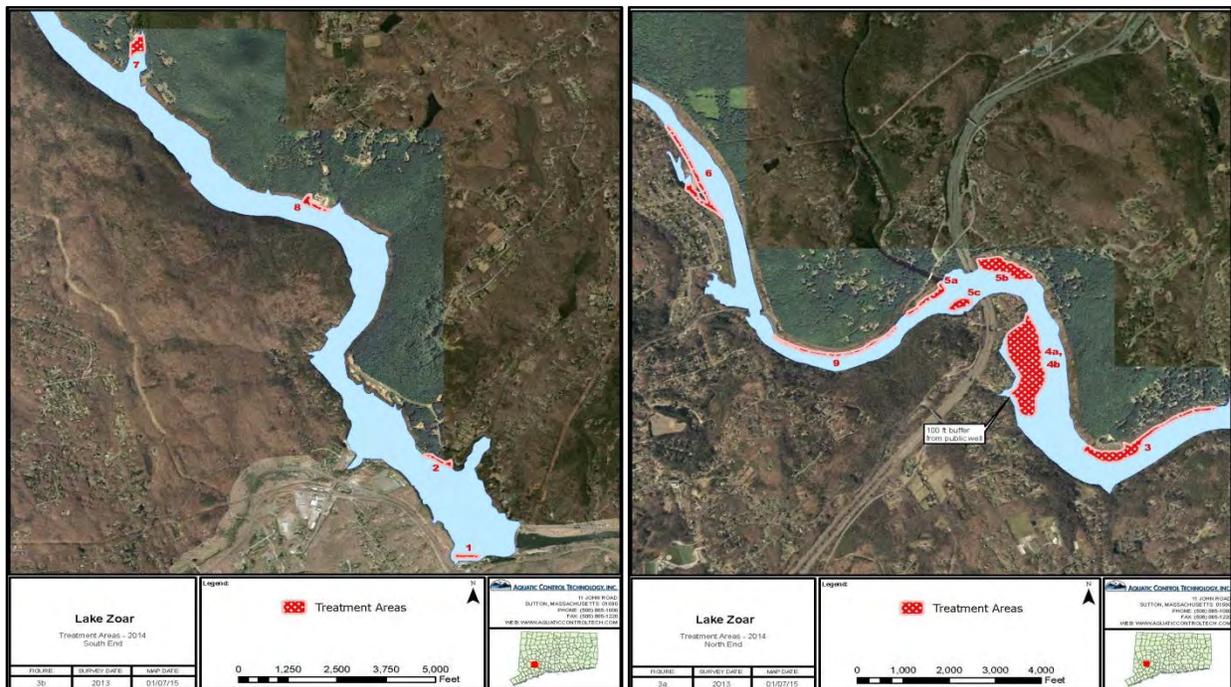


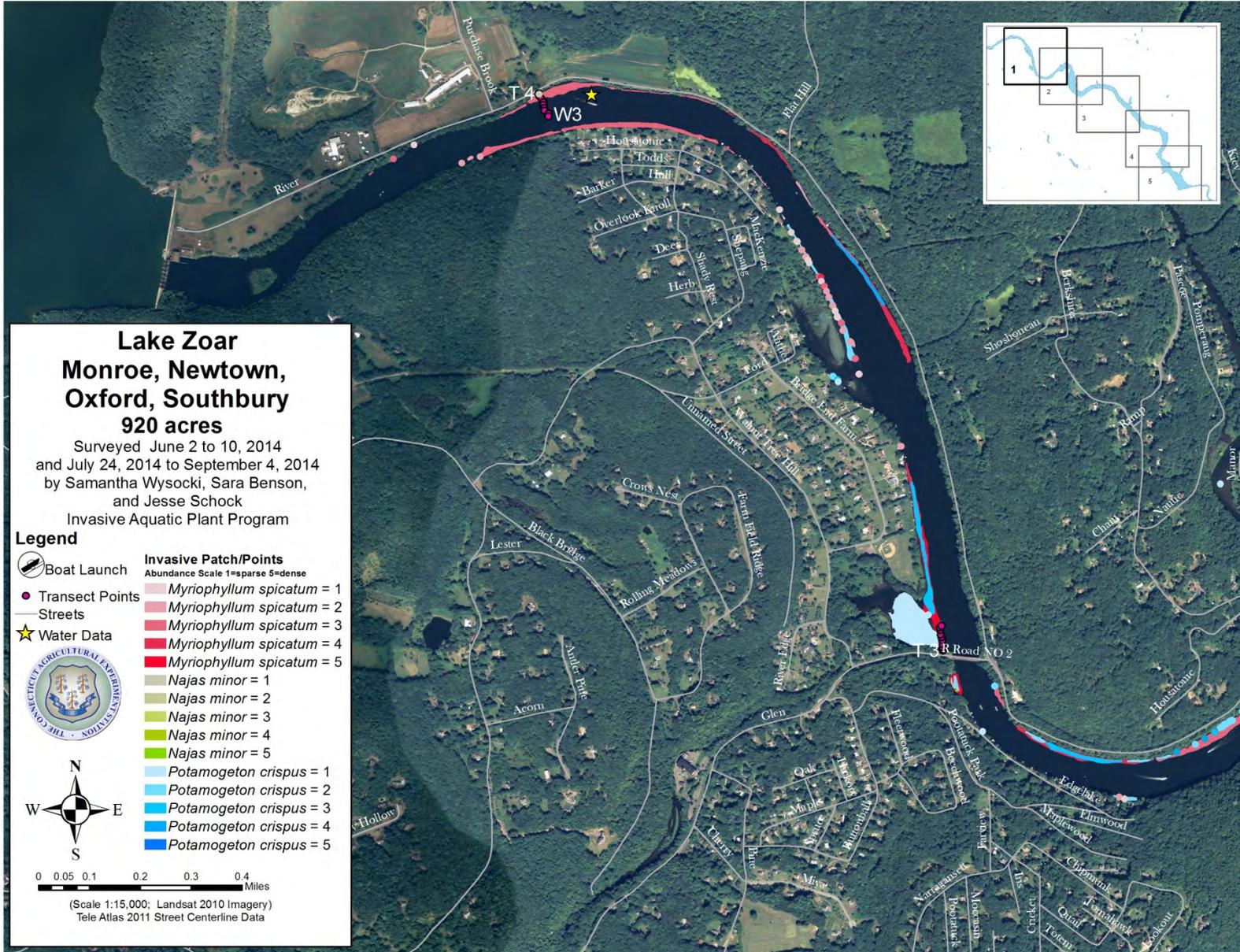
Figure 16. Areas of Lake Zoar treated with herbicides in 2014. Maps courtesy of Aquatic Control Technologies Inc. Sutton, MA.

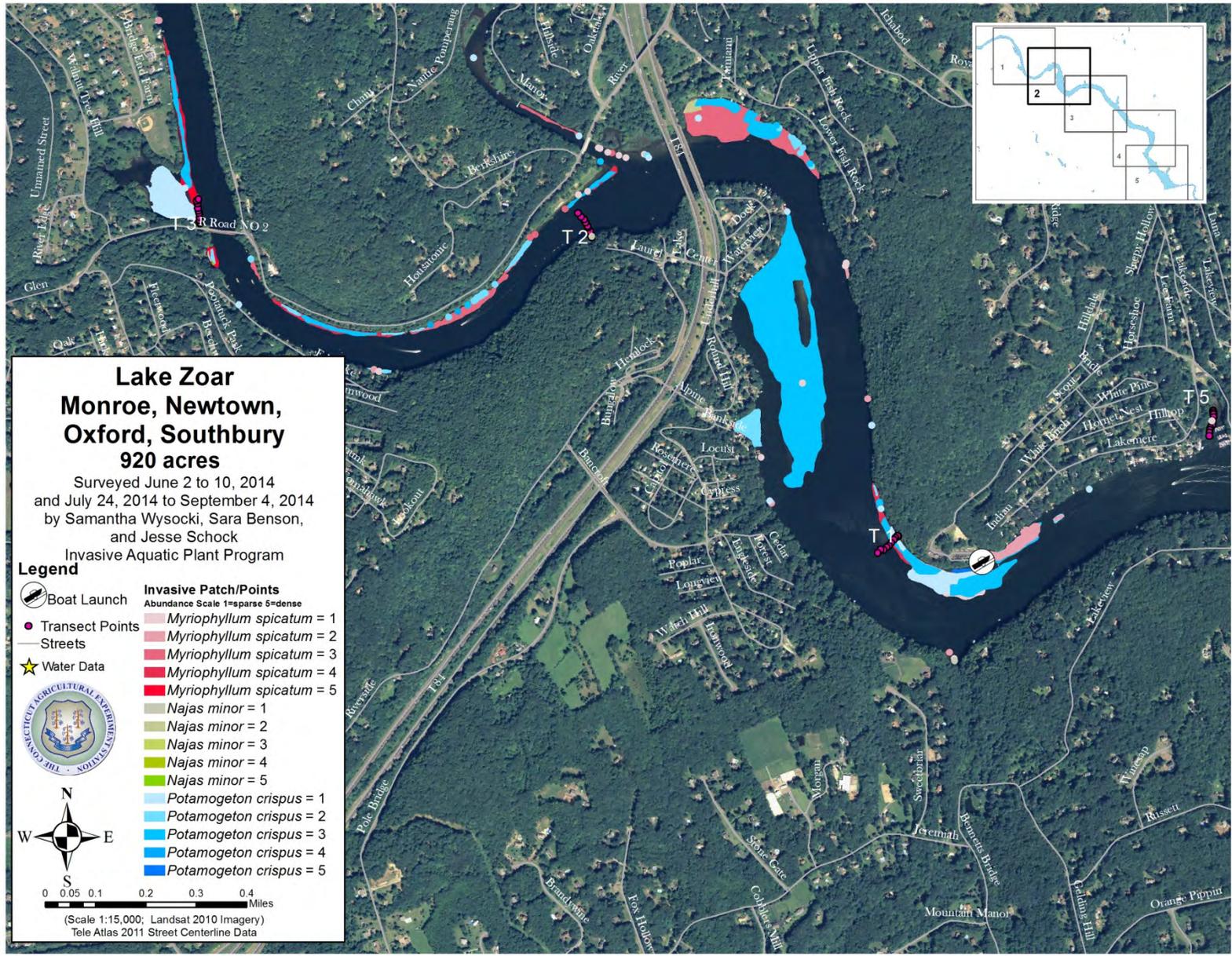
Table 8. Yearly comparison of the coverage of invasive plants in Lake Zoar’s littoral zone.

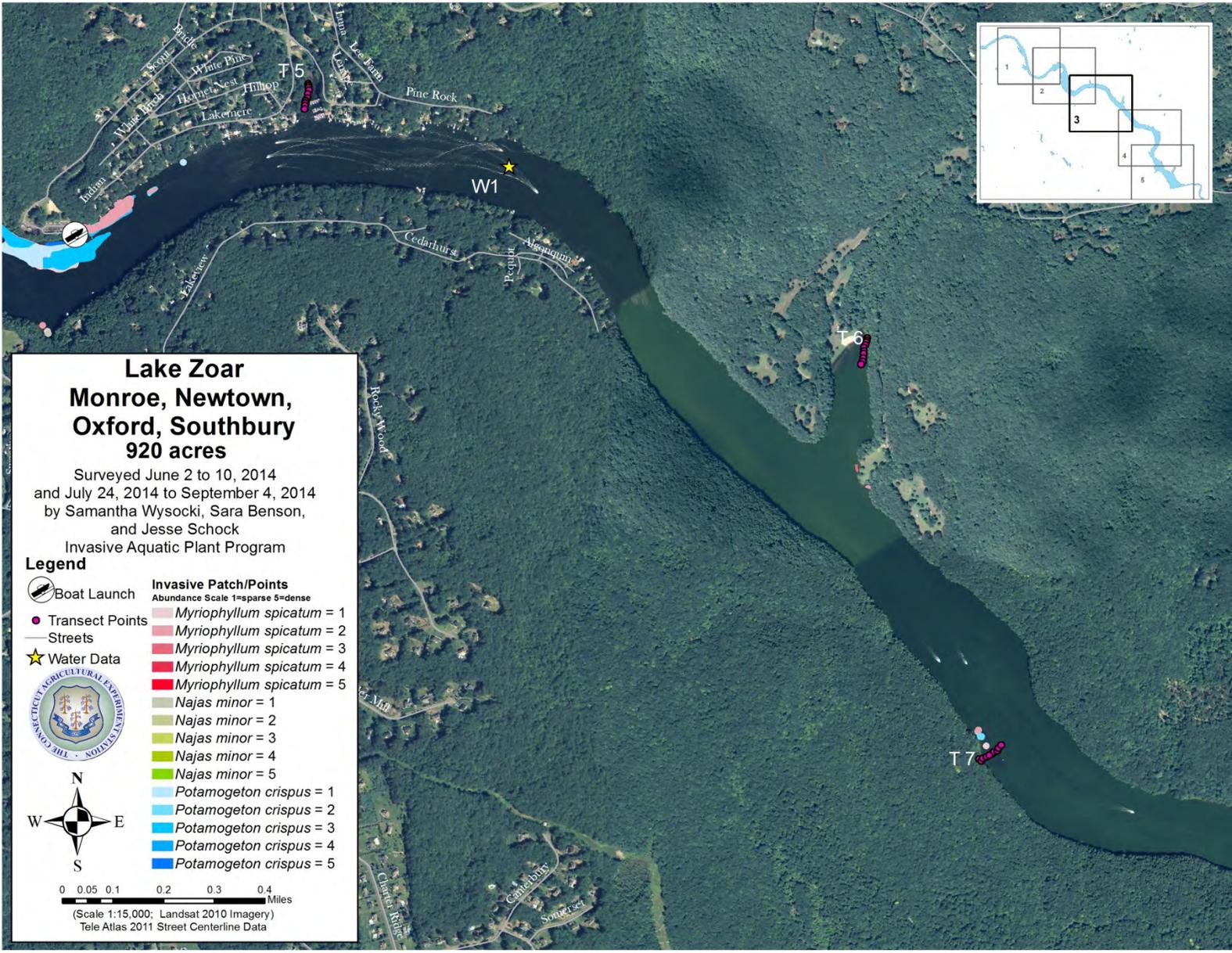
Scientific Name	Common Name	Year	Area (%)
<i>Myriophyllum spicatum</i>	Eurasian watermilfoil	2014	8.9
		2012	22.7
		2010	22.7
		2008	18.7
		2007	16.7
<i>Najas minor</i>	Minor naiad	2014	0.4
		2012	9.1
		2010	3.4
		2008	3.4
		2007	8.7
<i>Potamogeton crispus</i>	Curly leaf pondweed	2014	7.0
		2012	4.5
		2010	3.4
		2008	1.1
		2007	5.6
<i>Marsilea quadrifolia</i>	European waterclover	2014	0.0
		2012	0.1
		2010	0.1
		2008	0.1
		2007	0.0

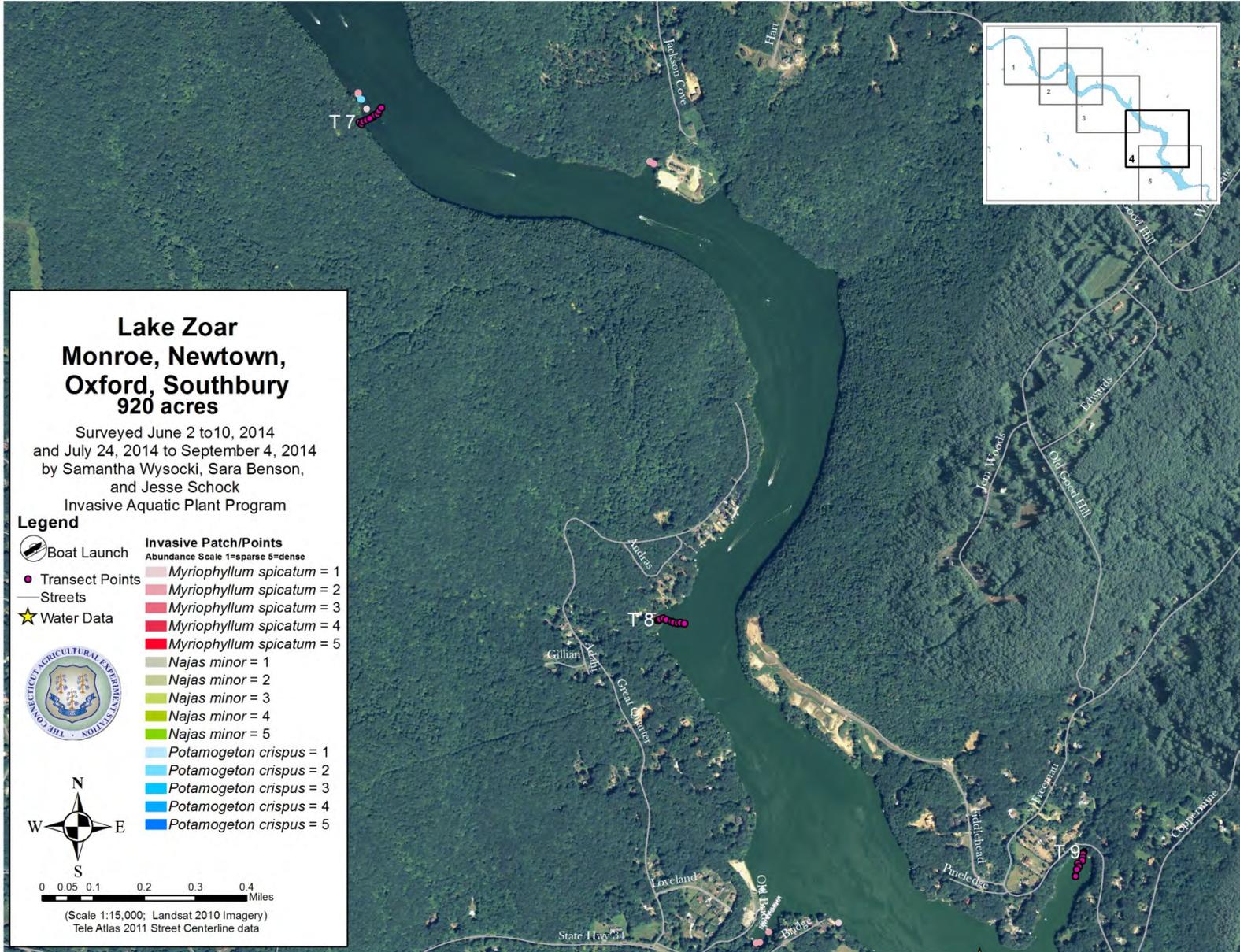
Lake Zoar received herbicide treatment to control Eurasian watermilfoil by Aquatic Control Technologies Inc. Sutton MA (ACT) on 7/16/2014 (Figure 16). Approximately 73 acres were treated in 2014 compared to 37 acres in 2013 (Bugbee et al. 2014). A combination of the herbicides Reward[®] (diquat) and Clipper[®] (flumioxazin) were used to obtain treatment site concentrations of 250 and 100 ppb respectively. This is the same combination and concentration of herbicides successfully applied in 2013 (personal communication). This combination of herbicides has the advantage of being fast acting and suited for areas where water movement restricts contact time. Correspondence with ACT suggests that this treatment was successful for six weeks followed by rapid regrowth. This was confirmed by a late summer survey by Northeast Aquatic Research (Mansfield Center, CT, personal communication). We believe Eurasian watermilfoil acreages were lower than in past years because of the large area of treatment and our 2014 survey took place soon after the herbicide application.

Lake Zoar's littoral zone is 376 acres or 41% of the lake's area. Eurasian watermilfoil decreased its littoral zone coverage to 9% in 2014 from 17 to 23% in previous years (Table 8). Minor naiad also had substantially lower littoral zone coverage (0.4%) in 2014 compared to any previous year (3 to 9%). The littoral zone coverage of curlyleaf pondweed increased to 7% in 2014 from 1 to 6% in previous years. European waterclover was not found in our 2014 survey because of water levels not allowing access to the known site. Lake Zoar's littoral zone coverage of invasive species is near the 20% coverage considered optimal for lakes. Low water levels and turbulence during flood events are likely to influence plant communities making it difficult to predict future trends.









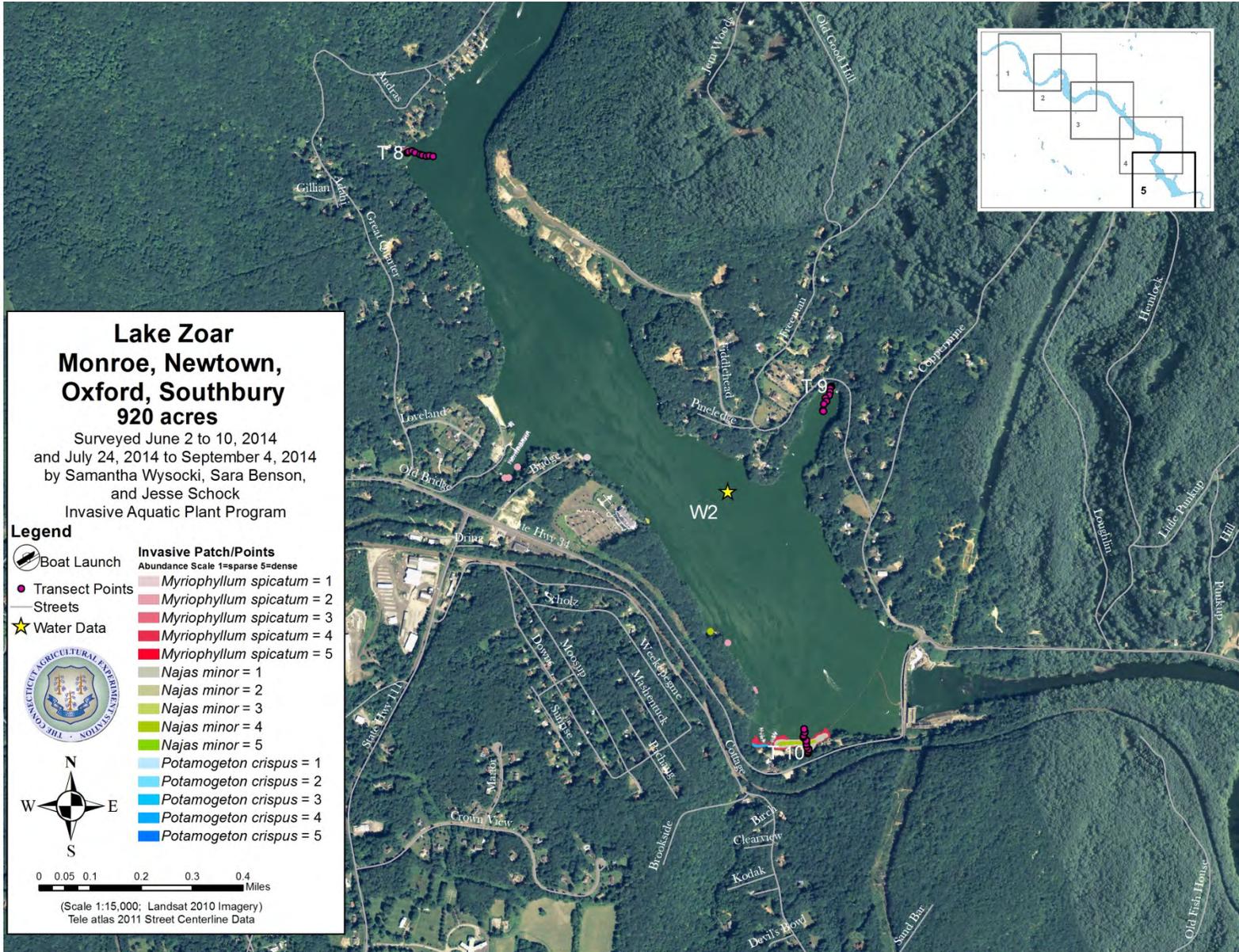


Table 9. Yearly frequency of occurrence and total area of aquatic vegetation in Lake Lillinonah.

Scientific Name	Common Name	Frequency of Occurrence (percent*)							Area (acres)			
		2007	2009	2010	2011	2012	2013	2014	2007	2009	2011	2013
<i>Callitriche</i> sp.	Water starwort	1	0	0	0	0	0	0	ND**	ND	ND	ND
<i>Ceratophyllum demersum</i>	Coontail	0	1	3	5	2	4	10	ND	ND	ND	ND
<i>Elatine</i> sp.	Waterwort	0	0	2	1	0	4	2	ND	ND	ND	ND
<i>Eleocharis</i> sp.	Spikerush	2	4	4	4	0	3	4	ND	ND	ND	ND
<i>Eriocaulon aquaticum</i>	Sevenangel pipewort	0	1	2	3	0	0	0	ND	ND	ND	ND
<i>Gratiola aurea</i>	Golden hedge-hyssop	0	1	0	0	0	0	0	ND	ND	ND	ND
<i>Lemna minor</i>	Duckweed	0	1	0	0	4	0	0	ND	ND	ND	ND
<i>Ludwigia species</i>	Primrose-willow	0	0	0	0	0	1	1	ND	ND	ND	ND
<i>Myriophyllum spicatum</i>	Eurasian watermilfoil	16	15	25	12	39	35	25	21	19	36	90
<i>Najas minor</i>	Minor naiad	14	6	5	12	19	7	21	8	1	11	8
<i>Potamogeton bicupulatus</i>	Snailseed pondweed	0	3	0	0	0	0	0	ND	ND	ND	ND
<i>Potamogeton crispus</i>	Curlyleaf pondweed	3	0	1	5	4	1	3	0.1	<0.1	<0.1	<0.1
<i>Potamogeton foliosus</i>	Leafy pondweed	0	0	4	4	1	4	0	ND	ND	ND	ND
<i>Potamogeton illinoensis</i>	Illinois pondweed	2	2	0	0	0	0	0	ND	ND	ND	ND
<i>Potamogeton nodosus</i>	Longleaf pondweed	0	0	0	1	2	0	0	ND	ND	ND	ND
<i>Potamogeton pusillus</i>	Small pondweed	0	0	1	0	1	1	1	ND	ND	ND	ND
<i>Sagittaria</i> sp.	Arrowhead	0	0	1	0	0	5	4	ND	ND	ND	ND
<i>Stuckenia pectinata</i>	Sago pondweed	0	0	0	1	0	0	0	ND	ND	ND	ND
<i>Trapa natans</i>	Water chestnut	0	0	0	0	0	0	0	0.0	0.0	<0.1	<0.1
<i>Zannichellia palustris</i>	Horned pondweed	1	0	4	1	0	3	3	ND	ND	ND	ND
<i>Zosterella dubia</i>	Water stargrass	4	0	0	0	0	0	0	ND	ND	ND	ND
Total Invasive Species Richness		3	2	3	3	3	3	3				
Total Native Species Richness		5	7	8	8	5	8	7				
Total Species Richness		8	9	11	11	8	11	10				
Invasive plant (in bold)												
* Percent occurrence on 100 points in 10 transects												
** Not Determined												

Lake Lillinonah

Conforming to the FERC approved alternate year cycle of whole lake then transect only surveys for Lakes Lillinonah and Zoar, only transect and water data were obtained from Lake Lillinonah in 2014 (Figure 17). The invasive species found along the Lake Lillinonah transects were Eurasian watermilfoil, minor naiad and curlyleaf pondweed. These were the same invasive species found in our previous surveys. Our transect data showed a significant decrease ($p < 0.05$) in frequency of occurrence of Eurasian watermilfoil in 2014 (25%) compared to 2013 (35%) and 2012 (39%) (Table 9, Figure 18). Minor naiad's frequency of occurrence on transects increased to 21% in 2014 from 7% in 2013 with significant statistical difference ($p < 0.05$) among years (Table 9, Figure 18). The frequency of occurrence of curlyleaf pondweed ranged between 0 and 5% throughout the years with no significant changes. Since curlyleaf pondweed grows primarily in the spring and senescens in the summer, the plant may be underrepresented because the data was not collected during its period of optimum growth. Water chestnut was not found along any transects but is known to occur in the lake and removal by harvesting is practiced.

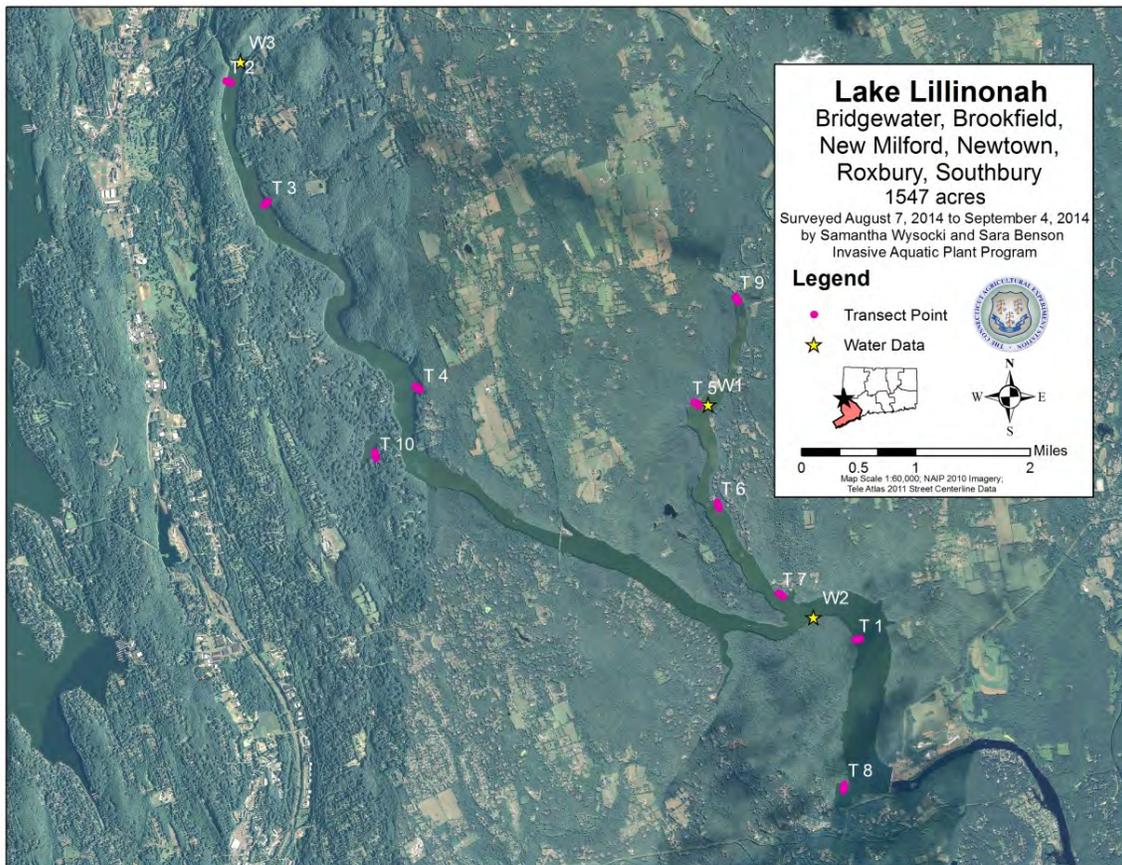


Figure 17. Locations of transects and water sampling sites in Lake Lillinonah.

We found seven native plant species on Lake Lillinonah’s transects in 2014, compared to eight in 2013 and four in 2012 (Table 9). Although the number of native plant species found in 2014 was greater than in any previous year, the frequency of occurrence was not significantly different (Figure 16). Among the most common native species were coontail (*Ceratophyllum demersum*, 10%), arrowhead (*Sagittaria species*, 4%), and spikerush (*Eleocharis species*, 4%) (Table 9).

Mean native species richness per transect point in 2014 was the same (0.3) in 2013 as in 2014 (Figure 19). The 2014 survey resulted in the highest mean species richness of any plant (native + invasive) on transects (0.8), but was only significantly different from years prior to 2012 ($p < 0.05$). Mean invasive plant species richness per transect point showed a statistically similar trend. Predicting future trends in plant community structure based on transect data alone may be difficult considering the riverine nature of the lake and water level changes associated with the generation of hydroelectric power.

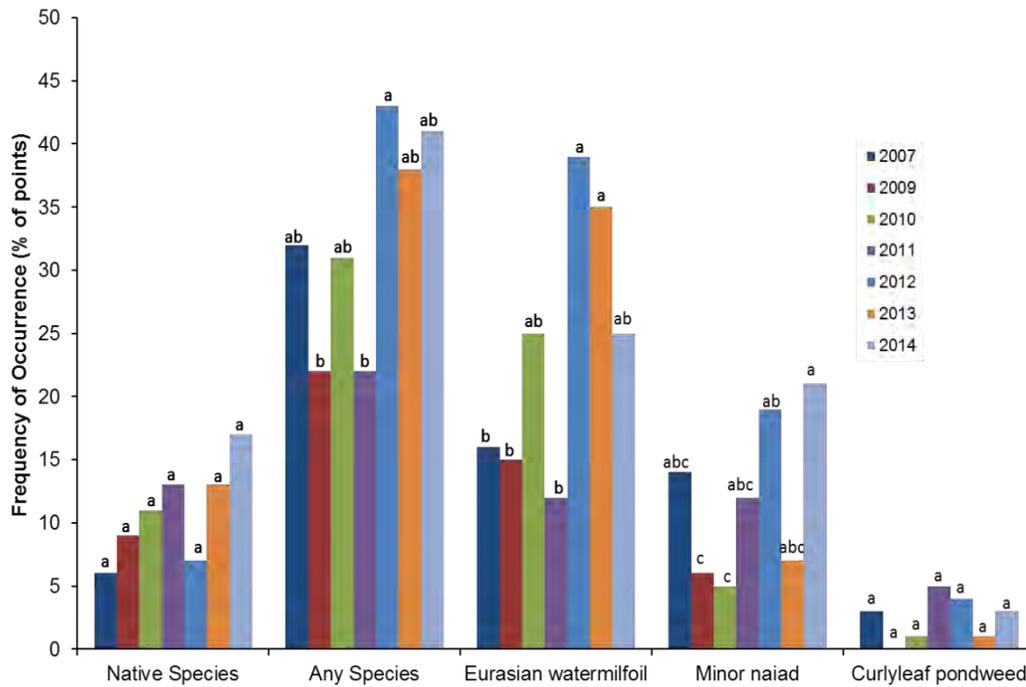


Figure 18. Yearly comparison of average frequency of occurrence of aquatic plants on transects in Lake Lillinonah. Bars with the same letter within a species are not statistically different.

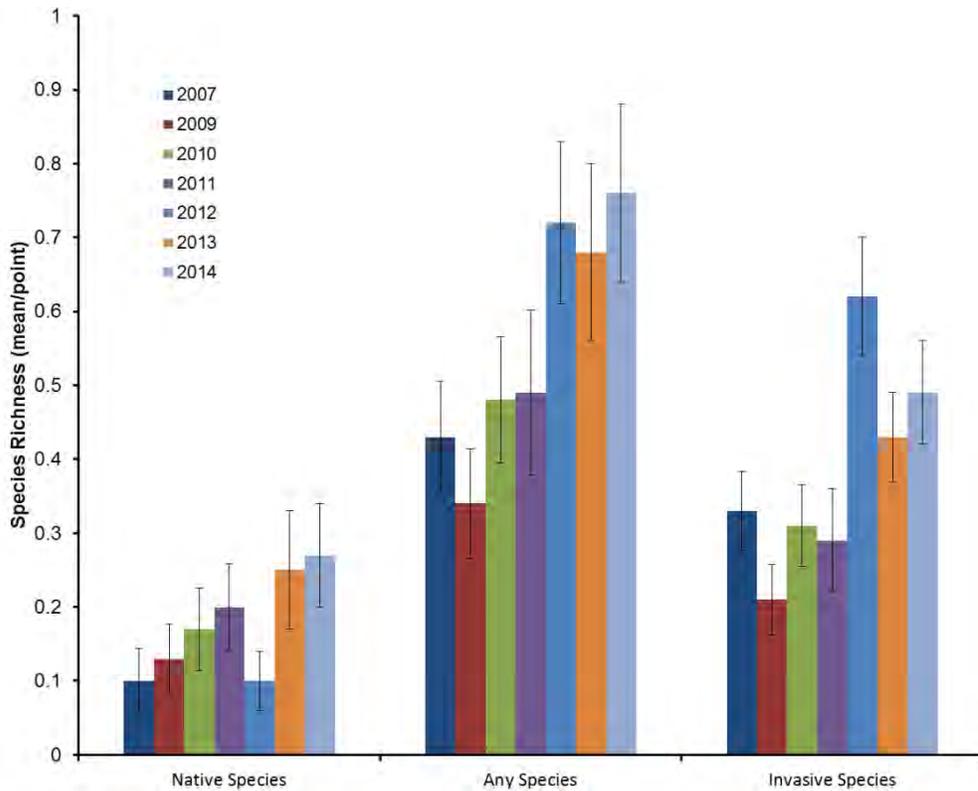


Figure 19. Yearly comparisons of acreage number of species per transect point in Lake Lillinonah. Error bars equal +/- one standard error of the mean.

Table 10. Water chemistry of Lakes Candlewood, Lillinonah, and Zoar, 2014

Lake	Site	Date	Latitude	Longitude	Sample Depth (m)	Transparency Secchi (m)	Conductivity (uS/cm)	pH	Alkalinity CaCO ₃ (mg/L)	Total P (ug/L)
Candlewood	W1	9/5/2014	41.53331	-73.44453	0.5	2.5	197.8	7.3	47	10
					13		220.2	6.8	56	56
	W2	9/5/2014	41.49209	-73.44987	0.5	2.3	199.4	8	41	8
					12.5		219.6	6.8	59	223
					0.5	3.8	198.1	7.2	49	10
W3	9/5/2014	41.55332	-73.47567	9.2		209.6	6.8	53	31	
				0.5	2.3	197.9	8.3	47	10	
Lillinonah	W4	9/5/2014	41.43548	-73.45578	10.6		207.4	6.8	54	32
					0.5	2.5	198.4	7.9	46	9
	W5	9/5/2014	41.45624	-73.43694	10.6		211.3	6.8	56	42
					0.5	1.3	223.8	8.7	59	15
					5.2		219	8.1	57	19
W2	9/4/2014	41.4297	-73.21978	0.5	1	234.5	8.8	62	17	
				15.6		297.8	7.7	85	19	
				0.5	0.8	270	7.8	75	25	
Zoar	W3	9/4/2014	41.45314	-73.27963	2.2		297	7.6	90	102
					0.5	2.3	260.4	7.6	79	9
	W1	9/4/2014	41.38886	-73.17827	9.4		263.7	7.5	77	17
					0.5	2.1	253	7.9	73	8
					13.9		259.3	7.0	77	19
W2	9/4/2014	41.4297	-73.21978	0.5	2	268.8	7.6	82	19	
				3		266.4	7.5	77	13	

Comparisons of Water Chemistry

At the conclusion of each lakes survey we perform water testing to compare conditions between lakes. Because our water tests are performed only once each year, they may not be indicative of conditions at other times. Changes in water chemistry may affect invasive aquatic plants. Invasive plants such as Eurasian watermilfoil, minor naiad and curlyleaf pondweed prefer water with a higher pH and alkalinity than invasive plants such as variable watermilfoil (*Myriophyllum heterophyllum*) and fanwort (*Cabomba caroliniana*) (June-Wells et al. 2013). The transparency of Candlewood Lake averaged 2.7 meters in 2014 (Figure 20) compared to 1.9 meters in 2013 and 2.2 m in 2012 (Bugbee et al. 2013). Over the course of our survey the transparency varied between 2.3 and 4.1 m and was noticeably clearer than in 2013 (Figure 20). This could be related to the filtering action of increased vegetation caused by the shallow drawdown, weather or other phenomena. In Lake Lillinonah and Lake Zoar we recorded a mean transparency of 1.0 m and 2.1 m, respectively (Table 10). Transparencies in Connecticut's lakes ranged from 0.3 to 10.2 m with an average of 2.3 m (CAES IAPP, 2014). Thus, the transparency of Candlewood, Lillinonah and Zoar all rank slightly below Connecticut's average. Conductivity is an indicator of dissolved ions that come from natural and man-made

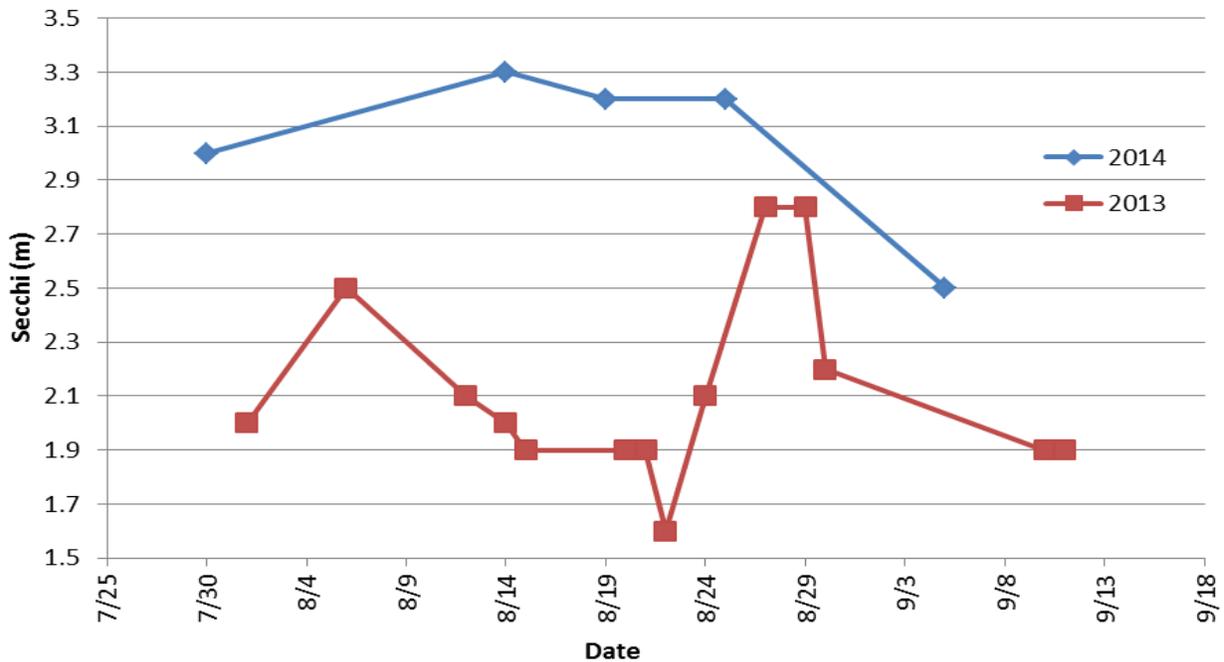


Figure 20. Water transparency in Candlewood Lake during our 2013 and 2014 surveys.

sources (fertilizers, septic systems, road salts etc.). The conductivity of Candlewood Lake ranged from 198 to 220 $\mu\text{S}/\text{cm}$ in 2014 with the highest levels in the bottom water (Table 10). This may indicate an increase from and the early 1990's when Candlewood Lake's conductivity ranged from 176 to 184 $\mu\text{S}/\text{cm}$ (Canavan and Siver, 1995). The conductivity of Lake Lillinonah ranged from 219 to 298 $\mu\text{S}/\text{cm}$ in 2014 while Lake Zoar's conductivity was in the range of 253 to 269 $\mu\text{S}/\text{cm}$.

