

# Monitoring Report

## Invasive Aquatic Plants

Candlewood Lake

Squantz Pond

Lake Lillinonah

Lake Zoar

# 2017

## Bulletin

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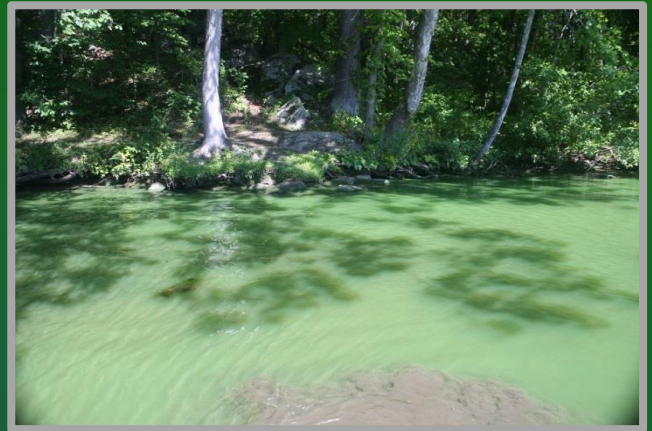
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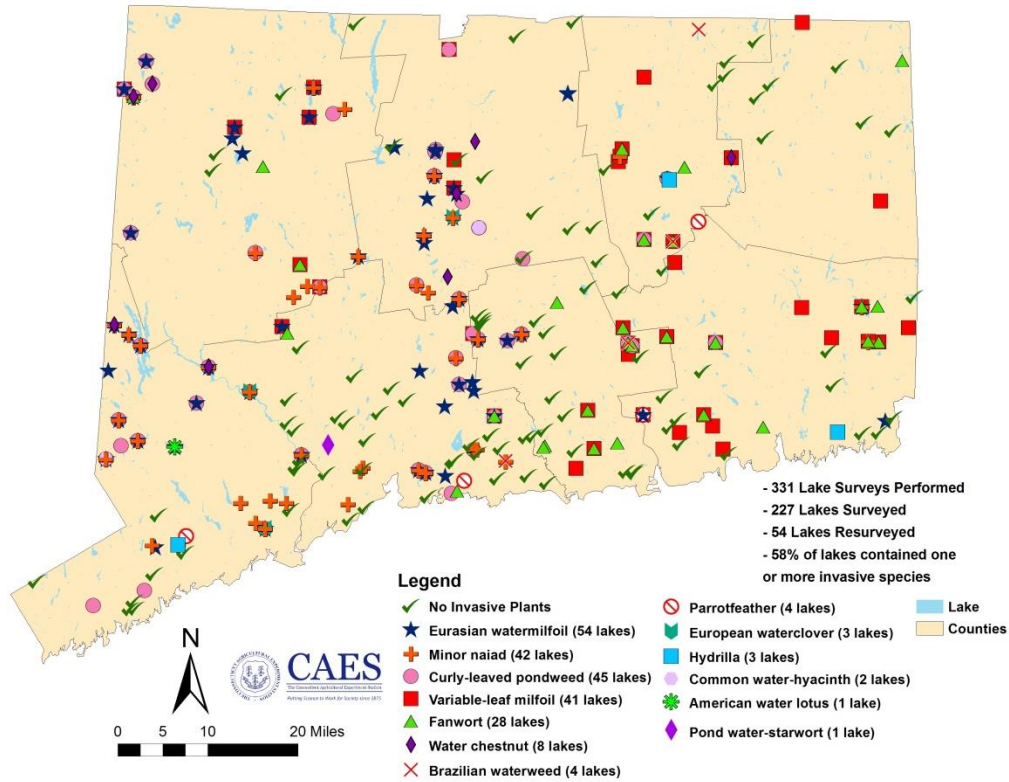


Figure 1. Locations of invasive aquatic plants found by CAES IAPP from 2004 to 2017.

## Introduction

Lakes Candlewood, Lillinonah, Zoar and Squantz Pond offer diverse freshwater ecosystems and exceptional opportunities for fishing, boating and other outdoor activities. These impoundments are also the source of Connecticut’s largest supply of renewable energy via hydroelectric facilities owned and operated by FirstLight Power Resources (FLPR). Invasive aquatic plants have become established in the lakes and have few natural enemies to control their growth (Wilcove et al. 1998, Pimintel et al. 2000). They degrade native aquatic ecosystems (Barrett 1989, Les and Mehrhoff 1999), impede recreation, and reduce home values (Connecticut Aquatic Nuisance Species Working Group 2006, Fishman et al. 1998). Once invasive plants are established, long term and costly management programs are often necessary. The Federal Energy Regulatory Commission (FERC) Article 409 requires FLPR to provide invasive aquatic plant monitoring of lakes Candlewood, Lillinonah and Zoar (Northeast

Generating Company 2005). In 2015, FLPR decided to also include the monitoring of nearby Squantz Pond.

Statewide surveys by The Connecticut Agricultural Experiment Station's (CAES) Invasive Aquatic Plant Program (IAPP) have found 13 invasive aquatic plant species inhabiting nearly 60 percent of Connecticut's lakes and ponds (Figure 1) (Bugbee et al. 2012, CAES IAPP 2018). In lakes Candlewood, Lillinonah, Zoar and Squantz Pond, Eurasian watermilfoil (*Myriophyllum spicatum*) has been the most common invasive plant and also creates the greatest nuisance. This plant has been present in Candlewood Lake since at least the early 1980's (Siver et al. 1986), when it probably became established in Lakes Lillinonah, Zoar and Squantz Pond as well.

CAES IAPP has studied the aquatic plants in lakes Candlewood, Lillinonah and Zoar since 2005 and Squantz Pond since 2011. The plant communities are similar because of the lakes close proximity to one another and their similar water chemistries (CAES IAPP 2018, Bugbee and Fanzutti 2017). A total of 22 plant species occur in the lakes with Eurasian watermilfoil, minor naiad (*Najas minor*), curlyleaf pondweed (*Potamogeton crispus*), European waterclover (*Marsilea quadrifolia*), and water chestnut (*Trapa natans*) being invasive. Water chestnut is found only in Lake Lillinonah, and European waterclover is found only in Lake Zoar. Eurasian watermilfoil typically covers the largest area followed by minor naiad and curlyleaf pondweed. Curlyleaf pondweed may be underestimated prior to the commencement of spring 2012 surveys, because it naturally died back before the summer-only surveys (Catling and Dobson 1985). Differences in the way invasive plants are managed and differences in the closed impoundment nature of Candlewood Lake and Squantz Pond versus the riverine systems of Lakes Lillinonah and Zoar result in dissimilarities in plant populations from year to year. Squantz Pond is connected to Candlewood Lake via flow under the Route 39 causeway and therefore would likely have a similar aquatic ecosystem.

Winter drawdown and occasional harvesting are used to manage Eurasian watermilfoil in Candlewood Lake (Bugbee and Fanzutti 2017, Tarsi 2006) and Squantz Pond. Deep winter drawdowns (3 m) with early onset and long exposure times have proven most effective. In

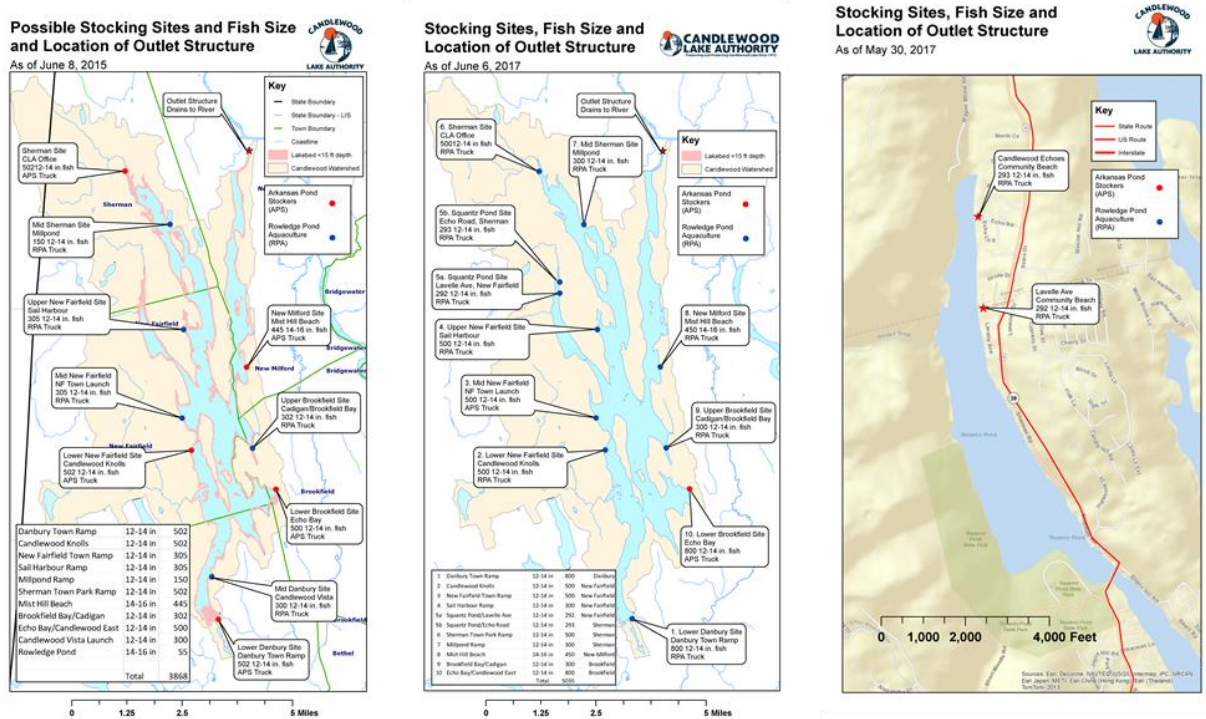


Figure 2. Locations and numbers of grass carp introduced into Candlewood Lake and Squantz Pond (maps courtesy of the Candlewood Lake Authority).

2008 and 2010, milfoil weevils (*Euhrychiopsis lecontei*) were introduced into Candlewood Lake to control Eurasian watermilfoil without success.