The pH of Candlewood Lake's water ranged from 6.8 to 8.3 with the highest levels in the surface water. Lake Zoar's water pH fell within the range of 7.0 to 7.9 while Lake Lillinonah's pH ranged from 7.6 to 8.8. Both lakes had minimal differences between the pH of the surface and bottom water. This is likely due to greater mixing in their riverine environment. Alkalinities in Connecticut's lakes range from near 0 to over 170 mg/L CaCO_3 (CAES IAPP, 2014, Canavan and Siver, 1995, Frink and Norvell, 1984). Candlewood Lake's surface water alkalinity ranged from 41 to 49 mg/L and bottom water ranged from 53 to 59 mg/L. Lake Lillinonah's surface water alkalinity ranged from 59 to 75 and the bottom water ranged from

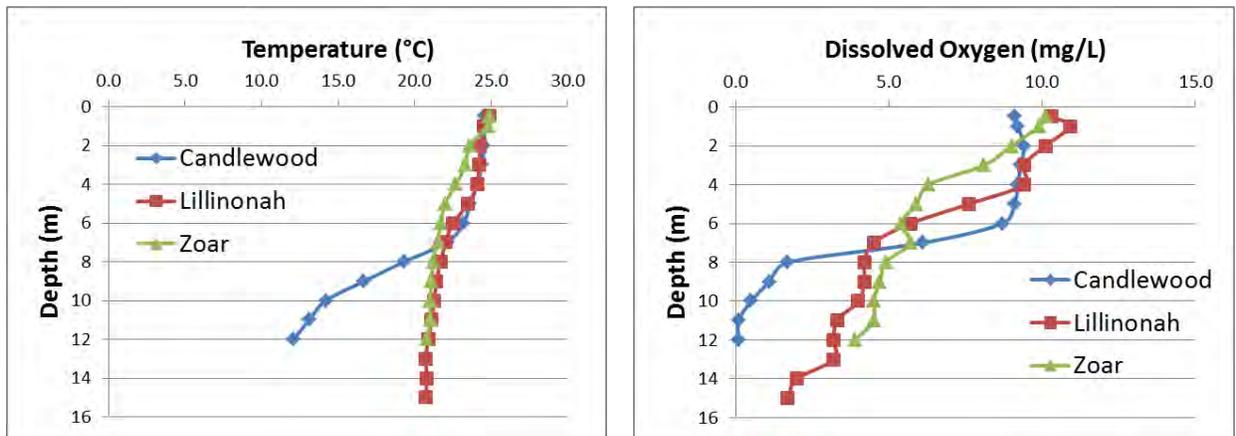


Figure 21. Temperature and dissolved oxygen profiles in Lakes Candlewood, Lillinonah, and Zoar, 2014.

57 to 90 mg/L. Lake Zoar’s surface and bottom water fell within a similar alkalinity range of 73 to 82 mg/L. The 2012 trend of a slight increase in pH and alkalinity, as water moves downstream from Candlewood Lake, through Lake Lillinonah and into Lake Zoar (Bugbee et al. 2013) was not evident in 2013.

Phosphorus (P) concentrations are an indicator of a lake’s trophic state. High levels of P can lead to nuisance or toxic algal blooms (Frink and Norvell, 1984, Wetzel, 2001). Rooted macrophytes are considered to be less dependent on P from the water column as they obtain a majority of their nutrients from the hydrosol (Bristow and Whitcombe, 1971). Lakes with P levels from 0 to 10 $\mu\text{g/L}$ are considered to be nutrient-poor or oligotrophic. When P concentrations reach 15 to 25 $\mu\text{g/L}$, lakes are classified as moderately fertile or mesotrophic. P levels from 30 to 50 $\mu\text{g/L}$ characterize lakes as fertile or eutrophic (Frink and Norvell, 1984). The P concentration in Candlewood Lake’s surface water ranged from 8 to 10 $\mu\text{g/L}$ and bottom water ranged from 31 to 223 $\mu\text{g/L}$ (Table 10). This partitioning of P between the surface and bottom water is common in the summer as anoxic conditions near the bottom release P from the sediment (Figure 18) (Norvell, 1974). We found the highest P level (223 $\mu\text{g/L}$) at the deepest site in the center of the New Milford arm (W2, Map 1, Page 33). The P concentration in Lake Lillinonah’s surface water ranged from 15 to 25 $\mu\text{g/L}$ and bottom water ranged from 19 to 102 $\mu\text{g/L}$. Lake Zoar’s surface water had P concentration from 8 to 19 $\mu\text{g/L}$ and from 13 to 19 $\mu\text{g/L}$ in its bottom water. Lake Lillinonah and Zoar’s difference in P concentrations between surface and bottom water may be due to shallower depth and greater mixing.

Summer dissolved oxygen profiles of the lakes showed well oxygenated conditions to a depth of approximately six meters (Figure 21). In Lake Candlewood severe anoxic (low dissolved oxygen) conditions occurred around 7 m while in Lake Lillinonah and Lake Zoar anoxic conditions were not as pronounced. Greater anoxia in Candlewood Lake is probably due to its greater depth and less vertical mixing.

Conclusions:

Eurasian watermilfoil dominates the plant communities in Lakes Candlewood, Lillinonah and Zoar. The 477 acres of Eurasian watermilfoil in Candlewood Lake in 2014 was exceeded only by the 505 acres found in 2007. This was likely caused by the lack of efficacy of the previous winter's shallow drawdown. The amount of Eurasian watermilfoil in Candlewood Lake appears inversely related to the depth and duration of the previous winter's drawdown. Minor naiad inhabited 19 acres of Candlewood Lake in 2014 compared to 24 acres in 2013 suggesting this seed borne annual is less affected by drawdown practices than Eurasian watermilfoil. We found four acres of curlyleaf pondweed in Lake Candlewood during our 2014 spring survey, which was the largest area found to date. Our 2014 invasive plant survey of Lake Zoar found Eurasian watermilfoil, minor naiad, and curlyleaf pondweed. We did not find European waterclover in 2014 due to inaccessibility to its known location but we presume the plant is still present. Eurasian watermilfoil coverage on Lake Zoar was 33 acres representing the lowest acreage we have found to date and considerably less than the 85 acres present in 2012. Minor naiad coverage also decreased to two acres in 2014 from 34 acres in 2012. Curlyleaf pondweed coverage in Lake Zoar increased to 26 acres in 2014 from 17 acres in 2012. The decrease in Eurasian watermilfoil and minor naiad in 2014 in Lake Zoar is likely attributed to the greater use of aquatic herbicides.

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Appendix

2014 CAES IAPP On-Lake Time

Candlewood (Lead surveyor)	Zoar (Lead surveyor)	Lillinonah (Lead surveyor)
6/12/2014 (Bugbee)	6/2/2014 (Wysocki)	8/7/2014 (Wysocki)
6/13/2014 (Bugbee)	6/3/2014 (Wysocki)	8/8/2014 (Wysocki)
6/17/2014 (Bugbee)	6/10/2014 (Wysocki)	9/4/2014 (Wysocki)
6/18/2014 (Bugbee)	6/11/2014 (Wysocki)	
7/30/2014 (Bugbee)	7/24/2014 (Wysocki)	
8/1/2014 (Bugbee)	8/1/2014 (Wysocki)	
8/8/2014 (Bugbee)	8/19/2014 (Wysocki)	
8/12/2014 (Bugbee)	8/20/2014 (Wysocki)	
8/14/2014 (Bugbee)	8/22/2014 (Wysocki)	
8/15/2014 (Bugbee)	8/28/2014 (Wysocki)	
8/16/2014 (Bugbee)	9/4/2014 (Wysocki)	
8/19/2014 (Bugbee)		
8/20/2014 (Bugbee)		
8/22/2014 (Bugbee)		
8/25/2014 (Bugbee)		
8/27/2014 (Bugbee)		
9/2/2014 (Bugbee)		
9/5/2014 (Bugbee)		
9/11/2014 (Bugbee)		
9/18/2014 (Bugbee)		
20 days	11 days	3 day

Invasive Plant Descriptions

Marsilea quadrifolia

Common names:

European waterclover
Water shamrock

Origin:

Europe

Key features:

Floating leaf plant

Stems: Smooth petioles 2-12 inches (5-30 cm)

Leaves: Comprised of 4 fan-shaped leaflets (similar to a four-leaf clover)

Fruits/Seeds: 2 or 3 dark brown sporocarps 0.2 inches × 0.2 inches (4-5.5 mm × 3-4 mm)

Reproduction: Cloning and sporocarps

Easily confused species:

None



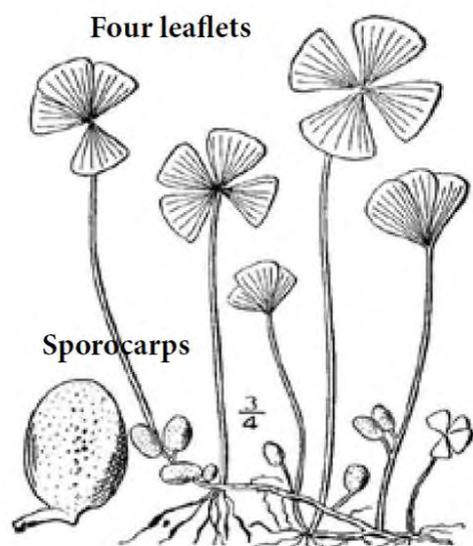
Photo by CAES IAPP



Photo by CAES IAPP



Photo by CAES IAPP



Britton, N.L., and A. Brown. 1913



Myriophyllum spicatum

Common name:
Eurasian watermilfoil

Origin:
Europe and Asia

Key features:
Plants are submersed

Stems: Stem diameter below the inflorescence is greater with reddish stem tips

Leaves: Leaves are rectangular with ≥ 12 pairs of leaflets per leaf and are dissected giving a feathery appearance, arranged in a whorl, whorls are 1 inch (2.5 cm) apart

Flowers: Small pinkish male flowers that occur on reddish spikes, female flowers lack petals and sepals and have 4 lobed pistil

Fruits/Seeds: Fruit are round 0.08-0.12 inches (2-3 mm) and contain 4 seeds

Reproduction: Fragmentation and seeds

Easily confused species:

Variable-leaf watermilfoil: *Myriophyllum heterophyllum*

Low watermilfoil: *Myriophyllum humile*

Northern watermilfoil: *Myriophyllum sibiricum*

Whorled watermilfoil: *Myriophyllum verticillatum*



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Najas minor

Common names:

Minor naiad
Brittle waternymph
Spiny leaf naiad
Eutrophic waternymph

Origin:

Europe

Key features:

Plants are submersed

Stems: Branched stems can grow up to 4-8 inches (10-20 cm) long

Leaves: Opposite and lance shaped on branched stems with easily visible toothed leaf edges and leaves appear curled under, basal lobes of leaf are also serrated, 0.01-0.02 inches (0.3-0.5 mm)

Flowers: Monoecious (male and female flowers on same plant)

Fruits/Seeds: Fruits are purple-tinged and seeds measure 0.03-0.06 inches (1.5-3 mm)

Reproduction: Seeds and fragmentation

Easily confused species:

Other naiads (native): *Najas* spp.



Potamogeton crispus

Common names:

Curly leaf pondweed
Crispy-leaved pondweed
Crisped pondweed

Origin:

Asia, Africa, and Europe

Key features:

Plants are submersed

Stems: Stems are flattened, can form dense stands in water up to 15 feet (5 m) deep

Leaves: Alternate leaves 0.3-1 inches (3-8 cm) wide with wavy edges (similar to lasagna) with a prominent mid-vein

Flowers: Brown and inconspicuous

Fruits/Seeds: Fruit is oval 0.1 inches (3 mm) long

Reproduction: Turions (right) and seeds

Easily confused species:

None



Photo by CAES IAPP



Turion

Photo by CAES IAPP



Photo by Leslie J. Mehrhoff



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Center for Aquatic and Botanical Plants

Potamogeton crispus
Curly pondweed



★ CAES
■ IPANE



Trapa natans

Common names:

Water chestnut
European water chestnut

Origin:

Asia and Europe

Key features:

Plants are rooted to substrate and float

Stems: Stem is submersed, flaccid and can be up to 15 feet (5 m) long

Leaves: Leaves 0.8-0.16 inches (2-4 cm) long are triangular and toothed along the front edge with inflated petioles, leaves float in a rosette pattern

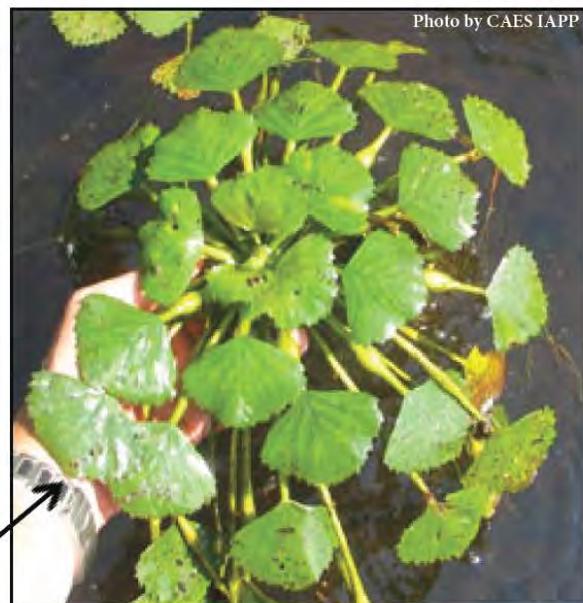
Flowers: Flowers are located in the center of the rosette and have four white petals

Fruits/Seeds: Fruit is hard and has four sharp spines

Reproduction: Seeds and fragmentation

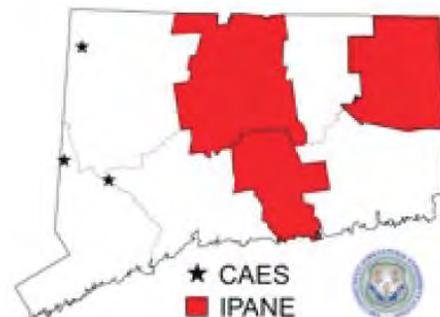
Easily confused species:

None



← Fruit

Rosette →



Metadata

Metadata is data about data. This metadata gives background information on the content, quality, condition, legal liability and other appropriate characteristics of the data.

Metadata

Polygons and Points of Invasive Plants

- Abstract** This polygon and point data is of the invasive aquatic plant locations in Lakes Candlewood and Zoar found during the 2014 aquatic plant survey. The invasive aquatic plants found during the survey were *Potamogeton crispus* (curlyleaf pondweed), *Najas minor* (minor naiad), and *Myriophyllum spicatum* (Eurasian watermilfoil). Survey boats with Trimble GPS units traveled along the outside of each invasive patch to obtain the polygons. In the event that invasive aquatic plants species co-occurred, two separate polygons would be made or the occurrence would be noted in the notes field. If plants covered an area of less than 1 meter in diameter a point feature was recorded. Depth was at three different locations in patches and the average depth range was assigned. For points one depth measurement was recorded. Abundance of each species in the patch or point was ranked on a scale of 1-5 (1= rare, a single stem; 2= uncommon, few stems; 3= common; 4= abundant; 5= extremely abundant or dominant).
- Purpose** To document and assess the invasive aquatic plant infestation on lakes Candlewood and Zoar during 2014. This data will also be available to compare with future invasive aquatic plant survey data.
- Access**
- Constraints** This data is public access data and can be freely distributed. The Connecticut Agricultural Experiment Station Invasive Aquatic Plant Program (CAES IAPP) should be clearly cited as the author in any published works. The State of Connecticut shall not be held liable for improper or incorrect use of the data described and/or contained within this web site. These data and related graphics are not legal documents and are not intended to be used as such. The information contained in these data is dynamic and will change over time. The State of Connecticut gives no warranty, expressed or implied, as to the accuracy, reliability, or completeness of these data. It is the responsibility of the data user to use the data appropriately and consistent within these limitations. Although these data have been processed successfully on a computer system at the State of Connecticut, no warranty expressed or implied is made regarding the utility of the data on another system or for general or scientific purposes, nor shall the act of distribution constitute any such warranty. This disclaimer applies both to individual use of the data and aggregate use with other data.
- Use**
- Constraints** No restrictions or legal prerequisites for using the data. The data is suitable for use at appropriate scale, and is not intended for maps printed at scales greater or more detailed than 1:24,000 scale (1 inch = 2,000 feet). Although this data set has been used by the State of Connecticut, The Connecticut Agricultural Experiment Station, no warranty, expressed or implied, is made by the State of Connecticut, Connecticut Agricultural Experiment Station as to the accuracy of the data and or related materials. The act of distribution shall not constitute any such warranty, and no responsibility is assumed by the State of Connecticut, Connecticut Agricultural Experiment Station in the use of these data or related materials. The user assumes the entire risk related to the use of these data. Once the data is distributed to the user, modifications made to the data by the user should be noted in the metadata. When printing this data on a map or using it in a software application, analysis, or report, please acknowledge the Connecticut Ag-

gricultural Experiment Station Invasive Aquatic Plant Program (CAES IAPP) as the source for this information.

Credit Gregory J. Bugbee and Jennifer Fanzutti, The Connecticut Agricultural Experiment Station Invasive Aquatic Plant Program (CAES IAPP)

Accuracy Report All aquatic plants noted in this feature were confirmed in the lab using a dichotomous key and, when possible, molecular techniques. Collection specimens of each plant can be found at The Connecticut Agricultural Experiment Station herbarium. Abundance determinations were made by the surveyor based on the abundance guidelines listed in the abstract of this metadata.

GPS Accuracy Positions were acquired by using a Trimble GeoXT® or a Trimble ProXT® with TerraSync 2.40 or 5.02 (WAAS enabled). Data was post-processed in the lab with Pathfinder Office 5.10 with data from local base stations. Therefore, the average accuracy of the data is less than 1m.

Process Position data was obtained in the field using a Trimble GeoXT® or a Trimble ProXT® with TerraSync 2.40 or 5.02 (WAAS enabled). Data was post-processed in the lab with Pathfinder Office 5.10 with data from local base stations and then imported into ESRI ArcMap 10.2.1 for display and analysis.

Metadata

Transects

Abstract Quantitative abundance information on native and invasive aquatic plants were obtained by using the CAES IAPP transect method. We positioned transects perpendicular to the shoreline and recorded GPS location and the abundance of each plant species found within a 2 m² area at 0, 5, 10, 20, 30, 40, 50, 60, 70 and 80 m from the shore (a total of 10 samples on each transect unless impaired by rocks, land etc.). Ten transects were established for each lake. Transects were positioned using a random-representative method to account for all bottom types and plant conditions in Lakes Lillinonah and Zoar. In Lake Candlewood, the random-representative method was not used. Instead, transects were chosen that included at least one occurrence of each native and invasive plant species found by a more thorough set of transects done by CAES IAPP in 2005. Candlewood Lake transects, T2, T22, T25, T57, T52, T58, T62, T74, T86, and T105, from the CAES IAPP 2005 survey were chosen and renamed T1 - T10 respectively. These transects do not represent the overall conditions of Candlewood Lake as the frequency of native species will be over-estimated. We ranked abundance of each species, at each transect point, on a scale of 1–5 (1 = rare, a single stem; 2 = uncommon, few stems; 3 = common; 4 = abundant; 5 = extremely abundant or dominant). Depth was measured at each transect point.

Purpose To document and assess the native and invasive aquatic plant community in Lakes Candlewood Lillinonah and Zoar during 2014. This data will also be available to compare with future aquatic plant survey data.

Access

Constraints This data is public access data and can be freely distributed. The Connecticut Agricultural Experiment Station Invasive Aquatic Plant Program (CAES IAPP) should be clearly cited as the author in any published works. The State of Connecticut shall not be held liable for improper or incorrect use of the data described and/or contained within this web site. These data and related graphics are not legal documents and are not intended to be used as such. The information contained in these data is dynamic and will change over time. The State of Connecticut gives no warranty, expressed or implied, as to the accuracy, reliability, or completeness of these data. It is the responsibility of the data user to use the data appropriately and consistent within these limitations. Although these data have been processed successfully on a computer system at the State of Connecticut, no warranty expressed or implied is made regarding the utility of the data on another system or for general or scientific purposes, nor shall the act of distribution constitute any such warranty. This disclaimer applies both to individual use of the data and aggregate use with other data.

Use

Constraints No restrictions or legal prerequisites for using the data. The data is suitable for use at appropriate scale, and is not intended for maps printed at scales greater or more detailed than 1:24,000 scale (1 inch = 2,000 feet). Although this data set has been used by the State of Connecticut, The Connecticut Agricultural Experiment Station, no warranty, expressed or implied, is made by the State of Connecticut, Connecticut Agricultural Experiment Station as to the accuracy of the data and or related materials. The act of distribution shall not constitute any such warranty, and no responsibility is assumed

by the State of Connecticut, Connecticut Agricultural Experiment Station in the use of these data or related materials. The user assumes the entire risk related to the use of these data. Once the data is distributed to the user, modifications made to the data by the user should be noted in the metadata. When printing this data on a map or using it in a software application, analysis, or report, please acknowledge the Connecticut Agricultural Experiment Station Invasive Aquatic Plant Program (CAES IAPP) as the source for this information.

Credit Gregory J. Bugbee and Jennifer Fanzutti, The Connecticut Agricultural Experiment Station Invasive Aquatic Plant Program (CAES IAPP)

Accuracy Report All aquatic plants noted in this feature were confirmed in the lab using a dichotomous key and, when possible, molecular techniques. Abundance determinations were made by the surveyor based on the abundance guidelines listed in the abstract of this metadata.

GPS Accuracy Positions were acquired by using a Trimble GeoXT® or a Trimble ProXT® with TerraSync 2.40 or 5.02 (WAAS enabled). Data was post-processed in the lab with Pathfinder Office 5.10 with data from local base stations. Therefore, the average accuracy of the data is less than 1m.

Process Position data was obtained in the field using a Trimble GeoXT® or a Trimble ProXT® with TerraSync 2.40 or 5.02 (WAAS enabled). Data was post-processed in the lab with Pathfinder Office 5.10 with data from local base stations and then imported into ESRI ArcMap 10.2.1 for display and analysis.

Metadata

Water Testing

Abstract Water data is taken by The Connecticut Agricultural Experiment Station Invasive Aquatic Plant Program (CAES IAPP) in order to document and analyze the water conditions of surveyed aquatic plants in Lakes Candlewood, Lillinonah and Zoar. Five sample locations were chosen in Candlewood Lake and three locations in Lakes Lillinonah and Zoar. At least one sample location is chosen in the deepest part of the lake and the other are spread out to account for diverse conditions. The depth (meters) and Secchi measurement (transparency; meters) are taken at each location, along with dissolved oxygen (mg/L) and temperature (°C) at 0.5 meters from the surface and one-meter intervals to the bottom. Water samples are also taken at the sample location at 0.5-meter from the surface and near the water-body bottom. Water samples are assessed in the lab for conductivity (µs/cm), pH, alkalinity (expressed as mg/L CaCO₃) and phosphorous (µg/L).

Purpose Water data was taken by The Connecticut Agricultural Experiment Station Invasive Aquatic Plant Program (CAES IAPP) in order to document and analyze the water conditions in Lakes Candlewood, Lillinonah and Zoar and correlate with surveyed aquatic plants.

Access

Constraints This data is public access data and can be freely distributed. The Connecticut Agricultural Experiment Station Invasive Aquatic Plant Program (CAES IAPP) should be clearly cited as the author in any published works. The State of Connecticut shall not be held liable for improper or incorrect use of the data described and/or contained within this web site. These data and related graphics are not legal documents and are not for use as such. The information contained in these data is dynamic and will change over time. The State of Connecticut gives no warranty, expressed or implied, as to the accuracy, reliability, or completeness of these data. It is the responsibility of the data user to use the data appropriately and consistent within these limitations. Although these data have been processed successfully on a computer system used by the State of Connecticut, no warranty expressed or implied is made regarding the utility of the data on another system or for general or scientific purposes, nor shall the act of distribution constitute any such warranty. This disclaimer applies both to individual use of the data and aggregate use with other data.

Use

Constraints No restrictions or legal prerequisites for using the data. The data is suitable for use at appropriate scale, and is not intended for maps printed at scales greater or more detailed than 1:24,000 scale (1 inch = 2,000 feet). Although this data set has been used by the State of Connecticut, The Connecticut Agricultural Experiment Station, no warranty, expressed or implied, is made by the State of Connecticut, Connecticut Agricultural Experiment Station as to the accuracy of the data and or related materials. The act of distribution shall not constitute any such warranty, and no responsibility is assumed by the State of Connecticut, Connecticut Agricultural Experiment Station in the use of these data or related materials. The user assumes the entire risk related to the use of these data. Once the data is distributed to the user, modifications made to the data by the user should be noted in the metadata. When printing this data on a map or using it

in a software application, analysis, or report, please acknowledge the Connecticut Agricultural Experiment Station Invasive Aquatic Plant Program (CAES IAPP) as the source for this information.

Credit Gregory J. Bugbee and Jennifer Fanzutti, The Connecticut Agricultural Experiment Station Invasive Aquatic Plant Program (CAES IAPP)

Accuracy Report Secchi measurements were taken in the field with a Secchi disk with measurement markers (meters), using the same method each time. Dissolved oxygen and temperature were taken in the field with a YSI 58 meter (YSI Incorporated, Yellow Springs, Ohio, USA) that was calibrated every time it was used. Water samples were stored at 3° C until analyzed for pH, alkalinity, conductivity and total phosphorus. Conductivity and pH were measured with a Fisher-Accumet AR20 meter (Fisher Scientific International Incorporated, Hampton, New Hampshire, USA), which was calibrated each time it was used. Alkalinity was quantified by titration and expressed as milligrams of CaCO₃ per liter (titrant was 0.08 mol/L H₂SO₄ with an end point of pH 4.5). The total phosphorus analysis was conducted on samples that were acidified with three drops of concentrated H₂SO₄, and consisted of the ascorbic acid method and potassium persulfate digestion outlined by the American Public Health Association (Standard Methods of the Examination of Water and Waste Water, 1995).

GPS Accuracy Positions were acquired by using a Trimble GeoXT® or a Trimble ProXT® with TerraSync 2.40 or 5.02 (WAAS enabled). Data was post-processed in the lab with Pathfinder Office 5.10 with data from local base stations. Therefore, the average accuracy of the data is less than 1m.

Process Description Position data was obtained in the field using a Trimble GeoXT® or a Trimble ProXT® with TerraSync 2.40 or 5.02 (WAAS enabled). Data was post-processed in the lab with Pathfinder Office 5.10 with data from local base stations and then imported into ESRI ArcMap 10.2.1 for display and analysis.

Invasive Aquatic Plant Location Data

Appendix Lake Candlewood Invasive Plant Location Data (1 of 19)

Invasive Plant										
FID	Name	Notes	Type	Date	Time	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
1	MyrSpi		Patch	8/24/2014	02:02:55pm	41.56146	-73.48637	1-4	4	0.34127
2	MyrSpi		Patch	8/24/2014	02:13:06pm	41.56385	-73.48742	1-4	4	3.84799
3	MyrSpi		Patch	8/27/2014	10:32:48am	41.56455	-73.48844	1-3	5	0.27772
4	MyrSpi		Patch	8/27/2014	10:45:31am	41.56561	-73.48952	0-2	3	0.20449
5	MyrSpi		Patch	9/18/2014	08:26:35am	41.56337	-73.48755	0-1	2	0.34926
6	MyrSpi	1-4.6 m	Patch	7/30/2014	10:17:08am	41.45310	-73.43684	1-5	4	6.91908
7	MyrSpi	With <i>Najas minor</i>	Patch	7/30/2014	10:48:22am	41.45249	-73.43708	0-1	2	0.15414
8	MyrSpi		Patch	7/30/2014	10:57:03am	41.45511	-73.44083	1-3	3	0.02175
9	MyrSpi		Patch	7/30/2014	10:58:20am	41.45563	-73.44068	2-4	4	0.09390
10	MyrSpi		Patch	7/30/2014	11:02:16am	41.45684	-73.44138	2-4	4	0.06727
11	MyrSpi	1-4.6 m	Patch	7/30/2014	11:05:59am	41.45884	-73.44388	1-5	4	1.13507
12	MyrSpi		Patch	7/30/2014	11:15:34am	41.45801	-73.44502	1-4	4	0.01119
13	MyrSpi		Patch	7/30/2014	12:04:32pm	41.45715	-73.44474	1-4	4	0.17352
14	MyrSpi		Patch	7/30/2014	12:14:47pm	41.45444	-73.44423	1-4	4	0.61697
15	MyrSpi		Patch	7/30/2014	12:22:36pm	41.45271	-73.44467	1-4	3	0.10134
16	MyrSpi		Patch	7/30/2014	12:26:08pm	41.45109	-73.44549	1-4	3	0.52622
17	MyrSpi		Patch	7/30/2014	12:33:01pm	41.44830	-73.44719	1-4	3	0.52046
18	MyrSpi		Patch	7/30/2014	12:40:04pm	41.44601	-73.44841	1-4	4	4.48640
20	MyrSpi	With <i>Najas minor</i>	Patch	7/30/2014	01:02:26pm	41.44533	-73.44825	0-1	2	0.15036
21	MyrSpi		Patch	7/30/2014	01:07:34pm	41.44593	-73.45113	2-4	4	0.44750
22	MyrSpi		Patch	7/30/2014	01:12:43pm	41.44479	-73.45091	2-4	3	0.03385
23	MyrSpi		Patch	7/30/2014	01:14:07pm	41.44400	-73.45117	2-4	2	0.08867
24	MyrSpi		Patch	7/30/2014	01:15:57pm	41.44330	-73.45147	2-4	3	0.03173
25	MyrSpi		Patch	7/30/2014	01:18:03pm	41.44247	-73.45172	1-4	3	0.33562
26	MyrSpi		Patch	7/30/2014	01:30:38pm	41.44196	-73.45305	2-4	3	0.02761
27	MyrSpi		Patch	7/30/2014	01:32:20pm	41.43951	-73.45336	1-4	4	4.01689
28	MyrSpi	With <i>Najas minor</i>	Patch	7/30/2014	01:54:10pm	41.43890	-73.45318	0-1	2	0.08853
29	MyrSpi		Patch	7/30/2014	02:10:19pm	41.43680	-73.45450	1-4	2	0.05888
30	MyrSpi		Patch	7/30/2014	02:12:58pm	41.43583	-73.45437	1-4	2	0.02290
31	MyrSpi		Patch	7/30/2014	02:15:06pm	41.43532	-73.45446	2-4	4	0.76485
32	MyrSpi	With <i>Najas minor</i>	Patch	7/30/2014	02:26:14pm	41.42708	-73.45212	1-4	4	27.33491
33	MyrSpi		Patch	8/1/2014	09:19:20am	41.44823	-73.45096	2-4	4	0.13532
34	MyrSpi		Patch	8/1/2014	09:25:34am	41.44972	-73.45190	1-4	3	0.95632
35	MyrSpi		Patch	8/1/2014	09:45:43am	41.42794	-73.45533	1-4	4	17.40549
36	MyrSpi	With <i>Najas minor</i>	Patch	8/1/2014	10:10:38am	41.42413	-73.45437	1-4	4	2.88615
37	MyrSpi		Patch	8/1/2014	10:31:47am	41.42549	-73.45576	1-4	3	0.87767

Appendix Lake Candlewood Invasive Plant Location Data (2 of 19)

FID	Invasive Plant		Type	Date	Time	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
	Name	Notes								
38	MyrSpi		Patch	8/1/2014	10:39:12am	41.42607	-73.45691	1-4	3	0.09538
39	MyrSpi		Patch	8/1/2014	10:42:16am	41.42640	-73.45735	0-2	2	0.02029
40	MyrSpi		Patch	8/1/2014	10:51:07am	41.43059	-73.46016	1-4	3	0.04485
41	MyrSpi		Patch	8/1/2014	10:52:39am	41.43132	-73.46019	1-4	4	0.20318
42	MyrSpi		Patch	8/1/2014	10:56:02am	41.43230	-73.45995	1-4	2	0.04321
43	MyrSpi		Patch	8/1/2014	10:57:33am	41.43284	-73.45972	1-4	3	0.24955
44	MyrSpi		Patch	8/1/2014	11:01:14am	41.43386	-73.45938	1-4	2	0.04207
45	MyrSpi		Patch	8/1/2014	11:02:12am	41.43442	-73.45917	2-4	3	0.07408
46	MyrSpi	<i>Najas minor</i> in cove 0-1 m	Patch	8/1/2014	11:08:03am	41.43950	-73.45837	1-4	4	1.21787
47	MyrSpi		Patch	8/1/2014	11:17:01am	41.44156	-73.45720	1-4	4	0.14627
48	MyrSpi		Patch	8/1/2014	11:21:59am	41.44342	-73.45586	1-4	3	0.02118
49	MyrSpi		Patch	8/1/2014	11:23:18am	41.44375	-73.45553	2-4	4	0.04416
50	MyrSpi		Patch	8/1/2014	11:24:58am	41.44443	-73.45525	2-4	4	0.10785
51	MyrSpi		Patch	8/1/2014	11:26:57am	41.44554	-73.45473	2-4	3	0.03867
52	MyrSpi		Patch	8/1/2014	11:28:46am	41.44582	-73.45458	2-4	2	0.01112
53	MyrSpi		Patch	8/1/2014	11:36:01am	41.45342	-73.45082	1-4	3	0.04494
54	MyrSpi		Patch	8/1/2014	11:37:04am	41.45427	-73.45066	2-4	4	0.36761
55	MyrSpi	<i>Najas minor</i> in cove 0-1 m	Patch	8/1/2014	11:42:24am	41.45709	-73.45315	1-4	4	3.19878
56	MyrSpi		Patch	8/1/2014	12:01:35pm	41.46387	-73.45809	1-4	4	0.52071
57	MyrSpi		Patch	8/1/2014	12:05:40pm	41.46449	-73.45833	1-4	4	0.20264
58	MyrSpi		Patch	8/1/2014	12:21:06pm	41.46573	-73.45816	1-4	4	0.06307
59	MyrSpi		Patch	8/1/2014	12:22:12pm	41.46585	-73.45873	1-4	2	0.10960
60	MyrSpi		Patch	8/1/2014	12:25:14pm	41.46454	-73.46038	1-4	2	0.93660
61	MyrSpi		Patch	8/1/2014	12:39:45pm	41.46429	-73.46230	1-4	3	0.07259
62	MyrSpi		Patch	8/1/2014	12:43:35pm	41.46570	-73.46082	1-3	3	0.07832
63	MyrSpi		Patch	8/8/2014	10:56:48am	41.46691	-73.45987	1-4	3	0.04884
64	MyrSpi		Patch	8/8/2014	10:59:13am	41.46795	-73.45835	1-4	3	0.48293
65	MyrSpi	<i>Najas minor</i> in cove 0-1 m	Patch	8/8/2014	11:06:40am	41.46931	-73.45684	1-4	4	5.85355
66	MyrSpi		Patch	8/8/2014	11:49:55am	41.46736	-73.45559	1-4	4	0.65544
67	MyrSpi		Patch	8/8/2014	12:00:29pm	41.46687	-73.45513	1-4	3	0.34040
68	MyrSpi		Patch	8/8/2014	12:02:44pm	41.46631	-73.45510	1-4	3	0.15613
69	MyrSpi		Patch	8/8/2014	12:05:55pm	41.46530	-73.45499	2-4	2	0.03654
70	MyrSpi		Patch	8/8/2014	12:10:05pm	41.46537	-73.45539	1-4	4	0.61981
71	MyrSpi		Patch	8/8/2014	12:15:36pm	41.46639	-73.45626	1-4	3	0.35515
72	MyrSpi	<i>Najas minor</i> in cove 0-1 m	Patch	8/8/2014	12:35:07pm	41.47559	-73.46139	1-4	4	0.12679
73	MyrSpi		Patch	8/8/2014	12:44:27pm	41.47583	-73.46101	1-4	4	0.03213

Appendix Lake Candlewood Invasive Plant Location Data (3 of 19)

Invasive Plant		Notes	Type	Date	Time	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
FID	Name									
74	MyrSpi		Patch	8/8/2014	12:47:10pm	41.47788	-73.48148	1-4	3	2.25142
75	MyrSpi	<i>Najas minor</i> in cove 0-1 m	Patch	8/8/2014	01:05:43pm	41.48350	-73.45998	1-4	4	8.00881
76	MyrSpi		Patch	8/8/2014	01:52:20pm	41.48326	-73.45787	1-4	3	0.09477
77	MyrSpi		Patch	8/8/2014	01:56:00pm	41.48090	-73.45751	1-4	4	0.42018
78	MyrSpi		Patch	8/8/2014	01:59:25pm	41.47964	-73.45734	1-4	4	0.30095
79	MyrSpi		Patch	8/8/2014	02:02:35pm	41.47913	-73.45653	1-4	4	0.68487
80	MyrSpi		Patch	8/8/2014	02:09:32pm	41.47678	-73.45505	1-4	4	1.24726
81	MyrSpi		Patch	8/8/2014	02:18:37pm	41.47487	-73.45336	1-4	4	0.09041
82	MyrSpi		Patch	8/12/2014	10:03:05am	41.47446	-73.45323	1-4	4	0.06992
83	MyrSpi		Patch	8/12/2014	10:07:47am	41.47343	-73.45301	2-4	3	0.01689
84	MyrSpi		Patch	8/12/2014	10:08:47am	41.47314	-73.45292	2-4	4	0.07310
85	MyrSpi		Patch	8/12/2014	10:10:46am	41.47220	-73.45243	2-4	3	0.01286
86	MyrSpi		Patch	8/12/2014	10:11:45am	41.47186	-73.45211	2-4	4	0.04973
87	MyrSpi		Patch	8/12/2014	10:13:45am	41.47078	-73.45128	1-4	4	1.46232
88	MyrSpi		Patch	8/12/2014	10:24:42am	41.46966	-73.45064	1-4	4	0.19713
89	MyrSpi		Patch	8/12/2014	10:27:50am	41.46784	-73.45009	1-4	4	1.23485
90	MyrSpi		Patch	8/12/2014	10:49:34am	41.46634	-73.45059	1-4	3	1.73878
91	MyrSpi		Patch	8/12/2014	10:59:55am	41.46577	-73.44908	1-4	3	0.14590
92	MyrSpi		Patch	8/12/2014	11:02:48am	41.46529	-73.44817	2-4	3	0.05554
93	MyrSpi		Patch	8/12/2014	11:05:07am	41.46504	-73.44758	2-4	3	0.03720
94	MyrSpi		Patch	8/12/2014	11:07:15am	41.46364	-73.44727	1-4	3	1.23432
95	MyrSpi		Patch	8/12/2014	11:22:33am	41.46168	-73.44576	2-4	3	2.13560
96	MyrSpi		Patch	8/12/2014	11:36:25am	41.46359	-73.44541	2-4	4	0.36457
97	MyrSpi		Patch	8/12/2014	11:41:34am	41.46513	-73.44588	2-4	3	0.10622
98	MyrSpi		Patch	8/12/2014	11:44:56am	41.46621	-73.44595	2-4	3	0.01374
99	MyrSpi		Patch	8/12/2014	11:46:37am	41.46852	-73.44755	2-4	3	1.03204
100	MyrSpi		Patch	8/12/2014	12:01:34pm	41.47069	-73.44988	2-4	3	0.21724
101	MyrSpi		Patch	8/12/2014	12:23:23pm	41.49153	-73.45469	2-4	4	1.01896
102	MyrSpi		Patch	8/12/2014	12:36:36pm	41.49264	-73.45679	2-4	4	0.15498
103	MyrSpi		Patch	8/12/2014	12:39:27pm	41.49260	-73.45770	1-4	4	0.61370
104	MyrSpi		Patch	8/12/2014	12:48:06pm	41.49144	-73.45847	2-4	4	0.13907
105	MyrSpi	<i>Najas minor</i> in cove 0-1 m	Patch	8/12/2014	12:54:12pm	41.48830	-73.46189	1-4	4	8.59078
106	MyrSpi		Patch	8/12/2014	01:38:55pm	41.48606	-73.45984	0-2	5	0.67614
107	PotCri		Patch	8/12/2014	01:44:09pm	41.48710	-73.46096	1-3	2	0.01915
108	MyrSpi	<i>Najas minor</i> in cove 0-1 m	Patch	8/12/2014	01:54:59pm	41.50053	-73.46649	1-4	4	14.99388
111	MyrSpi		Patch	8/14/2014	11:03:04am	41.50795	-73.46619	1-4	3	0.11450

Appendix Lake Candlewood Invasive Plant Location Data (4 of 19)

Invasive Plant		Notes	Type	Date	Time	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
FID	Name									
112	MyrSpi		Patch	8/14/2014	11:06:08am	41.50689	-73.46499	1-4	2	0.59026
113	MyrSpi		Patch	8/14/2014	11:14:36am	41.50525	-73.46315	1-4	4	0.30012
114	MyrSpi		Patch	8/14/2014	11:23:03am	41.50406	-73.46208	2-4	3	0.05356
115	MyrSpi		Patch	8/14/2014	11:25:13am	41.50305	-73.46141	2-4	3	0.03772
116	MyrSpi		Patch	8/14/2014	11:26:46am	41.50244	-73.45993	1-4	4	2.48491
117	MyrSpi		Patch	8/14/2014	11:46:42am	41.50803	-73.46046	1-4	4	0.90054
118	MyrSpi		Patch	8/14/2014	12:04:23pm	41.51380	-73.46164	2-4	4	1.16511
119	MyrSpi	<i>Najas minor</i> in cove 0-1 m	Patch	8/14/2014	12:12:05pm	41.52207	-73.46386	1-4	4	26.26029
120	MyrSpi		Patch	8/14/2014	01:25:36pm	41.51459	-73.45940	2-4	4	0.26363
121	MyrSpi		Patch	8/14/2014	01:32:43pm	41.50823	-73.45909	2-4	4	1.87046
122	MyrSpi		Patch	8/14/2014	01:46:22pm	41.50112	-73.45450	2-4	4	0.81414
123	MyrSpi		Patch	8/14/2014	01:51:52pm	41.50438	-73.45327	1-4	4	19.99782
124	MyrSpi		Patch	8/14/2014	02:38:31pm	41.49736	-73.45385	2-4	3	0.77544
125	MyrSpi		Patch	8/14/2014	02:48:52pm	41.47694	-73.44956	2-4	4	1.47720
126	MyrSpi		Patch	8/14/2014	02:57:00pm	41.47633	-73.44831	2-4	3	0.16009
127	MyrSpi	<i>Najas minor</i> in cove 0-1 m	Patch	8/15/2014	10:09:45am	41.46658	-73.43109	1-4	4	46.53455
128	MyrSpi		Patch	8/15/2014	02:04:43pm	41.46030	-73.43565	2-4	3	0.12342
129	MyrSpi		Patch	8/15/2014	02:07:00pm	41.45948	-73.43550	2-4	3	0.11906
130	MyrSpi		Patch	8/15/2014	02:09:32pm	41.45883	-73.43530	2-4	4	0.01126
131	MyrSpi		Patch	8/15/2014	02:10:24pm	41.45842	-73.43503	2-4	3	0.03793
132	MyrSpi		Patch	8/15/2014	02:11:41pm	41.45558	-73.43414	1-4	4	6.05807
133	MyrSpi		Patch	8/15/2014	02:31:39pm	41.45217	-73.43194	2-4	3	0.04594
134	MyrSpi		Patch	8/15/2014	02:33:10pm	41.45058	-73.43133	1-4	4	0.97566
135	MyrSpi		Patch	8/16/2014	10:53:28am	41.46650	-73.44211	1-4	3	1.43840
136	MyrSpi		Patch	8/16/2014	11:04:42am	41.47164	-73.44520	1-4	3	1.80671
137	MyrSpi		Patch	8/16/2014	11:19:31am	41.47210	-73.44719	1-4	4	0.31753
138	MyrSpi		Patch	8/16/2014	11:23:02am	41.47311	-73.44804	1-4	4	0.32645
139	MyrSpi		Patch	8/16/2014	11:28:08am	41.47400	-73.44817	2-4	3	0.32451
140	MyrSpi		Patch	8/16/2014	11:31:28am	41.47458	-73.44721	2-4	2	0.09971
141	MyrSpi		Patch	8/16/2014	11:34:43am	41.47391	-73.44639	2-4	2	0.00719
142	MyrSpi		Patch	8/16/2014	11:52:59am	41.52781	-73.44252	1-4	4	9.74041
143	MyrSpi		Patch	8/16/2014	12:30:05pm	41.52495	-73.43794	2-4	4	0.41680
144	MyrSpi		Patch	8/16/2014	12:35:52pm	41.52372	-73.43734	2-4	3	0.04456
145	MyrSpi		Patch	8/16/2014	12:38:48pm	41.52212	-73.43766	1-4	4	1.12445
146	MyrSpi		Patch	8/16/2014	12:48:46pm	41.52279	-73.43801	1-4	5	0.04109
147	MyrSpi		Patch	8/16/2014	12:50:17pm	41.52403	-73.43838	2-4	4	0.13340

Appendix Lake Candlewood Invasive Plant Location Data (5 of 19)

Invasive Plant		Notes	Type	Date	Time	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
FID	Name									
148	MyrSpi		Patch	8/16/2014	12:57:01pm	41.52211	-73.44610	2-4	4	0.57733
149	MyrSpi		Patch	8/16/2014	01:00:56pm	41.52228	-73.44666	1-4	5	0.54984
150	MyrSpi		Patch	8/16/2014	01:07:28pm	41.52076	-73.44643	2-4	4	0.05608
151	MyrSpi		Patch	8/16/2014	01:09:25pm	41.52027	-73.44602	2-4	2	0.03172
152	MyrSpi		Patch	8/16/2014	01:12:05pm	41.51825	-73.44548	2-4	3	0.07754
153	MyrSpi		Patch	8/16/2014	01:18:57pm	41.51184	-73.44488	2-4	4	0.19473
154	MyrSpi		Patch	8/16/2014	01:23:26pm	41.51059	-73.44539	2-4	4	0.10080
155	MyrSpi		Patch	8/16/2014	01:25:43pm	41.50943	-73.44584	2-4	4	0.06864
156	MyrSpi		Patch	8/16/2014	01:28:37pm	41.50797	-73.44573	2-4	4	0.06055
157	MyrSpi		Patch	8/16/2014	01:29:39pm	41.50712	-73.44529	2-4	4	0.04108
158	MyrSpi		Patch	8/16/2014	01:31:53pm	41.50447	-73.44501	1-4	4	0.79172
159	MyrSpi		Patch	8/16/2014	01:39:09pm	41.50324	-73.44558	2-4	4	0.01458
160	MyrSpi		Patch	8/16/2014	01:40:52pm	41.50184	-73.44499	2-4	4	0.19185
161	MyrSpi		Patch	8/16/2014	01:45:23pm	41.49951	-73.44528	2-4	4	0.02936
162	MyrSpi	<i>lajas minor</i> in the north part of patch 0-1	Patch	8/16/2014	01:48:35pm	41.49664	-73.44627	1-4	4	2.53835
163	MyrSpi		Patch	8/16/2014	02:05:33pm	41.49876	-73.44946	1-4	4	0.16308
164	MyrSpi		Patch	8/16/2014	02:27:19pm	41.53390	-73.46226	1-4	4	4.16886
165	MyrSpi		Patch	8/16/2014	02:49:53pm	41.53759	-73.46233	1-4	4	1.13473
166	MyrSpi		Patch	8/16/2014	02:55:15pm	41.53955	-73.46355	2-4	4	0.34274
167	MyrSpi		Patch	8/16/2014	02:58:07pm	41.54058	-73.46475	2-4	3	0.12304
168	MyrSpi		Patch	8/16/2014	03:00:03pm	41.54065	-73.46656	2-4	2	0.64112
169	MyrSpi		Patch	8/16/2014	03:04:54pm	41.53864	-73.46705	2-4	4	0.19190
170	MyrSpi		Patch	8/16/2014	03:06:44pm	41.53751	-73.46689	2-4	3	0.20712
171	MyrSpi		Patch	8/16/2014	03:11:46pm	41.53658	-73.46680	2-4	3	0.13181
172	MyrSpi		Patch	8/16/2014	03:13:37pm	41.53546	-73.46563	1-4	4	0.75615
173	MyrSpi		Patch	8/16/2014	03:16:58pm	41.53439	-73.46534	2-4	3	0.12905
174	MyrSpi		Patch	8/19/2014	09:39:19am	41.47566	-73.44421	1-4	4	1.10650
175	MyrSpi	<i>Najas minor</i> north and south of beach	Patch	8/19/2014	10:01:39am	41.48019	-73.44369	1-4	4	4.62909
176	MyrSpi		Patch	8/19/2014	10:27:13am	41.48554	-73.44220	1-4	4	1.95593
177	MyrSpi	<i>Najas minor</i> in coves 0-2 m	Patch	8/19/2014	10:36:44am	41.48232	-73.43539	1-4	4	19.28148
178	MyrSpi		Patch	8/19/2014	12:17:24pm	41.49050	-73.43778	1-4	4	0.55730
179	MyrSpi		Patch	8/19/2014	12:24:10pm	41.49409	-73.44114	1-4	4	1.67449
180	MyrSpi		Patch	8/19/2014	12:37:24pm	41.49792	-73.44240	1-4	4	0.84970
181	MyrSpi		Patch	8/19/2014	12:41:27pm	41.49977	-73.44264	1-4	4	0.08124
182	MyrSpi		Patch	8/19/2014	12:43:37pm	41.50071	-73.44273	2-4	3	0.08701
183	MyrSpi		Patch	8/19/2014	12:46:45pm	41.50331	-73.44262	1-4	4	0.15059

Appendix Lake Candlewood Invasive Plant Location Data (6 of 19)

FID	Invasive Plant		Type	Date	Time	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
	Name	Notes								
184	MyrSpi	<i>Najas minor</i> in cove 0-1 m	Patch	8/19/2014	12:49:25pm	41.50467	-73.44154	1-4	4	8.56973
185	MyrSpi		Patch	8/19/2014	01:21:19pm	41.50426	-73.43766	2-4	4	0.13179
186	MyrSpi		Patch	8/19/2014	01:22:56pm	41.50580	-73.43807	2-4	4	0.03402
187	MyrSpi		Patch	8/19/2014	01:24:46pm	41.50658	-73.43830	1-4	4	0.28634
188	MyrSpi		Patch	8/19/2014	01:27:52pm	41.50741	-73.43864	2-4	3	0.02716
189	MyrSpi		Patch	8/19/2014	01:29:42pm	41.50807	-73.43876	2-4	2	0.03087
190	MyrSpi		Patch	8/19/2014	01:30:35pm	41.50844	-73.43878	2-4	4	0.10896
191	MyrSpi		Patch	8/19/2014	01:33:45pm	41.51011	-73.43896	1-4	4	0.24008
192	MyrSpi	<i>Najas minor</i> in cove 0-1 m	Patch	8/19/2014	01:38:03pm	41.51384	-73.44073	1-4	4	3.68113
193	MyrSpi		Patch	8/19/2014	02:07:05pm	41.51746	-73.43912	1-4	4	1.90663
194	MyrSpi	<i>Najas minor</i> in cove 0-1 m	Patch	8/19/2014	02:18:37pm	41.51963	-73.43600	1-4	4	3.02867
196	MyrSpi		Patch	8/19/2014	02:54:26pm	41.52220	-73.43611	1-4	4	0.01563
197	MyrSpi	<i>Najas minor</i> in cove 0-1 m	Patch	8/19/2014	02:55:42pm	41.52277	-73.43618	1-4	4	0.02238
198	MyrSpi		Patch	8/19/2014	02:58:37pm	41.52370	-73.43647	2-4	3	0.00673
199	MyrSpi		Patch	8/19/2014	03:02:29pm	41.52766	-73.43712	1-4	2	0.05399
200	MyrSpi		Patch	8/19/2014	03:06:12pm	41.52679	-73.43784	1-4	2	0.01923
201	MyrSpi		Patch	8/19/2014	03:08:44pm	41.52630	-73.43784	2-4	3	0.01911
202	MyrSpi		Patch	8/19/2014	03:10:06pm	41.52864	-73.43848	1-4	4	3.25105
203	MyrSpi	<i>Najas minor</i> north of beach	Patch	8/20/2014	10:43:25am	41.57041	-73.44301	1-4	4	2.79959
204	MyrSpi		Patch	8/20/2014	10:57:19am	41.57246	-73.44410	1-4	5	0.88597
205	MyrSpi		Patch	8/20/2014	11:08:10am	41.56927	-73.44578	1-4	3	0.02376
206	MyrSpi		Patch	8/20/2014	11:09:09am	41.56847	-73.44551	0-2	4	0.43120
207	MyrSpi	<i>Najas minor</i> in cove 0-1 m	Patch	8/20/2014	11:14:15am	41.56279	-73.44445	1-4	5	6.03322
208	MyrSpi		Patch	8/20/2014	11:34:24am	41.55862	-73.44362	1-4	4	0.07727
209	MyrSpi		Patch	8/20/2014	11:37:06am	41.55715	-73.44380	1-4	4	0.35443
210	MyrSpi	<i>Najas minor</i> North and South 0-1 m	Patch	8/20/2014	11:41:44am	41.55446	-73.44487	1-4	4	0.83402
211	MyrSpi		Patch	8/20/2014	11:50:54am	41.54755	-73.44700	1-4	4	5.12244
212	MyrSpi		Patch	8/20/2014	12:24:28pm	41.54111	-73.44707	2-4	3	0.01181
213	MyrSpi		Patch	8/20/2014	12:25:45pm	41.54024	-73.44677	2-4	3	0.07458
214	MyrSpi		Patch	8/20/2014	12:28:38pm	41.53820	-73.44692	1-4	4	0.19618
215	MyrSpi		Patch	8/20/2014	12:34:54pm	41.53456	-73.44758	1-4	4	0.31183
216	MyrSpi		Patch	8/20/2014	12:39:50pm	41.53287	-73.44824	1-4	4	0.31671
217	MyrSpi		Patch	8/20/2014	12:43:47pm	41.53193	-73.44814	1-4	4	0.18447
218	MyrSpi		Patch	8/20/2014	12:47:47pm	41.53135	-73.44824	1-4	4	0.09607
219	MyrSpi		Patch	8/20/2014	12:48:55pm	41.52953	-73.44730	1-4	4	0.67809
220	MyrSpi		Patch	8/20/2014	12:55:43pm	41.52731	-73.44638	2-4	3	0.15209

Appendix Lake Candlewood Invasive Plant Location Data (7 of 19)

Invasive Plant										
FID	Name	Notes	Type	Date	Time	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
221	MyrSpi		Patch	8/20/2014	12:57:52pm	41.52612	-73.44806	2-4	4	0.09589
222	MyrSpi		Patch	8/20/2014	01:00:11pm	41.52424	-73.44598	1-4	5	0.95598
223	MyrSpi		Patch	8/20/2014	01:10:33pm	41.53419	-73.43886	1-4	4	1.27477
224	MyrSpi		Patch	8/20/2014	01:23:47pm	41.53676	-73.44142	1-4	4	1.03866
225	MyrSpi		Patch	8/20/2014	01:34:22pm	41.53921	-73.44301	2-4	4	0.01310
226	MyrSpi		Patch	8/20/2014	01:36:27pm	41.54043	-73.44329	1-4	4	0.12643
227	MyrSpi	<i>Najas minor</i> in cove 0-1 m	Patch	8/20/2014	01:40:07pm	41.54283	-73.44354	1-4	4	1.45644
228	MyrSpi		Patch	8/20/2014	01:48:30pm	41.54542	-73.44271	1-4	4	1.80086
229	MyrSpi		Patch	8/20/2014	01:55:25pm	41.54833	-73.44305	1-4	4	0.16075
230	MyrSpi		Patch	8/20/2014	01:58:23pm	41.54929	-73.44356	1-4	4	0.03643
231	MyrSpi		Patch	8/20/2014	01:59:55pm	41.55106	-73.44401	1-4	4	0.53830
232	MyrSpi	<i>Najas minor</i> in cove 0-1 m	Patch	8/20/2014	02:05:25pm	41.55209	-73.44192	1-4	4	2.50538
233	MyrSpi		Patch	8/20/2014	02:23:17pm	41.55314	-73.43961	2-4	4	0.06230
234	MyrSpi		Patch	8/20/2014	02:25:01pm	41.55387	-73.43976	1-4	4	0.12900
235	MyrSpi		Patch	8/20/2014	02:28:18pm	41.55595	-73.43962	2-4	3	0.13813
236	MyrSpi		Patch	8/20/2014	02:30:56pm	41.55684	-73.43962	2-4	3	0.01293
237	MyrSpi	<i>Najas minor</i> 0-1 m far north	Patch	8/20/2014	02:33:22pm	41.56266	-73.44067	1-4	5	4.50637
238	MyrSpi	<i>Najas minor</i> 0-1 m	Patch	8/20/2014	02:45:01pm	41.56713	-73.44221	1-4	5	0.88700
240	MyrSpi		Patch	8/22/2014	10:33:47am	41.56831	-73.48867	1-4	5	0.06452
241	MyrSpi		Patch	8/22/2014	10:34:57am	41.56764	-73.48845	1-4	4	0.21358
242	MyrSpi	<i>Najas minor</i> in cove 0-1 m	Patch	8/22/2014	10:37:56am	41.56624	-73.48807	1-4	4	0.76394
243	MyrSpi	<i>Najas minor</i> in cove 0-1 m	Patch	8/22/2014	10:45:32am	41.56666	-73.48693	1-4	4	1.41228
245	MyrSpi		Patch	8/22/2014	11:36:20am	41.56802	-73.48062	1-4	5	0.27484
246	MyrSpi		Patch	8/22/2014	11:40:29am	41.56539	-73.47975	1-4	4	0.06630
247	MyrSpi		Patch	8/22/2014	11:43:22am	41.56358	-73.47836	1-4	4	0.01978
248	MyrSpi		Patch	8/22/2014	11:44:37am	41.56284	-73.47758	2-4	4	0.01058
249	MyrSpi		Patch	8/22/2014	11:45:16am	41.56270	-73.47739	1-4	3	0.01619
250	MyrSpi		Patch	8/22/2014	11:46:30am	41.56181	-73.47614	1-4	4	0.51887
251	MyrSpi		Patch	8/22/2014	11:51:16am	41.55883	-73.47488	1-4	4	1.81170
252	MyrSpi		Patch	8/22/2014	12:02:12pm	41.56027	-73.47613	2-4	4	0.99419
253	MyrSpi		Patch	8/22/2014	12:10:34pm	41.55533	-73.47342	1-4	4	1.26370
254	MyrSpi		Patch	8/22/2014	12:18:42pm	41.55449	-73.47209	2-4	3	0.03022
255	MyrSpi	<i>Najas minor</i> in cove 0-1 m	Patch	8/22/2014	12:20:07pm	41.55397	-73.46931	1-4	4	1.96477
256	MyrSpi		Patch	8/22/2014	12:42:35pm	41.55312	-73.46674	2-4	4	0.02909
257	MyrSpi		Patch	8/22/2014	12:43:54pm	41.55220	-73.46618	2-4	3	0.09387
258	MyrSpi		Patch	8/22/2014	12:46:18pm	41.55120	-73.46562	2-4	4	0.09724

Appendix Lake Candlewood Invasive Plant Location Data (8 of 19)

Invasive Plant										
FID	Name	Notes	Type	Date	Time	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
259	MyrSpi		Patch	8/22/2014	12:48:51pm	41.55050	-73.46512	2-4	3	0.03250
260	MyrSpi		Patch	8/22/2014	12:50:00pm	41.54739	-73.46390	1-4	4	1.49294
261	MyrSpi		Patch	8/22/2014	01:07:09pm	41.53341	-73.46553	2-4	4	1.92025
262	MyrSpi		Patch	8/22/2014	01:28:19pm	41.54288	-73.46642	2-4	4	1.11345
263	MyrSpi		Patch	8/22/2014	01:32:27pm	41.54375	-73.46648	2-4	4	0.06942
264	MyrSpi		Patch	8/22/2014	01:35:22pm	41.54451	-73.46730	2-4	3	0.01742
265	MyrSpi		Patch	8/22/2014	01:36:51pm	41.54710	-73.46958	1-4	4	1.24569
266	MyrSpi		Patch	8/22/2014	01:47:26pm	41.55131	-73.47175	2-4	4	0.95995
267	MyrSpi		Patch	8/22/2014	01:56:04pm	41.54972	-73.46845	1-4	4	2.63975
268	MyrSpi		Patch	8/22/2014	02:08:38pm	41.54688	-73.46640	1-4	4	0.32295
269	MyrSpi		Patch	8/22/2014	02:13:17pm	41.54459	-73.46604	2-4	4	0.32426
270	MyrSpi		Patch	8/22/2014	02:21:27pm	41.55867	-73.48135	1-4	4	4.86411
271	MyrSpi		Patch	8/22/2014	02:38:45pm	41.56113	-73.48490	1-4	4	0.28130
273	MyrSpi		Patch	8/22/2014	03:14:41pm	41.56381	-73.48460	2-4	4	0.43089
274	MyrSpi		Patch	8/22/2014	03:19:45pm	41.56380	-73.48317	2-4	4	1.15401
275	MyrSpi		Patch	8/22/2014	03:25:25pm	41.56272	-73.48342	2-4	4	0.54255
276	MyrSpi	<i>Najas minor</i> 0-1 m	Patch	8/22/2014	03:31:00pm	41.56676	-73.49000	1-4	4	0.25962
277	MyrSpi		Patch	8/22/2014	03:35:02pm	41.56745	-73.49015	0-2	4	0.01884
278	MyrSpi		Patch	8/25/2014	10:42:23am	41.52536	-73.45878	1-4	4	0.16110
279	MyrSpi		Patch	8/25/2014	10:44:44am	41.52892	-73.46190	1-4	4	3.82795
281	MyrSpi		Patch	8/25/2014	11:04:06am	41.53121	-73.46535	1-4	4	0.81314
283	MyrSpi		Patch	8/25/2014	11:10:25am	41.53195	-73.46603	1-3	3	0.02643
284	MyrSpi		Patch	8/25/2014	11:13:02am	41.53265	-73.46614	1-3	3	0.00902
285	MyrSpi		Patch	8/25/2014	11:13:57am	41.53305	-73.46633	1-4	4	0.07295
286	MyrSpi		Patch	8/25/2014	11:16:11am	41.53344	-73.46649	1-3	2	0.01692
287	MyrSpi		Patch	8/25/2014	11:17:29am	41.53521	-73.46747	1-4	3	0.63962
288	MyrSpi		Patch	8/25/2014	11:22:24am	41.53678	-73.46852	1-4	4	0.36025
289	MyrSpi		Patch	8/25/2014	11:25:59am	41.53828	-73.46999	1-4	4	1.58556
290	MyrSpi		Patch	8/25/2014	11:33:02am	41.54021	-73.47160	2-4	4	0.09164
291	MyrSpi		Patch	8/25/2014	11:35:08am	41.54079	-73.47183	2-4	3	0.12769
292	MyrSpi		Patch	8/25/2014	11:38:30am	41.54525	-73.47273	1-4	4	1.40261
293	MyrSpi		Patch	8/25/2014	11:47:55am	41.54813	-73.47437	1-4	4	0.69978
294	MyrSpi		Patch	8/25/2014	11:53:08am	41.54981	-73.47605	1-4	3	0.91748
295	MyrSpi	<i>Najas minor</i> in north part of cove 0-1 m	Patch	8/25/2014	11:58:01am	41.55188	-73.47854	1-4	4	1.51919
296	MyrSpi		Patch	8/25/2014	12:05:29pm	41.55317	-73.47999	2-4	2	0.06792
297	MyrSpi	<i>Najas minor</i> 0-1 m	Patch	8/25/2014	12:09:16pm	41.55814	-73.48367	1-4	4	3.75220

Appendix Lake Candlewood Invasive Plant Location Data (9 of 19)

Invasive Plant		Notes	Type	Date	Time	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
FID	Name									
298	MyrSpi	<i>Najas minor</i> 0-1 m	Patch	8/25/2014	12:42:20pm	41.55609	-73.47991	1-4	4	2.15158
299	MyrSpi		Patch	8/25/2014	01:00:08pm	41.54517	-73.46256	1-4	4	0.24498
300	MyrSpi		Patch	8/25/2014	01:04:16pm	41.54440	-73.46076	1-4	4	1.16956
302	MyrSpi		Patch	8/25/2014	01:19:27pm	41.54087	-73.45761	2-4	3	0.18221
303	MyrSpi		Patch	8/25/2014	01:22:22pm	41.53952	-73.45708	1-4	4	0.25690
304	MyrSpi		Patch	8/25/2014	01:25:59pm	41.53698	-73.45624	1-4	4	0.13766
305	MyrSpi		Patch	8/25/2014	01:27:29pm	41.53654	-73.45602	1-4	4	0.06594
306	MyrSpi		Patch	8/25/2014	01:29:14pm	41.53483	-73.45556	2-4	4	0.08010
307	MyrSpi		Patch	8/25/2014	01:30:46pm	41.53114	-73.45437	1-4	4	3.09329
308	MyrSpi		Patch	8/25/2014	01:45:18pm	41.52692	-73.45358	1-4	4	1.30789
309	MyrSpi	<i>Najas minor</i> in cove 0-1 m	Patch	8/25/2014	01:53:20pm	41.51834	-73.45263	1-4	4	5.06051
310	MyrSpi		Patch	8/25/2014	02:38:20pm	41.49343	-73.44545	2-4	2	0.84607
311	MyrSpi		Patch	9/11/2014	01:01:58pm	41.44837	-73.43038	1-4	4	4.54117
312	MyrSpi	<i>Najas minor</i> 0-1 m	Patch	9/11/2014	01:17:36pm	41.45080	-73.43267	0-2	4	0.02874
313	MyrSpi	<i>Najas minor</i> 0-1 m	Patch	9/11/2014	01:19:20pm	41.45060	-73.43255	0-2	3	0.01005
314	MyrSpi	<i>Najas minor</i> 0-1 m	Patch	9/11/2014	01:20:49pm	41.45030	-73.43233	0-2	3	0.08701
315	MyrSpi	<i>Najas minor</i> 0-1 m	Patch	9/11/2014	01:22:56pm	41.44994	-73.43206	0-1	1	0.00223
316	MyrSpi	<i>Najas minor</i> 0-1 m	Patch	9/11/2014	01:24:08pm	41.44973	-73.43192	0-1	4	0.00639
317	MyrSpi	<i>Najas minor</i> 0-1 m	Patch	9/11/2014	01:25:42pm	41.44927	-73.43159	0-1	4	0.13356
318	MyrSpi	<i>Najas minor</i> 0-1 m	Patch	9/11/2014	01:27:38pm	41.44780	-73.43047	0-1	5	0.63382
319	MyrSpi	<i>Najas minor</i> 0-1 m	Patch	9/11/2014	01:34:20pm	41.44802	-73.42971	0-1	5	0.59381
320	PotCri		Patch	9/11/2014	01:50:32pm	41.44765	-73.42943	0-1	4	0.00998
321	PotCri		Patch	6/17/2014	12:59:33pm	41.48628	-73.45957	0-3	3	0.19625
322	PotCri		Patch	6/17/2014	01:14:16pm	41.49945	-73.46896	1-3	1	0.03604
323	PotCri		Patch	6/17/2014	01:28:34pm	41.49863	-73.46877	1-3	4	0.07072
324	PotCri		Patch	6/18/2014	10:48:33am	41.55872	-73.48353	1-3	3	0.01391
325	PotCri		Patch	6/18/2014	10:58:19am	41.55863	-73.48403	1-3	3	0.10328
326	PotCri	With <i>Myriophyllum spicatum</i>	Patch	6/13/2014	12:37:22pm	41.42341	-73.45368	1-3	2	0.10180
327	PotCri	With <i>Myriophyllum spicatum</i>	Patch	6/13/2014	01:19:10pm	41.42700	-73.44998	1-4	3	3.38552
328	NajMin	With FID7 Plotted From Notes	Patch	7/30/2014	10:48:22am	41.45248	-73.43706	0-1	2	0.15983
329	NajMin	With FID20 Plotted From Notes	Patch	7/30/2014	01:02:26pm	41.44531	-73.44823	0-1	2	0.12817
331	NajMin	With FID28 Plotted From Notes	Patch	7/30/2014	01:54:10pm	41.43889	-73.45316	0-1	2	0.10309
332	NajMin	With FID46 Plotted From Notes	Patch	8/1/2014	11:08:03am	41.43913	-73.45894	0-1	2	0.07305
333	NajMin	With FID53 Plotted From Notes	Patch	8/1/2014	11:36:01am	41.45656	-73.45401	0-1	2	0.11364
334	MyrSpi	With FID53 Plotted From Notes	Patch	8/1/2014	11:36:01am	41.45653	-73.45396	0-1	5	0.03534
335	NajMin	With FID65 Plotted From Notes	Patch	8/8/2014	11:06:40am	41.46856	-73.45890	0-1	2	0.02708

Appendix Lake Candlewood Invasive Plant Location Data (10 of 19)

Invasive Plant										
FID	Name	Notes	Type	Date	Time	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
336	NajMin	With FID65 Plotted From Notes	Patch	8/8/2014	11:06:40am	41.46849	-73.45816	0-1	2	0.02037
337	NajMin	With FID65 Plotted From Notes	Patch	8/8/2014	11:06:40am	41.46864	-73.45768	0-1	2	0.03739
338	NajMin	With FID72 Plotted From Notes	Patch	8/8/2014	12:35:07pm	41.47571	-73.46160	0-1	2	0.01372
339	MyrSpi	With FID72 Plotted From Notes	Patch	8/8/2014	12:35:07pm	41.47569	-73.46163	0-1	4	0.00503
340	NajMin	With FID77 Plotted From Notes	Patch	8/8/2014	01:56:00pm	41.48525	-73.45912	0-1	4	0.02055
341	MyrSpi	With FID77 Plotted From Notes	Patch	8/8/2014	01:56:00pm	41.48534	-73.45950	0-1	3	0.04716
342	NajMin	With FID77 Plotted From Notes	Patch	8/8/2014	01:56:00pm	41.48489	-73.45891	0-1	2	0.08312
344	NajMin	With FID105 Plotted From Notes	Patch	8/8/2014	12:54:12pm	41.48611	-73.46015	0-1	2	0.36698
345	NajMin	With FID105 Plotted From Notes	Patch	8/8/2014	12:54:12pm	41.48598	-73.45918	0-1	2	0.12398
346	MyrSpi	With FID105 Plotted From Notes	Patch	8/8/2014	12:54:12pm	41.48569	-73.45932	0-1	2	0.17738
347	MyrSpi	With FID105 Plotted From Notes	Patch	8/8/2014	12:54:12pm	41.48614	-73.46016	0-1	2	0.27494
349	NajMin	With FID105 Plotted From Notes	Patch	8/8/2014	12:54:12pm	41.48789	-73.46354	0-1	2	0.03133
350	NajMin	With FID105 Plotted From Notes	Patch	8/8/2014	12:54:12pm	41.48745	-73.46332	0-1	2	0.01027
351	NajMin	With FID105 Plotted From Notes	Patch	8/8/2014	12:54:12pm	41.48736	-73.46309	0-1	2	0.02143
352	NajMin	With FID105 Plotted From Notes	Patch	8/8/2014	12:54:12pm	41.48731	-73.46256	0-1	2	0.01744
353	NajMin	With FID105 Plotted From Notes	Patch	8/8/2014	12:54:12pm	41.48721	-73.46184	0-1	2	0.03268
354	NajMin	With FID105 Plotted From Notes	Patch	8/8/2014	12:54:12pm	41.48715	-73.46145	0-1	2	0.00920
355	NajMin	With FID105 Plotted From Notes	Patch	8/8/2014	12:54:12pm	41.48714	-73.46115	0-1	2	0.00531
356	NajMin	With FID105 Plotted From Notes	Patch	8/8/2014	12:54:12pm	41.48705	-73.46094	0-1	2	0.02147
358	NajMin	With FID105 Plotted From Notes	Patch	8/8/2014	12:54:12pm	41.48693	-73.46049	0-1	2	0.09251
359	MyrSpi	With FID105 Plotted From Notes	Patch	8/8/2014	12:54:12pm	41.48702	-73.46069	0-1	2	0.01338
360	MyrSpi	With FID105 Plotted From Notes	Patch	8/8/2014	12:54:12pm	41.48686	-73.46037	0-1	2	0.01274
362	MyrSpi	With FID105 Plotted From Notes	Patch	8/8/2014	12:54:12pm	41.48716	-73.46134	0-1	2	0.02654
363	MyrSpi	With FID105 Plotted From Notes	Patch	8/8/2014	12:54:12pm	41.48722	-73.46174	0-1	2	0.02448
364	MyrSpi	With FID105 Plotted From Notes	Patch	8/8/2014	12:54:12pm	41.48736	-73.46227	0-1	2	0.00974
369	MyrSpi	With FID105 Plotted From Notes	Patch	8/8/2014	12:54:12pm	41.48726	-73.46271	0-1	2	0.00639
370	MyrSpi	With FID105 Plotted From Notes	Patch	8/8/2014	12:54:12pm	41.48727	-73.46285	0-1	2	0.00278
372	MyrSpi	With FID105 Plotted From Notes	Patch	8/8/2014	12:54:12pm	41.48731	-73.46300	0-1	2	0.00169
374	MyrSpi	With FID105 Plotted From Notes	Patch	8/8/2014	12:54:12pm	41.48742	-73.46314	0-1	2	0.00914
375	MyrSpi	With FID105 Plotted From Notes	Patch	8/8/2014	12:54:12pm	41.48745	-73.46327	0-1	2	0.00786
376	MyrSpi	With FID105 Plotted From Notes	Patch	8/8/2014	12:54:12pm	41.48756	-73.46336	0-1	2	0.00238
377	MyrSpi	With FID105 Plotted From Notes	Patch	8/8/2014	12:54:12pm	41.48761	-73.46346	0-1	2	0.00533
378	MyrSpi	With FID105 Plotted From Notes	Patch	8/8/2014	12:54:12pm	41.48786	-73.46365	0-1	2	0.00357
380	MyrSpi	With FID105 Plotted From Notes	Patch	8/8/2014	12:54:12pm	41.48806	-73.46380	0-1	2	0.02102
381	MyrSpi	With FID105 Plotted From Notes	Patch	8/8/2014	12:54:12pm	41.48833	-73.46409	0-1	2	0.01325
382	MyrSpi	With FID105 Plotted From Notes	Patch	8/8/2014	12:54:12pm	41.48860	-73.46429	0-1	2	0.00515

Appendix Lake Candlewood Invasive Plant Location Data (11 of 19)

Invasive Plant										
FID	Name	Notes	Type	Date	Time	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
384	MyrSpi	With FID105 Plotted From Notes	Patch	8/8/2014	12:54:12pm	41.48875	-73.46439	0-1	2	0.00403
385	MyrSpi	With FID105 Plotted From Notes	Patch	8/8/2014	12:54:12pm	41.48929	-73.46479	0-1	2	0.00806
386	NajMin	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.49812	-73.46918	0-1	2	0.06896
388	NajMin	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.49974	-73.46915	0-1	2	0.59130
389	NajMin	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.49968	-73.46844	0-1	2	0.02483
390	NajMin	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.49940	-73.46836	0-1	2	0.03223
391	NajMin	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.49826	-73.46813	0-1	2	0.41075
392	NajMin	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.49692	-73.46796	0-1	2	0.02911
393	NajMin	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.49667	-73.46789	0-1	2	0.01015
394	NajMin	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.49631	-73.46761	0-1	2	0.05810
395	NajMin	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.49579	-73.46625	0-1	2	0.00953
396	NajMin	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.49591	-73.46571	0-1	2	0.01060
397	NajMin	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.49596	-73.46526	0-1	2	0.00949
398	NajMin	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.49604	-73.46457	0-1	2	0.00983
399	NajMin	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.50897	-73.46945	0-1	2	0.01388
400	NajMin	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.50851	-73.46928	0-1	2	0.01045
401	MyrSpi	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.49820	-73.46921	0-1	2	0.02931
402	MyrSpi	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.49983	-73.46914	0-1	2	0.52874
403	MyrSpi	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.49970	-73.46844	0-1	2	0.01325
404	MyrSpi	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.49942	-73.46836	0-1	2	0.03421
405	MyrSpi	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.49832	-73.46814	0-1	2	0.41868
406	MyrSpi	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.49696	-73.46798	0-1	2	0.01205
407	MyrSpi	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.49628	-73.46756	0-1	2	0.02846
408	MyrSpi	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.49578	-73.46626	0-1	2	0.02315
409	MyrSpi	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.49580	-73.46593	0-1	2	0.02296
410	MyrSpi	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.49591	-73.46552	0-1	2	0.00387
411	MyrSpi	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.49588	-73.46549	0-1	2	0.01233
412	MyrSpi	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.49592	-73.46517	0-1	2	0.01051
413	MyrSpi	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.49601	-73.46457	0-1	2	0.01994
414	MyrSpi	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.49611	-73.46426	0-1	2	0.01115
415	MyrSpi	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.49691	-73.46337	0-1	2	0.35489
416	MyrSpi	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.49898	-73.46379	0-1	2	0.08386
417	MyrSpi	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.50053	-73.46418	0-1	2	0.06247
418	MyrSpi	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.50094	-73.46432	0-1	2	0.02280
419	MyrSpi	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.50202	-73.46473	0-1	2	0.02634
420	MyrSpi	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.50322	-73.46532	0-1	2	0.03063

Appendix Lake Candlewood Invasive Plant Location Data (12 of 19)

Invasive Plant		Notes	Type	Date	Time	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
FID	Name									
421	MyrSpi	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.50374	-73.46555	0-1	2	0.01248
422	MyrSpi	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.50425	-73.46579	0-1	2	0.02335
423	MyrSpi	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.50586	-73.46685	0-1	2	0.00903
424	MyrSpi	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.50561	-73.46665	0-1	2	0.00936
425	MyrSpi	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.50493	-73.46618	0-1	2	0.01566
426	MyrSpi	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.50687	-73.46775	0-1	2	0.02187
427	MyrSpi	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.50758	-73.46831	0-1	2	0.01722
428	MyrSpi	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.50800	-73.46863	0-1	2	0.01589
429	MyrSpi	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.50838	-73.46915	0-1	2	0.03707
430	MyrSpi	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.51032	-73.47084	0-1	2	0.03000
431	MyrSpi	With FID108 Plotted From Notes	Patch	8/12/2014	01:54:59pm	41.50992	-73.47051	0-1	2	0.05340
432	MyrSpi	Highly Variable Abundance	Patch	8/14/2014	10:44:03am	41.50990	-73.46889	1-4	3	0.82624
435	NajMin	With FID435 Plotted From Notes	Patch	8/14/2014	02:25:12pm	41.51075	-73.47005	0-1	2	0.08908
436	NajMin	With FID435 Plotted From Notes	Patch	8/14/2014	02:25:12pm	41.51013	-73.46898	0-1	2	0.06432
437	NajMin	With FID435 Plotted From Notes	Patch	8/14/2014	02:25:12pm	41.50976	-73.46851	0-1	2	0.02337
438	MyrSpi	With FID435 Plotted From Notes	Patch	8/14/2014	02:25:12pm	41.51091	-73.47032	0-1	2	0.01764
439	MyrSpi	With FID435 Plotted From Notes	Patch	8/14/2014	02:25:12pm	41.51061	-73.46981	0-1	2	0.01773
440	MyrSpi	With FID435 Plotted From Notes	Patch	8/14/2014	02:25:12pm	41.51036	-73.46939	0-1	2	0.02409
441	MyrSpi	With FID435 Plotted From Notes	Patch	8/14/2014	02:25:12pm	41.50965	-73.46846	0-1	2	0.00987
442	MyrSpi	With <i>Najas minor</i> 0-1m	Patch	8/14/2014	10:58:13am	41.50846	-73.46645	1-4	3	0.06324
446	MyrSpi	With FID442 Plotted From Notes	Patch	8/14/2014	10:58:13am	41.50855	-73.46636	0-1	3	0.01475
447	NajMin	With FID442 Plotted From Notes	Patch	8/14/2014	10:58:13am	41.50853	-73.46630	0-1	3	0.02026
448	NajMin	With FID119 Plotted From Notes	Patch	8/14/2014	12:12:05pm	41.52140	-73.46596	0-1	3	0.33178
450	NajMin	With FID119 Plotted From Notes	Patch	8/14/2014	12:12:05pm	41.52496	-73.46591	0-1	3	1.90012
451	NajMin	With FID119 Plotted From Notes	Patch	8/14/2014	12:12:05pm	41.52412	-73.46434	0-1	3	1.57614
452	NajMin	With FID119 Plotted From Notes	Patch	8/14/2014	12:12:05pm	41.52284	-73.46040	0-1	3	0.10242
453	NajMin	With FID127 Plotted From Notes	Patch	8/14/2014	10:09:45am	41.52174	-73.46386	0-1	3	0.02863
454	NajMin	With FID127 Plotted From Notes	Patch	8/15/2014	10:09:45am	41.47015	-73.44045	0-1	2	0.05421
455	NajMin	With FID127 Plotted From Notes	Patch	8/15/2014	10:09:45am	41.47381	-73.43835	0-1	2	0.28339
456	NajMin	With FID127 Plotted From Notes	Patch	8/15/2014	10:09:45am	41.47231	-73.43550	0-1	2	0.06232
457	NajMin	With FID127 Plotted From Notes	Patch	8/15/2014	10:09:45am	41.47215	-73.43374	0-1	2	0.06013
458	NajMin	With FID127 Plotted From Notes	Patch	8/15/2014	10:09:45am	41.46994	-73.43013	0-1	2	0.00973
459	NajMin	With FID127 Plotted From Notes	Patch	8/15/2014	10:09:45am	41.46842	-73.42507	0-1	2	0.08098
460	NajMin	With FID127 Plotted From Notes	Patch	8/15/2014	10:09:45am	41.46697	-73.42424	0-1	2	0.12347
461	NajMin	With FID127 Plotted From Notes	Patch	8/15/2014	10:09:45am	41.46451	-73.42408	0-1	2	0.07770
462	NajMin	With FID127 Plotted From Notes	Patch	8/15/2014	10:09:45am	41.46340	-73.42508	0-1	2	0.34679