In 2015, 3868 12 - 15 inch grass carp (*Ctenopharyngodon idella*) were introduced into Candlewood Lake (Figure 2, left) and 5035 more were introduced in 2017 (Figure 2, middle). In 2017, 585 grass carp were also stocked in Squantz Pond (Figure 2, right). Because Candlewood Lake and Squantz Pond are connected via the conduit under Route 39, grass carp can move freely between the waterbodies. As expected, the efficacy of the grass carp in Candlewood Lake was minimal in 2016 probably because of their small size (Bugbee and Fanzutti 2017). As they grow, however, their plant consumption will increase and their effects may be more noticeable. Based on a 15 fish per vegetated acre desired stocking rate (CTDEEP) and over 500 acres of watermilfoil in Candlewood Lake, approximately 7500 grass carp are necessary. The grass carp introduced in 2017 now brings the total in Candlewood Lake to 8903 and, barring unforeseen mortality or offsite movement, vegetation control should begin to manifest. Invasive vegetation is presently being managed in Lake Zoar using herbicides. In Lake Lillinah, hand harvesting of water chestnut is currently practiced, and herbicide applications are being

considered. Passive control, in both Lillinonah and Zoar, may be occurring from occasional low water levels, storm events that cause intense flow rates and increasing populations of zebra mussels (*Dreissena polymorpha*).

The following report represents the eleventh year of CAES IAPP surveillance and mapping of invasive aquatic plants in lakes Candlewood, Lillinonah, and Zoar and the fourth year in Squantz Pond. The report fulfills the requirements of FERC Article 409.

## ***Objectives***

- Survey and map invasive aquatic plants in lakes Candlewood, Lillinonah, Zoar and Squantz Pond to fulfill the FERC nuisance plant monitoring requirement in Article 409.
- Document yearly changes in the plant community and relate to management activities.
- Provide the science necessary to better manage invasive aquatic vegetation, enhance native species, provide overall protection of the waterbodies, and assure continuance of hydroelectric power generation.

## ***Materials and Methods***

Our 2017 aquatic vegetation surveys utilized methods established by CAES IAPP. These methods have provided a consistent record throughout the years. We recorded locations of all invasive plants with Trimble GeoXT<sup>®</sup>, ProXT<sup>®</sup> or R1<sup>®</sup> global positioning systems (GPS) with sub-meter accuracy. In 2014, we added a Lowrance HDS<sup>®</sup> sonar system, with structure scan technology, to determine patches near the bottom and to eliminate the need for time-consuming grapple tosses. 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 m<sup>2</sup>). 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). In Candlewood Lake, we recorded each area where Eurasian watermilfoil was flowering at the surface with a point feature. When field identifications of plants were questionable, we brought samples back to the lab for review using the taxonomy of Crow and Hellquist (2000a, 2000b). We generally use common plant names in this report when referring to plant in the frequency of

occurrence tables where the scientific names are listed. We post-processed the GPS data in Pathfinder<sup>®</sup> 5.85 (Trimble Navigation Limited, Sunnyvale, CA) and then imported it into ArcGIS<sup>®</sup> 10.5.1 (ESRI, Redlands, CA), where it was geo-corrected. Data were then overlaid onto 2010 United States Department of Agriculture - National Agricultural Inventory Program aerial imagery with 1 m resolution.

We collected occurrence and abundance plant information from ten transects in lakes Candlewood, Lillinonah, and Zoar and five transects in Squantz Pond. Transect points were positioned 0.5, 5, 10, 20, 30, 40, 50, 60, 70 and 80 m perpendicular from the 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 (Bugbee and Balfour 2010) to 10. In Squantz Pond, we decreased the number of transects from the 14 laid out in 2011 (CAES IAPP 2018) to five and renamed them 1 – 5. We selected transects formerly numbered 1, 5, 8, 9, and 11 because they best depicted the diversity in the lake.

Significant differences in the frequency of occurrence of plant species between years along transects were determined using analysis of variance (ANOVA) followed by Tukey's post-hoc test ( $p < 0.05$ ). 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 3 - 9 and all invasive plants from July 26 – August 25. This was the fourth consecutive year we performed the spring curlyleaf pondweed survey to provide more thorough documentation of this plant prior to its summer senescence. When summertime curlyleaf patches overlapped spring patches, we only reported the spring data. The Candlewood Lake transect data were obtained on August 21, 22 and 25, and the water samples were obtained on August 25. We surveyed Lake Lillinonah for curlyleaf pondweed from May 31 – June 2 and all invasive plants from August 4 - 17. We obtained transect data on Lake Lillinonah on August 4, 8, 9 and 23, and obtained water samples on August 31. We surveyed Squantz Pond for curlyleaf pondweed from May 19 - 24 and for all invasive plant



Table 1. Yearly frequency of occurrence of aquatic plants on transects in Candlewood Lake.

Common Name	Scientific Name	Frequency of Occurrence (percent *)										
		2005	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Water starwort	<i>Callitriche</i> spp.	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coontail	<i>Ceratophyllum demersum</i>	3.1	33.3	11.3	22.7	29.9	22.7	21.7	22.0	27.0	34.0	39.0
Waterwort	<i>Elatine</i> spp.	0.0	1.0	3.1	2.1	0.0	4.1	0.0	1.0	2.0	1.0	0.0
Spikerush	<i>Eleocharis</i> spp.	0.0	0.0	3.1	1.0	1.0	3.1	0.0	1.0	3.0	3.0	3.0
Waterweed	<i>Elodea nuttallii</i>	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Duckweed	<i>Lemna minor</i>	2.1	6.3	1.0	4.1	7.2	4.1	0.0	3.0	0.0	0.0	1.0
<b>Eurasian watermilfoil</b>	<b><i>Myriophyllum spicatum</i></b>	<b>51.0</b>	<b>79.2</b>	<b>64.9</b>	<b>70.1</b>	<b>78.4</b>	<b>79.4</b>	<b>42.3</b>	<b>76.0</b>	<b>68.0</b>	<b>77.0</b>	<b>57.0</b>
Nodding waterlily	<i>Najas flexilis</i>	7.3	1.0	1.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Minor naiad</b>	<b><i>Najas minor</i></b>	<b>12.5</b>	<b>6.3</b>	<b>8.2</b>	<b>11.3</b>	<b>15.5</b>	<b>12.4</b>	<b>19.6</b>	<b>24.0</b>	<b>16.0</b>	<b>10.0</b>	<b>10.0</b>
White water lily	<i>Nymphaea odorata</i>	1.0	1.0	0.0	1.0	1.0	1.0	1.0	2.0	1.0	1.0	1.0
Snailseed pondweed	<i>Potamogeton bicupulatus</i>	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Curlyleaf pondweed</b>	<b><i>Potamogeton crispus</i></b>	<b>13.5</b>	<b>1.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Leafy pondweed	<i>Potamogeton foliosus</i>	3.1	0.0	0.0	0.0	2.1	1.0	5.2	1.0	0.0	0.0	0.0
Variable leaf pondweed	<i>Potamogeton gramineus</i>	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Clasping leaf pondweed	<i>Potamogeton perfoliatus</i>	1.0	2.1	1.0	0.0	0.0	2.1	0.0	1.0	1.0	0.0	0.0
Small pondweed	<i>Potamogeton pusillus</i>	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Great duckweed	<i>Spirodela polyrhiza</i>	1.0	0.0	0.0	1.0	5.2	0.0	0.0	0.0	1.0	0.0	0.0
Sago pondweed	<i>Stuckenia pectinata</i>	6.3	1.0	0.0	4.1	0.0	3.1	2.1	2.0	1.0	11.0	0.0
Eel grass	<i>Vallisneria americana</i>	2.1	2.1	4.1	4.1	3.1	4.0	4.1	6.0	4.0	3.0	5.0
Spotless watermeal	<i>Wolffia</i> spp.	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0
Horned pondweed	<i>Zannichellia palustris</i>	11.5	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Total Invasive Species Richness</b>		<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>
Total Native Species Richness		14.0	11.0	7.0	8.0	8.0	10.0	5.0	9.0	8.0	6.0	5.0
Total Species Richness		17.0	14.0	9.0	10.0	10.0	12.0	7.0	11.0	10.0	8.0	7.0
<b>Invasive plant</b>												
* Percent occurrence on 97 points in 10 transects												
Shaded columns indicate deep drawdown years												

species from July 26 – August 1. We took water samples on August 1. Lake Zoar transects were surveyed from August 29 – 30, and water samples were taken on August 30. Detailed information regarding our “on-lake” time is located in the Appendix (Page 66). We used a Secchi disk to measure transparency. Because water clarity can affect 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 the same deep areas of each lake as previous surveys at 0.5 m and at 1 m depth intervals until we reached the bottom. We collected water samples from 0.5 m below the surface and 0.5 m from the bottom.

Grass carp are known to feed from the top of aquatic vegetation downward (Pipalova 2006). Their effects, therefore, are likely to be first noticed by a reduction in surface vegetation. We mapped the locations of Eurasian watermilfoil patches that reached the surface (abundance = 5) within patches of lesser abundance (abundance < 5) with separate point features (Figure 10). When combined with patches with an abundance of five, these data are expected to give quantitative year to year comparisons of the efficacy of the grass carp.