Appendix Lake Candlewood Invasive Plant Location Data (13 of 19)

Invasive Plant		Notes	Type	Date	Time	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
FID	Name									
463	NajMin	With FID127 Plotted From Notes	Patch	8/15/2014	10:09:45am	41.45960	-73.42782	0-1	2	0.03713
464	NajMin	With FID127 Plotted From Notes	Patch	8/15/2014	10:09:45am	41.45935	-73.42815	0-1	2	0.08853
465	MyrSpi	With FID127 Plotted From Notes	Patch	8/15/2014	10:09:45am	41.47012	-73.44040	0-1	2	0.02386
466	MyrSpi	With FID127 Plotted From Notes	Patch	8/15/2014	10:09:45am	41.46828	-73.43487	0-1	2	0.01699
467	MyrSpi	With FID127 Plotted From Notes	Patch	8/15/2014	10:09:45am	41.47000	-73.43518	0-1	2	0.01853
468	MyrSpi	With FID127 Plotted From Notes	Patch	8/15/2014	10:09:45am	41.47212	-73.43672	0-1	2	0.01702
469	MyrSpi	With FID127 Plotted From Notes	Patch	8/15/2014	10:09:45am	41.47340	-73.43810	0-1	2	0.54140
471	MyrSpi	With FID127 Plotted From Notes	Patch	8/15/2014	10:09:45am	41.47231	-73.43546	0-1	2	0.31771
472	MyrSpi	With FID127 Plotted From Notes	Patch	8/15/2014	10:09:45am	41.47255	-73.43592	0-1	2	0.11584
473	MyrSpi	With FID127 Plotted From Notes	Patch	8/15/2014	10:09:45am	41.47211	-73.43484	0-1	2	0.06785
474	MyrSpi	With FID127 Plotted From Notes	Patch	8/15/2014	10:09:45am	41.47212	-73.43382	0-1	2	0.11663
475	MyrSpi	With FID127 Plotted From Notes	Patch	8/15/2014	10:09:45am	41.46909	-73.43068	0-1	2	0.05137
476	MyrSpi	With FID127 Plotted From Notes	Patch	8/15/2014	10:09:45am	41.46988	-73.42983	0-1	2	0.12824
477	MyrSpi	With FID127 Plotted From Notes	Patch	8/15/2014	10:09:45am	41.46869	-73.42674	0-1	2	0.19698
478	MyrSpi	With FID127 Plotted From Notes	Patch	8/15/2014	10:09:45am	41.46777	-73.42472	0-1	2	0.85047
479	MyrSpi	With FID127 Plotted From Notes	Patch	8/15/2014	10:09:45am	41.46455	-73.42409	0-1	2	0.08759
480	MyrSpi	With FID127 Plotted From Notes	Patch	8/15/2014	10:09:45am	41.46359	-73.42540	0-1	2	0.77972
481	MyrSpi	With FID127 Plotted From Notes	Patch	8/15/2014	10:09:45am	41.46278	-73.42765	0-1	2	0.10602
482	MyrSpi	With FID127 Plotted From Notes	Patch	8/15/2014	10:09:45am	41.45966	-73.42805	0-1	2	0.47128
483	MyrSpi	With FID127 Plotted From Notes	Patch	8/15/2014	10:09:45am	41.46201	-73.43295	0-1	2	0.07589
484	MyrSpi	With FID162 Plotted From Notes	Patch	8/16/2014	01:48:35pm	41.49712	-73.44668	0-1	2	0.34890
485	NajMin	With FID162 Plotted From Notes	Patch	8/16/2014	01:48:35pm	41.49721	-73.44680	0-1	2	0.20932
486	MyrSpi	With FID175 Plotted From Notes	Patch	8/19/2014	10:01:39am	41.47842	-73.44395	0-1	2	0.02248
487	MyrSpi	With FID175 Plotted From Notes	Patch	8/19/2014	10:01:39am	41.47911	-73.44315	0-1	2	0.03320
488	NajMin	With FID175 Plotted From Notes	Patch	8/19/2014	10:01:39am	41.47837	-73.44395	0-1	2	0.01909
489	NajMin	With FID175 Plotted From Notes	Patch	8/19/2014	10:01:39am	41.47890	-73.44313	0-1	2	0.03895
490	NajMin	With FID177 Plotted From Notes	Patch	8/19/2014	10:36:44am	41.48667	-73.43415	0-1	2	0.30393
491	NajMin	With FID177 Plotted From Notes	Patch	8/19/2014	10:36:44am	41.48374	-73.43524	0-1	2	0.05820
492	NajMin	With FID177 Plotted From Notes	Patch	8/19/2014	10:36:44am	41.48227	-73.43527	0-1	2	0.09062
493	NajMin	With FID177 Plotted From Notes	Patch	8/19/2014	10:36:44am	41.48061	-73.43480	0-1	2	0.36217
494	NajMin	With FID177 Plotted From Notes	Patch	8/19/2014	10:36:44am	41.47922	-73.43428	0-1	2	0.26143
495	NajMin	With FID177 Plotted From Notes	Patch	8/19/2014	10:36:44am	41.47762	-73.43345	0-1	2	0.60660
496	NajMin	With FID177 Plotted From Notes	Patch	8/19/2014	10:36:44am	41.47769	-73.43422	0-1	2	0.62230
497	NajMin	With FID177 Plotted From Notes	Patch	8/19/2014	10:36:44am	41.48051	-73.43581	0-1	2	0.79769
498	NajMin	With FID177 Plotted From Notes	Patch	8/19/2014	10:36:44am	41.48260	-73.43691	0-1	2	0.16453
499	MyrSpi	With FID177 Plotted From Notes	Patch	8/19/2014	10:36:44am	41.48667	-73.43417	0-1	2	0.27806

Appendix Lake Candlewood Invasive Plant Location Data (14 of 19)

Invasive Plant										
FID	Name	Notes	Type	Date	Time	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
500	MyrSpi	With FID177 Plotted From Notes	Patch	8/19/2014	10:36:44am	41.48241	-73.43531	0-1	2	0.20514
501	MyrSpi	With FID177 Plotted From Notes	Patch	8/19/2014	10:36:44am	41.48064	-73.43486	0-1	2	0.68687
502	MyrSpi	With FID177 Plotted From Notes	Patch	8/19/2014	10:36:44am	41.47914	-73.43426	0-1	2	0.32269
504	MyrSpi	With FID177 Plotted From Notes	Patch	8/19/2014	10:36:44am	41.47773	-73.43353	0-1	2	0.35171
505	MyrSpi	With FID177 Plotted From Notes	Patch	8/19/2014	10:36:44am	41.47730	-73.43390	0-1	2	0.84398
506	MyrSpi	With FID177 Plotted From Notes	Patch	8/19/2014	10:36:44am	41.48056	-73.43583	0-1	2	0.82983
507	MyrSpi	With FID177 Plotted From Notes	Patch	8/19/2014	10:36:44am	41.48265	-73.43693	0-1	2	0.17197
509	MyrSpi	With FID177 Plotted From Notes	Patch	8/19/2014	10:36:44am	41.48424	-73.43887	0-1	2	0.97586
510	NajMin	With FID32 Plotted From Notes	Patch	7/30/2014	02:26:14pm	41.42769	-73.44948	0-1	2	0.06646
512	NajMin	With FID32 Plotted From Notes	Patch	7/30/2014	02:26:14pm	41.42588	-73.44993	0-1	2	0.04919
513	NajMin	With FID32 Plotted From Notes	Patch	7/30/2014	02:26:14pm	41.42480	-73.45246	0-1	2	0.06967
514	NajMin	With FID32 Plotted From Notes	Patch	7/30/2014	02:26:14pm	41.42416	-73.45260	0-1	2	0.16983
515	NajMin	With FID32 Plotted From Notes	Patch	7/30/2014	02:26:14pm	41.42435	-73.45303	0-1	2	0.08861
516	MyrSpi	With FID32 Plotted From Notes	Patch	7/30/2014	02:26:14pm	41.42718	-73.44947	0-1	2	0.51523
517	MyrSpi	With FID32 Plotted From Notes	Patch	7/30/2014	02:26:14pm	41.42587	-73.45022	0-1	2	0.18261
518	MyrSpi	With FID32 Plotted From Notes	Patch	7/30/2014	02:26:14pm	41.42415	-73.45273	0-1	2	0.33664
519	NajMin	With FID36 Plotted From Notes	Patch	8/1/2014	10:10:38am	41.42318	-73.45354	0-1	2	0.05285
520	NajMin	With FID36 Plotted From Notes	Patch	8/1/2014	10:10:38am	41.42336	-73.45417	0-1	2	0.12305
521	NajMin	With FID36 Plotted From Notes	Patch	8/1/2014	10:10:38am	41.42452	-73.45516	0-1	2	0.15027
522	MyrSpi	With FID36 Plotted From Notes	Patch	8/1/2014	10:10:38am	41.42354	-73.45377	0-1	2	0.32686
523	MyrSpi	With FID36 Plotted From Notes	Patch	8/1/2014	10:10:38am	41.42453	-73.45516	0-1	2	0.15748
524	MyrSpi	With FID184 Plotted From Notes	Patch	8/19/2014	12:49:25pm	41.50285	-73.43866	0-1	2	0.47734
525	NajMin	With FID184 Plotted From Notes	Patch	8/19/2014	12:49:25pm	41.50270	-73.43884	0-1	2	0.19933
526	MyrSpi	With FID192 Plotted From Notes	Patch	8/19/2014	01:38:03pm	41.51376	-73.44002	0-1	2	0.26215
527	NajMin	With FID192 Plotted From Notes	Patch	8/19/2014	01:38:03pm	41.51384	-73.43970	0-1	2	0.07143
528	MyrSpi	With FID194 Plotted From Notes	Patch	8/19/2014	02:18:37pm	41.51885	-73.43592	0-1	3	0.25865
529	MyrSpi	With FID194 Plotted From Notes	Patch	8/19/2014	02:18:37pm	41.51879	-73.43730	0-1	3	0.07774
530	NajMin	With FID194 Plotted From Notes	Patch	8/19/2014	02:18:37pm	41.51854	-73.43716	0-1	2	0.03518
531	NajMin	With FID194 Plotted From Notes	Patch	8/19/2014	02:18:37pm	41.51842	-73.43678	0-1	2	0.01742
532	NajMin	With FID194 Plotted From Notes	Patch	8/19/2014	02:18:37pm	41.51920	-73.43510	0-1	2	0.01738
533	NajMin	With FID194 Plotted From Notes	Patch	8/19/2014	02:18:37pm	41.51870	-73.43605	0-1	2	0.06579
536	MyrSpi	With <i>Najas Minor</i> 0-1m	Patch	8/19/2014	02:51:25pm	41.52226	-73.43564	1-4	4	0.16339
537	MyrSpi	With FID536 Plotted From Notes	Patch	8/19/2014	02:51:25pm	41.52242	-73.43549	0-1	2	0.04402
538	NajMin	With FID536 Plotted From Notes	Patch	8/19/2014	02:51:25pm	41.52247	-73.43546	0-1	2	0.02577
539	NajMin	With FID197 Plotted From Notes	Patch	8/19/2014	02:55:42pm	41.52289	-73.43610	0-1	2	0.01489
540	MyrSpi	With FID197 Plotted From Notes	Patch	8/19/2014	02:55:42pm	41.52287	-73.43612	0-1	2	0.02189

Appendix Lake Candlewood Invasive Plant Location Data (15 of 19)

Invasive Plant										
FID	Name	Notes	Type	Date	Time	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
544	MyrSpi	With FID203 Plotted From Notes	Patch	8/20/2014	10:57:19am	41.57142	-73.44280	0-1	3	0.30704
545	NajMin	With FID203 Plotted From Notes	Patch	8/20/2014	10:57:19am	41.57141	-73.44278	0-2	3	0.46401
546	MyrSpi	With FID207 Plotted From Notes	Patch	8/20/2014	11:14:15am	41.56883	-73.44524	0-1	2	0.03796
547	MyrSpi	With FID207 Plotted From Notes	Patch	8/20/2014	11:14:15am	41.56531	-73.44506	0-1	2	0.03149
548	MyrSpi	With FID207 Plotted From Notes	Patch	8/20/2014	11:14:15am	41.56084	-73.44429	0-1	2	0.02602
549	MyrSpi	With FID207 Plotted From Notes	Patch	8/20/2014	11:14:15am	41.55995	-73.44418	0-1	2	0.00725
550	NajMin	With FID207 Plotted From Notes	Patch	8/20/2014	11:14:15am	41.56808	-73.44510	0-1	2	0.03033
551	NajMin	With FID207 Plotted From Notes	Patch	8/20/2014	11:14:15am	41.56530	-73.44510	0-1	2	0.03291
552	NajMin	With FID207 Plotted From Notes	Patch	8/20/2014	11:14:15am	41.56277	-73.44483	0-1	2	0.00690
553	NajMin	With FID207 Plotted From Notes	Patch	8/20/2014	11:14:15am	41.56241	-73.44470	0-1	2	0.00586
554	NajMin	With FID207 Plotted From Notes	Patch	8/20/2014	11:14:15am	41.56133	-73.44443	0-1	2	0.00495
555	NajMin	With FID207 Plotted From Notes	Patch	8/20/2014	11:14:15am	41.56074	-73.44421	0-1	2	0.01462
556	NajMin	With FID207 Plotted From Notes	Patch	8/20/2014	11:14:15am	41.55953	-73.44416	0-1	2	0.00561
557	MyrSpi	With FID210 Plotted From Notes	Patch	8/20/2014	11:41:44am	41.55562	-73.44476	0-1	2	0.06706
558	NajMin	With FID210 Plotted From Notes	Patch	8/20/2014	11:41:44am	41.55364	-73.44518	0-1	2	0.01161
559	MyrSpi	With FID211 Plotted From Notes	Patch	8/20/2014	11:50:54am	41.55029	-73.44603	0-1	2	0.29230
560	MyrSpi	With FID211 Plotted From Notes	Patch	8/20/2014	11:50:54am	41.54447	-73.44824	0-1	2	0.10202
561	MyrSpi	With FID222 Plotted From Notes	Patch	8/20/2014	01:00:11pm	41.52321	-73.44640	0-1	2	0.09971
562	NajMin	With FID223 Plotted From Notes	Patch	8/20/2014	01:10:33pm	41.53556	-73.43884	0-1	2	0.00742
563	NajMin	With FID223 Plotted From Notes	Patch	8/20/2014	01:10:33pm	41.53555	-73.43911	0-1	2	0.02646
564	MyrSpi	With FID223 Plotted From Notes	Patch	8/20/2014	01:10:33pm	41.53554	-73.43893	0-1	2	0.03183
565	MyrSpi	With FID223 Plotted From Notes	Patch	8/20/2014	01:10:33pm	41.53378	-73.43858	0-1	2	0.05107
566	MyrSpi	With FID223 Plotted From Notes	Patch	8/20/2014	01:10:33pm	41.53321	-73.43864	0-1	2	0.05330
567	MyrSpi	With FID227 Plotted From Notes	Patch	8/20/2014	01:40:07pm	41.54336	-73.44296	0-1	2	0.18532
570	NajMin	With FID227 Plotted From Notes	Patch	8/20/2014	01:40:07pm	41.54340	-73.44290	0-1	2	0.16880
571	MyrSpi	With FID232 Plotted From Notes	Patch	8/20/2014	01:55:10pm	41.55071	-73.44044	0-1	2	0.15577
572	NajMin	With FID232 Plotted From Notes	Patch	8/20/2014	01:55:10pm	41.55068	-73.44054	0-1	2	0.21061
573	MyrSpi	With FID237 Plotted From Notes	Patch	8/20/2014	02:33:22pm	41.56603	-73.44124	0-1	2	0.03918
576	NajMin	With FID237 Plotted From Notes	Patch	8/20/2014	02:33:22pm	41.56605	-73.44122	0-1	2	0.01682
577	MyrSpi	With FID238 Plotted From Notes	Patch	8/20/2014	02:45:01pm	41.56717	-73.44209	0-1	2	0.17588
578	NajMin	With FID238 Plotted From Notes	Patch	8/20/2014	02:45:01pm	41.56883	-73.44186	0-1	2	0.03897
581	MyrSpi	With FID239 Plotted From Notes	Patch	8/22/2014	02:45:01pm	41.57429	-73.49180	0-1	2	0.50627
583	MyrSpi	With FID239 Plotted From Notes	Patch	8/22/2014	02:45:01pm	41.57228	-73.49071	0-1	2	0.19475
584	MyrSpi	With FID239 Plotted From Notes	Patch	8/22/2014	02:45:01pm	41.57013	-73.48935	0-1	2	0.05732
585	MyrSpi	With FID239 Plotted From Notes	Patch	8/22/2014	02:45:01pm	41.57084	-73.48883	0-1	2	0.12455
586	MyrSpi	With FID239 Plotted From Notes	Patch	8/22/2014	02:45:01pm	41.56993	-73.48877	0-1	2	0.16444

Appendix Lake Candlewood Invasive Plant Location Data (16 of 19)

Invasive Plant										
FID	Name	Notes	Type	Date	Time	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
587	MyrSpi	With FID239 Plotted From Notes	Patch	8/22/2014	02:45:01pm	41.56992	-73.48873	0-1	1	0.06691
588	NajMin	With FID239 Plotted From Notes	Patch	8/22/2014	02:45:01pm	41.57088	-73.48881	0-1	1	0.07349
589	NajMin	With FID239 Plotted From Notes	Patch	8/22/2014	02:45:01pm	41.57016	-73.48934	0-1	2	0.04343
590	NajMin	With FID239 Plotted From Notes	Patch	8/22/2014	02:45:01pm	41.57242	-73.49075	0-1	2	0.16466
592	NajMin	With FID239 Plotted From Notes	Patch	8/22/2014	02:45:01pm	41.57469	-73.49212	0-1	2	1.17298
593	MyrSpi	With FID239 Plotted From Notes	Patch	8/22/2014	02:45:01pm	41.57493	-73.49254	0-1	2	0.18960
594	MyrSpi	With FID239 Plotted From Notes	Patch	8/22/2014	02:45:01pm	41.57381	-73.49200	0-1	2	0.06121
595	MyrSpi	With FID239 Plotted From Notes	Patch	8/22/2014	02:45:01pm	41.57296	-73.49173	0-1	2	0.11135
596	MyrSpi	With FID239 Plotted From Notes	Patch	8/22/2014	02:45:01pm	41.57216	-73.49190	0-1	2	0.04501
597	MyrSpi	With FID239 Plotted From Notes	Patch	8/22/2014	02:45:01pm	41.57065	-73.49187	0-1	2	0.25295
599	NajMin	With FID239 Plotted From Notes	Patch	8/22/2014	02:45:01pm	41.57544	-73.49269	0-1	2	0.36233
601	NajMin	With FID239 Plotted From Notes	Patch	8/22/2014	02:45:01pm	41.57360	-73.49192	0-1	2	0.09569
603	NajMin	With FID239 Plotted From Notes	Patch	8/22/2014	02:45:01pm	41.57213	-73.49192	0-1	2	0.03960
604	NajMin	With FID239 Plotted From Notes	Patch	8/22/2014	02:45:01pm	41.57134	-73.49219	0-1	2	0.06965
605	NajMin	With FID239 Plotted From Notes	Patch	8/22/2014	02:45:01pm	41.57070	-73.49179	0-1	2	0.01214
606	NajMin	With FID239 Plotted From Notes	Patch	8/22/2014	02:45:01pm	41.57084	-73.49185	0-1	2	0.00691
608	MyrSpi	With FID242 Plotted From Notes	Patch	8/22/2014	10:37:32am	41.56608	-73.48785	0-1	3	0.00953
609	MyrSpi	With FID242 Plotted From Notes	Patch	8/22/2014	10:37:32am	41.56678	-73.48810	0-1	3	0.00539
610	NajMin	With FID242 Plotted From Notes	Patch	8/22/2014	10:37:32am	41.56809	-73.48785	0-1	3	0.00646
612	NajMin	With FID243 Plotted From Notes	Patch	8/22/2014	10:45:32am	41.56726	-73.48887	0-1	2	0.19908
614	MyrSpi	With FID243 Plotted From Notes	Patch	8/22/2014	10:45:32am	41.56717	-73.48695	0-1	2	0.29113
620	MyrSpi		Patch	8/22/2014	10:45:32am	41.56774	-73.48334	1-4	4	3.38316
622	MyrSpi		Patch	8/22/2014	10:45:32am	41.56840	-73.48315	0-1	2	0.07315
623	MyrSpi		Patch	8/22/2014	10:45:32am	41.56829	-73.48238	0-1	3	0.20114
625	NajMin		Patch	8/22/2014	10:45:32am	41.56843	-73.48312	0-1	2	0.03145
626	NajMin	With FID253 Plotted From Notes	Patch	8/22/2014	12:10:34pm	41.56836	-73.48253	0-1	2	0.12391
628	MyrSpi	With FID253 Plotted From Notes	Patch	8/22/2014	12:10:34pm	41.55526	-73.47243	0-1	2	0.02430
629	MyrSpi	With FID255 Plotted From Notes	Patch	8/22/2014	12:00:07pm	41.55399	-73.46977	0-1	2	0.12185
630	NajMin	With FID255 Plotted From Notes	Patch	8/22/2014	12:00:07pm	41.55433	-73.48763	0-1	2	0.05025
631	NajMin	With FID255 Plotted From Notes	Patch	8/22/2014	12:00:07pm	41.55409	-73.46962	0-1	2	0.06052
632	MyrSpi	With FID276 Plotted From Notes	Patch	8/22/2014	03:31:00pm	41.56686	-73.49008	0-1	2	0.09555
633	NajMin	With FID276 Plotted From Notes	Patch	8/22/2014	03:31:00pm	41.56680	-73.49015	0-1	2	0.00741
634	NajMin	With FID276 Plotted From Notes	Patch	8/22/2014	03:31:00pm	41.56664	-73.49025	0-1	2	0.01230
636	MyrSpi	With FID282 Plotted From Notes	Patch	8/25/2014	11:00:30am	41.52939	-73.46375	0-1	2	0.00991
637	NajMin	With FID282 Plotted From Notes	Patch	8/25/2014	11:00:30am	41.52939	-73.46374	0-1	2	0.00850
638	MyrSpi	With FID285 Plotted From Notes	Patch	8/25/2014	11:13:57am	41.53293	-73.46633	0-1	2	0.00757

Appendix Lake Candlewood Invasive Plant Location Data (17 of 19)

Invasive Plant										
FID	Name	Notes	Type	Date	Time	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
639	MyrSpi	With FID295 Plotted From Notes	Patch	8/25/2014	11:58:01am	41.55229	-73.47971	0-1	2	0.10045
640	NajMin	With FID295 Plotted From Notes	Patch	8/25/2014	11:58:01am	41.55217	-73.47964	0-1	2	0.04610
641	MyrSpi	With FID297 Plotted From Notes	Patch	8/25/2014	12:09:16pm	41.55856	-73.48468	0-1	2	0.74661
642	NajMin	With FID297 Plotted From Notes	Patch	8/25/2014	12:09:16pm	41.55855	-73.48488	0-1	2	0.23558
644	NajMin	With FID297 Plotted From Notes	Patch	8/25/2014	12:09:16pm	41.55837	-73.48250	0-1	2	0.01990
645	MyrSpi	With FID298 Plotted From Notes	Patch	8/25/2014	12:42:20pm	41.55659	-73.48045	0-1	2	0.12610
646	NajMin	With FID298 Plotted From Notes	Patch	8/25/2014	12:42:20pm	41.55669	-73.48040	0-1	2	0.04350
649	MyrSpi		Patch	8/25/2014	01:14:19pm	41.54277	-73.45860	2-4	3	0.26800
651	MyrSpi	With FID307 Plotted From Notes	Patch	8/25/2014	01:30:46pm	41.53237	-73.45438	0-1	2	0.11363
652	MyrSpi	With FID309 Plotted From Notes	Patch	8/25/2014	01:53:20pm	41.51391	-73.45330	0-1	3	0.20375
653	NajMin	With FID309 Plotted From Notes	Patch	8/25/2014	01:53:20pm	41.51384	-73.45333	0-1	3	0.11772
654	NajMin	With FID312 Plotted From Notes	Patch	9/11/2014	01:17:36pm	41.45079	-73.43274	0-1	2	0.00783
655	NajMin	With FID313 Plotted From Notes	Patch	9/11/2014	01:19:20pm	41.45060	-73.43262	0-1	2	0.00618
656	NajMin	With FID314 Plotted From Notes	Patch	9/11/2014	01:20:49pm	41.45039	-73.43250	0-1	2	0.00847
657	NajMin	With FID315 Plotted From Notes	Patch	9/11/2014	1:22:56pm	41.44989	-73.43205	0-1	2	0.00330
661	NajMin	With FID316 Plotted From Notes	Patch	9/11/2014	1:24:08pm	41.44972	-73.43197	0-1	2	0.00244
662	NajMin	With FID317 Plotted From Notes	Patch	9/11/2014	01:25:42pm	41.44929	-73.43166	0-1	2	0.08454
664	NajMin	With FID318 Plotted From Notes	Patch	9/11/2014	01:27:38pm	41.44793	-73.43065	0-1	2	0.27310
665	NajMin	With FID319 Plotted From Notes	Patch	9/11/2014	01:34:20pm	41.44796	-73.42970	0-1	2	0.68002
667	MyrSpi	Highly Variable Abundance	Patch	8/22/2014	09:32:04am	41.57125	-73.49065	1-4	4	13.17417
668	MyrSpi	Highly Variable Abundance	Patch	8/22/2014	09:32:04am	41.57178	-73.49193	1-4	4	0.14685
671	MyrSpi		Patch	8/22/2014	09:32:04am	41.57143	-73.49165	1-4	5	1.98111
672	MyrSpi		Patch	8/22/2014	09:32:04am	41.57007	-73.48384	0-1	2	0.75579
673	MyrSpi		Patch	8/22/2014	09:32:04am	41.56796	-73.48408	0-1	2	1.15308
674	NajMin		Patch	8/22/2014	09:32:04am	41.57008	-73.48386	0-1	2	0.58149
676	NajMin		Patch	8/22/2014	09:32:04am	41.57017	-73.48455	0-1	2	0.00430
677	NajMin		Patch	8/22/2014	09:32:04am	41.56987	-73.48467	0-1	2	0.01891
678	NajMin		Patch	8/22/2014	09:32:04am	41.56919	-73.48460	0-1	2	0.18295
679	NajMin		Patch	8/22/2014	09:32:04am	41.56852	-73.48390	0-1	2	0.26276
680	MyrSpi		Patch	8/22/2014	09:32:04am	41.56965	-73.48415	1-4	5	2.81607
1	MyrSpi		point	7/30/2014	01:26:17pm	41.44244	-73.4526	2-3	2	0.00020
2	MyrSpi		point	7/30/2014	01:31:52pm	41.44173	-73.45293	1-3	2	0.00020
3	MyrSpi		point	7/30/2014	02:07:27pm	41.43699	-73.45454	2-3	2	0.00020
4	MyrSpi		point	7/30/2014	02:21:33pm	41.43354	-73.45397	1-3	2	0.00020
5	MyrSpi		point	8/1/2014	10:45:46am	41.42746	-73.45846	0-1	1	0.00020
6	MyrSpi		point	8/1/2014	10:46:53am	41.42804	-73.45897	0-2	2	0.00020

Appendix Lake Candlewood Invasive Plant Location Data (18 of 19)

Invasive Plant		Notes	Type	Date	Time	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
FID	Name									
7	MyrSpi		point	8/1/2014	11:00:08am	41.4337	-73.45946	1-3	2	0.00020
8	MyrSpi		point	8/1/2014	11:07:26am	41.43857	-73.45895	0-2	2	0.00020
9	MyrSpi		point	8/1/2014	11:19:50am	41.44216	-73.45696	2-3	2	0.00020
10	MyrSpi		point	8/1/2014	11:21:05am	41.44305	-73.45615	2-3	2	0.00020
11	MyrSpi		point	8/1/2014	11:26:27am	41.44512	-73.45493	2-3	2	0.00020
12	MyrSpi		point	8/1/2014	12:46:55pm	41.46691	-73.45991	1-3	2	0.00020
13	PotCri		point	8/8/2014	11:29:45am	41.46862	-73.45806	0-1	2	0.00020
14	MyrSpi		point	8/8/2014	12:26:59pm	41.46913	-73.45892	0-1	2	0.00020
15	MyrSpi		point	8/8/2014	12:33:56pm	41.47487	-73.46092	2-3	2	0.00020
16	MyrSpi		point	8/18/2014	02:48:06pm	41.53687	-73.46224	1-3	2	0.00020
17	MyrSpi		point	8/18/2014	02:48:29pm	41.53703	-73.46221	1-3	2	0.00020
18	MyrSpi		point	8/19/2014	09:56:45am	41.47689	-73.44428	0-1	2	0.00020
19	MyrSpi		point	8/19/2014	10:22:54am	41.48098	-73.4435	0-1	2	0.00020
20	MyrSpi		point	8/19/2014	03:05:18pm	41.52719	-73.43757	0-1	2	0.00020
21	MyrSpi		point	8/20/2014	11:05:25am	41.57099	-73.44566	1-3	2	0.00020
22	MyrSpi		point	8/20/2014	11:06:04am	41.57168	-73.44574	1-3	2	0.00020
23	MyrSpi		point	8/20/2014	12:33:36pm	41.53654	-73.4473	2-4	3	0.00020
24	MyrSpi		point	8/25/2014	12:08:14pm	41.55628	-73.48153	2-3	2	0.00020
25	MyrSpi		point	9/11/2014	01:51:55pm	41.44765	-73.4294	0-1	2	0.00020
26	PotCri		point	6/17/2014	12:46:03pm	41.48629	-73.45986	2-4	5	0.00020
31	PotCri		point	6/17/2014	12:55:28pm	41.48613	-73.45958	1-3	2	0.00020
32	PotCri		point	6/17/2014	01:10:59pm	41.49933	-73.46902	1-3	3	0.00020
33	PotCri		point	6/17/2014	01:11:17pm	41.49928	-73.46903	1-3	3	0.00020
34	PotCri		point	6/17/2014	01:15:38pm	41.49954	-73.46906	1-3	5	0.00020
35	PotCri		point	6/17/2014	01:16:17pm	41.49968	-73.46903	1-3	4	0.00020
36	PotCri		point	6/17/2014	01:23:26pm	41.49893	-73.46904	1-3	4	0.00020
37	PotCri		point	6/17/2014	01:24:10pm	41.49879	-73.46903	1-3	5	0.00020
38	PotCri		point	6/18/2014	10:46:21am	41.55829	-73.48273	1-3	3	0.00020
39	PotCri		point	6/18/2014	10:51:22am	41.55873	-73.48421	1-3	4	0.00020
40	PotCri		point	6/18/2014	10:51:56am	41.55858	-73.48417	1-3	3	0.00020
43	PotCri		point	6/12/2014	10:35:31am	41.44872	-73.43103	1-3	4	0.00020
44	PotCri		point	6/12/2014	10:36:30am	41.44859	-73.43107	1-3	3	0.00020
45	PotCri		point	6/12/2014	10:48:56am	41.44844	-73.43082	1-3	3	0.00020
46	PotCri		point	6/12/2014	10:49:37am	41.4484	-73.43083	1-3	4	0.00020
47	PotCri		point	6/12/2014	10:50:01am	41.44838	-73.43089	1-3	3	0.00020
48	PotCri		point	6/12/2014	12:20:37pm	41.47288	-73.43762	1-3	2	0.00020

Appendix Lake Candlewood Invasive Plant Location Data (19 of 19)

Invasive Plant		Notes	Type	Date	Time	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
FID	Name									
49	PotCri		point	6/12/2014	12:20:58pm	41.47291	-73.43763	1-3	3	0.00020
50	PotCri		point	6/12/2014	12:22:24pm	41.47293	-73.4377	1-3	3	0.00020
51	PotCri		point	6/12/2014	12:24:11pm	41.47276	-73.4375	1-3	1	0.00020
52	PotCri		point	6/12/2014	12:25:59pm	41.47264	-73.4374	1-3	1	0.00020
53	PotCri		point	6/12/2014	12:41:19pm	41.47291	-73.43754	1-3	3	0.00020
54	PotCri		point	6/12/2014	12:42:17pm	41.47284	-73.43752	1-3	4	0.00020
55	PotCri		point	6/12/2014	12:45:09pm	41.47295	-73.43742	1-3	2	0.00020
56	PotCri		point	6/13/2014	10:12:47am	41.48089	-73.43516	1-3	3	0.00020
59	PotCri		point	6/13/2014	12:27:39pm	41.42324	-73.45373	1-3	3	0.00020
61	PotCri		point	6/13/2014	12:47:04pm	41.42386	-73.45271	1-3	1	0.00020
62	PotCri		point	6/13/2014	12:51:14pm	41.42414	-73.45278	0-1	1	0.00020
63	PotCri		point	6/13/2014	12:57:51pm	41.42617	-73.44961	1-3	2	0.00020
69	PotCri		point	6/13/2014	01:06:05pm	41.42759	-73.4494	1-3	2	0.00020
70	PotCri		point	6/13/2014	01:07:14pm	41.42761	-73.44948	1-3	3	0.00020

Appendix Lake Candlewood Eurasian watermilfoil to surface locations (1 of 18)

FID	Surveyor	Invasive Plant Name	Type	Notes	Date	Time	Latitude	Longitude
1	Greg Bugbee	MyrSpi	Point		8/14/2014	10:08:28am	41.49815	-73.46902
2	Greg Bugbee	MyrSpi	Point		8/14/2014	10:08:53am	41.49803	-73.46898
3	Greg Bugbee	MyrSpi	Point		8/14/2014	10:09:29am	41.4985	-73.46891
4	Greg Bugbee	MyrSpi	Point		8/14/2014	10:09:36am	41.49864	-73.46896
5	Greg Bugbee	MyrSpi	Point		8/14/2014	10:09:42am	41.49877	-73.46902
6	Greg Bugbee	MyrSpi	Point		8/14/2014	10:09:48am	41.49889	-73.46905
7	Greg Bugbee	MyrSpi	Point		8/14/2014	10:09:53am	41.49901	-73.46907
8	Greg Bugbee	MyrSpi	Point		8/14/2014	10:10:00am	41.49913	-73.46909
9	Greg Bugbee	MyrSpi	Point		8/14/2014	10:10:05am	41.49923	-73.46911
10	Greg Bugbee	MyrSpi	Point		8/14/2014	10:10:11am	41.49936	-73.46913
11	Greg Bugbee	MyrSpi	Point		8/14/2014	10:10:21am	41.49953	-73.46914
12	Greg Bugbee	MyrSpi	Point		8/14/2014	10:10:27am	41.49964	-73.46916
13	Greg Bugbee	MyrSpi	Point		8/14/2014	10:10:35am	41.49979	-73.46917
14	Greg Bugbee	MyrSpi	Point		8/14/2014	10:10:50am	41.50004	-73.46922
15	Greg Bugbee	MyrSpi	Point		8/14/2014	10:10:55am	41.50011	-73.46928
16	Greg Bugbee	MyrSpi	Point		8/14/2014	10:10:58am	41.50019	-73.46932
17	Greg Bugbee	MyrSpi	Point		8/14/2014	10:11:06am	41.50032	-73.46934
18	Greg Bugbee	MyrSpi	Point		8/14/2014	10:11:11am	41.50042	-73.46933
19	Greg Bugbee	MyrSpi	Point		8/14/2014	10:11:17am	41.50053	-73.46929
20	Greg Bugbee	MyrSpi	Point		8/14/2014	10:11:23am	41.50055	-73.46918
21	Greg Bugbee	MyrSpi	Point		8/14/2014	10:13:26am	41.49977	-73.46857
22	Greg Bugbee	MyrSpi	Point		8/14/2014	10:14:16am	41.49916	-73.4684
23	Greg Bugbee	MyrSpi	Point		8/14/2014	10:15:46am	41.49796	-73.46816
24	Greg Bugbee	MyrSpi	Point		8/14/2014	10:16:36am	41.49745	-73.46817
25	Greg Bugbee	MyrSpi	Point		8/14/2014	10:17:09am	41.49727	-73.46818
26	Greg Bugbee	MyrSpi	Point		8/14/2014	01:06:19pm	41.51893	-73.4648
27	Greg Bugbee	MyrSpi	Point		8/14/2014	01:12:01pm	41.52184	-73.46391
28	Greg Bugbee	MyrSpi	Point		8/14/2014	01:18:19pm	41.52175	-73.46036
29	Greg Bugbee	MyrSpi	Point		8/14/2014	01:19:34pm	41.52235	-73.45956
30	Greg Bugbee	MyrSpi	Point		8/15/2014	01:25:35pm	41.47127	-73.43574
31	Greg Bugbee	MyrSpi	Point		8/15/2014	01:26:40pm	41.47141	-73.43586
32	Greg Bugbee	MyrSpi	Point		8/15/2014	01:26:46pm	41.47146	-73.43594
33	Greg Bugbee	MyrSpi	Point		8/15/2014	01:27:07pm	41.47167	-73.43613
34	Greg Bugbee	MyrSpi	Point		8/15/2014	01:28:54pm	41.47219	-73.43677
35	Greg Bugbee	MyrSpi	Point		8/15/2014	01:29:01pm	41.47228	-73.43689
36	Greg Bugbee	MyrSpi	Point		8/15/2014	01:29:05pm	41.47233	-73.43699
37	Greg Bugbee	MyrSpi	Point		8/15/2014	01:29:10pm	41.47241	-73.43709
38	Greg Bugbee	MyrSpi	Point		8/15/2014	01:29:32pm	41.47265	-73.43734
39	Greg Bugbee	MyrSpi	Point		8/15/2014	01:29:40pm	41.47275	-73.43746

Appendix Lake Candlewood Eurasian watermilfoil to surface locations (2 of 18)