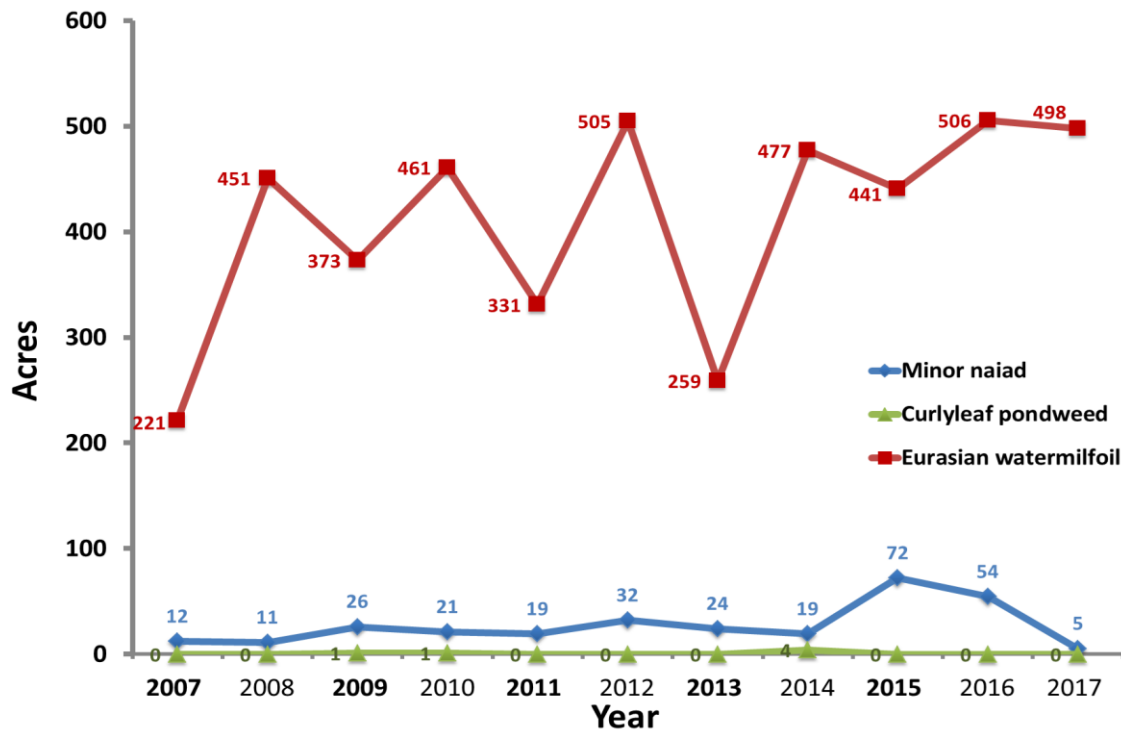


Figure 3. Yearly changes in in the acreage of invasive aquatic plants in Candlewood Lake (deep drawdown years in bold).

## Results and Discussion

### *Candlewood Lake*

Our 2017 invasive aquatic plant survey of Candlewood Lake found seven plant species comprised of five natives and two invasives (Table 1). A total of only seven plant species in a large lake is very low for Connecticut with many lakes having over 30 species (CAES IAPP 2018). Eurasian watermilfoil and minor naiad comprised the invasive species and they are the same as found in previous years. Eurasian watermilfoil continued to be the most prevalent invasive aquatic plant in 2017 covering 498 acres, which was a slight decrease from the 506 acres found in 2016 (Figure 3). Minor naiad covered only five acres which was the lowest yet and showed a large reduction from the 54 acres found in 2016. This plant tends to occur in protected coves where grass carp populations and associated herbivory are greatest. Curlyleaf pondweed continued to be scarce with only sporadic points in low abundance.

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)
2017	686	0.0002	52.5	0.7	9	0.0002	2.5	0.6	4	0.0002	0.0002	0.0002
2016	526	0.0002	67.4	1.0	77	0.0002	6.5	0.7	36	0.0002	0.4	0.03
2015	413	0.0002	21.3	1.1	125	0.0002	12.3	0.6	1	0.04	0.04	0.04
2014	485	0.0002	46.5	1.0	137	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

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

Year	Patch Abundance (1 = sparse - 5 = dense)								
	Eurasian watermilfoil			Minor naiad			Curlyleaf pondweed		
	(min)	(max)	(mean)	(min)	(max)	(mean)	(min)	(max)	(mean)
2017	1	5	2.8	2	3	2.3	1	1	1.0
2016	2	5	3.0	2	4	2.3	1	5	3.0
2015	1	5	3.2	1	4	3.2	2	2	2.0
2014	1	5	3.1	1	4	2.1	1	5	2.9
2013	1	5	2.4	1	4	2.4	0	0	0.0
2012	1	5	3.1	2	5	2.6	0	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

There were 686 patches of Eurasian watermilfoil in 2017, representing the highest number recorded to date (Table 2). Patch number can increase when large patches are separated into smaller ones by management such as grass carp, harvesting, and benthic barriers or random events. The largest patch of Eurasian watermilfoil in 2017 was 53 acres located in Danbury Cove (Map 9, Page 29). Other large patches were found in Echo Bay (41 acres, Map 8, Page 28), Brookfield Bay (26 acres, Map 6, Page 26), and along the eastern shore from transect five to transect six (20 acres, Map 3, Page 23). These are generally the same sites as in previous years.

The mean abundance of Eurasian watermilfoil patches in Candlewood Lake (Table 3) was 2.8 in 2017 making the year similar to all previous years (range 2.1 – 3.3). We found 9 minor naiad patches in 2017, which was considerably less than all previous years (range 26 - 137). Mean minor naiad patch size, however, only decreased slightly to 0.6 acres from 0.7 acres in 2016, with the largest patch in the southern

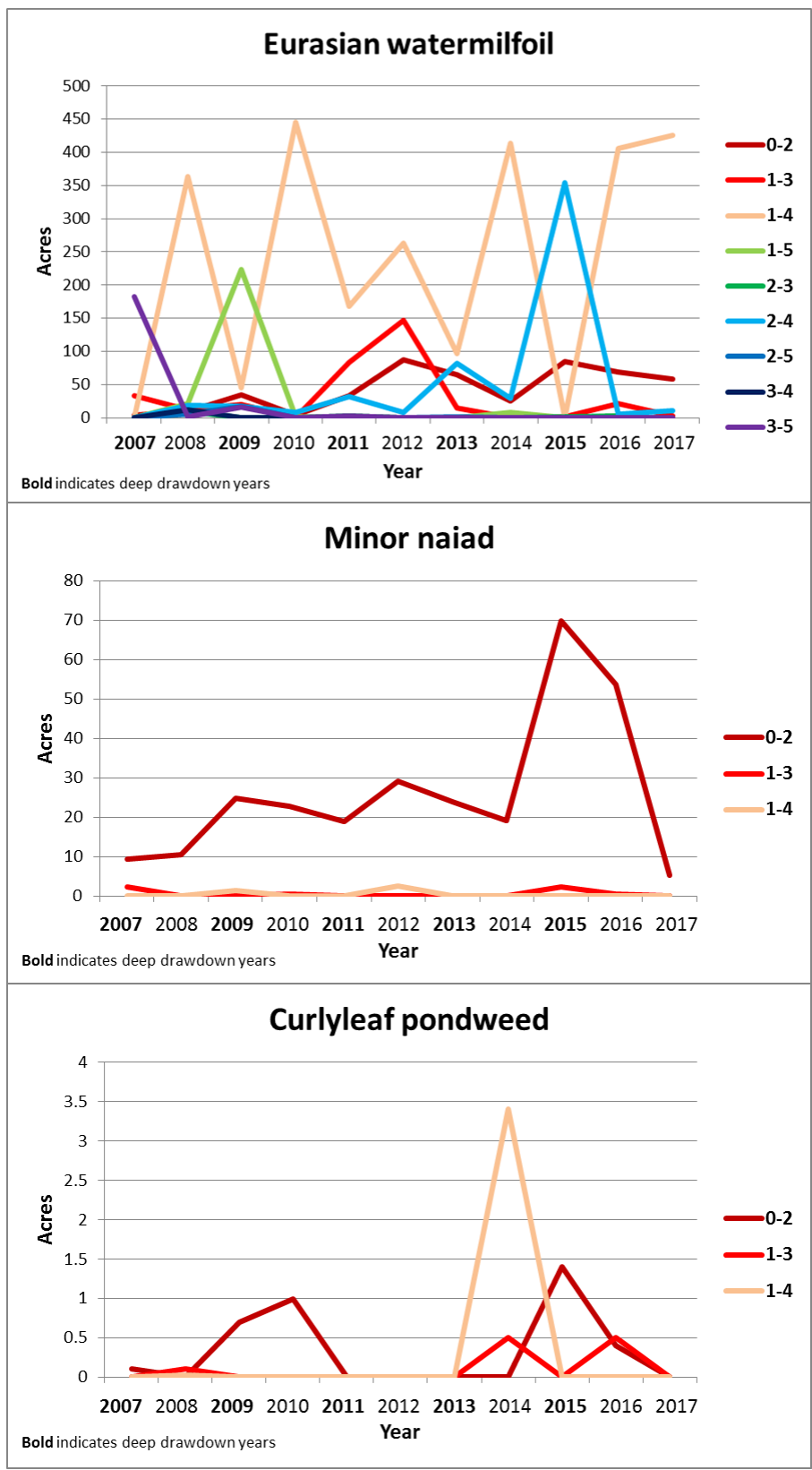


Figure 4. Depth preferences of invasive aquatic plants in Candlewood Lake 2007 -2017.

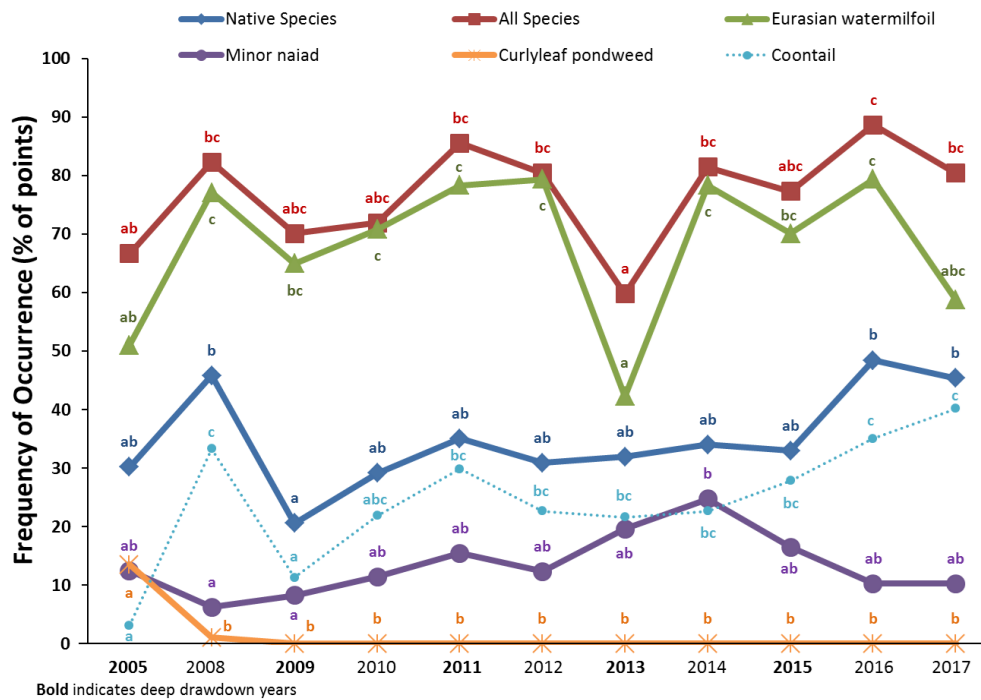


Figure 5. Yearly frequency of occurrence of aquatic vegetation on transects in Candlewood Lake. Points with the same letter within a species are not statistically different.

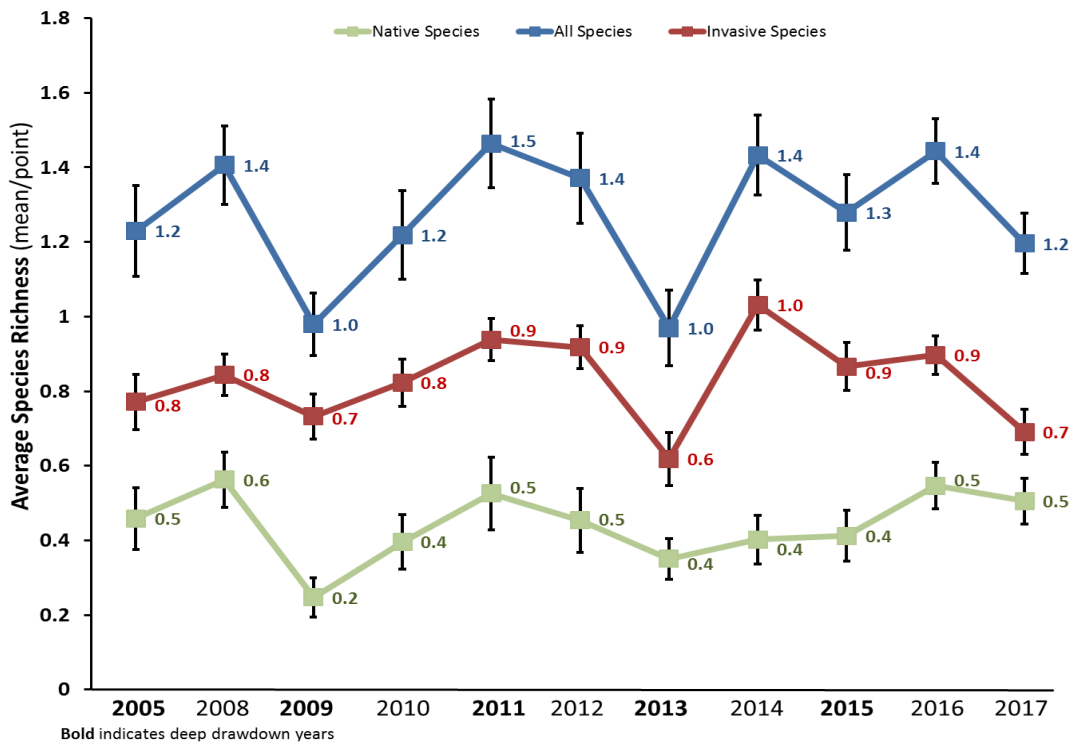


Figure 6. Yearly comparisons of average number of plant species per transect point in Candlewood Lake. Error bars equal +/- one standard error of the mean (SEM).

part of Danbury Cove (Map 9, Page 29) encompassing 2.5 acres. The largest minor naiad patch to date was 12.5 acres found west of Great Neck in 2015. Mean patch abundance of minor naiad was 2.3 in both 2016 and 2017 (Table 3, Page 11). Minor naiad is likely less affected by drawdown than Eurasian watermilfoil because it propagates from potentially drawdown resistant seeds. Curlyleaf pondweed was extremely sparse and found mainly on scattered points in the spring survey.

Drawdowns, fluctuating water levels, natural variation and grass carp feeding may change the depth preferences of invasive species from year to year. In 2017, we found most Eurasian watermilfoil (425 acres) at the 1 - 4 m depth (Figure 4, Page 12). These are the depths least affected by shallow winter drawdowns. Eurasian watermilfoil was more abundant at depths of 1 - 4 m (area weighted mean = 3.9) than at 0 - 2 m (area weighted mean = 2.6), which is identical to 2016. This is likely due to the similar 2016 shallow winter drawdown. Water clarity and associated light restriction at depths of greater than 4 m is likely the cause for Eurasian watermilfoil to be absent at 5 m and beyond. As in past years, minor naiad and curlyleaf pondweed were primarily limited to depths of 0 - 2 m.

In 2017, the frequency of occurrence (FO) of the invasive species on transects changed little from 2016. The FO of Eurasian watermilfoil on transects was 59%. Although this was considerable less than the 77% found in 2016, statistical analysis ( $p \leq 0.05$ ) showed no difference from any previous year (Figure 5, Page 13). The 2017 frequency of occurrence of minor naiad was 10% which was identical to 2016 and statistically similar ( $p \leq 0.05$ ) to all previous years. Curlyleaf pondweed disappeared from transects in 2009 and has not been found since.

The mean invasive species richness (number of plant species) per transect point was 0.7 in 2017 (Figure 6, Page 13) and showed statistically significant decline ( $\pm$  one SEM) from 2014, 2015 and 2016 when it ranged from 0.9 – 1.0. This is mainly because of the decline of Eurasian watermilfoil which was found on only 55 transect points in 2017 compared to 75 points in 2016, 65 points in 2015, and 74 in 2014.

A healthy aquatic plant ecosystem generally has diverse and abundant native species. Native plant coverage may decrease the establishment and spread of invasive species

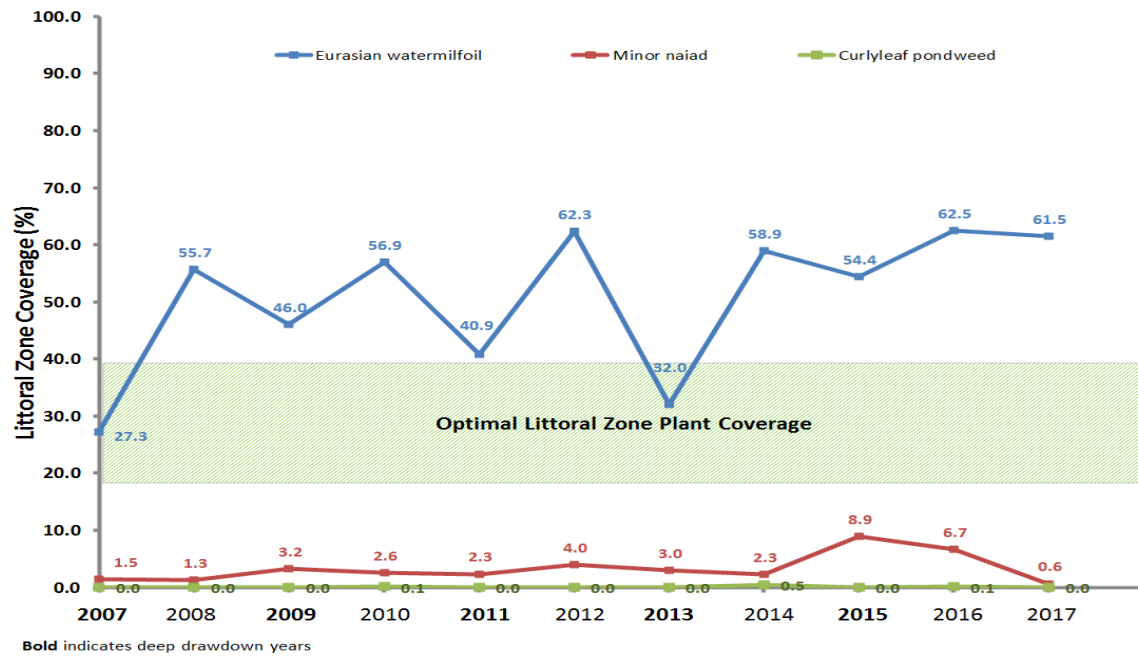


Figure 7. Yearly comparison of the coverage of invasive aquatic plants in Candlewood Lake’s littoral zone (0-5m).

(Capers et al. 2007). The overall 2017 native species richness on transects was 5 which tied the year with 2013 for the all-time low and is in stark contrast to the all-time high of 14 in 2005 (Table 1, Page 9). Some species-rich Connecticut lakes contain over 30 native plant species (CAES IAPP 2018) and for a large lake like Candlewood to have only five is unusual. This is probably because of harm to shoreline species when exposed during drawdowns. We found no new native species in 2017 (Table 1, Page 9). Waterwort and Sago pondweed were present in 2016 but not 2017. Many species that were present in 2005 have not been found in recent years, including water starwort, waterweed, nodding waternymph, variable leaf pondweed, small pondweed, and horned pondweed. It is possible these plants have suffered because of the drawdown regime, and it is also possible they may be in the lake but no longer on transects.

Biodiversity is considered optimal when frequency of occurrence (FO) and species richness is high. The 2017 FO of all species (native + invasive) on transect points was 80% and was statistically similar to all years ( $p \leq 0.05$ ) except 2013 when an all-time low of 60%

occurred (Figure 5, Page 13). Native species FO in 2017 was 45% and was only statistically different from the all-time low of 21% in 2009. The average native species richness on transect points in 2017 was 0.5 (Figure 6, Page 13) which is only statistically greater ( $\pm 1$  SEM) than the lows of 0.2 in 2009 and 0.4 in 2013.