FID	Surveyor	Invasive Plant		Notes	Date	Time	Latitude	Longitude
		Name	Type					
40	Greg Bugbee	MyrSpi	Point		8/15/2014	01:29:48pm	41.47284	-73.43762
41	Greg Bugbee	MyrSpi	Point		8/15/2014	01:29:54pm	41.47293	-73.43774
42	Greg Bugbee	MyrSpi	Point		8/15/2014	01:29:59pm	41.47299	-73.43782
43	Greg Bugbee	MyrSpi	Point		8/15/2014	01:30:10pm	41.47316	-73.43798
44	Greg Bugbee	MyrSpi	Point		8/15/2014	01:30:14pm	41.47322	-73.43804
45	Greg Bugbee	MyrSpi	Point		8/15/2014	01:30:19pm	41.47332	-73.43813
46	Greg Bugbee	MyrSpi	Point		8/15/2014	01:30:27pm	41.47343	-73.43823
47	Greg Bugbee	MyrSpi	Point		8/15/2014	01:30:33pm	41.47354	-73.4383
48	Greg Bugbee	MyrSpi	Point		8/15/2014	01:30:38pm	41.47368	-73.43834
49	Greg Bugbee	MyrSpi	Point		8/15/2014	01:31:05pm	41.47392	-73.43843
50	Greg Bugbee	MyrSpi	Point		8/15/2014	01:31:29pm	41.47376	-73.43824
51	Greg Bugbee	MyrSpi	Point		8/15/2014	01:31:37pm	41.47366	-73.43804
52	Greg Bugbee	MyrSpi	Point		8/15/2014	01:31:44pm	41.47356	-73.43791
53	Greg Bugbee	MyrSpi	Point		8/15/2014	01:31:50pm	41.47347	-73.43781
54	Greg Bugbee	MyrSpi	Point		8/15/2014	01:32:00pm	41.47335	-73.43763
55	Greg Bugbee	MyrSpi	Point		8/15/2014	01:32:13pm	41.47324	-73.43743
56	Greg Bugbee	MyrSpi	Point		8/15/2014	01:32:18pm	41.4732	-73.43736
57	Greg Bugbee	MyrSpi	Point		8/15/2014	01:32:24pm	41.47314	-73.43727
58	Greg Bugbee	MyrSpi	Point		8/15/2014	01:32:29pm	41.47311	-73.43719
59	Greg Bugbee	MyrSpi	Point		8/15/2014	01:32:42pm	41.47297	-73.4371
60	Greg Bugbee	MyrSpi	Point		8/15/2014	01:33:02pm	41.47283	-73.43674
61	Greg Bugbee	MyrSpi	Point		8/15/2014	01:33:24pm	41.47264	-73.43633
62	Greg Bugbee	MyrSpi	Point		8/15/2014	01:33:34pm	41.47259	-73.43619
63	Greg Bugbee	MyrSpi	Point		8/15/2014	01:33:52pm	41.47247	-73.43594
64	Greg Bugbee	MyrSpi	Point		8/15/2014	01:34:11pm	41.47233	-73.43566
65	Greg Bugbee	MyrSpi	Point		8/15/2014	01:34:25pm	41.47217	-73.43545
66	Greg Bugbee	MyrSpi	Point		8/15/2014	01:34:36pm	41.47206	-73.43523
67	Greg Bugbee	MyrSpi	Point		8/15/2014	01:34:49pm	41.47193	-73.43498
68	Greg Bugbee	MyrSpi	Point		8/15/2014	01:35:20pm	41.47179	-73.43425
69	Greg Bugbee	MyrSpi	Point		8/15/2014	01:35:28pm	41.47186	-73.43406
70	Greg Bugbee	MyrSpi	Point		8/15/2014	01:35:47pm	41.47202	-73.43365
71	Greg Bugbee	MyrSpi	Point		8/15/2014	01:35:57pm	41.47204	-73.43346
72	Greg Bugbee	MyrSpi	Point		8/15/2014	01:36:02pm	41.47202	-73.43335
73	Greg Bugbee	MyrSpi	Point		8/15/2014	01:36:13pm	41.47194	-73.43324
74	Greg Bugbee	MyrSpi	Point		8/15/2014	01:40:58pm	41.4698	-73.43008
75	Greg Bugbee	MyrSpi	Point		8/15/2014	01:47:32pm	41.46417	-73.42461

Appendix Lake Candlewood Eurasian watermilfoil to surface locations (3 of 18)

FID	Surveyor	Invasive Plant Name	Type	Notes	Date	Time	Latitude	Longitude
76	Greg Bugbee	MyrSpi	Point		8/15/2014	01:48:38pm	41.46405	-73.42483
77	Greg Bugbee	MyrSpi	Point		8/15/2014	01:48:46pm	41.46389	-73.42476
78	Greg Bugbee	MyrSpi	Point		8/15/2014	01:49:10pm	41.46353	-73.42496
79	Greg Bugbee	MyrSpi	Point		8/15/2014	01:49:18pm	41.46346	-73.42511
80	Greg Bugbee	MyrSpi	Point		8/15/2014	01:49:26pm	41.46344	-73.42528
81	Greg Bugbee	MyrSpi	Point		8/15/2014	01:49:37pm	41.46349	-73.42548
82	Greg Bugbee	MyrSpi	Point		8/15/2014	01:49:52pm	41.46362	-73.42572
83	Greg Bugbee	MyrSpi	Point		8/15/2014	01:50:00pm	41.46371	-73.42582
84	Greg Bugbee	MyrSpi	Point		8/15/2014	01:55:51pm	41.45944	-73.4279
85	Greg Bugbee	MyrSpi	Point		8/16/2014	12:21:39pm	41.52789	-73.4423
86	Greg Bugbee	MyrSpi	Point		8/16/2014	12:22:33pm	41.52807	-73.44269
87	Greg Bugbee	MyrSpi	Point		8/16/2014	12:22:42pm	41.52823	-73.44278
88	Greg Bugbee	MyrSpi	Point		8/16/2014	12:22:49pm	41.52834	-73.44283
89	Greg Bugbee	MyrSpi	Point		8/16/2014	12:22:55pm	41.52846	-73.44286
90	Greg Bugbee	MyrSpi	Point		8/16/2014	12:22:58pm	41.52852	-73.44287
91	Greg Bugbee	MyrSpi	Point		8/16/2014	12:23:07pm	41.52867	-73.44292
92	Greg Bugbee	MyrSpi	Point		8/16/2014	12:23:11pm	41.5288	-73.44295
93	Greg Bugbee	MyrSpi	Point		8/16/2014	12:23:33pm	41.52907	-73.44313
94	Greg Bugbee	MyrSpi	Point		8/16/2014	12:23:37pm	41.52914	-73.44316
95	Greg Bugbee	MyrSpi	Point		8/16/2014	12:23:49pm	41.52933	-73.44333
96	Greg Bugbee	MyrSpi	Point		8/16/2014	12:45:02pm	41.52251	-73.43754
97	Greg Bugbee	MyrSpi	Point		8/16/2014	12:45:08pm	41.52242	-73.4376
98	Greg Bugbee	MyrSpi	Point		8/16/2014	12:47:10pm	41.52279	-73.438
99	Greg Bugbee	MyrSpi	Point		8/16/2014	01:38:07pm	41.50436	-73.44512
100	Greg Bugbee	MyrSpi	Point		8/16/2014	01:38:32pm	41.50401	-73.4455
101	Greg Bugbee	MyrSpi	Point		8/16/2014	01:43:30pm	41.50174	-73.44503
102	Greg Bugbee	MyrSpi	Point		8/16/2014	02:00:54pm	41.49684	-73.44562
103	Greg Bugbee	MyrSpi	Point		8/16/2014	02:01:05pm	41.49667	-73.44581
104	Greg Bugbee	MyrSpi	Point		8/16/2014	02:01:31pm	41.49617	-73.4462
105	Greg Bugbee	MyrSpi	Point		8/16/2014	02:01:42pm	41.49625	-73.44634
106	Greg Bugbee	MyrSpi	Point		8/16/2014	02:02:01pm	41.49684	-73.44643
107	Greg Bugbee	MyrSpi	Point		8/16/2014	02:02:05pm	41.49672	-73.44647
108	Greg Bugbee	MyrSpi	Point		8/16/2014	02:02:09pm	41.4968	-73.4465
109	Greg Bugbee	MyrSpi	Point		8/16/2014	02:02:13pm	41.49688	-73.44655
110	Greg Bugbee	MyrSpi	Point		8/16/2014	02:02:26pm	41.49708	-73.44659
111	Greg Bugbee	MyrSpi	Point		8/16/2014	02:02:31pm	41.49715	-73.44661

Appendix Lake Candlewood Eurasian watermilfoil to surface locations (4 of 18)

FID	Surveyor	Invasive Plant Name	Type	Notes	Date	Time	Latitude	Longitude
112	Greg Bugbee	MyrSpi	Point		8/16/2014	02:02:41pm	41.49723	-73.44676
113	Greg Bugbee	MyrSpi	Point		8/16/2014	02:02:45pm	41.49724	-73.44685
114	Greg Bugbee	MyrSpi	Point		8/16/2014	02:02:49pm	41.49724	-73.44691
115	Greg Bugbee	MyrSpi	Point		8/16/2014	02:03:11pm	41.49729	-73.44731
116	Greg Bugbee	MyrSpi	Point		8/16/2014	02:03:18pm	41.4973	-73.44741
117	Greg Bugbee	MyrSpi	Point		8/16/2014	02:03:29pm	41.49732	-73.44756
118	Greg Bugbee	MyrSpi	Point		8/16/2014	02:45:51pm	41.53527	-73.46185
119	Greg Bugbee	MyrSpi	Point		8/16/2014	02:46:00pm	41.53535	-73.46201
120	Greg Bugbee	MyrSpi	Point		8/16/2014	02:46:10pm	41.53532	-73.46215
121	Greg Bugbee	MyrSpi	Point		8/16/2014	02:46:19pm	41.53523	-73.46221
122	Greg Bugbee	MyrSpi	Point		8/16/2014	02:46:23pm	41.53516	-73.46219
123	Greg Bugbee	MyrSpi	Point		8/16/2014	02:53:42pm	41.5373	-73.46224
124	Greg Bugbee	MyrSpi	Point		8/16/2014	02:53:48pm	41.53744	-73.46231
125	Greg Bugbee	MyrSpi	Point		8/16/2014	02:54:13pm	41.53815	-73.46252
126	Greg Bugbee	MyrSpi	Point		8/19/2014	11:43:52am	41.48314	-73.43718
127	Greg Bugbee	MyrSpi	Point		8/19/2014	11:45:03am	41.48288	-73.43697
128	Greg Bugbee	MyrSpi	Point		8/19/2014	11:45:08am	41.4828	-73.43692
129	Greg Bugbee	MyrSpi	Point		8/19/2014	11:45:35am	41.48254	-73.4367
130	Greg Bugbee	MyrSpi	Point		8/19/2014	11:46:57am	41.48235	-73.4366
131	Greg Bugbee	MyrSpi	Point		8/19/2014	11:47:30am	41.48219	-73.43644
132	Greg Bugbee	MyrSpi	Point		8/19/2014	11:47:35am	41.4821	-73.43643
133	Greg Bugbee	MyrSpi	Point		8/19/2014	11:47:40am	41.482	-73.43639
134	Greg Bugbee	MyrSpi	Point		8/19/2014	11:48:03am	41.48168	-73.43625
135	Greg Bugbee	MyrSpi	Point		8/19/2014	11:48:08am	41.48161	-73.43627
136	Greg Bugbee	MyrSpi	Point		8/19/2014	11:48:10am	41.48151	-73.43619
137	Greg Bugbee	MyrSpi	Point		8/19/2014	11:48:35am	41.48138	-73.43612
138	Greg Bugbee	MyrSpi	Point		8/19/2014	11:49:00am	41.48129	-73.43618
139	Greg Bugbee	MyrSpi	Point		8/19/2014	11:49:33am	41.48127	-73.43611
140	Greg Bugbee	MyrSpi	Point		8/19/2014	11:49:51am	41.48119	-73.43605
141	Greg Bugbee	MyrSpi	Point		8/19/2014	11:50:12am	41.48102	-73.4359
142	Greg Bugbee	MyrSpi	Point		8/19/2014	11:50:29am	41.48081	-73.43584
143	Greg Bugbee	MyrSpi	Point		8/19/2014	11:50:36am	41.48071	-73.43582
144	Greg Bugbee	MyrSpi	Point		8/19/2014	11:50:41am	41.48065	-73.4358
145	Greg Bugbee	MyrSpi	Point		8/19/2014	11:51:04am	41.48036	-73.43562
146	Greg Bugbee	MyrSpi	Point		8/19/2014	11:51:21am	41.48015	-73.43559
147	Greg Bugbee	MyrSpi	Point		8/19/2014	11:51:41am	41.48012	-73.43552

Appendix Lake Candlewood Eurasian watermilfoil to surface locations (5 of 18)

FID	Surveyor	Invasive Plant		Notes	Date	Time	Latitude	Longitude
		Name	Type					
148	Greg Bugbee	MyrSpi	Point		8/19/2014	11:52:00am	41.47979	-73.43541
149	Greg Bugbee	MyrSpi	Point		8/19/2014	11:52:23am	41.47971	-73.43527
150	Greg Bugbee	MyrSpi	Point		8/19/2014	11:52:26am	41.47964	-73.43523
151	Greg Bugbee	MyrSpi	Point		8/19/2014	11:52:31am	41.47956	-73.43517
152	Greg Bugbee	MyrSpi	Point		8/19/2014	11:52:34am	41.47949	-73.43513
153	Greg Bugbee	MyrSpi	Point		8/19/2014	11:52:38am	41.47942	-73.4351
154	Greg Bugbee	MyrSpi	Point		8/19/2014	11:52:42am	41.47932	-73.43505
155	Greg Bugbee	MyrSpi	Point		8/19/2014	11:52:56am	41.4791	-73.43493
156	Greg Bugbee	MyrSpi	Point		8/19/2014	11:53:01am	41.47903	-73.4349
157	Greg Bugbee	MyrSpi	Point		8/19/2014	11:53:07am	41.47893	-73.43486
158	Greg Bugbee	MyrSpi	Point		8/19/2014	11:53:11am	41.47888	-73.43484
159	Greg Bugbee	MyrSpi	Point		8/19/2014	11:53:16am	41.4788	-73.43479
160	Greg Bugbee	MyrSpi	Point		8/19/2014	11:53:25am	41.47868	-73.4347
161	Greg Bugbee	MyrSpi	Point		8/19/2014	11:53:29am	41.47861	-73.43466
162	Greg Bugbee	MyrSpi	Point		8/19/2014	11:53:39am	41.47848	-73.4346
163	Greg Bugbee	MyrSpi	Point		8/19/2014	11:53:44am	41.4784	-73.43458
164	Greg Bugbee	MyrSpi	Point		8/19/2014	11:53:53am	41.47827	-73.43457
165	Greg Bugbee	MyrSpi	Point		8/19/2014	11:53:57am	41.47821	-73.43456
166	Greg Bugbee	MyrSpi	Point		8/19/2014	11:54:49am	41.47752	-73.43406
167	Greg Bugbee	MyrSpi	Point		8/19/2014	11:54:54am	41.47742	-73.434
168	Greg Bugbee	MyrSpi	Point		8/19/2014	11:54:58am	41.47736	-73.43395
169	Greg Bugbee	MyrSpi	Point		8/19/2014	11:55:02am	41.4773	-73.4339
170	Greg Bugbee	MyrSpi	Point		8/19/2014	11:55:06am	41.47723	-73.43385
171	Greg Bugbee	MyrSpi	Point		8/19/2014	11:55:13am	41.47713	-73.43376
172	Greg Bugbee	MyrSpi	Point		8/19/2014	11:55:18am	41.47708	-73.43369
173	Greg Bugbee	MyrSpi	Point		8/19/2014	11:55:23am	41.47703	-73.43361
174	Greg Bugbee	MyrSpi	Point		8/19/2014	11:55:28am	41.47698	-73.43354
175	Greg Bugbee	MyrSpi	Point		8/19/2014	11:55:33am	41.47692	-73.43349
176	Greg Bugbee	MyrSpi	Point		8/19/2014	11:55:38am	41.47685	-73.43343
177	Greg Bugbee	MyrSpi	Point		8/19/2014	11:55:43am	41.47679	-73.43338
178	Greg Bugbee	MyrSpi	Point		8/19/2014	11:55:54am	41.47668	-73.43325
179	Greg Bugbee	MyrSpi	Point		8/19/2014	11:55:58am	41.47664	-73.43319
180	Greg Bugbee	MyrSpi	Point		8/19/2014	11:56:05am	41.47658	-73.4331
181	Greg Bugbee	MyrSpi	Point		8/19/2014	11:56:14am	41.4765	-73.43304
182	Greg Bugbee	MyrSpi	Point		8/19/2014	11:56:24am	41.47638	-73.433
183	Greg Bugbee	MyrSpi	Point		8/19/2014	11:56:48am	41.47627	-73.43343

Appendix Lake Candlewood Eurasian watermilfoil to surface locations (6 of 18)

FID	Surveyor	Invasive Plant		Notes	Date	Time	Latitude	Longitude
		Name	Type					
184	Greg Bugbee	MyrSpi	Point		8/19/2014	11:56:53am	41.4763	-73.4335
185	Greg Bugbee	MyrSpi	Point		8/19/2014	11:56:58am	41.47637	-73.43353
186	Greg Bugbee	MyrSpi	Point		8/19/2014	11:57:15am	41.47659	-73.43344
187	Greg Bugbee	MyrSpi	Point		8/19/2014	11:57:21am	41.4766	-73.43329
188	Greg Bugbee	MyrSpi	Point		8/19/2014	11:57:28am	41.47666	-73.43318
189	Greg Bugbee	MyrSpi	Point		8/19/2014	11:57:33am	41.47672	-73.4331
190	Greg Bugbee	MyrSpi	Point		8/19/2014	11:57:38am	41.47679	-73.43311
191	Greg Bugbee	MyrSpi	Point		8/19/2014	11:57:43am	41.47684	-73.43318
192	Greg Bugbee	MyrSpi	Point		8/19/2014	11:57:47am	41.47687	-73.43324
193	Greg Bugbee	MyrSpi	Point		8/19/2014	11:57:52am	41.47692	-73.43333
194	Greg Bugbee	MyrSpi	Point		8/19/2014	11:57:56am	41.47696	-73.4334
195	Greg Bugbee	MyrSpi	Point		8/19/2014	11:58:00am	41.47701	-73.43347
196	Greg Bugbee	MyrSpi	Point		8/19/2014	11:58:06am	41.47708	-73.43354
197	Greg Bugbee	MyrSpi	Point		8/19/2014	11:58:11am	41.47714	-73.43359
198	Greg Bugbee	MyrSpi	Point		8/19/2014	11:58:16am	41.47724	-73.43362
199	Greg Bugbee	MyrSpi	Point		8/19/2014	11:58:24am	41.47737	-73.43361
200	Greg Bugbee	MyrSpi	Point		8/19/2014	11:58:43am	41.47763	-73.43346
201	Greg Bugbee	MyrSpi	Point		8/19/2014	11:59:00am	41.47757	-73.4334
202	Greg Bugbee	MyrSpi	Point		8/19/2014	11:59:05am	41.4775	-73.43338
203	Greg Bugbee	MyrSpi	Point		8/19/2014	11:59:12am	41.47743	-73.43335
204	Greg Bugbee	MyrSpi	Point		8/19/2014	11:59:18am	41.47736	-73.43333
205	Greg Bugbee	MyrSpi	Point		8/19/2014	11:59:23am	41.4773	-73.43331
206	Greg Bugbee	MyrSpi	Point		8/19/2014	11:59:44am	41.47708	-73.43321
207	Greg Bugbee	MyrSpi	Point		8/19/2014	11:59:55am	41.47698	-73.43317
208	Greg Bugbee	MyrSpi	Point		8/19/2014	12:00:08pm	41.47698	-73.43324
209	Greg Bugbee	MyrSpi	Point		8/19/2014	12:00:15pm	41.47707	-73.43332
210	Greg Bugbee	MyrSpi	Point		8/19/2014	12:00:23pm	41.47718	-73.43338
211	Greg Bugbee	MyrSpi	Point		8/19/2014	12:00:29pm	41.47726	-73.43343
212	Greg Bugbee	MyrSpi	Point		8/19/2014	12:00:36pm	41.47734	-73.43351
213	Greg Bugbee	MyrSpi	Point		8/19/2014	12:00:41pm	41.47741	-73.43355
214	Greg Bugbee	MyrSpi	Point		8/19/2014	12:00:45pm	41.47748	-73.4336
215	Greg Bugbee	MyrSpi	Point		8/19/2014	12:01:07pm	41.47765	-73.43389
216	Greg Bugbee	MyrSpi	Point		8/19/2014	12:01:17pm	41.47777	-73.43388
217	Greg Bugbee	MyrSpi	Point		8/19/2014	12:02:05pm	41.4784	-73.43423
218	Greg Bugbee	MyrSpi	Point		8/19/2014	12:02:31pm	41.47855	-73.43395
219	Greg Bugbee	MyrSpi	Point		8/19/2014	12:03:14pm	41.4786	-73.43435

Appendix Lake Candlewood Eurasian watermilfoil to surface locations (7 of 18)

FID	Surveyor	Invasive Plant Name	Type	Notes	Date	Time	Latitude	Longitude
220	Greg Bugbee	MyrSpi	Point		8/19/2014	12:03:26pm	41.4787	-73.43426
221	Greg Bugbee	MyrSpi	Point		8/19/2014	12:03:30pm	41.47872	-73.43413
222	Greg Bugbee	MyrSpi	Point		8/19/2014	12:04:09pm	41.47877	-73.43442
223	Greg Bugbee	MyrSpi	Point		8/19/2014	12:04:14pm	41.47886	-73.43438
224	Greg Bugbee	MyrSpi	Point		8/19/2014	12:04:22pm	41.47896	-73.43433
225	Greg Bugbee	MyrSpi	Point		8/19/2014	12:04:26pm	41.47906	-73.43436
226	Greg Bugbee	MyrSpi	Point		8/19/2014	12:04:33pm	41.47915	-73.43446
227	Greg Bugbee	MyrSpi	Point		8/19/2014	12:04:41pm	41.47926	-73.43452
228	Greg Bugbee	MyrSpi	Point		8/19/2014	12:04:49pm	41.4794	-73.43445
229	Greg Bugbee	MyrSpi	Point		8/19/2014	12:04:54pm	41.47949	-73.43442
230	Greg Bugbee	MyrSpi	Point		8/19/2014	12:04:58pm	41.47958	-73.43443
231	Greg Bugbee	MyrSpi	Point		8/19/2014	12:05:03pm	41.47966	-73.43447
232	Greg Bugbee	MyrSpi	Point		8/19/2014	12:05:07pm	41.47972	-73.43454
233	Greg Bugbee	MyrSpi	Point		8/19/2014	12:05:18pm	41.47985	-73.43466
234	Greg Bugbee	MyrSpi	Point		8/19/2014	12:05:23pm	41.47992	-73.43463
235	Greg Bugbee	MyrSpi	Point		8/19/2014	12:05:27pm	41.47999	-73.43461
236	Greg Bugbee	MyrSpi	Point		8/19/2014	12:05:31pm	41.48008	-73.43461
237	Greg Bugbee	MyrSpi	Point		8/19/2014	12:05:36pm	41.48014	-73.43466
238	Greg Bugbee	MyrSpi	Point		8/19/2014	12:05:49pm	41.47998	-73.43468
239	Greg Bugbee	MyrSpi	Point		8/19/2014	12:06:29pm	41.47989	-73.43472
240	Greg Bugbee	MyrSpi	Point		8/19/2014	12:06:35pm	41.47995	-73.43478
241	Greg Bugbee	MyrSpi	Point		8/19/2014	12:06:39pm	41.48	-73.43481
242	Greg Bugbee	MyrSpi	Point		8/19/2014	12:06:43pm	41.48006	-73.43483
243	Greg Bugbee	MyrSpi	Point		8/19/2014	12:06:48pm	41.48012	-73.43484
244	Greg Bugbee	MyrSpi	Point		8/19/2014	12:06:51pm	41.48016	-73.43485
245	Greg Bugbee	MyrSpi	Point		8/19/2014	12:06:56pm	41.48022	-73.43485
246	Greg Bugbee	MyrSpi	Point		8/19/2014	12:07:01pm	41.4803	-73.43486
247	Greg Bugbee	MyrSpi	Point		8/19/2014	12:07:14pm	41.48041	-73.43489
248	Greg Bugbee	MyrSpi	Point		8/19/2014	12:07:31pm	41.48047	-73.43477
249	Greg Bugbee	MyrSpi	Point		8/19/2014	12:07:37pm	41.48042	-73.43474
250	Greg Bugbee	MyrSpi	Point		8/19/2014	12:07:40pm	41.48037	-73.43473
251	Greg Bugbee	MyrSpi	Point		8/19/2014	12:08:14pm	41.48064	-73.43504
252	Greg Bugbee	MyrSpi	Point		8/19/2014	12:08:19pm	41.48075	-73.43507
253	Greg Bugbee	MyrSpi	Point		8/19/2014	12:08:25pm	41.48085	-73.43511
254	Greg Bugbee	MyrSpi	Point		8/19/2014	12:08:37pm	41.48102	-73.43515
255	Greg Bugbee	MyrSpi	Point		8/19/2014	12:08:43pm	41.48104	-73.43506

Appendix Lake Candlewood Eurasian watermilfoil to surface locations (8 of 18)

FID	Surveyor	Invasive Plant		Notes	Date	Time	Latitude	Longitude
		Name	Type					
256	Greg Bugbee	MyrSpi	Point		8/19/2014	12:09:06pm	41.48109	-73.43527
257	Greg Bugbee	MyrSpi	Point		8/19/2014	12:09:10pm	41.48116	-73.43531
258	Greg Bugbee	MyrSpi	Point		8/19/2014	12:09:14pm	41.48122	-73.43535
259	Greg Bugbee	MyrSpi	Point		8/19/2014	12:09:19pm	41.48128	-73.43543
260	Greg Bugbee	MyrSpi	Point		8/19/2014	01:15:14pm	41.50524	-73.44219
261	Greg Bugbee	MyrSpi	Point		8/19/2014	01:15:29pm	41.50498	-73.44231
262	Greg Bugbee	MyrSpi	Point		8/19/2014	01:16:54pm	41.50386	-73.44069
263	Greg Bugbee	MyrSpi	Point		8/19/2014	01:17:08pm	41.50344	-73.44046
264	Greg Bugbee	MyrSpi	Point		8/19/2014	01:17:12pm	41.50338	-73.44038
265	Greg Bugbee	MyrSpi	Point		8/19/2014	01:17:37pm	41.50287	-73.43986
266	Greg Bugbee	MyrSpi	Point		8/19/2014	01:18:13pm	41.50284	-73.43993
267	Greg Bugbee	MyrSpi	Point		8/19/2014	01:18:18pm	41.50283	-73.43916
268	Greg Bugbee	MyrSpi	Point		8/19/2014	01:18:23pm	41.50282	-73.43901
269	Greg Bugbee	MyrSpi	Point		8/19/2014	01:18:28pm	41.5028	-73.43889
270	Greg Bugbee	MyrSpi	Point		8/19/2014	01:18:32pm	41.50278	-73.43879
271	Greg Bugbee	MyrSpi	Point		8/19/2014	01:18:37pm	41.50277	-73.43865
272	Greg Bugbee	MyrSpi	Point		8/19/2014	01:18:43pm	41.5028	-73.43851
273	Greg Bugbee	MyrSpi	Point		8/19/2014	01:18:48pm	41.50282	-73.43841
274	Greg Bugbee	MyrSpi	Point		8/19/2014	01:18:53pm	41.50286	-73.43863
275	Greg Bugbee	MyrSpi	Point		8/19/2014	01:18:56pm	41.5029	-73.43824
276	Greg Bugbee	MyrSpi	Point		8/19/2014	01:18:59pm	41.50294	-73.43818
277	Greg Bugbee	MyrSpi	Point		8/19/2014	01:19:05pm	41.50299	-73.43809
278	Greg Bugbee	MyrSpi	Point		8/19/2014	01:19:09pm	41.50304	-73.43804
279	Greg Bugbee	MyrSpi	Point		8/19/2014	01:19:14pm	41.50312	-73.438
280	Greg Bugbee	MyrSpi	Point		8/19/2014	01:19:20pm	41.50319	-73.43795
281	Greg Bugbee	MyrSpi	Point		8/19/2014	01:19:35pm	41.50337	-73.43787
282	Greg Bugbee	MyrSpi	Point		8/19/2014	01:19:40pm	41.50343	-73.43783
283	Greg Bugbee	MyrSpi	Point		8/19/2014	01:19:49pm	41.50356	-73.43778
284	Greg Bugbee	MyrSpi	Point		8/19/2014	01:19:54pm	41.50364	-73.43774
285	Greg Bugbee	MyrSpi	Point		8/19/2014	01:19:58pm	41.50372	-73.43771
286	Greg Bugbee	MyrSpi	Point		8/19/2014	01:20:20pm	41.50407	-73.43767
287	Greg Bugbee	MyrSpi	Point		8/19/2014	01:20:24pm	41.50414	-73.43766
288	Greg Bugbee	MyrSpi	Point		8/19/2014	01:20:29pm	41.50422	-73.43764
289	Greg Bugbee	MyrSpi	Point		8/19/2014	01:20:32pm	41.50428	-73.43763
290	Greg Bugbee	MyrSpi	Point		8/19/2014	01:20:46pm	41.50452	-73.43766
291	Greg Bugbee	MyrSpi	Point		8/19/2014	01:26:50pm	41.50636	-73.43814

Appendix Lake Candlewood Eurasian watermilfoil to surface locations (9 of 18)

FID	Surveyor	Invasive Plant		Notes	Date	Time	Latitude	Longitude
		Name	Type					
292	Greg Bugbee	MyrSpi	Point		8/19/2014	01:27:07pm	41.50667	-73.43824
293	Greg Bugbee	MyrSpi	Point		8/19/2014	01:27:12pm	41.50678	-73.43827
294	Greg Bugbee	MyrSpi	Point		8/19/2014	01:27:19pm	41.50688	-73.43831
295	Greg Bugbee	MyrSpi	Point		8/19/2014	01:36:45pm	41.5095	-73.43883
296	Greg Bugbee	MyrSpi	Point		8/19/2014	01:37:50pm	41.51066	-73.43899
297	Greg Bugbee	MyrSpi	Point		8/19/2014	02:01:37pm	41.51341	-73.43947
298	Greg Bugbee	MyrSpi	Point		8/19/2014	02:02:10pm	41.51364	-73.43983
299	Greg Bugbee	MyrSpi	Point		8/19/2014	02:02:14pm	41.51367	-73.43995
300	Greg Bugbee	MyrSpi	Point		8/19/2014	02:02:20pm	41.51366	-73.44015
301	Greg Bugbee	MyrSpi	Point		8/19/2014	02:02:28pm	41.51364	-73.44029
302	Greg Bugbee	MyrSpi	Point		8/19/2014	02:03:15pm	41.51341	-73.44082
303	Greg Bugbee	MyrSpi	Point		8/19/2014	02:41:34pm	41.51913	-73.43729
304	Greg Bugbee	MyrSpi	Point		8/19/2014	02:42:08pm	41.51896	-73.43726
305	Greg Bugbee	MyrSpi	Point		8/19/2014	02:42:59pm	41.51879	-73.43718
306	Greg Bugbee	MyrSpi	Point		8/19/2014	02:43:19pm	41.51871	-73.43711
307	Greg Bugbee	MyrSpi	Point		8/19/2014	02:43:50pm	41.5186	-73.43671
308	Greg Bugbee	MyrSpi	Point		8/19/2014	02:43:57pm	41.51856	-73.43657
309	Greg Bugbee	MyrSpi	Point		8/19/2014	02:44:16pm	41.51867	-73.43629
310	Greg Bugbee	MyrSpi	Point		8/19/2014	02:45:17pm	41.51923	-73.43563
311	Greg Bugbee	MyrSpi	Point		8/19/2014	02:46:09pm	41.51941	-73.43537
312	Greg Bugbee	MyrSpi	Point		8/19/2014	02:46:15pm	41.51937	-73.43527
313	Greg Bugbee	MyrSpi	Point		8/19/2014	02:47:10pm	41.51948	-73.43535
314	Greg Bugbee	MyrSpi	Point		8/19/2014	02:47:30pm	41.51956	-73.43535
315	Greg Bugbee	MyrSpi	Point		8/19/2014	02:47:39pm	41.51967	-73.43532
316	Greg Bugbee	MyrSpi	Point		8/19/2014	02:57:34pm	41.52274	-73.43619
317	Greg Bugbee	MyrSpi	Point		8/19/2014	03:24:12pm	41.52716	-73.43826
318	Greg Bugbee	MyrSpi	Point		8/19/2014	03:24:18pm	41.52728	-73.43818
319	Greg Bugbee	MyrSpi	Point		8/19/2014	03:24:23pm	41.52741	-73.4382
320	Greg Bugbee	MyrSpi	Point		8/19/2014	03:24:27pm	41.52749	-73.43823
321	Greg Bugbee	MyrSpi	Point		8/19/2014	03:24:33pm	41.5276	-73.43826
322	Greg Bugbee	MyrSpi	Point		8/19/2014	03:25:25pm	41.5288	-73.43855
323	Greg Bugbee	MyrSpi	Point		8/19/2014	03:25:29pm	41.52888	-73.43853
324	Greg Bugbee	MyrSpi	Point		8/19/2014	03:25:32pm	41.52897	-73.43849
325	Greg Bugbee	MyrSpi	Point		8/19/2014	03:25:50pm	41.5293	-73.43857
326	Greg Bugbee	MyrSpi	Point		8/19/2014	03:25:57pm	41.52941	-73.43859
327	Greg Bugbee	MyrSpi	Point		8/19/2014	03:26:47pm	41.5301	-73.43892

Appendix Lake Candlewood Eurasian watermilfoil to surface locations (10 of 18)

FID	Surveyor	Invasive Plant Name	Type	Notes	Date	Time	Latitude	Longitude
328	Greg Bugbee	MyrSpi	Point		8/19/2014	03:26:55pm	41.53026	-73.43886
329	Greg Bugbee	MyrSpi	Point		8/19/2014	03:28:15pm	41.53257	-73.4386
330	Greg Bugbee	MyrSpi	Point		8/19/2014	03:28:20pm	41.53268	-73.43852
331	Greg Bugbee	MyrSpi	Point		8/19/2014	03:28:35pm	41.53291	-73.43852
332	Greg Bugbee	MyrSpi	Point		8/20/2014	11:12:39am	41.569	-73.44586
333	Greg Bugbee	MyrSpi	Point		8/20/2014	11:13:11am	41.56886	-73.44574
334	Greg Bugbee	MyrSpi	Point		8/20/2014	11:13:30am	41.56853	-73.44544
335	Greg Bugbee	MyrSpi	Point		8/20/2014	11:13:35am	41.56842	-73.44543
336	Greg Bugbee	MyrSpi	Point		8/20/2014	11:48:56am	41.55487	-73.44486
337	Greg Bugbee	MyrSpi	Point		8/20/2014	11:49:04am	41.5547	-73.44489
338	Greg Bugbee	MyrSpi	Point		8/20/2014	11:49:09am	41.55459	-73.44491
339	Greg Bugbee	MyrSpi	Point		8/20/2014	11:49:43am	41.55401	-73.44501
340	Greg Bugbee	MyrSpi	Point		8/20/2014	12:14:25pm	41.55297	-73.44528
341	Greg Bugbee	MyrSpi	Point		8/20/2014	12:14:32pm	41.55288	-73.44535
342	Greg Bugbee	MyrSpi	Point		8/20/2014	12:14:37pm	41.55278	-73.44532
343	Greg Bugbee	MyrSpi	Point		8/20/2014	12:14:42pm	41.55271	-73.44533
344	Greg Bugbee	MyrSpi	Point		8/20/2014	12:15:26pm	41.55146	-73.44542
345	Greg Bugbee	MyrSpi	Point		8/20/2014	12:15:31pm	41.55135	-73.44546
346	Greg Bugbee	MyrSpi	Point		8/20/2014	12:15:35pm	41.55123	-73.44548
347	Greg Bugbee	MyrSpi	Point		8/20/2014	12:15:47pm	41.55093	-73.44559
348	Greg Bugbee	MyrSpi	Point		8/20/2014	12:15:50pm	41.55084	-73.44561
349	Greg Bugbee	MyrSpi	Point		8/20/2014	12:15:54pm	41.55075	-73.4456
350	Greg Bugbee	MyrSpi	Point		8/20/2014	12:16:05pm	41.55053	-73.4456
351	Greg Bugbee	MyrSpi	Point		8/20/2014	12:16:26pm	41.55028	-73.44584
352	Greg Bugbee	MyrSpi	Point		8/20/2014	12:16:30pm	41.55025	-73.44594
353	Greg Bugbee	MyrSpi	Point		8/20/2014	12:16:34pm	41.55021	-73.44602
354	Greg Bugbee	MyrSpi	Point		8/20/2014	12:16:42pm	41.55013	-73.44614
355	Greg Bugbee	MyrSpi	Point		8/20/2014	12:16:45pm	41.55008	-73.44617
356	Greg Bugbee	MyrSpi	Point		8/20/2014	12:16:50pm	41.55001	-73.44624
357	Greg Bugbee	MyrSpi	Point		8/20/2014	12:16:59pm	41.54991	-73.44641
358	Greg Bugbee	MyrSpi	Point		8/20/2014	12:17:03pm	41.54986	-73.44646
359	Greg Bugbee	MyrSpi	Point		8/20/2014	12:17:08pm	41.54979	-73.4465
360	Greg Bugbee	MyrSpi	Point		8/20/2014	12:17:52pm	41.54916	-73.44716
361	Greg Bugbee	MyrSpi	Point		8/20/2014	12:17:57pm	41.54912	-73.44728
362	Greg Bugbee	MyrSpi	Point		8/20/2014	12:18:01pm	41.54908	-73.44737
363	Greg Bugbee	MyrSpi	Point		8/20/2014	12:18:18pm	41.54868	-73.44762

Appendix Lake Candlewood Eurasian watermilfoil to surface locations (11 of 18)

FID	Surveyor	Invasive Plant		Notes	Date	Time	Latitude	Longitude
		Name	Type					
364	Greg Bugbee	MyrSpi	Point		8/20/2014	12:18:23pm	41.54858	-73.44759
365	Greg Bugbee	MyrSpi	Point		8/20/2014	12:18:28pm	41.54845	-73.44752
366	Greg Bugbee	MyrSpi	Point		8/20/2014	12:18:49pm	41.54795	-73.4474
367	Greg Bugbee	MyrSpi	Point		8/20/2014	12:18:53pm	41.54785	-73.44736
368	Greg Bugbee	MyrSpi	Point		8/20/2014	12:18:57pm	41.54774	-73.44731
369	Greg Bugbee	MyrSpi	Point		8/20/2014	12:19:02pm	41.54762	-73.44732
370	Greg Bugbee	MyrSpi	Point		8/20/2014	12:19:07pm	41.54751	-73.44734
371	Greg Bugbee	MyrSpi	Point		8/20/2014	12:19:27pm	41.54711	-73.44747
372	Greg Bugbee	MyrSpi	Point		8/20/2014	12:19:31pm	41.54702	-73.44748
373	Greg Bugbee	MyrSpi	Point		8/20/2014	12:19:38pm	41.54686	-73.44743
374	Greg Bugbee	MyrSpi	Point		8/20/2014	12:19:45pm	41.54672	-73.44735
375	Greg Bugbee	MyrSpi	Point		8/20/2014	12:19:49pm	41.54664	-73.44732
376	Greg Bugbee	MyrSpi	Point		8/20/2014	12:19:53pm	41.54655	-73.4473
377	Greg Bugbee	MyrSpi	Point		8/20/2014	12:19:57pm	41.54646	-73.44727
378	Greg Bugbee	MyrSpi	Point		8/20/2014	12:20:01pm	41.54637	-73.44726
379	Greg Bugbee	MyrSpi	Point		8/20/2014	12:20:05pm	41.54627	-73.44723
380	Greg Bugbee	MyrSpi	Point		8/20/2014	12:20:12pm	41.54614	-73.44718
381	Greg Bugbee	MyrSpi	Point		8/20/2014	12:20:16pm	41.54607	-73.44716
382	Greg Bugbee	MyrSpi	Point		8/20/2014	12:20:20pm	41.54598	-73.44721
383	Greg Bugbee	MyrSpi	Point		8/20/2014	12:20:24pm	41.54589	-73.44723
384	Greg Bugbee	MyrSpi	Point		8/20/2014	12:20:30pm	41.54579	-73.44726
385	Greg Bugbee	MyrSpi	Point		8/20/2014	12:20:33pm	41.54572	-73.4473
386	Greg Bugbee	MyrSpi	Point		8/20/2014	12:20:38pm	41.54562	-73.44732
387	Greg Bugbee	MyrSpi	Point		8/20/2014	12:20:59pm	41.54523	-73.44755
388	Greg Bugbee	MyrSpi	Point		8/20/2014	12:21:02pm	41.54518	-73.4476
389	Greg Bugbee	MyrSpi	Point		8/20/2014	12:21:05pm	41.54512	-73.44764
390	Greg Bugbee	MyrSpi	Point		8/20/2014	12:21:09pm	41.54505	-73.44769
391	Greg Bugbee	MyrSpi	Point		8/20/2014	12:21:15pm	41.54494	-73.44776
392	Greg Bugbee	MyrSpi	Point		8/20/2014	12:21:28pm	41.54469	-73.44788
393	Greg Bugbee	MyrSpi	Point		8/20/2014	12:21:38pm	41.54447	-73.44799
394	Greg Bugbee	MyrSpi	Point		8/20/2014	12:21:42pm	41.54439	-73.44806
395	Greg Bugbee	MyrSpi	Point		8/20/2014	12:21:46pm	41.54433	-73.44816
396	Greg Bugbee	MyrSpi	Point		8/20/2014	12:21:50pm	41.54429	-73.44825
397	Greg Bugbee	MyrSpi	Point		8/20/2014	12:21:54pm	41.54423	-73.44835
398	Greg Bugbee	MyrSpi	Point		8/20/2014	12:21:58pm	41.54415	-73.44844
399	Greg Bugbee	MyrSpi	Point		8/20/2014	12:22:09pm	41.5439	-73.44849

Appendix Lake Candlewood Eurasian watermilfoil to surface locations (12 of 18)