Many fish and other aquatic organisms need aquatic vegetation for habitat, food production and spawning. From 20% to 40% littoral zone coverage is considered optimal in Connecticut lakes (Jacobs and O'Donnell 2002). We used a depth of 5 m (16 feet) as the littoral zone limits in Candlewood Lake because it corresponds to the maximum depth where plants have been found. Candlewood Lake has a littoral zone of 810 acres or 16% of the total lake area (Bugbee 2011). Eurasian watermilfoil occupied 62% of the 2017 littoral zone (Figure 7, Page 15). This was similar to the other shallow drawdown years which ranged from 56% - 62% but considerably greater than all deep drawdown years where the greatest was 46%. Minor naiad covered 1% of the littoral zone in 2017 which was an all-time low and showed little response to either a shallow (range = 1 - 7%) or deep drawdown (range = 2 - 9%). Curlyleaf pondweed coverage of the littoral zone was minimal in 2017 and all previous years (<0.01%). The total coverage of Candlewood Lake's littoral zone cannot be inferred by adding the acreage of various species as they often occur together. Eurasian watermilfoil alone, however, has exceeded the optimal littoral zone coverage in all years except the deep drawdown years of 2007 and 2013 when it fell within the optimal range.



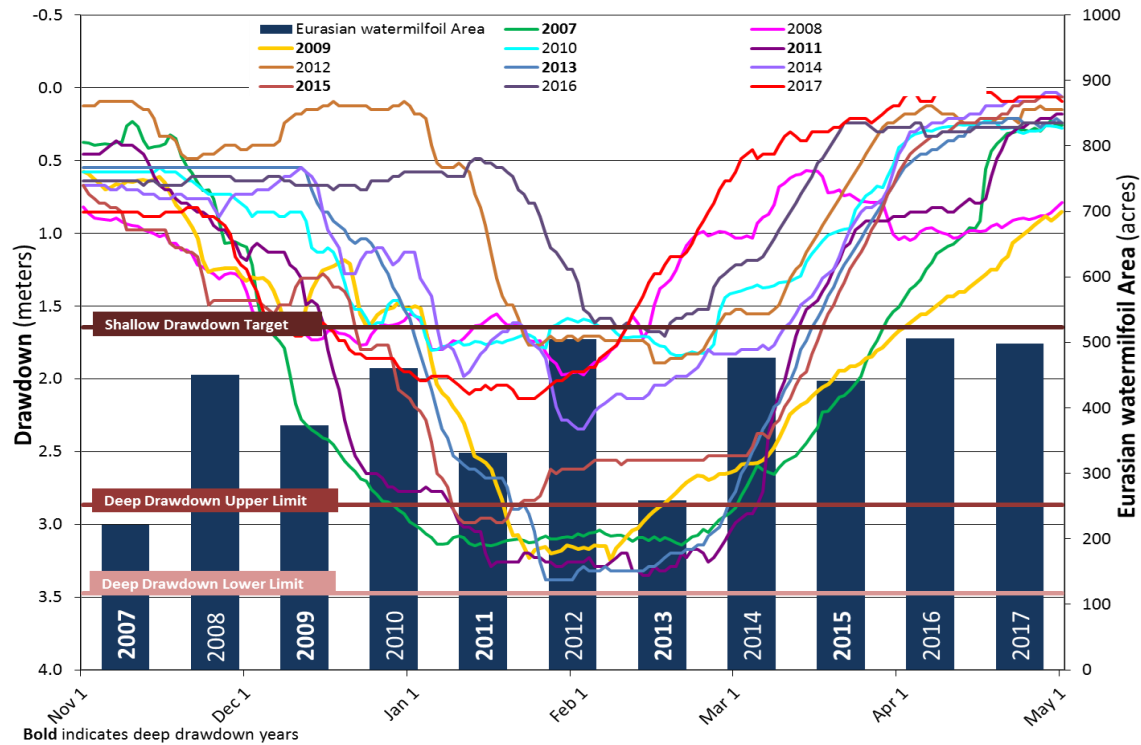
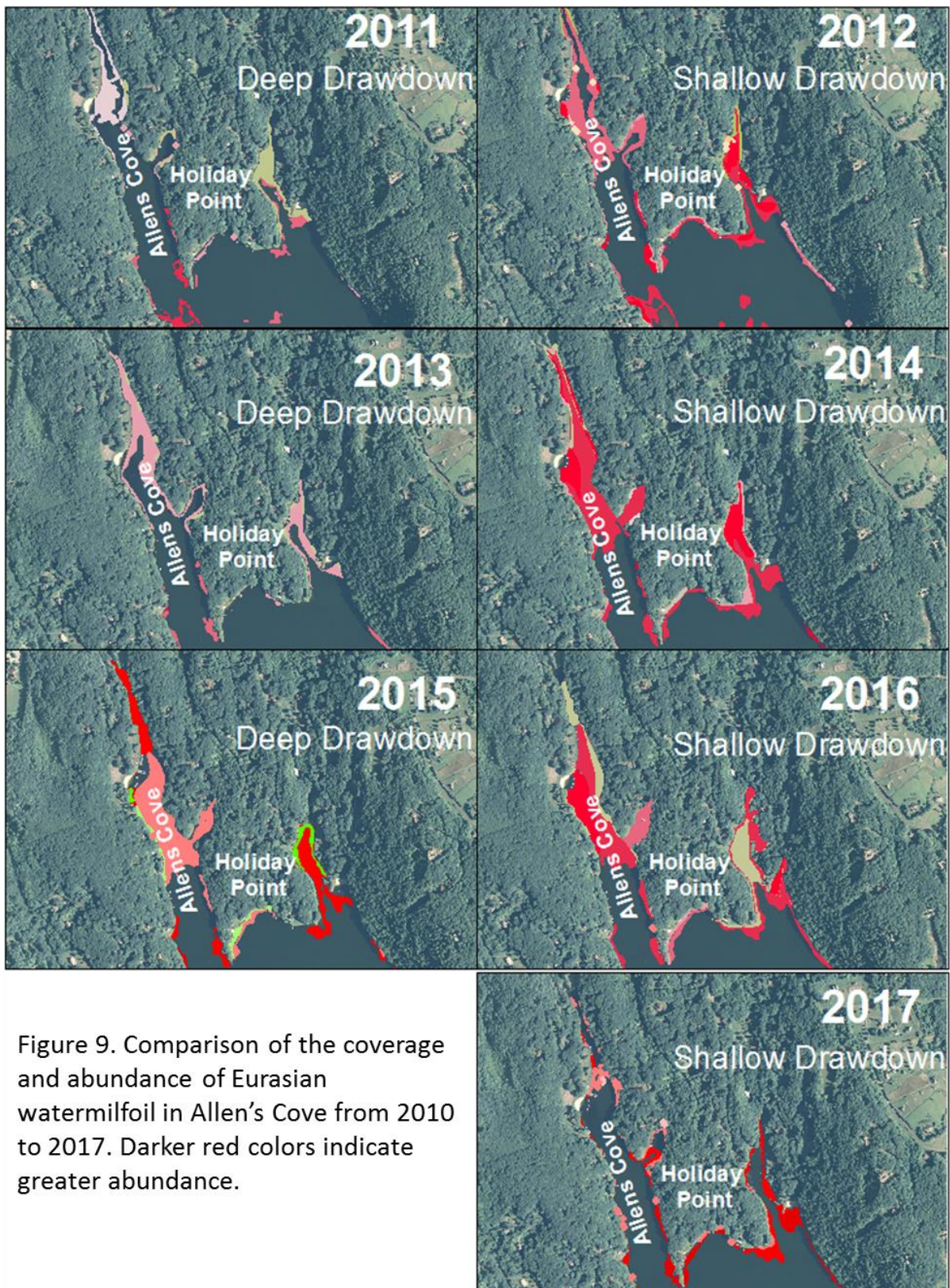


Figure 8. Candlewood Lake’s drawdown depths and duration and Eurasian watermilfoil coverage from 2007 - 2017. Bars with years in bold are deep drawdown years.

## 2017 Drawdown

The winter drawdown of 2017 featured a shallow drawdown for the second consecutive year. Water levels were lowered relatively early (late-November) and raised relatively early (late-January) compared to other shallow drawdown years (Figure 8). The 2017 drawdown was also about 0.5 m deeper than all shallow drawdowns except the deepest in 2014. Eurasian watermilfoil coverage ranges from 221 - 441 acres in deep drawdown years and from 451 – 506 acres in shallow drawdown years. These differences in the coverage are shown in Allen’s Cove (Figure 9, Page 18). The rapid regrowth in the shallow drawdown years is typical throughout Candlewood Lake and has become reasonably predictable (Bugbee and Fanzutti 2017). Interestingly, the Eurasian watermilfoil coverage did not increase in 2017 even though this was the second consecutive year of shallow drawdowns. This may indicate that the maximum milfoil coverage has been reached or that grass carp, harvesting or some other factor suppressed any increase.



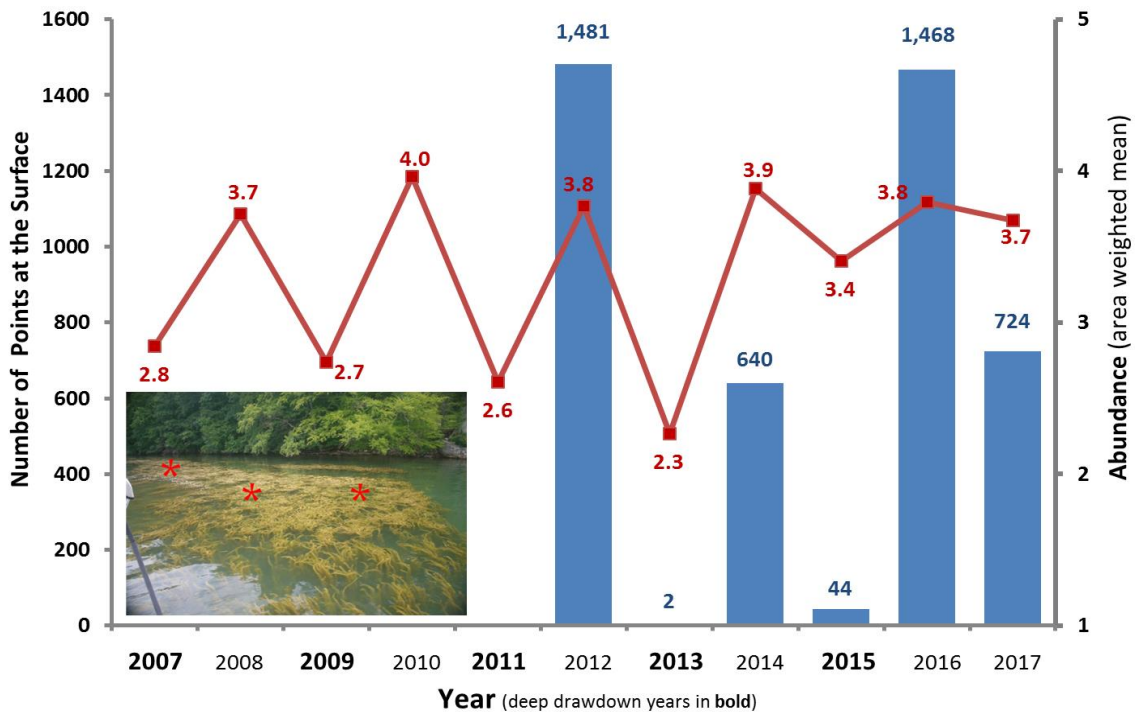


Figure 10. Number of points where Eurasian watermilfoil was flowering at the surface and area weighted abundance. Insert shows how surface points were marked (\*).

## Grass Carp

In 2015, 3868 12 - 15 inch grass carp (*Ctenopharyngodon idella*) were introduced into Candlewood Lake (Figure 2, left, Page 6). In 2017, 5035 additional grass carp were introduced into Candlewood Lake (Figure 2, middle, Page 6) and 585 were stocked in Squantz Pond (Figure 2, right, Page 6). Because Candlewood Lake and Squantz Pond are connected via the conduit under Route 39, grass carp can move freely between the waterbodies. These fish consume aquatic plants and can control aquatic vegetation by their feeding activities (Pipalova 2006). Because grass carp tend to graze on the terminal shoots of vegetation, milfoil control would likely be first noticed by a reduction in the plants reaching the surface and flowering (Pipalova 2006). Since 2012, we have recorded the points where these surface milfoil patches have occurred (Figure 10). If these surface flowering points and other surface patches could be substantially reduced, most of the nuisance milfoil would be eliminated.

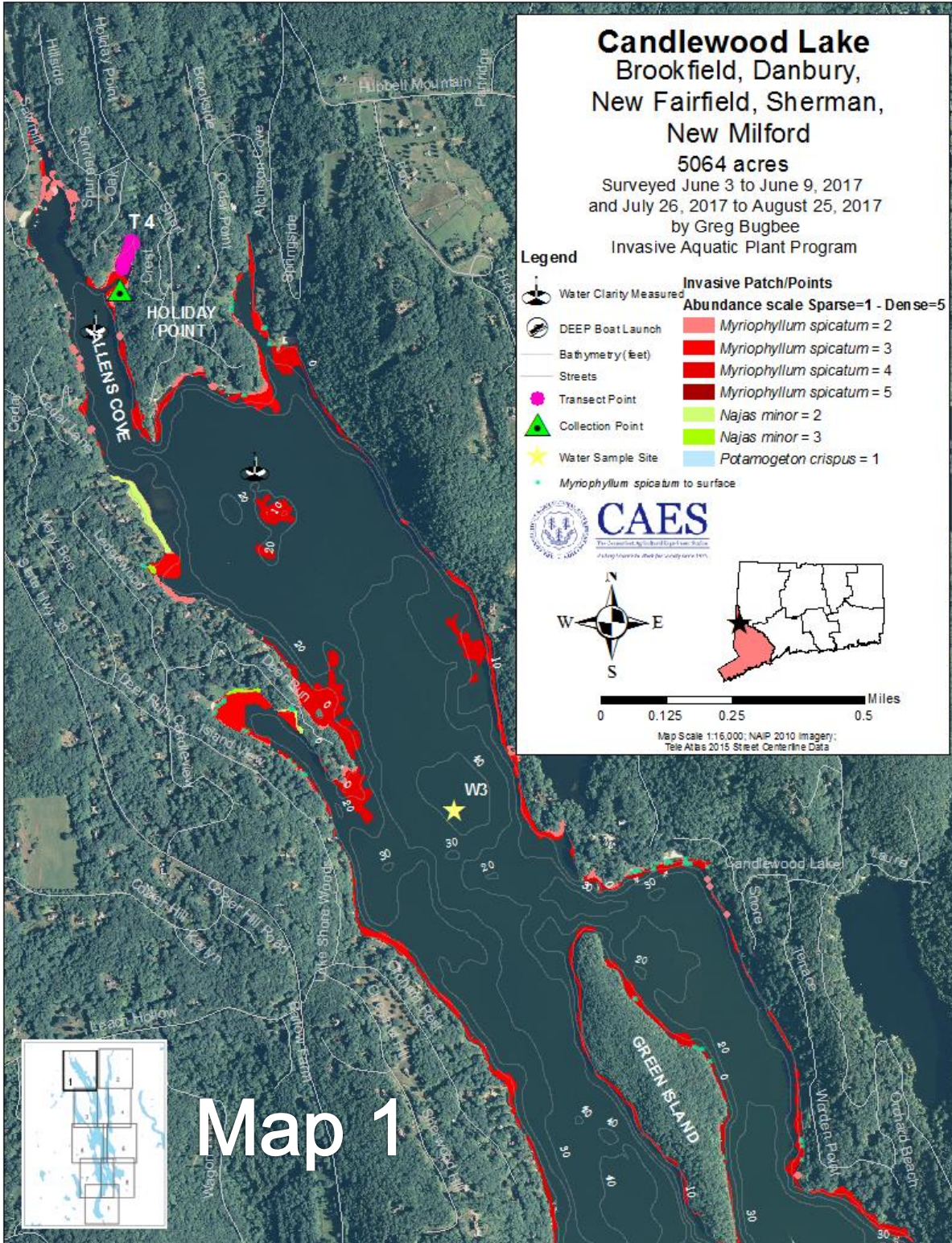


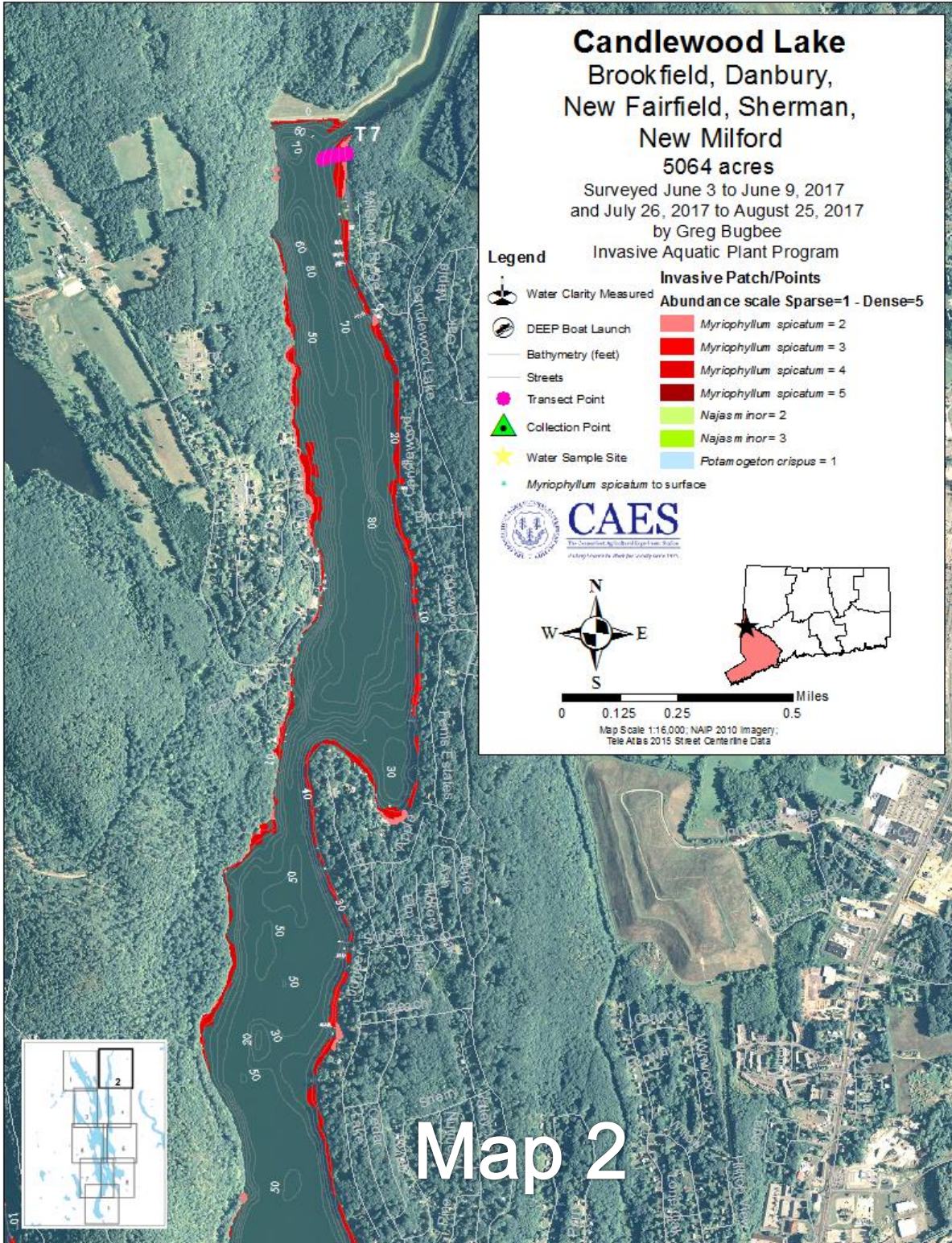
Figure 11. Comparison of Eurasian watermilfoil at the surface in Allen's Cove between 2016 and 2017.