FID	Surveyor	Invasive Plant Name	Type	Notes	Date	Time	Latitude	Longitude
400	Greg Bugbee	MyrSpi	Point		8/20/2014	12:22:13pm	41.54381	-73.4485
401	Greg Bugbee	MyrSpi	Point		8/20/2014	12:22:20pm	41.54364	-73.44849
402	Greg Bugbee	MyrSpi	Point		8/20/2014	12:31:57pm	41.53835	-73.44686
403	Greg Bugbee	MyrSpi	Point		8/20/2014	12:38:58pm	41.53422	-73.44775
404	Greg Bugbee	MyrSpi	Point		8/20/2014	12:39:11pm	41.53409	-73.44784
405	Greg Bugbee	MyrSpi	Point		8/20/2014	12:47:20pm	41.5317	-73.44824
406	Greg Bugbee	MyrSpi	Point		8/20/2014	12:54:54pm	41.52909	-73.44703
407	Greg Bugbee	MyrSpi	Point		8/20/2014	12:59:44pm	41.52609	-73.44807
408	Greg Bugbee	MyrSpi	Point		8/20/2014	01:38:19pm	41.54059	-73.44331
409	Greg Bugbee	MyrSpi	Point		8/20/2014	01:54:02pm	41.54709	-73.44227
410	Greg Bugbee	MyrSpi	Point		8/22/2014	10:10:45am	41.57076	-73.4918
411	Greg Bugbee	MyrSpi	Point		8/22/2014	10:11:26am	41.57042	-73.49146
412	Greg Bugbee	MyrSpi	Point		8/22/2014	10:12:04am	41.57005	-73.49112
413	Greg Bugbee	MyrSpi	Point		8/22/2014	10:13:24am	41.5694	-73.48906
414	Greg Bugbee	MyrSpi	Point		8/22/2014	10:13:38am	41.56957	-73.48926
415	Greg Bugbee	MyrSpi	Point		8/22/2014	10:13:50am	41.5698	-73.48917
416	Greg Bugbee	MyrSpi	Point		8/22/2014	10:13:55am	41.56989	-73.48907
417	Greg Bugbee	MyrSpi	Point		8/22/2014	10:14:04am	41.57	-73.48889
418	Greg Bugbee	MyrSpi	Point		8/22/2014	10:14:21am	41.57007	-73.48856
419	Greg Bugbee	MyrSpi	Point		8/22/2014	10:15:12am	41.57088	-73.48844
420	Greg Bugbee	MyrSpi	Point		8/22/2014	10:15:30am	41.57098	-73.48843
421	Greg Bugbee	MyrSpi	Point		8/22/2014	10:15:55am	41.57094	-73.48852
422	Greg Bugbee	MyrSpi	Point		8/22/2014	10:16:42am	41.57034	-73.48913
423	Greg Bugbee	MyrSpi	Point		8/22/2014	10:16:48am	41.57023	-73.4892
424	Greg Bugbee	MyrSpi	Point		8/22/2014	10:16:52am	41.57013	-73.48924
425	Greg Bugbee	MyrSpi	Point		8/22/2014	10:17:45am	41.57056	-73.49017
426	Greg Bugbee	MyrSpi	Point		8/22/2014	10:17:51am	41.57069	-73.49026
427	Greg Bugbee	MyrSpi	Point		8/22/2014	10:18:04am	41.57082	-73.49053
428	Greg Bugbee	MyrSpi	Point		8/22/2014	10:18:09am	41.57092	-73.49057
429	Greg Bugbee	MyrSpi	Point		8/22/2014	10:18:18am	41.57108	-73.49073
430	Greg Bugbee	MyrSpi	Point		8/22/2014	10:18:24am	41.5712	-73.49077
431	Greg Bugbee	MyrSpi	Point		8/22/2014	10:18:28am	41.57132	-73.49078
432	Greg Bugbee	MyrSpi	Point		8/22/2014	10:18:49am	41.57164	-73.49071
433	Greg Bugbee	MyrSpi	Point		8/22/2014	10:18:54am	41.57171	-73.49063
434	Greg Bugbee	MyrSpi	Point		8/22/2014	10:37:13am	41.5676	-73.4884
435	Greg Bugbee	MyrSpi	Point		8/22/2014	10:37:25am	41.5674	-73.48828

Appendix Lake Candlewood Eurasian watermilfoil to surface locations (13 of 18)

FID	Surveyor	Invasive Plant Name	Type	Notes	Date	Time	Latitude	Longitude
436	Greg Bugbee	MyrSpi	Point		8/22/2014	10:42:47am	41.56665	-73.48819
437	Greg Bugbee	MyrSpi	Point		8/22/2014	10:43:05am	41.56656	-73.48808
438	Greg Bugbee	MyrSpi	Point		8/22/2014	10:43:10am	41.56643	-73.48804
439	Greg Bugbee	MyrSpi	Point		8/22/2014	10:43:15am	41.56632	-73.48804
440	Greg Bugbee	MyrSpi	Point		8/22/2014	10:43:21am	41.56622	-73.48807
441	Greg Bugbee	MyrSpi	Point		8/22/2014	10:43:25am	41.56612	-73.48806
442	Greg Bugbee	MyrSpi	Point		8/22/2014	10:43:33am	41.56603	-73.48795
443	Greg Bugbee	MyrSpi	Point		8/22/2014	10:43:38am	41.56596	-73.48788
444	Greg Bugbee	MyrSpi	Point		8/22/2014	10:43:49am	41.56601	-73.48778
445	Greg Bugbee	MyrSpi	Point		8/22/2014	10:43:55am	41.56609	-73.48778
446	Greg Bugbee	MyrSpi	Point		8/22/2014	10:55:58am	41.56671	-73.48733
447	Greg Bugbee	MyrSpi	Point		8/22/2014	10:56:36am	41.56704	-73.48691
448	Greg Bugbee	MyrSpi	Point		8/22/2014	10:57:12am	41.56758	-73.4861
449	Greg Bugbee	MyrSpi	Point		8/22/2014	10:57:52am	41.56755	-73.48572
450	Greg Bugbee	MyrSpi	Point		8/22/2014	11:20:26am	41.567	-73.48425
451	Greg Bugbee	MyrSpi	Point		8/22/2014	11:20:44am	41.56698	-73.48378
452	Greg Bugbee	MyrSpi	Point		8/22/2014	11:20:50am	41.56699	-73.48361
453	Greg Bugbee	MyrSpi	Point		8/22/2014	11:20:55am	41.56703	-73.48346
454	Greg Bugbee	MyrSpi	Point		8/22/2014	11:21:24am	41.56811	-73.48362
455	Greg Bugbee	MyrSpi	Point		8/22/2014	11:22:06am	41.56862	-73.48391
456	Greg Bugbee	MyrSpi	Point		8/22/2014	11:33:21am	41.56832	-73.48315
457	Greg Bugbee	MyrSpi	Point		8/22/2014	11:33:26am	41.56843	-73.48312
458	Greg Bugbee	MyrSpi	Point		8/22/2014	11:33:42am	41.5684	-73.48322
459	Greg Bugbee	MyrSpi	Point		8/22/2014	11:33:59am	41.56823	-73.4832
460	Greg Bugbee	MyrSpi	Point		8/22/2014	11:34:08am	41.56811	-73.48296
461	Greg Bugbee	MyrSpi	Point		8/22/2014	11:34:16am	41.5681	-73.48276
462	Greg Bugbee	MyrSpi	Point		8/22/2014	11:34:22am	41.56807	-73.4826
463	Greg Bugbee	MyrSpi	Point		8/22/2014	11:34:31am	41.56806	-73.48239
464	Greg Bugbee	MyrSpi	Point		8/22/2014	11:34:35am	41.56807	-73.48229
465	Greg Bugbee	MyrSpi	Point		8/22/2014	11:34:40am	41.56803	-73.48218
466	Greg Bugbee	MyrSpi	Point		8/22/2014	11:49:54am	41.56216	-73.47656
467	Greg Bugbee	MyrSpi	Point		8/22/2014	11:50:07am	41.56204	-73.4763
468	Greg Bugbee	MyrSpi	Point		8/22/2014	11:50:27am	41.56183	-73.47603
469	Greg Bugbee	MyrSpi	Point		8/22/2014	12:17:23pm	41.55496	-73.47284
470	Greg Bugbee	MyrSpi	Point		8/22/2014	12:17:29pm	41.55504	-73.47292
471	Greg Bugbee	MyrSpi	Point		8/22/2014	12:18:01pm	41.55511	-73.47242

Appendix Lake Candlewood Eurasian watermilfoil to surface locations (14 of 18)

FID	Surveyor	Invasive Plant Name	Type	Notes	Date	Time	Latitude	Longitude
472	Greg Bugbee	MyrSpi	Point		8/22/2014	12:36:35pm	41.55351	-73.4709
473	Greg Bugbee	MyrSpi	Point		8/22/2014	12:36:40pm	41.55362	-73.47094
474	Greg Bugbee	MyrSpi	Point		8/22/2014	12:36:44pm	41.55371	-73.47103
475	Greg Bugbee	MyrSpi	Point		8/22/2014	12:36:47pm	41.55377	-73.47111
476	Greg Bugbee	MyrSpi	Point		8/22/2014	12:36:52pm	41.55385	-73.47125
477	Greg Bugbee	MyrSpi	Point		8/22/2014	12:36:56pm	41.55386	-73.47136
478	Greg Bugbee	MyrSpi	Point		8/22/2014	12:37:00pm	41.55383	-73.47146
479	Greg Bugbee	MyrSpi	Point		8/22/2014	12:37:51pm	41.55352	-73.47051
480	Greg Bugbee	MyrSpi	Point		8/22/2014	12:38:32pm	41.55394	-73.46959
481	Greg Bugbee	MyrSpi	Point		8/22/2014	12:38:37pm	41.55401	-73.46972
482	Greg Bugbee	MyrSpi	Point		8/22/2014	12:39:14pm	41.55417	-73.46897
483	Greg Bugbee	MyrSpi	Point		8/22/2014	12:39:19pm	41.55422	-73.46889
484	Greg Bugbee	MyrSpi	Point		8/22/2014	12:40:24pm	41.55421	-73.46842
485	Greg Bugbee	MyrSpi	Point		8/22/2014	12:40:32pm	41.55426	-73.46853
486	Greg Bugbee	MyrSpi	Point		8/22/2014	12:41:01pm	41.55422	-73.4679
487	Greg Bugbee	MyrSpi	Point		8/22/2014	12:41:16pm	41.55424	-73.46748
488	Greg Bugbee	MyrSpi	Point		8/22/2014	12:41:20pm	41.55422	-73.46738
489	Greg Bugbee	MyrSpi	Point		8/22/2014	12:58:39pm	41.55002	-73.46471
490	Greg Bugbee	MyrSpi	Point		8/22/2014	01:46:24pm	41.54761	-73.46982
491	Greg Bugbee	MyrSpi	Point		8/22/2014	02:05:30pm	41.55151	-73.47067
492	Greg Bugbee	MyrSpi	Point		8/22/2014	02:06:11pm	41.55072	-73.47001
493	Greg Bugbee	MyrSpi	Point		8/22/2014	02:06:16pm	41.55062	-73.46995
494	Greg Bugbee	MyrSpi	Point		8/22/2014	02:06:20pm	41.55055	-73.46986
495	Greg Bugbee	MyrSpi	Point		8/22/2014	02:06:31pm	41.55037	-73.46961
496	Greg Bugbee	MyrSpi	Point		8/22/2014	02:06:34pm	41.55028	-73.46955
497	Greg Bugbee	MyrSpi	Point		8/22/2014	02:11:53pm	41.54716	-73.46636
498	Greg Bugbee	MyrSpi	Point		8/22/2014	02:12:15pm	41.54701	-73.46648
499	Greg Bugbee	MyrSpi	Point		8/22/2014	02:35:45pm	41.55815	-73.48103
500	Greg Bugbee	MyrSpi	Point		8/22/2014	02:35:49pm	41.55811	-73.48114
501	Greg Bugbee	MyrSpi	Point		8/22/2014	02:35:57pm	41.55807	-73.48137
502	Greg Bugbee	MyrSpi	Point		8/22/2014	02:36:03pm	41.55812	-73.4815
503	Greg Bugbee	MyrSpi	Point		8/22/2014	02:36:07pm	41.55819	-73.48157
504	Greg Bugbee	MyrSpi	Point		8/22/2014	02:36:12pm	41.55827	-73.48165
505	Greg Bugbee	MyrSpi	Point		8/22/2014	02:36:17pm	41.55838	-73.48174
506	Greg Bugbee	MyrSpi	Point		8/22/2014	02:36:22pm	41.55845	-73.48183
507	Greg Bugbee	MyrSpi	Point		8/22/2014	02:36:26pm	41.55851	-73.48191

Appendix Lake Candlewood Eurasian watermilfoil to surface locations (15 of 18)

FID	Surveyor	Invasive Plant Name	Type	Notes	Date	Time	Latitude	Longitude
508	Greg Bugbee	MyrSpi	Point		8/22/2014	02:36:30pm	41.55858	-73.48197
509	Greg Bugbee	MyrSpi	Point		8/22/2014	02:36:37pm	41.55869	-73.48205
510	Greg Bugbee	MyrSpi	Point		8/22/2014	02:36:41pm	41.55877	-73.48211
511	Greg Bugbee	MyrSpi	Point		8/22/2014	02:36:46pm	41.55884	-73.48215
512	Greg Bugbee	MyrSpi	Point		8/22/2014	02:59:33pm	41.56142	-73.48647
513	Greg Bugbee	MyrSpi	Point		8/22/2014	02:59:49pm	41.56152	-73.48678
514	Greg Bugbee	MyrSpi	Point		8/22/2014	02:59:52pm	41.56154	-73.48689
515	Greg Bugbee	MyrSpi	Point		8/22/2014	03:00:25pm	41.56197	-73.48741
516	Greg Bugbee	MyrSpi	Point		8/22/2014	03:00:55pm	41.56219	-73.48734
517	Greg Bugbee	MyrSpi	Point		8/22/2014	03:01:07pm	41.5623	-73.48729
518	Greg Bugbee	MyrSpi	Point		8/22/2014	03:01:17pm	41.56239	-73.48726
519	Greg Bugbee	MyrSpi	Point		8/22/2014	03:01:24pm	41.56244	-73.48721
520	Greg Bugbee	MyrSpi	Point		8/22/2014	03:01:27pm	41.56246	-73.48717
521	Greg Bugbee	MyrSpi	Point		8/22/2014	03:01:32pm	41.5625	-73.48712
522	Greg Bugbee	MyrSpi	Point		8/22/2014	03:01:37pm	41.56255	-73.48708
523	Greg Bugbee	MyrSpi	Point		8/22/2014	03:02:16pm	41.56305	-73.48715
524	Greg Bugbee	MyrSpi	Point		8/22/2014	03:02:20pm	41.56312	-73.4872
525	Greg Bugbee	MyrSpi	Point		8/22/2014	03:02:23pm	41.56317	-73.48724
526	Greg Bugbee	MyrSpi	Point		8/22/2014	03:02:27pm	41.56323	-73.48729
527	Greg Bugbee	MyrSpi	Point		8/22/2014	03:02:31pm	41.56328	-73.48733
528	Greg Bugbee	MyrSpi	Point		8/22/2014	03:02:56pm	41.56366	-73.4876
529	Greg Bugbee	MyrSpi	Point		8/22/2014	03:03:09pm	41.5639	-73.48781
530	Greg Bugbee	MyrSpi	Point		8/22/2014	03:03:13pm	41.56395	-73.48789
531	Greg Bugbee	MyrSpi	Point		8/22/2014	03:03:23pm	41.56411	-73.48806
532	Greg Bugbee	MyrSpi	Point		8/22/2014	03:03:28pm	41.5642	-73.48814
533	Greg Bugbee	MyrSpi	Point		8/22/2014	03:03:32pm	41.56423	-73.48822
534	Greg Bugbee	MyrSpi	Point		8/22/2014	03:04:01pm	41.56431	-73.48824
535	Greg Bugbee	MyrSpi	Point		8/22/2014	03:04:06pm	41.56438	-73.48822
536	Greg Bugbee	MyrSpi	Point		8/22/2014	03:04:11pm	41.56443	-73.48823
537	Greg Bugbee	MyrSpi	Point		8/22/2014	03:04:20pm	41.56451	-73.48829
538	Greg Bugbee	MyrSpi	Point		8/22/2014	03:04:42pm	41.5647	-73.48858
539	Greg Bugbee	MyrSpi	Point		8/22/2014	03:04:46pm	41.56471	-73.48865
540	Greg Bugbee	MyrSpi	Point		8/22/2014	03:12:30pm	41.56427	-73.48777
541	Greg Bugbee	MyrSpi	Point		8/22/2014	03:12:36pm	41.56414	-73.48781
542	Greg Bugbee	MyrSpi	Point		8/22/2014	03:12:45pm	41.56402	-73.48772
543	Greg Bugbee	MyrSpi	Point		8/22/2014	03:12:49pm	41.56396	-73.48765

Appendix Lake Candlewood Eurasian watermilfoil to surface locations (16 of 18)

FID	Surveyor	Invasive Plant Name	Type	Notes	Date	Time	Latitude	Longitude
544	Greg Bugbee	MyrSpi	Point		8/22/2014	03:12:56pm	41.56387	-73.48754
545	Greg Bugbee	MyrSpi	Point		8/22/2014	03:13:01pm	41.56381	-73.48745
546	Greg Bugbee	MyrSpi	Point		8/22/2014	03:13:08pm	41.56377	-73.48734
547	Greg Bugbee	MyrSpi	Point		8/22/2014	03:13:17pm	41.56376	-73.48722
548	Greg Bugbee	MyrSpi	Point		8/22/2014	03:13:21pm	41.56377	-73.48713
549	Greg Bugbee	MyrSpi	Point		8/25/2014	10:59:19am	41.52945	-73.48272
550	Greg Bugbee	MyrSpi	Point		8/25/2014	10:59:33am	41.5295	-73.48296
551	Greg Bugbee	MyrSpi	Point		8/25/2014	11:00:06am	41.52946	-73.48374
552	Greg Bugbee	MyrSpi	Point		8/25/2014	11:15:22am	41.53304	-73.48634
553	Greg Bugbee	MyrSpi	Point		8/25/2014	12:03:38pm	41.55245	-73.47991
554	Greg Bugbee	MyrSpi	Point		8/25/2014	12:04:07pm	41.55221	-73.47957
555	Greg Bugbee	MyrSpi	Point		8/25/2014	12:25:24pm	41.55681	-73.48213
556	Greg Bugbee	MyrSpi	Point		8/25/2014	12:25:32pm	41.55686	-73.48222
557	Greg Bugbee	MyrSpi	Point		8/25/2014	12:25:35pm	41.5569	-73.48231
558	Greg Bugbee	MyrSpi	Point		8/25/2014	12:25:40pm	41.55692	-73.48239
559	Greg Bugbee	MyrSpi	Point		8/25/2014	12:25:58pm	41.55711	-73.48269
560	Greg Bugbee	MyrSpi	Point		8/25/2014	12:26:28pm	41.55745	-73.48324
561	Greg Bugbee	MyrSpi	Point		8/25/2014	12:26:36pm	41.55751	-73.48342
562	Greg Bugbee	MyrSpi	Point		8/25/2014	12:26:45pm	41.55757	-73.48366
563	Greg Bugbee	MyrSpi	Point		8/25/2014	12:26:49pm	41.55761	-73.48377
564	Greg Bugbee	MyrSpi	Point		8/25/2014	12:26:54pm	41.55765	-73.48388
565	Greg Bugbee	MyrSpi	Point		8/25/2014	12:27:05pm	41.55775	-73.48415
566	Greg Bugbee	MyrSpi	Point		8/25/2014	12:27:26pm	41.55791	-73.48469
567	Greg Bugbee	MyrSpi	Point		8/25/2014	12:27:30pm	41.55795	-73.4848
568	Greg Bugbee	MyrSpi	Point		8/25/2014	12:27:35pm	41.55799	-73.48492
569	Greg Bugbee	MyrSpi	Point		8/25/2014	12:28:20pm	41.55807	-73.48503
570	Greg Bugbee	MyrSpi	Point		8/25/2014	12:28:26pm	41.55807	-73.48496
571	Greg Bugbee	MyrSpi	Point		8/25/2014	12:28:32pm	41.55807	-73.48488
572	Greg Bugbee	MyrSpi	Point		8/25/2014	12:29:04pm	41.5582	-73.48456
573	Greg Bugbee	MyrSpi	Point		8/25/2014	12:29:08pm	41.55822	-73.48463
574	Greg Bugbee	MyrSpi	Point		8/25/2014	12:29:20pm	41.55823	-73.48488
575	Greg Bugbee	MyrSpi	Point		8/25/2014	12:29:24pm	41.55824	-73.48495
576	Greg Bugbee	MyrSpi	Point		8/25/2014	12:32:17pm	41.55828	-73.4852
577	Greg Bugbee	MyrSpi	Point		8/25/2014	12:32:45pm	41.55828	-73.48513
578	Greg Bugbee	MyrSpi	Point		8/25/2014	12:32:51pm	41.55833	-73.48513
579	Greg Bugbee	MyrSpi	Point		8/25/2014	12:33:17pm	41.55828	-73.48502

Appendix Lake Candlewood Eurasian watermilfoil to surface locations (17 of 18)

FID	Surveyor	Invasive Plant Name	Type	Notes	Date	Time	Latitude	Longitude
580	Greg Bugbee	MyrSpi	Point		8/25/2014	12:33:24pm	41.55828	-73.48493
581	Greg Bugbee	MyrSpi	Point		8/25/2014	12:33:30pm	41.55828	-73.48485
582	Greg Bugbee	MyrSpi	Point		8/25/2014	12:33:39pm	41.55828	-73.48469
583	Greg Bugbee	MyrSpi	Point		8/25/2014	12:33:44pm	41.55833	-73.48465
584	Greg Bugbee	MyrSpi	Point		8/25/2014	12:33:49pm	41.55842	-73.48468
585	Greg Bugbee	MyrSpi	Point		8/25/2014	12:33:55pm	41.55848	-73.48476
586	Greg Bugbee	MyrSpi	Point		8/25/2014	12:33:59pm	41.55848	-73.48484
587	Greg Bugbee	MyrSpi	Point		8/25/2014	12:34:04pm	41.55848	-73.48495
588	Greg Bugbee	MyrSpi	Point		8/25/2014	12:34:09pm	41.55849	-73.48503
589	Greg Bugbee	MyrSpi	Point		8/25/2014	12:34:34pm	41.55853	-73.48503
590	Greg Bugbee	MyrSpi	Point		8/25/2014	12:34:41pm	41.55851	-73.48496
591	Greg Bugbee	MyrSpi	Point		8/25/2014	12:34:51pm	41.55851	-73.48483
592	Greg Bugbee	MyrSpi	Point		8/25/2014	12:34:57pm	41.55855	-73.48475
593	Greg Bugbee	MyrSpi	Point		8/25/2014	12:37:07pm	41.55885	-73.48378
594	Greg Bugbee	MyrSpi	Point		8/25/2014	12:37:10pm	41.55881	-73.48371
595	Greg Bugbee	MyrSpi	Point		8/25/2014	12:37:15pm	41.55874	-73.48361
596	Greg Bugbee	MyrSpi	Point		8/25/2014	12:37:20pm	41.55878	-73.48351
597	Greg Bugbee	MyrSpi	Point		8/25/2014	12:38:57pm	41.55828	-73.4823
598	Greg Bugbee	MyrSpi	Point		8/25/2014	12:39:03pm	41.55823	-73.4823
599	Greg Bugbee	MyrSpi	Point		8/25/2014	12:39:11pm	41.55813	-73.48228
600	Greg Bugbee	MyrSpi	Point		8/25/2014	12:39:19pm	41.55802	-73.48238
601	Greg Bugbee	MyrSpi	Point		8/25/2014	12:50:07pm	41.55647	-73.48073
602	Greg Bugbee	MyrSpi	Point		8/25/2014	12:50:12pm	41.55644	-73.48075
603	Greg Bugbee	MyrSpi	Point		8/25/2014	12:51:07pm	41.55621	-73.48033
604	Greg Bugbee	MyrSpi	Point		8/25/2014	12:51:17pm	41.55643	-73.48035
605	Greg Bugbee	MyrSpi	Point		8/25/2014	12:51:23pm	41.55654	-73.48037
606	Greg Bugbee	MyrSpi	Point		8/25/2014	12:51:30pm	41.55665	-73.48033
607	Greg Bugbee	MyrSpi	Point		8/25/2014	12:51:37pm	41.55663	-73.48019
608	Greg Bugbee	MyrSpi	Point		8/25/2014	12:51:42pm	41.55656	-73.48009
609	Greg Bugbee	MyrSpi	Point		8/25/2014	01:17:54pm	41.54258	-73.45846
610	Greg Bugbee	MyrSpi	Point		8/25/2014	01:18:02pm	41.54252	-73.45838
611	Greg Bugbee	MyrSpi	Point		8/25/2014	01:18:13pm	41.54245	-73.45833
612	Greg Bugbee	MyrSpi	Point		8/25/2014	01:18:28pm	41.54229	-73.45821
613	Greg Bugbee	MyrSpi	Point		8/25/2014	01:41:47pm	41.53256	-73.4547
614	Greg Bugbee	MyrSpi	Point		8/25/2014	01:41:52pm	41.5326	-73.45453
615	Greg Bugbee	MyrSpi	Point		8/25/2014	01:41:58pm	41.53268	-73.45443

Appendix Lake Candlewood Eurasian watermilfoil to surface locations (18 of 18)

FID	Surveyor	Invasive Plant Name	Type	Notes	Date	Time	Latitude	Longitude
616	Greg Bugbee	MyrSpi	Point		8/25/2014	01:42:05pm	41.53276	-73.45443
617	Greg Bugbee	MyrSpi	Point		8/25/2014	01:42:57pm	41.53193	-73.45485
618	Greg Bugbee	MyrSpi	Point		8/25/2014	01:43:21pm	41.53172	-73.45476
619	Greg Bugbee	MyrSpi	Point		8/25/2014	01:43:42pm	41.53118	-73.45455
620	Greg Bugbee	MyrSpi	Point		8/25/2014	01:43:47pm	41.53106	-73.45441
621	Greg Bugbee	MyrSpi	Point		8/25/2014	01:44:18pm	41.52999	-73.45389
622	Greg Bugbee	MyrSpi	Point		8/25/2014	01:44:23pm	41.52989	-73.4538
623	Greg Bugbee	MyrSpi	Point		8/25/2014	01:44:28pm	41.52974	-73.45371
624	Greg Bugbee	MyrSpi	Point		8/25/2014	02:17:09pm	41.52285	-73.45262
625	Greg Bugbee	MyrSpi	Point		8/25/2014	02:17:43pm	41.52225	-73.45239
626	Greg Bugbee	MyrSpi	Point		8/25/2014	02:17:47pm	41.52217	-73.45235
627	Greg Bugbee	MyrSpi	Point		8/25/2014	02:17:50pm	41.5221	-73.45233
628	Greg Bugbee	MyrSpi	Point		8/25/2014	02:17:54pm	41.522	-73.45229
629	Greg Bugbee	MyrSpi	Point		8/25/2014	02:19:02pm	41.52018	-73.4519
630	Greg Bugbee	MyrSpi	Point		8/25/2014	02:19:22pm	41.51967	-73.45176
631	Greg Bugbee	MyrSpi	Point		8/25/2014	02:19:53pm	41.51893	-73.45184
632	Greg Bugbee	MyrSpi	Point		8/25/2014	02:20:47pm	41.51743	-73.4522
633	Greg Bugbee	MyrSpi	Point		8/25/2014	02:20:54pm	41.51734	-73.4522
634	Greg Bugbee	MyrSpi	Point		8/25/2014	02:22:11pm	41.51563	-73.45291
635	Greg Bugbee	MyrSpi	Point		8/25/2014	02:22:17pm	41.51548	-73.45286
636	Greg Bugbee	MyrSpi	Point		8/25/2014	02:22:36pm	41.51505	-73.45292
637	Greg Bugbee	MyrSpi	Point		8/25/2014	02:23:16pm	41.51421	-73.45325
638	Greg Bugbee	MyrSpi	Point		8/25/2014	02:23:23pm	41.51412	-73.45342
639	Greg Bugbee	MyrSpi	Point		8/25/2014	02:23:27pm	41.51405	-73.45347
640	Greg Bugbee	MyrSpi	Point		8/25/2014	02:23:32pm	41.514	-73.45341
641	Greg Bugbee	MyrSpi	Point		8/25/2014	02:23:37pm	41.514	-73.45329
642	Greg Bugbee	MyrSpi	Point		8/25/2014	02:23:42pm	41.51406	-73.45322
643	Greg Bugbee	MyrSpi	Point		8/25/2014	02:23:47pm	41.51419	-73.45326

Appendix Lake Zoar Invasive Plant Location Data (1 of 5)

FID	Invasive Plant Name	Notes	Type	Date	Time	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
0	MyrSpi		patch	7/24/2014	09:10:21am	41.428520	-73.239723	0-2	4	1.58113
1	MyrSpi		patch	7/24/2014	09:46:20am	41.426996	-73.236968	0-1	1	2.70406
2	MyrSpi		patch	7/24/2014	09:55:07am	41.427304	-73.238316	0-1	2	1.42970
3	MyrSpi		patch	7/24/2014	10:15:47am	41.435958	-73.241489	0-1	2	0.08535
4	MyrSpi		patch	7/24/2014	10:23:50am	41.440148	-73.245661	0-2	3	8.86837
5	NajMin		patch	7/24/2014	11:15:23am	41.440694	-73.247426	0-1	2	0.43455
6	MyrSpi		patch	7/24/2014	12:12:51pm	41.440288	-73.252906	0-1	3	0.42239
7	MyrSpi		patch	7/24/2014	12:28:36pm	41.438637	-73.250756	0-2	4	0.44747
8	MyrSpi		patch	7/24/2014	12:39:56pm	41.436403	-73.254051	0-2	3	0.50354
9	MyrSpi		patch	7/24/2014	12:48:23pm	41.434866	-73.256092	0-2	3	1.74535
10	MyrSpi	0-2.5 m	patch	7/24/2014	01:03:26pm	41.434375	-73.261198	0-2	4	1.68087
11	MyrSpi		patch	7/24/2014	01:19:30pm	41.438019	-73.264171	0-2	3	0.20746
12	MyrSpi		patch	8/1/2014	09:15:42am	41.446808	-73.268399	0-2	4	1.22298
13	MyrSpi		patch	8/1/2014	09:27:17am	41.448940	-73.270301	0-2	3	0.44389
14	MyrSpi	1.5 m	patch	8/1/2014	09:35:18am	41.450351	-73.271642	0-1	2	0.11982
15	MyrSpi		patch	8/1/2014	09:42:59am	41.451638	-73.272836	0-2	4	0.30701
16	MyrSpi		patch	8/1/2014	09:51:58am	41.452586	-73.274406	0-1	4	0.02675
17	MyrSpi		patch	8/1/2014	09:56:22am	41.453017	-73.275688	0-1	3	0.11796
18	MyrSpi		patch	8/1/2014	10:05:01am	41.453211	-73.277668	0-2	3	0.15564
19	MyrSpi		patch	8/1/2014	10:11:43am	41.453230	-73.280730	0-2	3	1.25764
20	MyrSpi		patch	8/1/2014	10:26:20am	41.452640	-73.282572	0-2	3	0.16362
21	MyrSpi		patch	8/1/2014	10:37:55am	41.450823	-73.287946	0-1	3	0.02160
22	MyrSpi		patch	8/1/2014	10:44:16am	41.451274	-73.284206	0-2	2	0.05180
23	MyrSpi		patch	8/1/2014	10:48:52am	41.451689	-73.282620	0-2	3	0.71921
24	MyrSpi		patch	8/19/2014	09:01:06am	41.452175	-73.277913	0-2	3	1.59668
25	MyrSpi		patch	8/19/2014	09:06:23am	41.451565	-73.274428	0-1	3	0.04737
26	MyrSpi		patch	8/19/2014	09:10:25am	41.450917	-73.273462	0-2	2	0.09781
27	MyrSpi		patch	8/19/2014	09:22:26am	41.449638	-73.272369	0-1	1	0.01871
28	MyrSpi		patch	8/19/2014	09:43:44am	41.446029	-73.269712	0-2	2	0.05549
29	MyrSpi		patch	8/19/2014	10:02:38am	41.441575	-73.267370	0-2	4	0.63759
30	MyrSpi		patch	8/19/2014	10:13:27am	41.439053	-73.266788	0-2	5	2.04694
31	MyrSpi		patch	8/19/2014	10:31:43am	41.436302	-73.265751	0-1	5	0.39911
32	MyrSpi		patch	8/19/2014	12:28:15pm	41.431503	-73.245362	0-1	3	0.81043
33	MyrSpi		patch	8/20/2014	09:09:42am	41.398521	-73.190503	0-2	3	0.07935
34	NajMin	0-1.5 m	patch	8/20/2014	09:51:03am	41.388012	-73.181299	0-2	3	0.03980
35	MyrSpi		patch	8/20/2014	10:07:03am	41.383208	-73.177176	1-3	2	0.05749

Appendix Lake Zoar Invasive Plant Location Data (2 of 5)

FID	Invasive Plant Name	Notes	Type	Date	Time	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
36	MyrSpi		patch	8/20/2014	10:11:19am	41.381687	-73.177023	0-1	4	0.29407
37	MyrSpi		patch	8/20/2014	10:25:48am	41.381753	-73.175434	0-2	4	1.17140
38	MyrSpi		patch	8/20/2014	11:41:26am	41.391744	-73.174387	0-1	2	0.04354
39	MyrSpi		patch	8/20/2014	12:45:27pm	41.420504	-73.206099	0-1	2	0.03848
40	MyrSpi		patch	8/20/2014	12:48:51pm	41.421042	-73.206533	0-2	3	0.05298
41	PotCri		patch	6/3/2014	11:57:48am	41.428163	-73.234900	0-1	3	1.85353
42	PotCri		patch	6/3/2014	11:57:48am	41.428927	-73.233349	1-3	2	0.15268
43	PotCri		patch	6/3/2014	11:57:48am	41.427444	-73.236893	0-1	5	0.34918
44	PotCri		patch	6/3/2014	11:57:48am	41.427820	-73.238982	0-1	3	1.37506
45	PotCri		patch	6/3/2014	11:57:48am	41.439719	-73.243517	1-3	2	0.30193
46	PotCri		patch	6/3/2014	11:57:48am	41.440033	-73.244697	1-3	3	1.17078
47	PotCri		patch	6/3/2014	11:57:48am	41.440420	-73.245228	1-3	3	0.33060
48	PotCri		patch	6/3/2014	11:57:48am	41.440780	-73.246405	0-1	3	0.88672
49	PotCri		patch	6/3/2014	11:57:48am	41.438329	-73.251293	0-1	3	0.61681
50	PotCri		patch	6/3/2014	11:57:48am	41.436457	-73.253999	0-1	2	0.45585
51	PotCri		patch	6/3/2014	11:57:48am	41.434243	-73.257856	0-1	2	0.08247
52	PotCri		patch	6/3/2014	11:57:48am	41.434123	-73.258852	0-1	2	0.13768
53	PotCri		patch	6/3/2014	11:57:48am	41.434281	-73.261032	1-3	3	0.81057
54	PotCri		patch	6/3/2014	11:57:48am	41.434770	-73.262724	1-3	2	0.18144
55	PotCri		patch	6/3/2014	11:57:48am	41.448076	-73.269436	1-3	4	0.63488
56	PotCri		patch	6/3/2014	11:57:48am	41.447070	-73.270524	0-1	2	1.35120
57	PotCri		patch	6/3/2014	11:57:48am	41.439978	-73.267018	0-1	3	1.54560
58	PotCri		patch	6/3/2014	11:57:48am	41.438021	-73.267396	0-1	1	4.25380
59	PotCri		patch	6/3/2014	11:57:48am	41.436307	-73.265764	0-1	2	0.13777
60	PotCri		patch	6/3/2014	11:57:48am	41.433054	-73.259284	0-1	2	0.17113
61	PotCri		patch	6/3/2014	11:57:48am	41.427088	-73.236287	1-3	3	2.59560
62	PotCri		patch	6/3/2014	11:57:48am	41.433668	-73.243654	1-3	3	2.69742
63	PotCri		patch	6/3/2014	11:57:48am	41.431485	-73.245132	1-3	2	1.80423
64	PotCri		patch	6/3/2014	09:38:47am	41.428288	-73.239528	0-2	1	0.31908
65	PotCri		patch	6/3/2014	01:17:50pm	41.427144	-73.237794	0-2	1	2.10751
66	PotCri		patch	6/3/2014	11:57:48am	41.429689	-73.240342	0-1	2	0.06906
67	NajMin	W/FID 31	patch	12/10/2014	09:25:32am	41.436322	-73.265898	0-1	1	0.04349
68	NajMin	W/FID 31	patch	12/10/2014	09:29:52am	41.436112	-73.265740	0-1	5	0.01751
69	PotCri	W/FID 36	patch	12/10/2014	01:15:32pm	41.381629	-73.176989	0-1	3	0.10459
70	NajMin	W/FID 37	patch	12/10/2014	01:22:43pm	41.381697	-73.175387	0-2	1	0.77523
71	PotCri	W/FID 37	patch	12/10/2014	01:27:55pm	41.381665	-73.175398	0-2	1	0.03449

Appendix Lake Zoar Invasive Plant Location Data (3 of 5)

Invasive Plant		Notes	Type	Date	Time	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
FID	Name									
72	NajMin	W/FID 37	patch	12/10/2014	01:32:26pm	41.381710	-73.175615	0-1	4	0.32737
73	MyrSpi	W/FID 41	patch	12/10/2014	01:45:47pm	41.428221	-73.234881	0-1	2	1.67819
74	MyrSpi	W/FID 42	patch	12/10/2014	02:32:24pm	41.428936	-73.233348	1-3	2	0.08959
75	NajMin		patch	8/22/2014	01:33:29pm	41.391624	-73.174467	0-2	3	0.04665
0	MyrSpi		Point	7/24/2014	10:08:31am	41.43232	-73.24067	1-3	2	0.0002
1	MyrSpi		Point	7/24/2014	10:14:18am	41.43614	-73.24156	0-1	1	0.0002
2	MyrSpi		Point	7/24/2014	10:14:32am	41.43622	-73.24153	0-1	1	0.0002
3	MyrSpi		Point	7/24/2014	12:08:14pm	41.43932	-73.24927	0-1	1	0.0002
4	MyrSpi		Point	7/24/2014	12:09:44pm	41.43922	-73.24998	0-1	1	0.0002
5	MyrSpi		Point	7/24/2014	12:10:14pm	41.43928	-73.25024	0-1	1	0.0002
6	MyrSpi		Point	7/24/2014	12:10:37pm	41.43934	-73.25051	0-1	3	0.0002
7	MyrSpi		Point	7/24/2014	12:10:59pm	41.43937	-73.25067	0-1	1	0.0002
8	MyrSpi		Point	7/24/2014	12:11:33pm	41.43947	-73.25096	0-1	1	0.0002
9	MyrSpi		Point	7/24/2014	12:11:45pm	41.43950	-73.25104	0-1	1	0.0002
10	MyrSpi		Point	7/24/2014	12:33:18pm	41.43825	-73.25143	0-1	1	0.0002
11	MyrSpi		Point	7/24/2014	12:33:57pm	41.43815	-73.25179	0-1	1	0.0002
12	MyrSpi		Point	7/24/2014	12:36:06pm	41.43773	-73.25230	0-1	3	0.0002
13	MyrSpi		Point	7/24/2014	12:38:26pm	41.43700	-73.25344	0-1	3	0.0002
14	MyrSpi		Point	7/24/2014	12:46:23pm	41.43691	-73.25362	0-1	3	0.0002
15	MyrSpi		Point	8/1/2014	10:34:42am	41.45164	-73.28632	0-1	1	0.0002
16	MyrSpi		Point	8/1/2014	10:36:18am	41.45124	-73.28711	0-1	3	0.0002
17	MyrSpi		Point	8/1/2014	10:43:01am	41.45113	-73.28453	0-1	2	0.0002
18	MyrSpi		Point	8/1/2014	10:46:46am	41.45132	-73.28384	0-1	2	0.0002
19	MyrSpi	0-1.5 m	Point	8/19/2014	09:21:27am	41.44985	-73.27253	0-1	1	0.0002
20	MyrSpi		Point	8/19/2014	09:25:27am	41.44920	-73.27207	0-1	1	0.0002
21	MyrSpi		Point	8/19/2014	09:26:53am	41.44895	-73.27187	0-1	1	0.0002
22	MyrSpi		Point	8/19/2014	09:28:01am	41.44871	-73.27168	0-1	2	0.0002
23	MyrSpi		Point	8/19/2014	09:29:15am	41.44852	-73.27152	0-1	2	0.0002
24	MyrSpi		Point	8/19/2014	09:30:05am	41.44834	-73.27139	0-1	1	0.0002
25	MyrSpi		Point	8/19/2014	09:32:15am	41.44794	-73.27101	0-1	3	0.0002
26	MyrSpi		Point	8/19/2014	09:33:27am	41.44793	-73.27094	0-2	4	0.0002
27	MyrSpi		Point	8/19/2014	09:34:26am	41.44781	-73.27093	0-2	1	0.0002
28	MyrSpi		Point	8/19/2014	09:34:53am	41.44767	-73.27082	0-1	3	0.0002
29	MyrSpi		Point	8/19/2014	09:35:46am	41.44753	-73.27073	0-1	2	0.0002
30	MyrSpi		Point	8/19/2014	09:36:20am	41.44736	-73.27064	0-1	2	0.0002
31	MyrSpi		Point	8/19/2014	09:37:01am	41.44712	-73.27050	0-2	2	0.0002

Appendix Lake Zoar Invasive Plant Location Data (4 of 5)