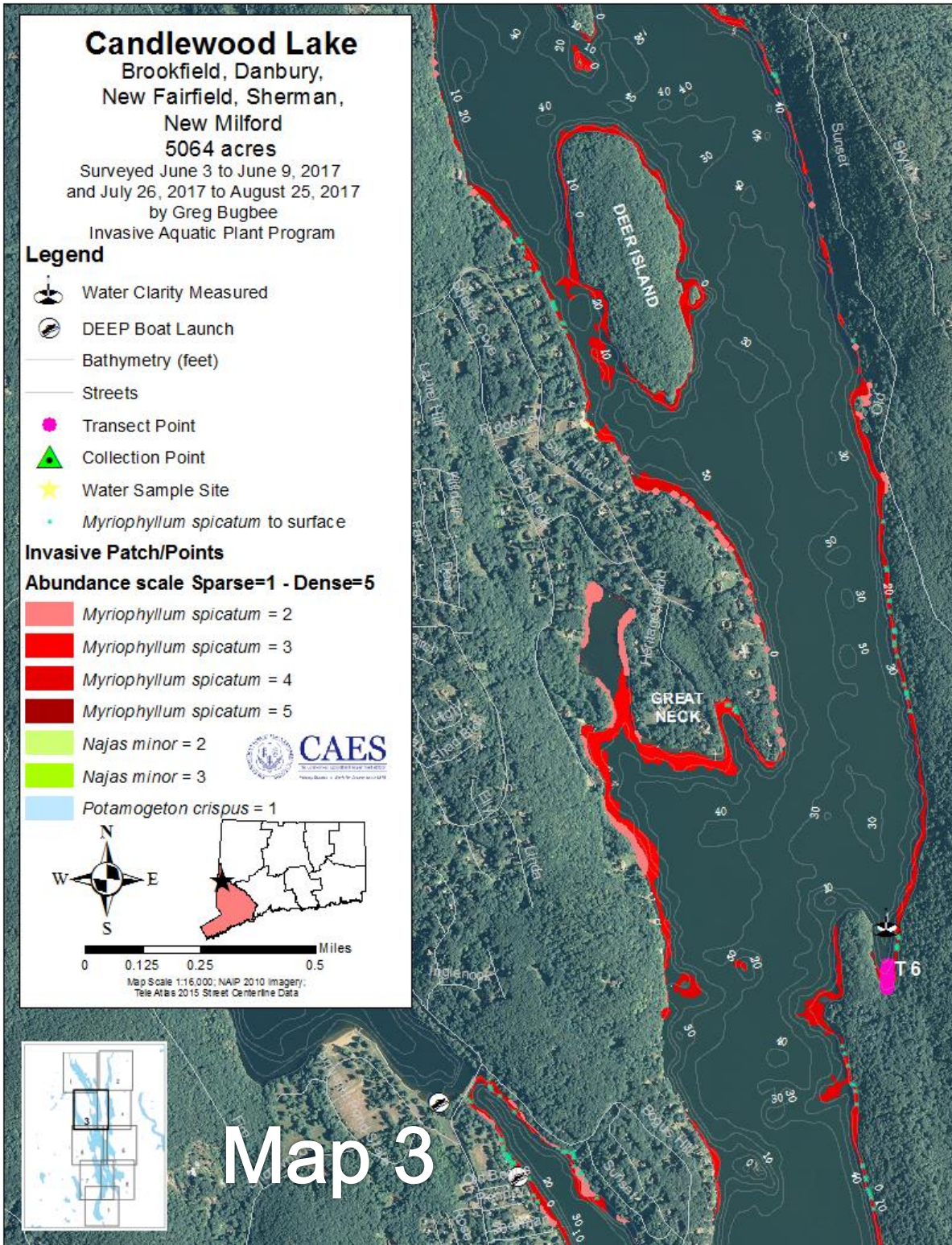


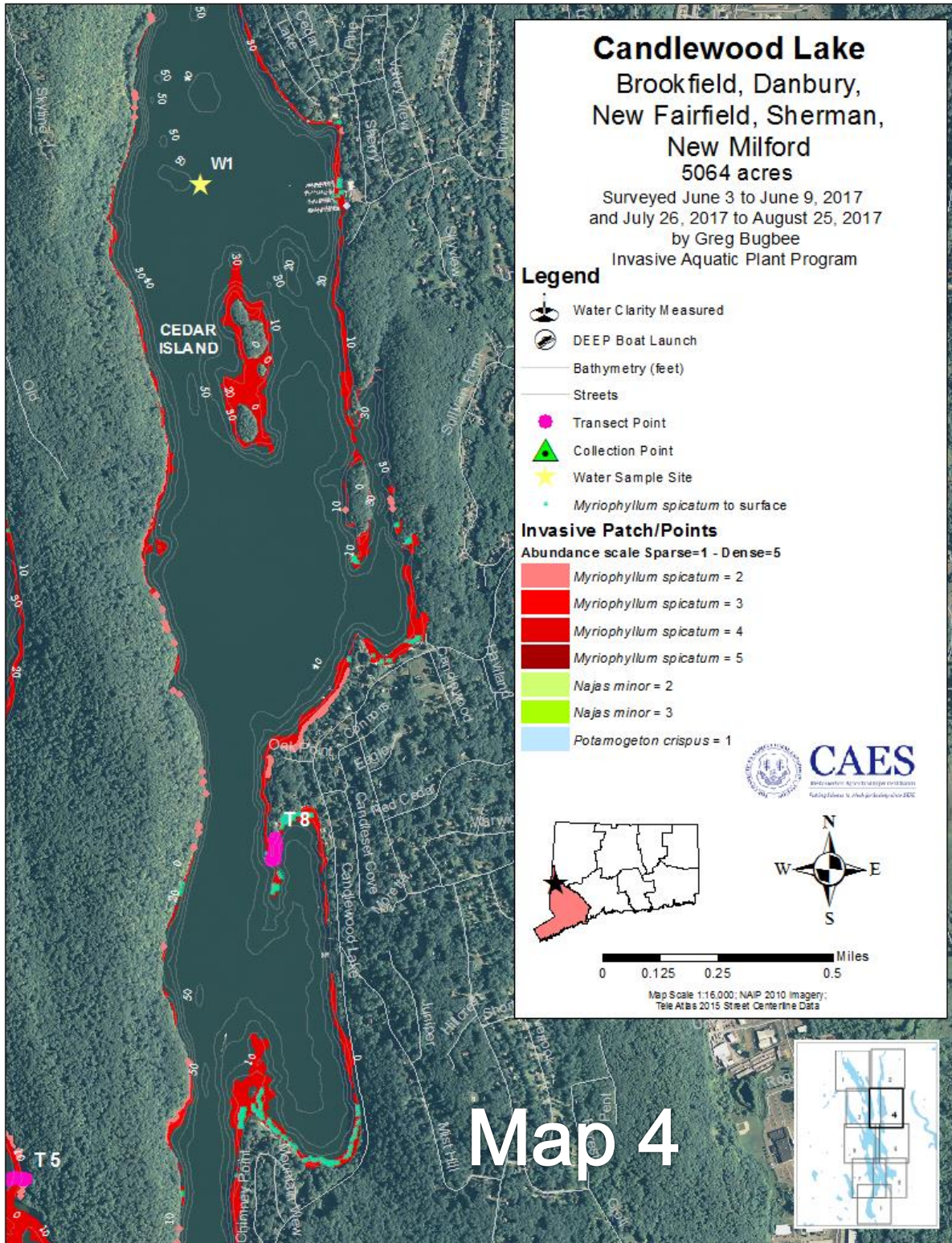
Figure 12. Grass carp in Danbury Cove by inlet (left). Apparent replacement of Eurasian watermilfoil with coontail (right).

The shallow drawdown years of 2012, 2014, 2016 and 2017 showed the highest number of surface flowering points with 1481, 640, 1468 and 724 respectively. The deep drawdown years of 2013 and 2015 featured only 2 and 44 points, respectively. Our finding of a reduction from 1468 surface patches in 2016 to 724 in 2017 could indicate a grass carp effect particularly since it was a second consecutive shallow drawdown year. Possible grass carp effects were evident in several shallow coves such as Allen's Cove (Figure 11) and Danbury Cove (Figure 12, left). Interestingly, we saw schools of grass carp in these coves and observed the apparent replacement of Eurasian watermilfoil with coontail (Figure 5, Page 13, Figure 12, right). Coontail is known to be less palatable to grass carp particularly in nearby Ball Pond (June-Wells et al. 2017).