Invasive Plant		Notes	Type	Date	Time	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
FID	Name									
32	MyrSpi		Point	8/19/2014	09:37:53am	41.44697	-73.27040	0-1	1	0.0002
33	MyrSpi		Point	8/19/2014	09:38:35am	41.44679	-73.27033	0-1	1	0.0002
34	MyrSpi		Point	8/19/2014	09:39:33am	41.44662	-73.27017	0-2	3	0.0002
35	MyrSpi		Point	8/19/2014	09:41:14am	41.44640	-73.27011	0-1	2	0.0002
36	MyrSpi		Point	8/19/2014	09:42:36am	41.44609	-73.26982	0-2	2	0.0002
37	MyrSpi		Point	8/19/2014	09:45:44am	41.44561	-73.26964	0-1	3	0.0002
38	MyrSpi		Point	8/19/2014	09:53:16am	41.44516	-73.26950	0-1	1	0.0002
39	MyrSpi		Point	8/19/2014	09:59:43am	41.44309	-73.26788	0-1	2	0.0002
40	MyrSpi		Point	8/19/2014	10:58:02am	41.43308	-73.25957	0-2	2	0.0002
41	MyrSpi		Point	8/19/2014	10:58:58am	41.43303	-73.25937	0-1	1	0.0002
42	MyrSpi	0.5 m	Point	8/19/2014	12:16:58pm	41.43277	-73.24317	0-1	1	0.0002
43	MyrSpi		Point	8/19/2014	12:37:32pm	41.43062	-73.24473	0-2	1	0.0002
44	MyrSpi		Point	8/19/2014	12:40:20pm	41.42931	-73.24433	0-1	2	0.0002
45	MyrSpi		Point	8/19/2014	12:50:31pm	41.42504	-73.23749	0-2	2	0.0002
46	MyrSpi		Point	8/19/2014	12:51:48pm	41.42486	-73.23730	0-1	1	0.0002
47	NajMin		Point	8/19/2014	12:52:12pm	41.42479	-73.23728	0-1	1	0.0002
48	MyrSpi		Point	8/20/2014	08:22:51am	41.41346	-73.20188	0-1	1	0.0002
49	MyrSpi		Point	8/20/2014	08:23:31am	41.41350	-73.20187	0-1	2	0.0002
50	MyrSpi		Point	8/20/2014	08:26:28am	41.41304	-73.20155	0-1	1	0.0002
51	MyrSpi		Point	8/20/2014	09:37:24am	41.38920	-73.18671	0-1	2	0.0002
52	MyrSpi		Point	8/20/2014	09:38:10am	41.38921	-73.18656	0-1	2	0.0002
53	MyrSpi		Point	8/20/2014	09:39:46am	41.38951	-73.18624	0-1	2	0.0002
54	MyrSpi		Point	8/20/2014	09:45:13am	41.38980	-73.18359	1-3	1	0.0002
55	NajMin		Point	8/20/2014	09:59:49am	41.38487	-73.17890	0-1	4	0.0002
56	MyrSpi		Point	8/20/2014	10:03:11am	41.38454	-73.17824	0-2	2	0.0002
57	MyrSpi		Point	8/20/2014	12:23:47pm	41.41151	-73.19072	0-1	2	0.0002
58	PotCr		Point	6/2/2014	11:57:48am	41.41332	-73.20179	0-1	2	0.0002
59	PotCri		Point	6/2/2014	11:57:48am	41.41331	-73.20174	0-1	2	0.0002
60	PotCri		Point	6/2/2014	11:57:48am	41.42976	-73.23217	0-1	1	0.0002
61	PotCr		Point	6/2/2014	11:57:48am	41.41157	-73.19087	0-1	1	0.0002
62	PotCri		Point	6/2/2014	11:57:48am	41.42916	-73.24013	0-1	3	0.0002
63	PotCri		Point	6/2/2014	11:57:48am	41.42933	-73.24019	0-1	2	0.0002
64	PotCri		Point	6/2/2014	11:57:48am	41.42924	-73.24019	0-1	4	0.0002
65	PotCri		Point	6/2/2014	11:57:48am	41.42916	-73.24013	0-1	1	0.0002
66	PotCri		Point	6/2/2014	11:57:48am	41.42935	-73.24020	0-1	3	0.0002
67	PotCri		Point	6/2/2014	11:57:48am	41.43156	-73.24051	0-1	1	0.0002

Appendix Lake Zoar Invasive Plant Location Data (5 of 5)

FID	Invasive Plant		Type	Date	Time	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
	Name	Notes								
68	PotCri		Point	6/2/2014	11:57:48am	41.43900	-73.24286	0-1	2	0.0002
69	PotCri		Point	6/2/2014	11:57:48am	41.43908	-73.24293	1-3	3	0.0002
70	PotCri		Point	6/2/2014	11:57:48am	41.43953	-73.24320	0-1	2	0.0002
71	PotCri		Point	6/2/2014	11:57:48am	41.43938	-73.24329	1-3	2	0.0002
72	PotCri		Point	6/2/2014	11:57:48am	41.44037	-73.24721	0-1	1	0.0002
73	PotCri		Point	6/2/2014	11:57:48am	41.43929	-73.24916	0-1	2	0.0002
74	PotCri		Point	6/2/2014	11:57:48am	41.43923	-73.24909	0-1	1	0.0002
75	PotCri		Point	6/2/2014	11:57:48am	41.43984	-73.25177	1-3	1	0.0002
76	PotCri		Point	6/2/2014	11:57:48am	41.44207	-73.25582	1-3	1	0.0002
77	PotCri		Point	6/2/2014	11:57:48am	41.43911	-73.25095	0-1	3	0.0002
78	PotCri		Point	6/2/2014	11:57:48am	41.43556	-73.25496	0-1	2	0.0002
79	PotCri		Point	6/2/2014	11:57:48am	41.43530	-73.25531	0-1	2	0.0002
80	PotCri		Point	6/2/2014	11:57:48am	41.43527	-73.25543	0-1	2	0.0002
81	PotCri		Point	6/2/2014	11:57:48am	41.43508	-73.25576	0-1	2	0.0002
82	PotCri		Point	6/2/2014	11:57:48am	41.43513	-73.25567	0-1	2	0.0002
83	PotCri		Point	6/2/2014	11:57:48am	41.43517	-73.25564	0-1	2	0.0002
84	PotCri		Point	6/2/2014	11:57:48am	41.43521	-73.25553	0-1	2	0.0002
85	PotCri		Point	6/2/2014	11:57:48am	41.43525	-73.25545	0-1	2	0.0002
86	PotCri		Point	6/2/2014	11:57:48am	41.43529	-73.25538	0-1	2	0.0002
87	PotCri		Point	6/2/2014	11:57:48am	41.43496	-73.25599	0-1	3	0.0002
88	PotCri		Point	6/2/2014	11:57:48am	41.43477	-73.25636	0-1	4	0.0002
89	PotCri		Point	6/2/2014	11:57:48am	41.43461	-73.25672	0-1	2	0.0002
90	PotCri		Point	6/2/2014	11:57:48am	41.43437	-73.25741	0-1	4	0.0002
91	PotCri		Point	6/2/2014	11:57:48am	41.43624	-73.26430	1-3	2	0.0002
92	PotCri		Point	6/2/2014	11:57:48am	41.44508	-73.27046	0-1	2	0.0002
93	PotCri		Point	6/2/2014	11:57:48am	41.44500	-73.27030	0-1	3	0.0002
94	PotCri		Point	6/2/2014	11:57:48am	41.44494	-73.27027	0-1	1	0.0002
95	PotCri		Point	6/2/2014	11:57:48am	41.43493	-73.26474	0-1	1	0.0002
96	PotCri		Point	6/2/2014	11:57:48am	41.43769	-73.24379	0-1	1	0.0002
97	PotCri		Point	6/2/2014	11:57:48am	41.42937	-73.24439	0-1	1	0.0002
98	PotCri		Point	6/2/2014	12:38:25pm	41.44011	-73.24411	0-1	2	0.0002
99	PotCri		Point	6/2/2014	12:43:59pm	41.44018	-73.24422	0-1	3	0.0002
100	PotCri		Point	6/3/2014	01:04:25pm	41.42712	-73.23851	0-2	1	0.0002
101	MyrSpi	W/FID 61	Point	12/9/2014	11:25:28am	41.41156	-73.19086	0-1	2	0.0002
102	PotCri		Point	6/10/2014	12:16:51pm	41.43827	-73.26683	0-1	1	0.0002
103	MyrSpi		Point	6/10/2014	10:34:30am	41.44842	-73.27143	0-1	1	0.0002
104	MyrSpi		Point	6/10/2014	10:29:51am	41.44895	-73.27185	0-1	1	0.0002

Transect Data

Appendix Lake Candlewood Transect Data (1 of 3)

Transect	Point	Distance From Shore(m)	Surveyor	Latitude	Longitude	Date	Depth (m)	Substrate	Notes	CerDem	ElaSp	EleSp	MyrSpi	NajMin	NymOdo	PotFol	PotPer	StuPec	ValAme
1	1	0.5	Greg Bugbee	41.42374	-73.45248	9/2/2014	0.2	Muck		2	0	0	1	0	0	0	0	0	0
1	2	5	Greg Bugbee	41.42379	-73.45252	9/2/2014	0.2	Muck		2	0	0	1	2	0	0	0	0	0
1	3	10	Greg Bugbee	41.42384	-73.45253	9/2/2014	0.5	Sand		3	0	0	5	3	0	0	0	0	0
1	4	20	Greg Bugbee	41.42392	-73.45259	9/2/2014	0.7	Sand		3	0	0	5	4	0	0	0	0	0
1	5	30	Greg Bugbee	41.42401	-73.45262	9/2/2014	1.5	Muck		2	0	0	5	5	0	0	0	0	0
1	6	40	Greg Bugbee	41.42409	-73.45262	9/2/2014	1.8	Muck		0	0	0	5	0	0	0	0	0	0
1	7	50	Greg Bugbee	41.42419	-73.45267	9/2/2014	1.9	Muck		2	0	0	5	0	0	0	0	0	0
1	8	60	Greg Bugbee	41.42429	-73.45272	9/2/2014	1.9	Muck		2	0	0	4	2	0	0	0	0	0
1	9	70	Greg Bugbee	41.42436	-73.45277	9/2/2014	1.9	Muck		0	0	0	5	4	0	0	0	0	0
1	10	80	Greg Bugbee	41.42444	-73.4528	9/2/2014	1.9	Muck		1	0	0	4	3	0	0	0	0	0
2	1	0.5	Greg Bugbee	41.42762	-73.44926	9/2/2014	0.2	Sand		2	0	0	1	0	0	0	0	0	0
2	2	5	Greg Bugbee	41.42759	-73.44932	9/2/2014	0.5	Sand		2	0	0	4	2	0	0	0	0	0
2	3	10	Greg Bugbee	41.42757	-73.44937	9/2/2014	2.0	Muck		2	0	0	5	2	0	0	0	0	0
2	4	20	Greg Bugbee	41.42753	-73.44944	9/2/2014	3.2	Muck		4	0	0	3	0	0	0	0	0	0
2	5	30	Greg Bugbee	41.42745	-73.44959	9/2/2014	3.4	Muck		3	0	0	4	0	0	0	0	0	0
2	6	40	Greg Bugbee	41.42739	-73.4497	9/2/2014	2.1	Muck		0	0	0	3	1	0	0	0	0	0
2	7	50	Greg Bugbee	41.42738	-73.44978	9/2/2014	1.3	Muck		2	0	0	2	0	0	0	0	0	0
2	8	60	Greg Bugbee	41.42732	-73.4498	9/2/2014	2.9	Muck		2	0	0	4	0	0	0	0	0	0
2	9	70	Greg Bugbee	41.42728	-73.44999	9/2/2014	2.9	Muck		1	0	0	4	0	0	0	0	0	0
2	10	80	Greg Bugbee	41.42719	-73.45011	9/2/2014	3.0	Muck		1	0	0	4	0	0	0	0	0	0
3	1	0.5	Greg Bugbee	41.47027	-73.43534	9/2/2014	0.2	Sand		0	0	0	0	0	0	0	0	3	0
3	2	5	Greg Bugbee	41.47029	-73.43527	9/2/2014	0.8	Sand		0	0	0	2	2	0	0	0	4	0
3	3	10	Greg Bugbee	41.47028	-73.43521	9/2/2014	1.4	Sand		0	0	0	4	0	0	0	0	0	0
3	4	20	Greg Bugbee	41.47031	-73.4351	9/2/2014	5.2	Sand		0	0	0	1	0	0	0	0	0	0
3	5	30	Greg Bugbee	41.4703	-73.43499	9/2/2014	8.1	Sand		0	0	0	0	0	0	0	0	0	0
3	6	40	Greg Bugbee	41.47032	-73.43488	9/2/2014	9.0	Sand		0	0	0	0	0	0	0	0	0	0
3	7	50	Greg Bugbee	41.47032	-73.43476	9/2/2014	9.2	Sand		0	0	0	0	0	0	0	0	0	0
3	8	60	Greg Bugbee	41.47033	-73.43464	9/2/2014	9.2	Sand		0	0	0	0	0	0	0	0	0	0
3	9	70	Greg Bugbee	41.47036	-73.43453	9/2/2014	9.2	Sand		0	0	0	0	0	0	0	0	0	0
3	10	80	Greg Bugbee	41.47039	-73.43442	9/2/2014	9.2	Sand		0	0	0	0	0	0	0	0	0	0
4	1	0.5	Greg Bugbee	41.57124	-73.48835	9/5/2014	0.5	Muck		0	0	0	2	0	0	0	0	0	0
4	2	5	Greg Bugbee	41.5712	-73.48841	9/5/2014	0.5	Muck		0	0	0	2	0	0	0	0	0	0
4	3	10	Greg Bugbee	41.57112	-73.48838	9/5/2014	1.0	Muck		0	0	0	2	0	0	0	0	0	0
4	4	20	Greg Bugbee	41.57105	-73.48841	9/5/2014	2.0	Muck		0	0	0	5	0	2	0	0	0	0
4	5	30	Greg Bugbee	41.57097	-73.48849	9/5/2014	2.0	Muck		0	0	0	5	0	0	0	0	0	0

Appendix Lake Candlewood Transect Data (2 of 3)

Transect	Point	Distance From Shore(m)	Surveyor	Latitude	Longitude	Date	Depth (m)	Substrate	Notes	CerDem	ElaSp	EleSp	MyrSpi	NajMin	NymOdo	PotFol	PotPer	StuPec	VaiAme
4	6	40	Greg Bugbee	41.5709	-73.48854	9/5/2014	2.2	Silt		0	0	0	4	0	0	0	0	0	0
4	7	50	Greg Bugbee	41.57081	-73.48859	9/5/2014	2.3	Silt		0	0	0	3	0	0	0	0	0	0
4	8	60	Greg Bugbee	41.57073	-73.48865	9/5/2014	3.0	Silt		0	0	0	4	0	0	0	0	0	0
4	9	70	Greg Bugbee	41.57064	-73.48865	9/5/2014	3.5	Silt		0	0	0	2	0	0	0	0	0	0
4	10	80	Greg Bugbee	41.57055	-73.48871	9/5/2014	3.5	Silt		0	0	0	0	0	0	0	0	0	0
5	1	0.5	Greg Bugbee	41.50219	-73.45151	9/5/2014	0.2	Sand		0	0	0	0	3	0	0	0	0	0
5	2	5	Greg Bugbee	41.50216	-73.45157	9/5/2014	1.0	Sand		0	0	0	3	0	0	0	0	0	0
5	3	10	Greg Bugbee	41.50221	-73.45158	9/5/2014	1.3	Sand		0	0	0	3	2	0	0	0	0	0
5	4	20	Greg Bugbee	41.50221	-73.45175	9/5/2014	1.8	Silt		0	0	0	5	0	0	0	0	0	2
5	5	30	Greg Bugbee	41.50225	-73.45188	9/5/2014	2.4	Silt		0	0	0	4	0	0	0	0	0	0
5	6	40	Greg Bugbee	41.50228	-73.45198	9/5/2014	0.0	Silt		0	0	0	4	0	0	0	0	0	0
5	7	50	Greg Bugbee	41.50228	-73.45213	9/5/2014	3.7	Silt		0	0	0	2	0	0	0	0	0	0
5	8	60	Greg Bugbee	41.50219	-73.45226	9/5/2014	5.0	Silt		0	0	0	0	0	0	0	0	0	0
5	9	70	Greg Bugbee	41.50226	-73.45233	9/5/2014	5.8	Silt		0	0	0	0	0	0	0	0	0	0
5	10	80	Greg Bugbee	41.50221	-73.45253	9/5/2014	5.7	Silt		0	0	0	0	0	0	0	0	0	0
6	1	0.5	Greg Bugbee	41.51382	-73.4534	9/5/2014	0.2	Muck		0	0	0	2	0	0	0	0	0	0
6	2	5	Greg Bugbee	41.51389	-73.45341	9/5/2014	0.4	Muck		1	0	0	5	2	0	0	0	0	0
6	3	10	Greg Bugbee	41.51393	-73.45342	9/5/2014	1.0	Sand		2	0	0	5	0	0	0	0	0	0
6	4	20	Greg Bugbee	41.514	-73.45343	9/5/2014	1.5	Sand		0	0	0	5	0	0	0	0	0	0
6	5	30	Greg Bugbee	41.51407	-73.45346	9/5/2014	2.0	Sand		0	0	0	5	0	0	0	0	0	0
6	6	40	Greg Bugbee	41.51417	-73.4535	9/5/2014	2.1	Silt		0	0	0	4	0	0	0	0	0	0
6	7	50	Greg Bugbee	41.51431	-73.45348	9/5/2014	2.5	Silt		0	0	0	3	0	0	0	0	0	0
6	8	60	Greg Bugbee	41.51441	-73.45342	9/5/2014	3.5	Silt		0	0	0	0	0	0	0	0	0	0
6	9	70	Greg Bugbee	41.51447	-73.45349	9/5/2014	4.5	Silt		0	0	0	0	0	0	0	0	0	0
6	10	80	Greg Bugbee	41.51458	-73.45347	9/5/2014	0.0	Silt		0	0	0	0	0	0	0	0	0	0
7	1	0.5	Greg Bugbee	41.57151	-73.44273	9/11/2014	0.2	Rock		0	0	0	1	0	0	0	0	0	0
7	2	5	Greg Bugbee	41.57149	-73.4428	9/11/2014	1.0	Sand		0	0	0	3	3	0	0	0	0	0
7	3	10	Greg Bugbee	41.5715	-73.44288	9/11/2014	1.5	Sand		0	0	0	5	0	0	0	0	0	0
7	4	20	Greg Bugbee	41.57149	-73.443	9/11/2014	2.0	Silt		0	0	0	5	0	0	0	0	0	0
7	5	30	Greg Bugbee	41.57151	-73.44313	9/11/2014	3.1	Silt		0	0	0	5	0	0	0	0	0	0
7	6	40	Greg Bugbee	41.57146	-73.44319	9/11/2014	4.0	Silt		0	0	0	4	0	0	0	0	0	0
7	7	50	Greg Bugbee	41.57148	-73.44336	9/11/2014	5.0	Silt		0	0	0	0	0	0	0	0	0	0
7	8	60	Greg Bugbee	41.57149	-73.44344	9/11/2014	5.3	Silt		0	0	0	0	0	0	0	0	0	0
7	9	70	Greg Bugbee	41.57153	-73.44358	9/11/2014	6.0	Silt		0	0	0	0	0	0	0	0	0	0
7	10	80	Greg Bugbee	41.5715	-73.4437	9/11/2014	6.3	Silt		0	0	0	0	0	0	0	0	0	0

Appendix Lake Candlewood Transect Data (3 of 3)

Transect	Point	Distance From Shore(m)	Surveyor	Latitude	Longitude	Date	Depth (m)	Substrate	Notes	CerDem	ElaSp	EleSp	MyrSpi	NajMin	NymOdo	PotFol	PotPer	StuPec	VaiAme
8	1	0.5	Greg Bugbee	41.51292	-73.44112	9/11/2014	0.3	Sand		0	0	0	0	0	2	2	0	0	0
8	2	5	Greg Bugbee	41.51285	-73.44112	9/11/2014	1.5	Gravel		0	0	0	4	0	0	0	0	0	0
8	3	10	Greg Bugbee	41.51283	-73.44116	9/11/2014	1.5	Gravel		0	0	0	4	0	0	0	0	0	0
8	4	20	Greg Bugbee	41.51274	-73.44112	9/11/2014	2.5	Gravel		0	0	0	3	0	0	0	0	0	0
8	5	30	Greg Bugbee	41.51267	-73.44117	9/11/2014	2.6	Gravel		0	0	0	4	0	0	0	0	0	0
8	6	40	Greg Bugbee	41.51256	-73.44116	9/11/2014	3.0	Sand		0	0	0	4	0	0	0	0	0	0
8	7	50	Greg Bugbee	41.51243	-73.44115	9/11/2014	4.0	Silt		0	0	0	3	0	0	0	0	0	0
8	8	60	Greg Bugbee	41.51239	-73.4412	9/11/2014	4.0	Silt		0	0	0	3	0	0	0	0	0	0
8	9	70	Greg Bugbee	41.51233	-73.4412	9/11/2014	3.3	Silt		0	0	0	3	0	0	0	0	0	0
8	10	80	Greg Bugbee	41.51224	-73.44112	9/11/2014	6.0	Silt		0	0	0	0	0	0	0	0	0	0
9	1	0.5	Greg Bugbee	41.4805	-73.43462	9/2/2014	0.2	Sand		0	0	0	2	2	0	0	0	0	0
9	2	5	Greg Bugbee	41.48047	-73.43468	9/2/2014	0.5	Sand		0	2	2	3	5	0	0	2	0	0
9	3	10	Greg Bugbee	41.48048	-73.43475	9/2/2014	0.7	Muck		0	0	0	5	5	0	0	0	0	0
9	4	20	Greg Bugbee	41.48046	-73.43487	9/2/2014	1.3	Muck		0	0	0	5	2	0	0	0	0	0
9	5	30	Greg Bugbee	41.48043	-73.43495	9/2/2014	2.0	Muck		0	0	0	5	0	0	0	0	0	0
9	6	40	Greg Bugbee	41.48041	-73.43509	9/2/2014	2.2	Muck		0	0	0	5	0	0	0	0	0	0
9	7	50	Greg Bugbee	41.48037	-73.43518	9/2/2014	2.4	Muck		0	0	0	5	0	0	0	0	0	0
9	8	60	Greg Bugbee	41.48035	-73.43529	9/2/2014	2.2	Muck		1	0	0	4	0	0	0	0	0	0
9	9	70	Greg Bugbee	41.4803	-73.43542	9/2/2014	1.9	Muck		0	0	0	4	0	0	0	0	0	0
9	10	80	Greg Bugbee	41.48025	-73.43552	9/2/2014	1.3	Muck		0	0	0	5	3	0	0	0	0	0
10	1	0.5	Greg Bugbee	41.44732	-73.4295	9/11/2014	0.2	Sand		0	0	0	4	2	0	0	0	0	0
10	2	5	Greg Bugbee	41.44729	-73.42957	9/11/2014	1.0	Sand		0	0	0	5	2	0	0	0	0	2
10	3	10	Greg Bugbee	41.44728	-73.42962	9/11/2014	1.5	Silt		0	0	0	2	0	0	0	0	0	3
10	4	20	Greg Bugbee	41.44725	-73.42974	9/11/2014	1.8	Sand		0	0	0	2	2	0	0	0	0	3
10	5	30	Greg Bugbee	41.44716	-73.42981	9/11/2014	1.0	Muck		2	0	0	2	2	0	0	0	0	3
10	6	40	Greg Bugbee	41.44712	-73.42991	9/11/2014	0.5	Muck		2	0	0	5	0	0	0	0	0	2
10	7	50	Greg Bugbee	41.44708	-73.42997	9/11/2014	0.2	Muck		0	0	0	5	0	0	0	0	0	0

Appendix Lake Zoar Transect Data (1 of 3)

Transect	Point	Distance	Surveyor	Latitude	Longitude	Date	Depth	Substrate	CerDem	EioNut	MyrSpi	NajMin	PelVir	PotSp	PotCri	ValAme	ZanPal
		from shore					(m)										
1	1	0.5	Samantha Wysocki	41.42838	-73.23946	8/22/2014	0.20	Sand	0	0	0	0	0	0	0	0	0
1	2	5	Samantha Wysocki	41.4284	-73.2395	8/22/2014	0.30	Sand	0	0	0	0	0	0	0	0	0
1	3	10	Samantha Wysocki	41.42833	-73.23958	8/22/2014	0.50	Sand	0	0	1	0	0	0	0	1	0
1	4	20	Samantha Wysocki	41.42828	-73.23965	8/22/2014	1.80	Muck	3	0	1	0	0	0	0	2	0
1	5	30	Samantha Wysocki	41.4282	-73.23974	8/22/2014	2.30	Muck	4	0	0	0	0	0	0	0	0
1	6	40	Samantha Wysocki	41.42811	-73.23984	8/22/2014	3.60	Muck	0	0	0	0	0	0	0	0	0
1	7	50	Samantha Wysocki	41.42807	-73.23991	8/22/2014	3.80	Muck	0	0	0	0	0	0	0	0	0
1	8	60	Samantha Wysocki	41.42798	-73.24003	8/22/2014	4.20	Muck	0	0	0	0	0	0	0	0	0
1	9	70	Samantha Wysocki	41.428	-73.24015	8/22/2014	4.60	Muck	0	0	0	0	0	0	0	0	0
1	10	80	Samantha Wysocki	41.4279	-73.24025	8/22/2014	4.70	Muck	0	0	0	0	0	0	0	0	0
2	1	0.5	Samantha Wysocki	41.43693	-73.25125	8/22/2014	0.20	Gravel	0	0	0	0	0	0	0	0	0
2	2	5	Samantha Wysocki	41.43697	-73.25127	8/22/2014	1.00	Sand	0	0	0	1	0	0	0	4	2
2	3	10	Samantha Wysocki	41.43702	-73.2513	8/22/2014	2.20	Sand	0	0	0	0	0	0	0	4	2
2	4	20	Samantha Wysocki	41.43711	-73.25133	8/22/2014	5.20	Muck	0	0	0	0	0	0	0	0	0
2	5	30	Samantha Wysocki	41.43721	-73.25141	8/22/2014	5.40	Muck	0	0	0	0	0	0	0	0	0
2	6	40	Samantha Wysocki	41.43725	-73.25142	8/22/2014	5.70	Muck	0	0	0	0	0	0	0	0	0
2	7	50	Samantha Wysocki	41.43736	-73.25151	8/22/2014	6.30	Muck	0	0	0	0	0	0	0	0	0
2	8	60	Samantha Wysocki	41.43745	-73.25155	8/22/2014	6.20	Muck	0	0	0	0	0	0	0	0	0
2	9	70	Samantha Wysocki	41.43752	-73.25168	8/22/2014	6.30	Muck	0	0	0	0	0	0	0	0	0
2	10	80	Samantha Wysocki	41.43762	-73.25179	8/22/2014	6.20	Muck	0	0	0	0	0	0	0	0	0
3	1	0.5	Samantha Wysocki	41.43725	-73.26625	8/22/2014	0.50	Sand	0	0	0	0	0	0	0	0	0
3	2	5	Samantha Wysocki	41.4373	-73.26627	8/22/2014	1.00	Muck	0	0	0	0	0	0	0	4	0
3	3	10	Samantha Wysocki	41.43735	-73.26628	8/22/2014	1.00	Muck	0	0	1	0	0	0	0	3	0
3	4	20	Samantha Wysocki	41.43744	-73.26628	8/22/2014	0.80	Muck	0	0	2	0	0	0	0	0	0
3	5	30	Samantha Wysocki	41.43755	-73.26629	8/22/2014	0.70	Muck	0	0	3	0	0	0	0	0	0
3	6	40	Samantha Wysocki	41.43762	-73.26632	8/22/2014	0.70	Muck	0	0	3	0	0	0	0	0	0
3	7	50	Samantha Wysocki	41.43771	-73.26635	8/22/2014	0.60	Muck	0	0	2	0	0	0	2	2	0
3	8	60	Samantha Wysocki	41.43783	-73.26636	8/22/2014	1.20	Muck	0	0	0	0	0	0	0	0	0
3	9	70	Samantha Wysocki	41.43791	-73.26639	8/22/2014	1.00	Muck	0	0	3	0	0	0	0	3	0
3	10	80	Samantha Wysocki	41.43797	-73.26632	8/22/2014	2.70	Muck	0	0	0	0	0	0	0	0	0
4	1	0.5	Samantha Wysocki	41.45315	-73.28164	8/22/2014	0.50	Gravel	0	0	2	0	0	0	0	3	0
4	2	5	Samantha Wysocki	41.45312	-73.28164	8/22/2014	1.40	Muck	2	0	4	1	0	0	0	3	0
4	3	10	Samantha Wysocki	41.45307	-73.28161	8/22/2014	2.00	Muck	1	0	4	0	0	0	0	0	0
4	4	20	Samantha Wysocki	41.45298	-73.28153	8/22/2014	3.20	Muck	0	0	2	0	0	0	0	2	0
4	5	30	Samantha Wysocki	41.4529	-73.28146	8/22/2014	4.00	Muck	0	0	0	0	0	0	0	0	0

Appendix Lake Zoar Transect Data (2 of 3)

Transect	Point	Distance	Surveyor	Latitude	Longitude	Date	Depth	Substrate	CerDem	EloNut	MyrSpi	NajMin	PelVir	PotSp	PotCri	ValAme	ZanPal
		from shore					(m)										
4	6	40	Samantha Wysocki	41.45283	-73.28146	8/22/2014	4.00	Muck	0	0	0	0	0	0	0	0	0
4	7	50	Samantha Wysocki	41.45274	-73.28143	8/22/2014	4.00	Muck	0	0	0	0	0	0	0	0	0
4	8	60	Samantha Wysocki	41.45267	-73.28142	8/22/2014	4.00	Muck	0	0	0	0	0	0	0	0	0
4	9	70	Samantha Wysocki	41.45258	-73.28126	8/22/2014	3.70	Muck	0	0	0	0	0	0	0	0	0
4	10	80	Samantha Wysocki	41.4525	-73.28127	8/22/2014	3.40	Muck	0	0	0	0	0	0	0	0	0
5	1	0.5	Samantha Wysocki	41.43204	-73.22745	8/22/2014	0.20	Muck	0	0	0	0	0	0	0	0	0
5	2	5	Samantha Wysocki	41.432	-73.22744	8/22/2014	0.20	Muck	0	0	0	0	0	0	0	0	0
5	3	10	Samantha Wysocki	41.43194	-73.22744	8/22/2014	0.20	Muck	0	0	0	0	0	0	0	0	0
5	4	20	Samantha Wysocki	41.43186	-73.22742	8/22/2014	0.20	Muck	0	0	0	0	0	0	0	0	0
5	5	30	Samantha Wysocki	41.43175	-73.22747	8/22/2014	0.50	Muck	0	0	1	0	0	0	0	0	0
5	6	40	Samantha Wysocki	41.43164	-73.22748	8/22/2014	0.70	Muck	0	0	0	0	0	0	0	0	0
5	7	50	Samantha Wysocki	41.43156	-73.22755	8/22/2014	1.00	Muck	0	0	0	0	0	0	0	0	0
5	8	60	Samantha Wysocki	41.43149	-73.22756	8/22/2014	1.10	Muck	0	0	1	0	0	0	0	0	0
5	9	70	Samantha Wysocki	41.43142	-73.22758	8/22/2014	1.20	Muck	0	0	0	0	0	0	0	0	0
5	10	80	Samantha Wysocki	41.43132	-73.22759	8/22/2014	2.00	Muck	0	0	0	0	0	0	0	0	0
6	1	0.5	Samantha Wysocki	41.4248	-73.20617	8/22/2014	0.20	Sand	0	0	0	0	0	0	0	0	0
6	2	5	Samantha Wysocki	41.42473	-73.20619	8/22/2014	0.70	Muck	0	0	0	0	0	0	0	0	0
6	3	10	Samantha Wysocki	41.42468	-73.20622	8/22/2014	0.50	Muck	0	0	0	0	0	0	0	0	0
6	4	20	Samantha Wysocki	41.4246	-73.20624	8/22/2014	0.50	Muck	0	0	0	0	0	0	0	0	0
6	5	30	Samantha Wysocki	41.42452	-73.20628	8/22/2014	0.40	Muck	0	0	1	0	0	0	0	0	0
6	6	40	Samantha Wysocki	41.42443	-73.20628	8/22/2014	0.40	Muck	0	0	0	0	0	0	0	0	0
6	7	50	Samantha Wysocki	41.42435	-73.20629	8/22/2014	0.40	Muck	0	0	0	0	0	0	0	0	0
6	8	60	Samantha Wysocki	41.42422	-73.20631	8/22/2014	0.80	Muck	0	0	0	0	0	0	0	0	0
6	9	70	Samantha Wysocki	41.42412	-73.20634	8/22/2014	0.50	Muck	0	0	0	0	0	0	0	0	0
6	10	80	Samantha Wysocki	41.42405	-73.2064	8/22/2014	0.90	Muck	0	0	0	0	0	0	0	0	0
7	1	0.5	Samantha Wysocki	41.38211	-73.17533	8/28/2014	0.20	Muck	0	0	0	0	0	0	0	0	0
7	2	5	Samantha Wysocki	41.41266	-73.20183	8/28/2014	0.30	Sand	0	0	0	0	0	0	0	0	0
7	3	10	Samantha Wysocki	41.4126	-73.20174	8/28/2014	1.00	Sand	1	0	0	0	0	2	0	0	0
7	4	20	Samantha Wysocki	41.41266	-73.20183	8/28/2014	1.10	Sand	0	0	0	0	0	1	0	2	0
7	5	30	Samantha Wysocki	41.41266	-73.20183	8/28/2014	1.50	Sand	0	0	0	0	0	0	0	0	0
7	6	40	Samantha Wysocki	41.41282	-73.20134	8/28/2014	1.70	Sand	0	0	0	0	0	1	0	1	0
7	7	50	Samantha Wysocki	41.41288	-73.20127	8/28/2014	1.70	Muck	0	0	0	0	0	0	0	0	0
7	8	60	Samantha Wysocki	41.41291	-73.20115	8/28/2014	2.00	Muck	0	0	0	0	0	0	0	0	0
7	9	70	Samantha Wysocki	41.41299	-73.2011	8/28/2014	2.20	Muck	0	0	0	0	0	0	0	0	0
7	10	80	Samantha Wysocki	41.41308	-73.201	8/28/2014	2.70	Muck	0	0	0	0	0	0	0	0	0

Appendix Lake Zoar Transect Data (3 of 3)

Transect	Point	Distance	Surveyor	Latitude	Longitude	Date	Depth	Substrate	CerDem	EloNut	MyrSpī	NajMin	PelVir	PotSp	PotCri	ValAme	ZanPal
		from shore					(m)										
8	1	0.5	Samantha Wysocki	41.39844	-73.19047	8/22/2014	0.50	Gravel	0	0	0	0	0	0	0	0	0
8	2	5	Samantha Wysocki	41.39845	-73.19046	8/22/2014	0.90	Gravel	0	0	0	0	0	0	0	0	0
8	3	10	Samantha Wysocki	41.39847	-73.1904	8/22/2014	1.50	Muck	1	0	1	0	0	0	0	0	0
8	4	20	Samantha Wysocki	41.39849	-73.19028	8/22/2014	2.50	Muck	0	0	0	0	0	0	0	0	0
8	5	30	Samantha Wysocki	41.39846	-73.19016	8/22/2014	3.80	Muck	0	0	0	0	0	0	0	0	0
8	6	40	Samantha Wysocki	41.3984	-73.18998	8/22/2014	4.20	Muck	0	0	0	0	0	0	0	0	0
8	7	50	Samantha Wysocki	41.39838	-73.18989	8/22/2014	4.50	Muck	0	0	0	0	0	0	0	0	0
8	8	60	Samantha Wysocki	41.39836	-73.18974	8/22/2014	5.40	Muck	0	0	0	0	0	0	0	0	0
8	9	70	Samantha Wysocki	41.39837	-73.18962	8/22/2014	6.40	Muck	0	0	0	0	0	0	0	0	0
8	10	80	Samantha Wysocki	41.39835	-73.18948	8/22/2014	8.80	Muck	0	0	0	0	0	0	0	0	0
9	1	0.5	Samantha Wysocki	41.39186	-73.17437	8/22/2014	0.50	Sand	0	0	0	0	1	0	0	0	0
9	2	5	Samantha Wysocki	41.39184	-73.1744	8/22/2014	1.00	Sand	0	0	1	0	0	0	0	0	0
9	3	10	Samantha Wysocki	41.3918	-73.1744	8/22/2014	1.00	Sand	0	0	2	0	0	0	0	0	0
9	4	20	Samantha Wysocki	41.3917	-73.17442	8/22/2014	1.00	Muck	0	0	1	3	0	0	0	0	0
9	5	30	Samantha Wysocki	41.39161	-73.17444	8/22/2014	1.70	Muck	0	0	0	2	0	0	0	0	0
9	6	40	Samantha Wysocki	41.39153	-73.17459	8/22/2014	3.60	Muck	0	0	0	0	0	0	0	0	0
9	7	50	Samantha Wysocki	41.39144	-73.17455	8/22/2014	4.00	Muck	0	0	0	0	0	0	0	0	0
9	8	60	Samantha Wysocki	41.39136	-73.17464	8/22/2014	4.30	Muck	0	0	0	0	0	0	0	0	0
9	9	70	Samantha Wysocki	41.39118	-73.17469	8/22/2014	4.80	Muck	0	0	0	0	0	0	0	0	0
9	10	80	Samantha Wysocki	41.39116	-73.17468	8/22/2014	5.60	Muck	0	0	0	0	0	0	0	0	0
10	1	0.5	Samantha Wysocki	41.38143	-73.17518	8/28/2014	0.20	Organic	0	0	0	0	0	0	0	0	0
10	2	5	Samantha Wysocki	41.38147	-73.17519	8/28/2014	0.50	Sand	0	0	0	1	0	3	0	0	0
10	3	10	Samantha Wysocki	41.38153	-73.17518	8/28/2014	0.30	Muck	0	0	1	1	0	0	0	0	0
10	4	20	Samantha Wysocki	41.3816	-73.17523	8/28/2014	0.80	Sand	0	0	2	3	0	3	0	0	0
10	5	30	Samantha Wysocki	41.38169	-73.17525	8/28/2014	0.90	Muck	2	3	4	4	0	1	1	0	0
10	6	40	Samantha Wysocki	41.38179	-73.17527	8/28/2014	1.50	Muck	1	0	3	1	0	1	0	0	0
10	7	50	Samantha Wysocki	41.38188	-73.17537	8/28/2014	2.80	Muck	0	0	1	1	0	0	0	0	0
10	8	60	Samantha Wysocki	41.38193	-73.17535	8/28/2014	3.40	Muck	0	0	0	0	0	0	0	0	0
10	9	70	Samantha Wysocki	41.38202	-73.17533	8/28/2014	3.90	Muck	0	0	0	0	0	0	0	0	0
10	10	80	Samantha Wysocki	41.38211	-73.17533	8/28/2014	4.20	Muck	0	0	0	0	0	0	0	0	0

Appendix Lake Lillinoah Transect Data (1 of 3)

Transect	Point	Distance	Surveyor	Latitude	Longitude	Date	Depth	Substrate	CerDem	ElaSp	EleSp	EloNut	LudSp	MyrSpi	NajMin	PotCri	PotPus	SagSp	ZanPal
		From Shore (m)					(m)												
1	1	0.5	Samantha Wysocki	41.46632	-73.30126	8/8/2014	0.50	Gravel	0	0	0	0	0	0	0	0	0	0	0
1	2	5	Samantha Wysocki	41.46633	-73.30122	8/8/2014	3.20	Sand	0	0	0	0	0	0	0	0	0	0	0
1	3	10	Samantha Wysocki	41.46634	-73.30114	8/8/2014	4.90	Sand	0	0	0	0	0	0	0	0	0	0	0
1	4	20	Samantha Wysocki	41.46635	-73.30101	8/8/2014	9.30	Sand	0	0	0	0	0	0	0	0	0	0	0
1	5	30	Samantha Wysocki	41.46639	-73.30095	8/8/2014	10.70	Sand	0	0	0	0	0	0	0	0	0	0	0
1	6	40	Samantha Wysocki	41.46636	-73.30083	8/8/2014	11.10	Sand	0	0	0	0	0	0	0	0	0	0	0
1	7	50	Samantha Wysocki	41.46638	-73.30071	8/8/2014	11.40	Sand	0	0	0	0	0	0	0	0	0	0	0
1	8	60	Samantha Wysocki	41.46638	-73.30057	8/8/2014	11.70	Sand	0	0	0	0	0	0	0	0	0	0	0
1	9	70	Samantha Wysocki	41.4664	-73.30046	8/8/2014	12.80	Sand	0	0	0	0	0	0	0	0	0	0	0
1	10	80	Samantha Wysocki	41.46641	-73.30036	8/8/2014	14.10	Sand	0	0	0	0	0	0	0	0	0	0	0
2	1	0.5	Sara Benson	41.53867	-73.40568	8/7/2014	1.00	Bedrock	0	0	0	0	0	0	0	0	0	0	0
2	2	5	Sara Benson	41.53866	-73.40563	8/7/2014	1.80	Muck	1	0	0	0	0	2	1	0	0	0	0
2	3	10	Sara Benson	41.53864	-73.40558	8/7/2014	1.70	Muck	1	0	0	1	0	2	2	0	0	0	0
2	4	20	Sara Benson	41.53861	-73.40542	8/7/2014	1.00	Muck	1	0	0	0	0	4	2	0	0	0	0
2	5	30	Sara Benson	41.53859	-73.4053	8/7/2014	1.00	Muck	3	0	0	0	0	4	0	0	0	0	0
2	6	40	Sara Benson	41.5386	-73.40519	8/7/2014	1.00	Muck	1	0	0	0	0	3	2	3	0	0	2
2	7	50	Sara Benson	41.53854	-73.40508	8/7/2014	1.00	Muck	1	0	0	1	0	2	0	1	1	0	0
2	8	60	Sara Benson	41.53851	-73.40498	8/7/2014	1.00	Muck	0	0	0	0	0	2	0	0	0	0	1
2	9	70	Sara Benson	41.53847	-73.40483	8/7/2014	0.80	Muck	0	0	0	0	0	2	0	1	0	0	1
2	10	80	Sara Benson	41.53844	-73.4048	8/7/2014	0.80	Muck	3	0	0	0	0	2	1	0	0	0	0
3	1	0.5	Sara Benson	41.52331	-73.39893	8/7/2014	0.50	Bedrock	0	0	0	0	0	0	0	0	0	0	0
3	2	5	Sara Benson	41.52329	-73.39896	8/7/2014	1.20	Sand	0	0	0	0	0	0	0	0	0	0	0
3	3	10	Sara Benson	41.52326	-73.39903	8/7/2014	2.90	Sand	0	0	0	0	0	0	0	0	0	0	0
3	4	20	Sara Benson	41.5232	-73.39907	8/7/2014	3.20	Sand	0	0	0	0	0	0	0	0	0	0	0
3	5	30	Sara Benson	41.52311	-73.39921	8/7/2014	3.50	Sand	0	0	0	0	0	0	0	0	0	0	0
3	6	40	Sara Benson	41.52304	-73.39933	8/7/2014	2.90	Muck	0	0	0	0	0	0	0	0	0	0	0
3	7	50	Sara Benson	41.52299	-73.39937	8/7/2014	2.80	Muck	0	0	0	0	0	0	0	0	0	0	0
3	8	60	Sara Benson	41.52293	-73.39953	8/7/2014	2.50	Muck	0	0	0	0	0	2	0	0	0	0	0
3	9	70	Sara Benson	41.52287	-73.39963	8/7/2014	1.90	Muck	0	0	0	0	0	2	0	0	0	0	0
3	10	80	Sara Benson	41.52287	-73.39968	8/7/2014	2.20	Muck	0	0	0	0	0	3	0	0	0	0	0
4	1	0.5	Samantha Wysocki	41.4991	-73.3739	8/7/2014	0.20	Sand	0	0	0	0	0	0	2	0	0	0	0
4	2	5	Samantha Wysocki	41.49913	-73.37394	8/7/2014	0.20	Sand	0	0	0	0	0	0	0	0	0	0	0
4	3	10	Samantha Wysocki	41.49915	-73.37398	8/7/2014	0.30	Sand	0	0	0	0	0	0	1	0	0	0	0
4	4	20	Samantha Wysocki	41.49922	-73.37409	8/7/2014	1.00	Sand	0	0	0	0	0	0	4	0	0	0	0
4	5	30	Samantha Wysocki	41.49929	-73.37419	8/7/2014	2.10	Muck	0	0	0	0	0	1	5	0	0	0	0

Appendix Lake Lillionah Transect Data (2 of 3)

Transect	Point	Distance From Shore (m)	Surveyor	Latitude	Longitude	Date	Depth (m)	Substrate	CerDem	ElaSp	EleSp	EloNut	LudSp	MyrSpi	NajMin	PotCri	PotPus	SagSp	ZanPal
4	6	40	Samantha Wysocki	41.49932	-73.37431	8/7/2014	2.30	Muck	0	0	0	0	0	1	2	0	0	0	0
4	7	50	Samantha Wysocki	41.49935	-73.37443	8/7/2014	2.60	Muck	1	0	0	0	0	0	1	0	0	0	0
4	8	60	Samantha Wysocki	41.4994	-73.37451	8/7/2014	3.50	Muck	2	0	0	0	0	0	0	0	0	0	0
4	9	70	Samantha Wysocki	41.49947	-73.37461	8/7/2014	4.20	Muck	1	0	0	0	0	0	0	0	0	0	0
4	10	80	Samantha Wysocki	41.49955	-73.37468	8/7/2014	4.60	Muck	0	0	0	0	0	0	0	0	0	0	0
5	1	0.5	Samantha Wysocki	41.49688	-73.32766	8/8/2014	0.20	Sand	0	2	3	0	0	0	0	0	0	3	0
5	2	0.5	Samantha Wysocki	41.49683	-73.3276	8/8/2014	0.20	Sand	0	1	3	0	0	0	1	0	0	3	0
5	3	10	Samantha Wysocki	41.4968	-73.32756	8/8/2014	0.50	Sand	0	0	4	0	0	0	0	0	0	1	0
5	4	20	Samantha Wysocki	41.49675	-73.32745	8/8/2014	0.70	Sand	0	0	0	0	0	0	3	0	0	0	0
5	5	30	Samantha Wysocki	41.49671	-73.32735	8/8/2014	2.00	Muck	0	0	0	0	0	1	0	0	0	0	0
5	6	40	Samantha Wysocki	41.49667	-73.32726	8/8/2014	3.40	Muck	0	0	0	0	0	0	0	0	0	0	0
5	7	50	Samantha Wysocki	41.49658	-73.32717	8/8/2014	3.90	Muck	0	0	0	0	0	0	0	0	0	0	0
5	8	60	Samantha Wysocki	41.4966	-73.327	8/8/2014	3.70	Sand	0	0	0	0	0	0	0	0	0	0	0
5	9	70	Samantha Wysocki	41.49653	-73.32695	8/8/2014	4.00	Sand	0	0	0	0	0	0	0	0	0	0	0
5	10	80	Samantha Wysocki	41.49646	-73.32685	8/8/2014	4.20	Sand	0	0	0	0	0	0	0	0	0	0	0
6	1	0.5	Samantha Wysocki	41.48406	-73.32409	8/8/2014	0.30	Gravel	0	0	0	0	0	0	0	0	0	0	0
6	2	5	Samantha Wysocki	41.48401	-73.32409	8/8/2014	1.60	Sand	0	0	0	0	0	0	2	0	0	0	0
6	3	10	Samantha Wysocki	41.48398	-73.32408	8/8/2014	2.60	Sand	0	0	0	0	0	0	1	0	0	0	0
6	4	20	Samantha Wysocki	41.48389	-73.32404	8/8/2014	6.40	Sand	0	0	0	0	0	0	0	0	0	0	0
6	5	30	Samantha Wysocki	41.48381	-73.32398	8/8/2014	8.00	Sand	0	0	0	0	0	0	0	0	0	0	0
6	6	40	Samantha Wysocki	41.4837	-73.32392	8/8/2014	8.80	Sand	0	0	0	0	0	0	0	0	0	0	0
6	7	50	Samantha Wysocki	41.48361	-73.32391	8/8/2014	10.00	Sand	0	0	0	0	0	0	0	0	0	0	0
6	8	60	Samantha Wysocki	41.48352	-73.32386	8/8/2014	11.20	Silt	0	0	0	0	0	0	0	0	0	0	0
6	9	70	Samantha Wysocki	41.48344	-73.32381	8/8/2014	12.20	Sand	0	0	0	0	0	0	0	0	0	0	0
6	10	80	Samantha Wysocki	41.48336	-73.32377	8/8/2014	13.10	Sand	0	0	0	0	0	0	0	0	0	0	0
7	1	0.5	Sara Benson	41.4724	-73.31405	8/8/2014	0.20	Gravel	0	0	0	0	0	0	0	0	0	0	0
7	2	5	Sara Benson	41.4724	-73.31399	8/8/2014	1.70	Gravel	0	0	0	0	0	0	0	0	0	0	0
7	3	10	Sara Benson	41.47238	-73.3139	8/8/2014	2.80	Gravel	0	0	0	0	0	2	0	0	0	0	0
7	4	20	Sara Benson	41.47233	-73.31381	8/8/2014	4.10	Sand	0	0	0	0	0	0	0	0	0	0	0
7	5	30	Sara Benson	41.47229	-73.3137	8/8/2014	5.40	Sand	0	0	0	0	0	0	0	0	0	0	0
7	6	40	Sara Benson	41.47221	-73.31359	8/8/2014	6.70	Sand	0	0	0	0	0	0	0	0	0	0	0
7	7	50	Sara Benson	41.47216	-73.31353	8/8/2014	7.20	Sand	0	0	0	0	0	0	0	0	0	0	0
7	8	60	Sara Benson	41.4721	-73.31341	8/8/2014	7.40	Sand	0	0	0	0	0	0	0	0	0	0	0
7	9	70	Sara Benson	41.47206	-73.31331	8/8/2014	7.40	Sand	0	0	0	0	0	0	0	0	0	0	0
7	10	80	Sara Benson	41.472	-73.31323	8/8/2014	7.60	Sand	0	0	0	0	0	0	0	0	0	0	0

Appendix Lake Lillionah Transect Data (3 of 3)

Transect	Point	Distance	Surveyor	Latitude	Longitude	Date	Depth	Substrate	CerDem	ElaSp	EleSp	EioNut	LudSp	MyrSpi	NajMin	PotCri	PotPus	SagSp	ZanPal
		From					(m)												
8	1	0.5	Sara Benson	41.44801	-73.30359	8/8/2014	0.20	Gravel	0	0	0	0	0	0	0	0	0	0	0
8	2	5	Sara Benson	41.44798	-73.30359	8/8/2014	0.60	Gravel	0	0	0	0	0	0	0	0	0	0	0
8	3	10	Samantha Wysocki	41.44793	-73.30361	8/8/2014	2.00	Sand	0	0	0	0	0	1	3	0	0	0	0
8	4	20	Samantha Wysocki	41.44784	-73.30363	8/8/2014	5.20	Sand	0	0	0	0	0	0	0	0	0	0	0
8	5	30	Samantha Wysocki	41.44773	-73.30365	8/8/2014	8.40	Sand	0	0	0	0	0	0	0	0	0	0	0
8	6	40	Samantha Wysocki	41.44764	-73.30367	8/8/2014	10.80	Sand	0	0	0	0	0	0	0	0	0	0	0
8	7	50	Samantha Wysocki	41.44755	-73.30372	8/8/2014	13.60	Sand	0	0	0	0	0	0	0	0	0	0	0
8	8	60	Samantha Wysocki	41.44746	-73.30373	8/8/2014	15.10	Sand	0	0	0	0	0	0	0	0	0	0	0
8	9	70	Samantha Wysocki	41.44737	-73.30375	8/8/2014	14.40	Sand	0	0	0	0	0	0	0	0	0	0	0
8	10	80	Samantha Wysocki	41.44728	-73.30372	8/8/2014	14.60	Sand	0	0	0	0	0	0	0	0	0	0	0
9	1	0.5	Samantha Wysocki	41.51013	-73.32031	8/8/2014	0.20	Gravel	0	0	0	0	1	0	0	0	0	2	0
9	2	5	Samantha Wysocki	41.51007	-73.32031	8/8/2014	0.90	Sand	0	0	0	0	0	1	2	0	0	0	0
9	3	10	Samantha Wysocki	41.51002	-73.32026	8/8/2014	0.90	Sand	0	0	0	0	0	0	0	0	0	0	0
9	4	20	Samantha Wysocki	41.50995	-73.32019	8/8/2014	1.20	Sand	0	0	0	0	0	0	0	0	0	0	0
9	5	30	Samantha Wysocki	41.50986	-73.32015	8/8/2014	1.70	Muck	0	0	0	0	0	0	0	0	0	0	0
9	6	40	Samantha Wysocki	41.50978	-73.32009	8/8/2014	1.20	Muck	0	0	0	0	0	0	0	0	0	0	0
9	7	50	Samantha Wysocki	41.50968	-73.32004	8/8/2014	2.70	Muck	0	0	0	0	0	0	0	0	0	0	0
9	8	60	Samantha Wysocki	41.50953	-73.32	8/8/2014	3.60	Muck	0	0	0	0	0	0	0	0	0	0	0
9	9	70	Samantha Wysocki	41.50954	-73.31999	8/8/2014	3.50	Muck	0	0	0	0	0	0	0	0	0	0	0
9	10	80	Samantha Wysocki	41.50946	-73.3199	8/8/2014	3.40	Muck	0	0	0	0	0	0	0	0	0	0	0
10	1	0.5	Sara Benson	41.49053	-73.38153	8/7/2014	0.10	Gravel	0	0	3	0	0	0	1	0	0	0	0
10	2	5	Sara Benson	41.49059	-73.38153	8/7/2014	0.70	Gravel	0	0	0	0	0	0	3	0	0	0	0
10	3	10	Sara Benson	41.49061	-73.38153	8/7/2014	1.00	Gravel	0	0	0	0	0	0	3	0	0	0	0
10	4	20	Sara Benson	41.49072	-73.38154	8/7/2014	1.70	Sand	0	0	0	0	0	2	5	0	0	0	0
10	5	30	Sara Benson	41.4908	-73.3816	8/7/2014	2.30	Sand	0	0	0	0	0	3	0	0	0	0	0
10	6	40	Sara Benson	41.49089	-73.38164	8/7/2014	2.40	Sand	0	0	0	0	0	3	0	0	0	0	0
10	7	50	Sara Benson	41.49099	-73.38165	8/7/2014	2.50	Sand	0	0	0	0	0	2	0	0	0	0	0
10	8	60	Sara Benson	41.49108	-73.38168	8/7/2014	2.40	Sand	0	0	0	0	0	2	0	0	0	0	0
10	9	70	Sara Benson	41.49116	-73.38169	8/7/2014	2.80	Sand	0	0	0	0	0	2	0	0	0	0	0
10	10	80	Sara Benson	41.49127	-73.38172	8/7/2014	2.70	Sand	0	0	0	0	0	2	0	0	0	0	0

Water Intake Location Data

Appendix Lake Candlewood Water Intake Points (1 of 7)

FID	Surveyor	Type	Notes	Date	Time	Latitude	Longitude
1	Greg Bugbee	Water Intake		7/30/2014	01:27:35pm	41.44223	-73.45193
2	Greg Bugbee	Water Intake		7/30/2014	02:03:22pm	41.43884	-73.45375
3	Greg Bugbee	Water Intake		7/30/2014	02:04:27pm	41.43901	-73.45328
4	Greg Bugbee	Water Intake		7/30/2014	02:11:51pm	41.43865	-73.4544
5	Greg Bugbee	Water Intake		7/30/2014	02:24:00pm	41.43239	-73.45378
6	Greg Bugbee	Water Intake		8/1/2014	12:41:38pm	41.46448	-73.46209
7	Greg Bugbee	Water Intake		8/8/2014	12:26:21pm	41.46916	-73.45892
8	Greg Bugbee	Water Intake		8/8/2014	12:41:39pm	41.47569	-73.46162
9	Greg Bugbee	Water Intake		8/8/2014	12:57:48pm	41.47865	-73.46113
10	Greg Bugbee	Water Intake		8/8/2014	12:58:23pm	41.4768	-73.46125
11	Greg Bugbee	Water Intake		8/8/2014	12:59:05pm	41.47709	-73.46138
12	Greg Bugbee	Water Intake		8/8/2014	12:59:51pm	41.47749	-73.46147
13	Greg Bugbee	Water Intake		8/8/2014	01:01:08pm	41.47809	-73.46167
14	Greg Bugbee	Water Intake		8/8/2014	01:02:05pm	41.47844	-73.46181
15	Greg Bugbee	Water Intake		8/8/2014	01:03:04pm	41.47889	-73.46203
16	Greg Bugbee	Water Intake		8/8/2014	01:05:30pm	41.47969	-73.46259
17	Greg Bugbee	Water Intake		8/8/2014	01:37:12pm	41.4801	-73.46221
18	Greg Bugbee	Water Intake		8/8/2014	01:39:48pm	41.48122	-73.46202
19	Greg Bugbee	Water Intake		8/8/2014	01:40:43pm	41.48146	-73.46182
20	Greg Bugbee	Water Intake		8/8/2014	01:41:08pm	41.48147	-73.46185
21	Greg Bugbee	Water Intake		8/8/2014	01:43:10pm	41.48203	-73.46154
22	Greg Bugbee	Water Intake		8/8/2014	01:44:04pm	41.48265	-73.46131
23	Greg Bugbee	Water Intake		8/8/2014	01:44:40pm	41.483	-73.46124
24	Greg Bugbee	Water Intake		8/8/2014	01:47:19pm	41.48406	-73.4603
25	Greg Bugbee	Water Intake		8/8/2014	02:07:55pm	41.47927	-73.45638
26	Greg Bugbee	Water Intake		8/8/2014	02:08:40pm	41.47886	-73.45593
27	Greg Bugbee	Water Intake		8/8/2014	02:15:26pm	41.47762	-73.45532
28	Greg Bugbee	Water Intake		8/8/2014	02:16:07pm	41.47717	-73.45516
29	Greg Bugbee	Water Intake		8/8/2014	02:16:54pm	41.47865	-73.45493
30	Greg Bugbee	Water Intake	two here	8/12/2014	10:05:30am	41.47423	-73.45317
31	Greg Bugbee	Water Intake		8/12/2014	10:07:01am	41.47383	-73.45322
32	Greg Bugbee	Water Intake		8/12/2014	10:19:17am	41.47166	-73.45161
33	Greg Bugbee	Water Intake		8/12/2014	10:19:49am	41.47157	-73.45156
34	Greg Bugbee	Water Intake		8/12/2014	10:20:29am	41.47124	-73.45125
35	Greg Bugbee	Water Intake		8/12/2014	10:27:01am	41.46944	-73.4505
36	Greg Bugbee	Water Intake		8/12/2014	10:37:55am	41.46885	-73.45028
37	Greg Bugbee	Water Intake		8/12/2014	10:38:30am	41.46875	-73.45008

Appendix Lake Candlewood Water Intake Points (2 of 7)

FID	Surveyor	Type	Notes	Date	Time	Latitude	Longitude
38	Greg Bugbee	Water Intake		8/12/2014	10:40:02am	41.46798	-73.45011
39	Greg Bugbee	Water Intake		8/12/2014	10:40:26am	41.4676	-73.45001
40	Greg Bugbee	Water Intake		8/12/2014	10:41:00am	41.46736	-73.44982
41	Greg Bugbee	Water Intake		8/12/2014	10:41:44am	41.46713	-73.44965
42	Greg Bugbee	Water Intake		8/12/2014	10:43:28am	41.46609	-73.44935
43	Greg Bugbee	Water Intake		8/12/2014	11:02:22am	41.46546	-73.44842
44	Greg Bugbee	Water Intake		8/12/2014	11:04:35am	41.46513	-73.44752
45	Greg Bugbee	Water Intake		8/12/2014	11:04:57am	41.46511	-73.44751
46	Greg Bugbee	Water Intake		8/12/2014	11:17:08am	41.46347	-73.44681
47	Greg Bugbee	Water Intake		8/12/2014	11:18:06am	41.46311	-73.44649
48	Greg Bugbee	Water Intake		8/12/2014	11:35:17am	41.46227	-73.44542
49	Greg Bugbee	Water Intake		8/12/2014	11:40:11am	41.46407	-73.44567
50	Greg Bugbee	Water Intake		8/12/2014	11:43:37am	41.46523	-73.44595
51	Greg Bugbee	Water Intake		8/12/2014	11:44:20am	41.46593	-73.4461
52	Greg Bugbee	Water Intake		8/12/2014	11:55:09am	41.4671	-73.44643
53	Greg Bugbee	Water Intake		8/12/2014	11:56:11am	41.46797	-73.44685
54	Greg Bugbee	Water Intake		8/12/2014	11:56:48am	41.46812	-73.44709
55	Greg Bugbee	Water Intake		8/12/2014	11:57:28am	41.46839	-73.44736
56	Greg Bugbee	Water Intake		8/12/2014	11:58:00am	41.46861	-73.44769
57	Greg Bugbee	Water Intake		8/12/2014	11:58:36am	41.4689	-73.44805
58	Greg Bugbee	Water Intake		8/12/2014	11:59:13am	41.46915	-73.44844
59	Greg Bugbee	Water Intake		8/12/2014	12:00:53pm	41.47028	-73.44944
60	Greg Bugbee	Water Intake		8/12/2014	12:06:04pm	41.47229	-73.4502
61	Greg Bugbee	Water Intake		8/12/2014	12:06:33pm	41.47268	-73.45044
62	Greg Bugbee	Water Intake		8/12/2014	12:06:57pm	41.47268	-73.45041
63	Greg Bugbee	Water Intake		8/12/2014	12:07:44pm	41.4731	-73.45073
64	Greg Bugbee	Water Intake		8/12/2014	12:08:40pm	41.47377	-73.451
65	Greg Bugbee	Water Intake		8/12/2014	12:11:22pm	41.47691	-73.4515
66	Greg Bugbee	Water Intake		8/12/2014	12:19:09pm	41.48677	-73.45261
67	Greg Bugbee	Water Intake		8/12/2014	12:19:43pm	41.48667	-73.45263
68	Greg Bugbee	Water Intake		8/12/2014	12:20:45pm	41.48729	-73.45291
69	Greg Bugbee	Water Intake		8/12/2014	12:22:43pm	41.48986	-73.45308
70	Greg Bugbee	Water Intake		8/12/2014	12:31:02pm	41.49058	-73.45364
71	Greg Bugbee	Water Intake		8/12/2014	12:32:10pm	41.49133	-73.4544
72	Greg Bugbee	Water Intake		8/12/2014	12:32:48pm	41.49162	-73.45467
73	Greg Bugbee	Water Intake		8/12/2014	12:33:46pm	41.49182	-73.45555
74	Greg Bugbee	Water Intake		8/12/2014	12:34:29pm	41.4919	-73.45573

Appendix Lake Candlewood Water Intake Points (3 of 7)

FID	Surveyor	Type	Notes	Date	Time	Latitude	Longitude
75	Greg Bugbee	Water Intake		8/12/2014	12:35:14pm	41.49215	-73.4561
76	Greg Bugbee	Water Intake		8/12/2014	12:35:51pm	41.49232	-73.45639
77	Greg Bugbee	Water Intake		8/12/2014	12:50:22pm	41.49136	-73.45837
78	Greg Bugbee	Water Intake		8/12/2014	12:50:42pm	41.49134	-73.4584
79	Greg Bugbee	Water Intake		8/12/2014	12:51:36pm	41.49108	-73.45844
80	Greg Bugbee	Water Intake		8/12/2014	12:52:43pm	41.49069	-73.45842
81	Greg Bugbee	Water Intake		8/12/2014	01:31:29pm	41.49019	-73.45837
82	Greg Bugbee	Water Intake		8/12/2014	01:31:54pm	41.4901	-73.45838
83	Greg Bugbee	Water Intake		8/12/2014	01:32:40pm	41.48957	-73.45848
84	Greg Bugbee	Water Intake		8/12/2014	01:33:04pm	41.48945	-73.45849
85	Greg Bugbee	Water Intake		8/12/2014	01:33:35pm	41.48917	-73.4587
86	Greg Bugbee	Water Intake		8/12/2014	01:34:12pm	41.48901	-73.45892
87	Greg Bugbee	Water Intake		8/12/2014	01:35:08pm	41.48826	-73.45931
88	Greg Bugbee	Water Intake		8/12/2014	01:35:49pm	41.48781	-73.45931
89	Greg Bugbee	Water Intake		8/12/2014	01:36:20pm	41.48752	-73.45917
90	Greg Bugbee	Water Intake		8/12/2014	01:37:10pm	41.48702	-73.45918
91	Greg Bugbee	Water Intake		8/12/2014	01:38:11pm	41.48632	-73.45911
92	Greg Bugbee	Water Intake		8/12/2014	01:46:04pm	41.48725	-73.46207
93	Greg Bugbee	Water Intake		8/12/2014	01:48:19pm	41.4878	-73.4637
94	Greg Bugbee	Water Intake		8/12/2014	01:49:32pm	41.4883	-73.46412
95	Greg Bugbee	Water Intake		8/12/2014	01:50:06pm	41.48856	-73.46427
96	Greg Bugbee	Water Intake		8/14/2014	10:15:11am	41.49827	-73.46811
97	Greg Bugbee	Water Intake		8/14/2014	10:17:20am	41.49726	-73.46818
98	Greg Bugbee	Water Intake		8/14/2014	10:18:21am	41.49653	-73.46781
99	Greg Bugbee	Water Intake		8/14/2014	10:19:23am	41.49584	-73.46695
100	Greg Bugbee	Water Intake		8/14/2014	10:19:33am	41.49584	-73.46683
101	Greg Bugbee	Water Intake		8/14/2014	10:20:50am	41.49576	-73.46621
102	Greg Bugbee	Water Intake		8/14/2014	10:26:26am	41.49853	-73.46358
103	Greg Bugbee	Water Intake		8/14/2014	10:26:50am	41.49863	-73.46364
104	Greg Bugbee	Water Intake		8/14/2014	10:28:35am	41.49928	-73.46384
105	Greg Bugbee	Water Intake		8/14/2014	10:29:46am	41.4998	-73.46392
106	Greg Bugbee	Water Intake		8/14/2014	10:30:34am	41.50009	-73.46413
107	Greg Bugbee	Water Intake		8/14/2014	10:33:02am	41.50262	-73.46503
108	Greg Bugbee	Water Intake		8/14/2014	10:33:58am	41.503	-73.46522
109	Greg Bugbee	Water Intake		8/14/2014	10:34:36am	41.5033	-73.46538
110	Greg Bugbee	Water Intake		8/14/2014	10:36:06am	41.50475	-73.46603
111	Greg Bugbee	Water Intake		8/14/2014	10:37:26am	41.5059	-73.46678

Appendix Lake Candlewood Water Intake Points (4 of 7)

FID	Surveyor	Type	Notes	Date	Time	Latitude	Longitude
112	Greg Bugbee	Water Intake		8/14/2014	10:38:37am	41.50667	-73.46751
113	Greg Bugbee	Water Intake		8/14/2014	11:02:24am	41.50838	-73.46642
114	Greg Bugbee	Water Intake		8/14/2014	11:11:55am	41.50672	-73.46463
115	Greg Bugbee	Water Intake		8/14/2014	11:13:28am	41.50583	-73.46369
116	Greg Bugbee	Water Intake		8/14/2014	11:14:05am	41.50568	-73.46355
117	Greg Bugbee	Water Intake		8/14/2014	11:19:21am	41.50513	-73.46268
118	Greg Bugbee	Water Intake		8/14/2014	11:19:48am	41.50492	-73.46261
119	Greg Bugbee	Water Intake		8/14/2014	11:20:55am	41.50473	-73.46252
120	Greg Bugbee	Water Intake		8/14/2014	11:42:07am	41.50338	-73.46048
121	Greg Bugbee	Water Intake		8/14/2014	11:43:31am	41.50419	-73.46032
122	Greg Bugbee	Water Intake		8/14/2014	11:44:43am	41.50515	-73.46054
123	Greg Bugbee	Water Intake		8/14/2014	11:45:17am	41.50553	-73.46057
124	Greg Bugbee	Water Intake		8/14/2014	11:55:25am	41.50792	-73.46051
125	Greg Bugbee	Water Intake		8/14/2014	11:56:46am	41.50887	-73.46084
126	Greg Bugbee	Water Intake		8/14/2014	11:57:11am	41.50894	-73.46093
127	Greg Bugbee	Water Intake		8/14/2014	11:58:05am	41.50936	-73.46128
128	Greg Bugbee	Water Intake		8/14/2014	11:59:04am	41.50978	-73.4617
129	Greg Bugbee	Water Intake		8/14/2014	12:01:50pm	41.51199	-73.46277
130	Greg Bugbee	Water Intake		8/14/2014	12:02:21pm	41.51216	-73.46278
131	Greg Bugbee	Water Intake		8/14/2014	01:08:52pm	41.52189	-73.46532
132	Greg Bugbee	Water Intake		8/14/2014	01:10:05pm	41.52258	-73.46418
133	Greg Bugbee	Water Intake		8/14/2014	01:15:52pm	41.52151	-73.46325
134	Greg Bugbee	Water Intake		8/15/2014	12:59:49pm	41.47436	-73.44388
135	Greg Bugbee	Water Intake		8/15/2014	01:02:04pm	41.47359	-73.44336
136	Greg Bugbee	Water Intake		8/15/2014	01:02:55pm	41.47334	-73.44333
137	Greg Bugbee	Water Intake		8/15/2014	01:03:27pm	41.4731	-73.44333
138	Greg Bugbee	Water Intake		8/15/2014	01:04:47pm	41.47202	-73.44289
139	Greg Bugbee	Water Intake		8/15/2014	01:06:53pm	41.47032	-73.44137
140	Greg Bugbee	Water Intake		8/15/2014	01:07:26pm	41.47034	-73.44101
141	Greg Bugbee	Water Intake		8/15/2014	01:08:22pm	41.4702	-73.44052
142	Greg Bugbee	Water Intake		8/15/2014	01:09:26pm	41.46981	-73.44013
143	Greg Bugbee	Water Intake		8/15/2014	01:09:32pm	41.4698	-73.44013
144	Greg Bugbee	Water Intake		8/15/2014	01:10:00pm	41.46959	-73.44012
145	Greg Bugbee	Water Intake		8/15/2014	01:11:20pm	41.46867	-73.43965
146	Greg Bugbee	Water Intake		8/15/2014	01:11:58pm	41.46848	-73.43957
147	Greg Bugbee	Water Intake		8/15/2014	01:12:56pm	41.46764	-73.43879
148	Greg Bugbee	Water Intake		8/15/2014	01:13:10pm	41.46763	-73.43874

Appendix Lake Candlewood Water Intake Points (5 of 7)

FID	Surveyor	Type	Notes	Date	Time	Latitude	Longitude
149	Greg Bugbee	Water Intake		8/15/2014	01:13:48pm	41.46747	-73.43888
150	Greg Bugbee	Water Intake		8/15/2014	01:14:08pm	41.46739	-73.43859
151	Greg Bugbee	Water Intake		8/15/2014	01:14:28pm	41.46711	-73.43843
152	Greg Bugbee	Water Intake		8/15/2014	01:15:34pm	41.46622	-73.4379
153	Greg Bugbee	Water Intake		8/15/2014	01:18:09pm	41.46539	-73.43722
154	Greg Bugbee	Water Intake		8/15/2014	01:19:32pm	41.46655	-73.43548
155	Greg Bugbee	Water Intake		8/15/2014	01:20:00pm	41.46696	-73.43545
156	Greg Bugbee	Water Intake		8/15/2014	01:20:26pm	41.46718	-73.43511
157	Greg Bugbee	Water Intake		8/15/2014	01:21:03pm	41.46787	-73.43492
158	Greg Bugbee	Water Intake		8/15/2014	01:22:54pm	41.46919	-73.4348
159	Greg Bugbee	Water Intake		8/15/2014	01:25:16pm	41.47119	-73.43575
160	Greg Bugbee	Water Intake		8/15/2014	01:27:33pm	41.47186	-73.43651
161	Greg Bugbee	Water Intake		8/15/2014	01:28:30pm	41.472	-73.43662
162	Greg Bugbee	Water Intake		8/15/2014	01:36:27pm	41.47194	-73.43309
163	Greg Bugbee	Water Intake		8/15/2014	01:36:58pm	41.47166	-73.43307
164	Greg Bugbee	Water Intake		8/15/2014	01:37:15pm	41.47141	-73.43289
165	Greg Bugbee	Water Intake		8/15/2014	01:46:50pm	41.46431	-73.42426
166	Greg Bugbee	Water Intake		8/15/2014	01:47:55pm	41.46411	-73.42461
167	Greg Bugbee	Water Intake		8/15/2014	01:52:31pm	41.46274	-73.42768
168	Greg Bugbee	Water Intake		8/15/2014	01:52:37pm	41.46262	-73.42764
169	Greg Bugbee	Water Intake		8/15/2014	01:53:43pm	41.46126	-73.42808
170	Greg Bugbee	Water Intake		8/15/2014	01:54:32pm	41.46061	-73.42805
171	Greg Bugbee	Water Intake		8/15/2014	01:57:00pm	41.45958	-73.42849
172	Greg Bugbee	Water Intake		8/15/2014	01:58:12pm	41.46002	-73.42899
173	Greg Bugbee	Water Intake		8/15/2014	01:59:02pm	41.46045	-73.42944
174	Greg Bugbee	Water Intake		8/15/2014	02:01:52pm	41.46197	-73.43328
175	Greg Bugbee	Water Intake		8/15/2014	02:02:38pm	41.46181	-73.434
176	Greg Bugbee	Water Intake		8/15/2014	02:09:10pm	41.45885	-73.43529
177	Greg Bugbee	Water Intake		8/15/2014	02:26:27pm	41.4566	-73.43406
178	Greg Bugbee	Water Intake		8/15/2014	02:27:29pm	41.45625	-73.43399
179	Greg Bugbee	Water Intake		8/15/2014	02:28:36pm	41.4551	-73.43361
180	Greg Bugbee	Water Intake		8/15/2014	02:29:41pm	41.45416	-73.43304
181	Greg Bugbee	Water Intake		8/19/2014	09:51:07am	41.4752	-73.44404
182	Greg Bugbee	Water Intake		8/19/2014	09:51:52am	41.47538	-73.44413
183	Greg Bugbee	Water Intake		8/19/2014	09:52:28am	41.47558	-73.44419
184	Greg Bugbee	Water Intake		8/19/2014	09:53:14am	41.47621	-73.44422
185	Greg Bugbee	Water Intake		8/19/2014	09:53:53am	41.47647	-73.44433

Appendix Lake Candlewood Water Intake Points (6 of 7)

FID	Surveyor	Type	Notes	Date	Time	Latitude	Longitude
186	Greg Bugbee	Water Intake		8/19/2014	09:54:23am	41.47639	-73.44419
187	Greg Bugbee	Water Intake		8/19/2014	09:54:59am	41.47663	-73.44433
188	Greg Bugbee	Water Intake		8/19/2014	09:55:32am	41.47657	-73.44436
189	Greg Bugbee	Water Intake		8/19/2014	09:56:07am	41.47695	-73.44446
190	Greg Bugbee	Water Intake		8/19/2014	09:56:34am	41.47683	-73.44427
191	Greg Bugbee	Water Intake		8/19/2014	09:57:51am	41.47741	-73.44446
192	Greg Bugbee	Water Intake		8/19/2014	09:58:28am	41.47753	-73.44447
193	Greg Bugbee	Water Intake		8/19/2014	10:17:52am	41.47814	-73.44428
194	Greg Bugbee	Water Intake		8/19/2014	10:19:32am	41.47922	-73.44307
195	Greg Bugbee	Water Intake		8/19/2014	10:20:49am	41.48002	-73.44321
196	Greg Bugbee	Water Intake		8/19/2014	10:21:10am	41.48012	-73.44319
197	Greg Bugbee	Water Intake		8/19/2014	10:21:57am	41.48058	-73.44353
198	Greg Bugbee	Water Intake		8/19/2014	10:22:46am	41.48097	-73.44435
199	Greg Bugbee	Water Intake		8/19/2014	10:24:10am	41.48206	-73.44328
200	Greg Bugbee	Water Intake		8/19/2014	10:24:27am	41.48207	-73.44328
201	Greg Bugbee	Water Intake		8/19/2014	10:26:22am	41.48367	-73.44353
202	Greg Bugbee	Water Intake		8/19/2014	10:34:10am	41.48458	-73.44334
203	Greg Bugbee	Water Intake		8/19/2014	11:39:09am	41.48479	-73.43986
204	Greg Bugbee	Water Intake		8/19/2014	11:39:35am	41.4847	-73.43968
205	Greg Bugbee	Water Intake		8/19/2014	11:41:56am	41.48421	-73.43882
206	Greg Bugbee	Water Intake		8/19/2014	11:42:51am	41.48382	-73.43805
207	Greg Bugbee	Water Intake		8/19/2014	11:44:21am	41.48304	-73.43719
208	Greg Bugbee	Water Intake		8/19/2014	12:06:02pm	41.47989	-73.43456
209	Greg Bugbee	Water Intake		8/19/2014	12:13:48pm	41.48574	-73.43476
210	Greg Bugbee	Water Intake		8/19/2014	12:35:43pm	41.49538	-73.44178
211	Greg Bugbee	Water Intake		8/20/2014	12:42:50pm	41.53328	-73.44817
212	Greg Bugbee	Water Intake		8/20/2014	12:43:07pm	41.53289	-73.44831
213	Greg Bugbee	Water Intake		8/20/2014	12:43:11pm	41.53281	-73.44893
214	Greg Bugbee	Water Intake		8/20/2014	12:43:27pm	41.53254	-73.4484
215	Greg Bugbee	Water Intake		8/20/2014	01:30:20pm	41.53547	-73.43958
216	Greg Bugbee	Water Intake		8/20/2014	01:30:42pm	41.53553	-73.43986
217	Greg Bugbee	Water Intake		8/20/2014	01:31:16pm	41.53564	-73.44022
218	Greg Bugbee	Water Intake		8/20/2014	01:31:49pm	41.53607	-73.44084
219	Greg Bugbee	Water Intake		8/20/2014	01:32:30pm	41.53645	-73.44125
220	Greg Bugbee	Water Intake		8/20/2014	01:35:59pm	41.53966	-73.44306
221	Greg Bugbee	Water Intake		8/20/2014	01:54:27pm	41.54685	-73.44216
222	Greg Bugbee	Water Intake		8/20/2014	02:04:19pm	41.55163	-73.44399

Appendix Lake Candlewood Water Intake Points (7 of 7)

FID	Surveyor	Type	Notes	Date	Time	Latitude	Longitude
223	Greg Bugbee	Water Intake		8/20/2014	02:04:35pm	41.55189	-73.44399
224	Greg Bugbee	Water Intake		8/20/2014	02:17:49pm	41.55276	-73.44258
225	Greg Bugbee	Water Intake		8/20/2014	02:18:51pm	41.55231	-73.44203
226	Greg Bugbee	Water Intake		8/20/2014	02:21:04pm	41.55081	-73.44102
227	Greg Bugbee	Water Intake		8/20/2014	02:24:45pm	41.55361	-73.43966
228	Greg Bugbee	Water Intake		8/20/2014	02:27:33pm	41.55483	-73.43953
229	Greg Bugbee	Water Intake		8/22/2014	10:57:23am	41.56765	-73.48613
230	Greg Bugbee	Water Intake		8/22/2014	11:31:24am	41.57065	-73.48393
231	Greg Bugbee	Water Intake		8/22/2014	03:03:42pm	41.56424	-73.48835
232	Greg Bugbee	Water Intake		8/22/2014	03:05:48pm	41.56465	-73.48882
233	Greg Bugbee	Water Intake		8/25/2014	10:44:06am	41.52554	-73.45895
234	Greg Bugbee	Water Intake		8/25/2014	10:54:27am	41.52614	-73.4592
235	Greg Bugbee	Water Intake		8/25/2014	10:56:48am	41.52781	-73.46032
236	Greg Bugbee	Water Intake		8/25/2014	10:58:03am	41.52834	-73.46076
237	Greg Bugbee	Water Intake		8/25/2014	11:01:45am	41.52943	-73.46392
238	Greg Bugbee	Water Intake		8/25/2014	11:03:24am	41.53049	-73.46452
239	Greg Bugbee	Water Intake		8/25/2014	11:12:11am	41.532	-73.46607
240	Greg Bugbee	Water Intake		8/25/2014	11:24:34am	41.53626	-73.46825
241	Greg Bugbee	Water Intake		8/25/2014	11:31:08am	41.53902	-73.47121
242	Greg Bugbee	Water Intake		8/25/2014	11:45:36am	41.54608	-73.47339
243	Greg Bugbee	Water Intake		8/25/2014	11:46:18am	41.5462	-73.47342
244	Greg Bugbee	Water Intake		8/25/2014	11:52:07am	41.54826	-73.47472
245	Greg Bugbee	Water Intake		8/25/2014	12:35:38pm	41.55878	-73.48471
246	Greg Bugbee	Water Intake		8/25/2014	12:37:29pm	41.55888	-73.48351
247	Greg Bugbee	Water Intake		8/25/2014	12:38:44pm	41.55835	-73.48228
248	Greg Bugbee	Water Intake		8/25/2014	01:02:40pm	41.54527	-73.4631
249	Greg Bugbee	Water Intake		8/25/2014	02:13:17pm	41.52444	-73.45308
250	Greg Bugbee	Water Intake		8/25/2014	02:14:00pm	41.52461	-73.45305
251	Greg Bugbee	Water Intake		8/25/2014	02:14:42pm	41.52406	-73.45298
252	Greg Bugbee	Water Intake		8/25/2014	02:15:14pm	41.52375	-73.45274
253	Greg Bugbee	Water Intake		8/25/2014	02:15:49pm	41.5234	-73.45264
254	Greg Bugbee	Water Intake		8/25/2014	02:16:42pm	41.52309	-73.4526
255	Greg Bugbee	Water Intake		9/11/2014	01:58:42pm	41.44883	-73.42982

Notes