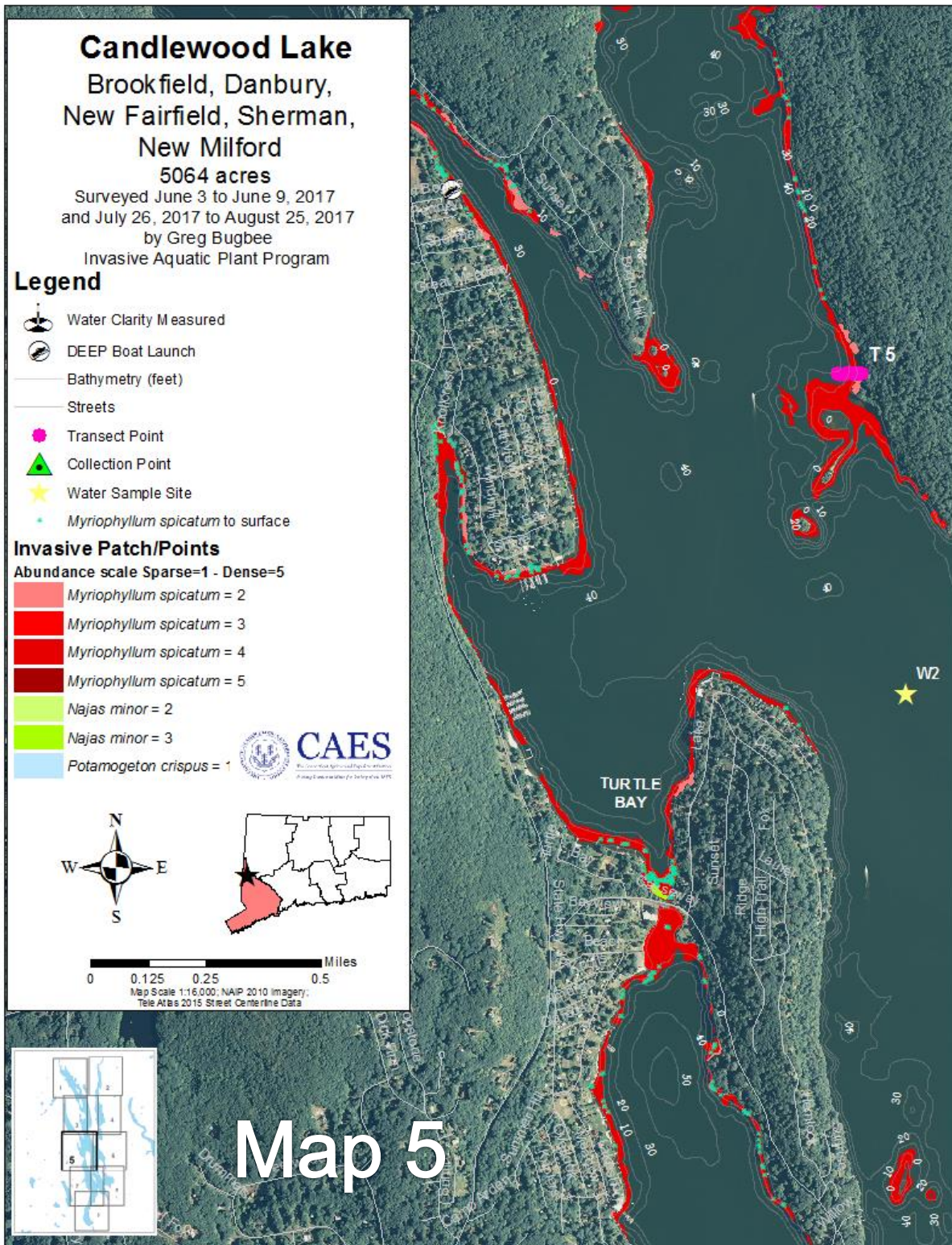




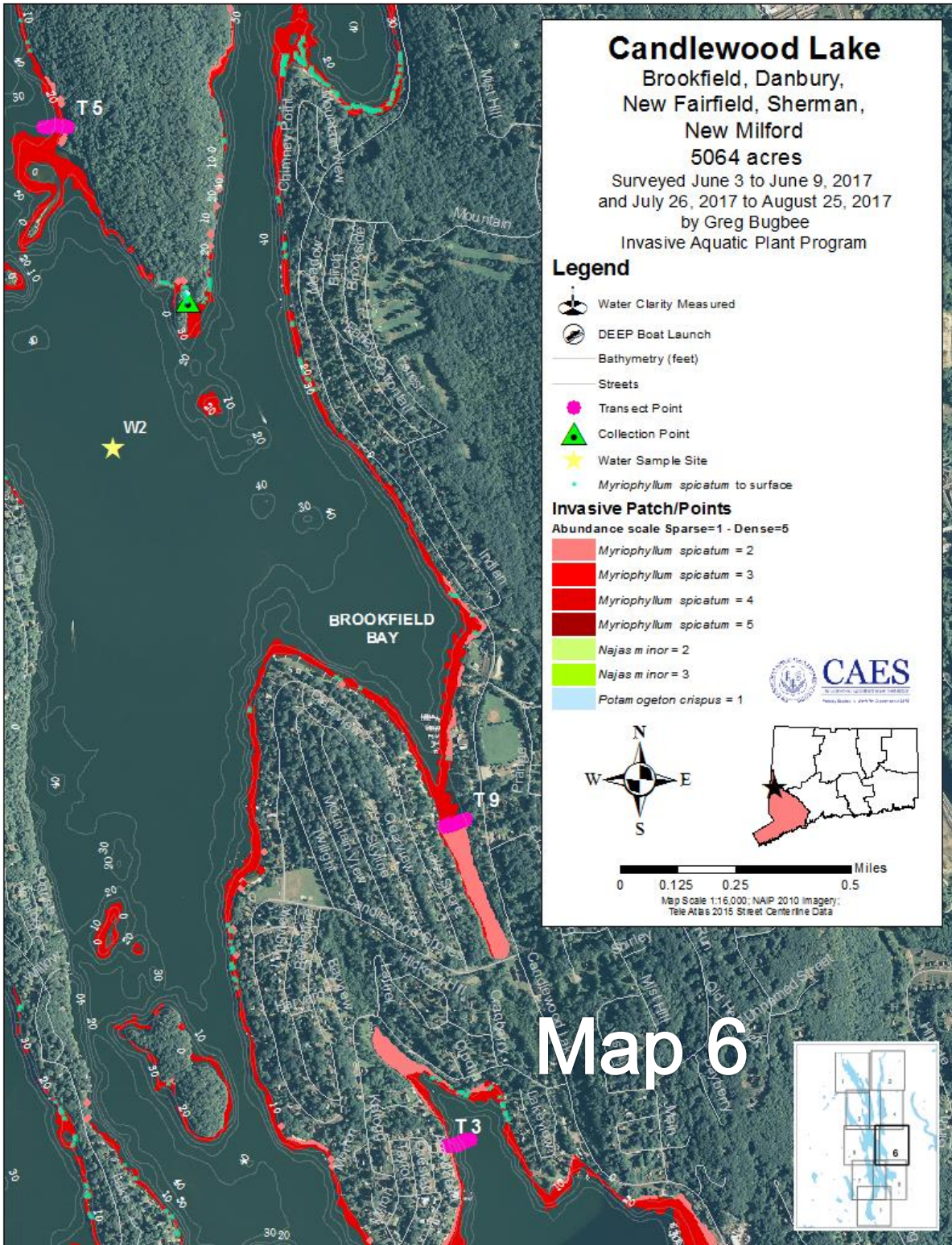








# Map 5



**Candlewood Lake**  
 Brookfield, Danbury,  
 New Fairfield, Sherman,  
 New Milford

5064 acres

Surveyed June 3 to June 9, 2017  
 and July 26, 2017 to August 25, 2017  
 by Greg Bugbee  
 Invasive Aquatic Plant Program

**Legend**

- Water Clarity Measured
- DEEP Boat Launch
- Bathymetry (feet)
- Streets
- Transect Point
- Collection Point
- Water Sample Site
- Myriophyllum spicatum* to surface

**Invasive Patch/Points**

Abundance scale Sparse=1 - Dense=5

- Myriophyllum spicatum* = 2
- Myriophyllum spicatum* = 3
- Myriophyllum spicatum* = 4
- Myriophyllum spicatum* = 5
- Najas minor* = 2
- Najas minor* = 3
- Potamogeton crispus* = 1

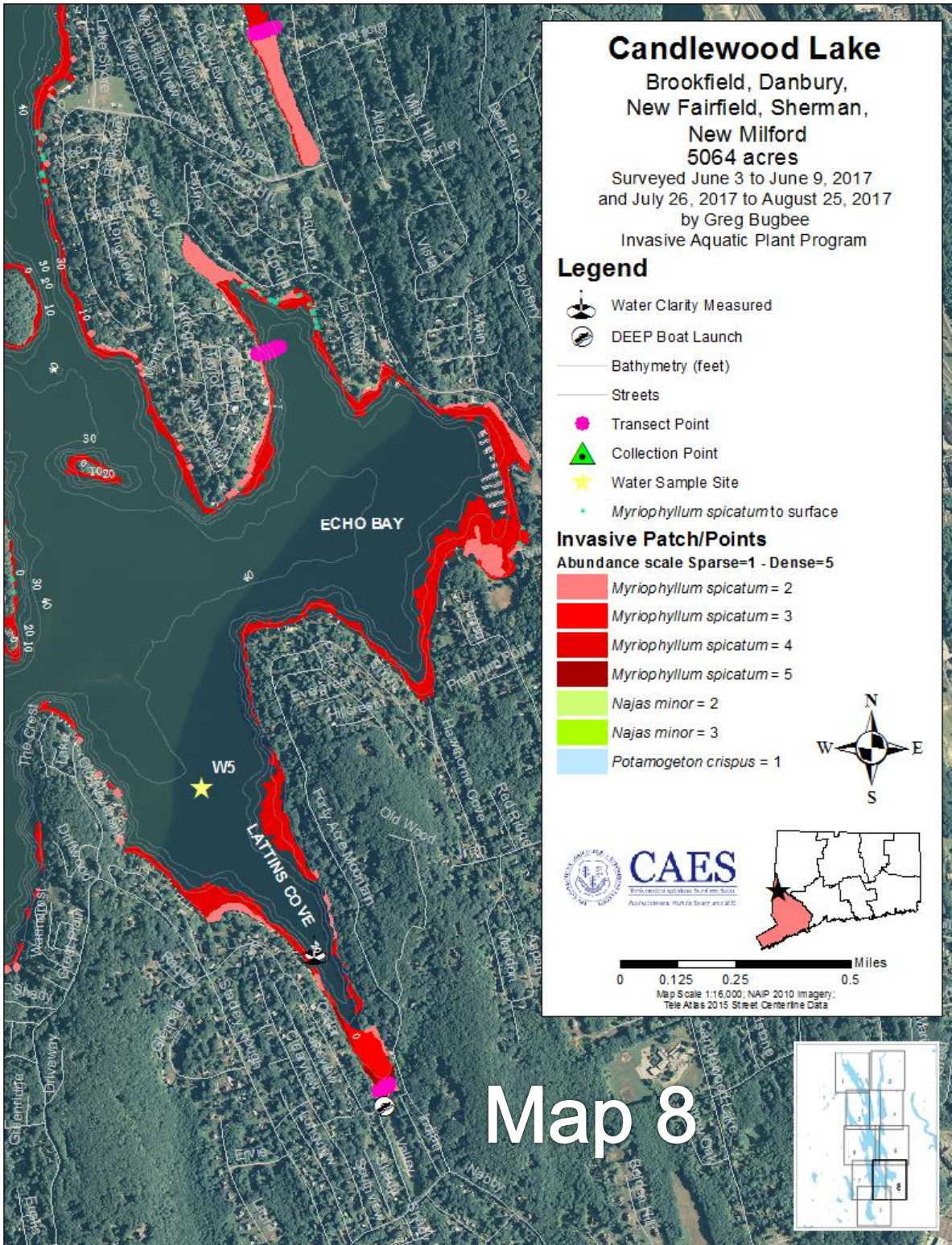


0 0.125 0.25 0.5 Miles  
 Map Scale 1:16,000; NAIP 2010 Imagery;  
 Tele Atlas 2015 Street Centerline Data



**Map 7**





# Map 8

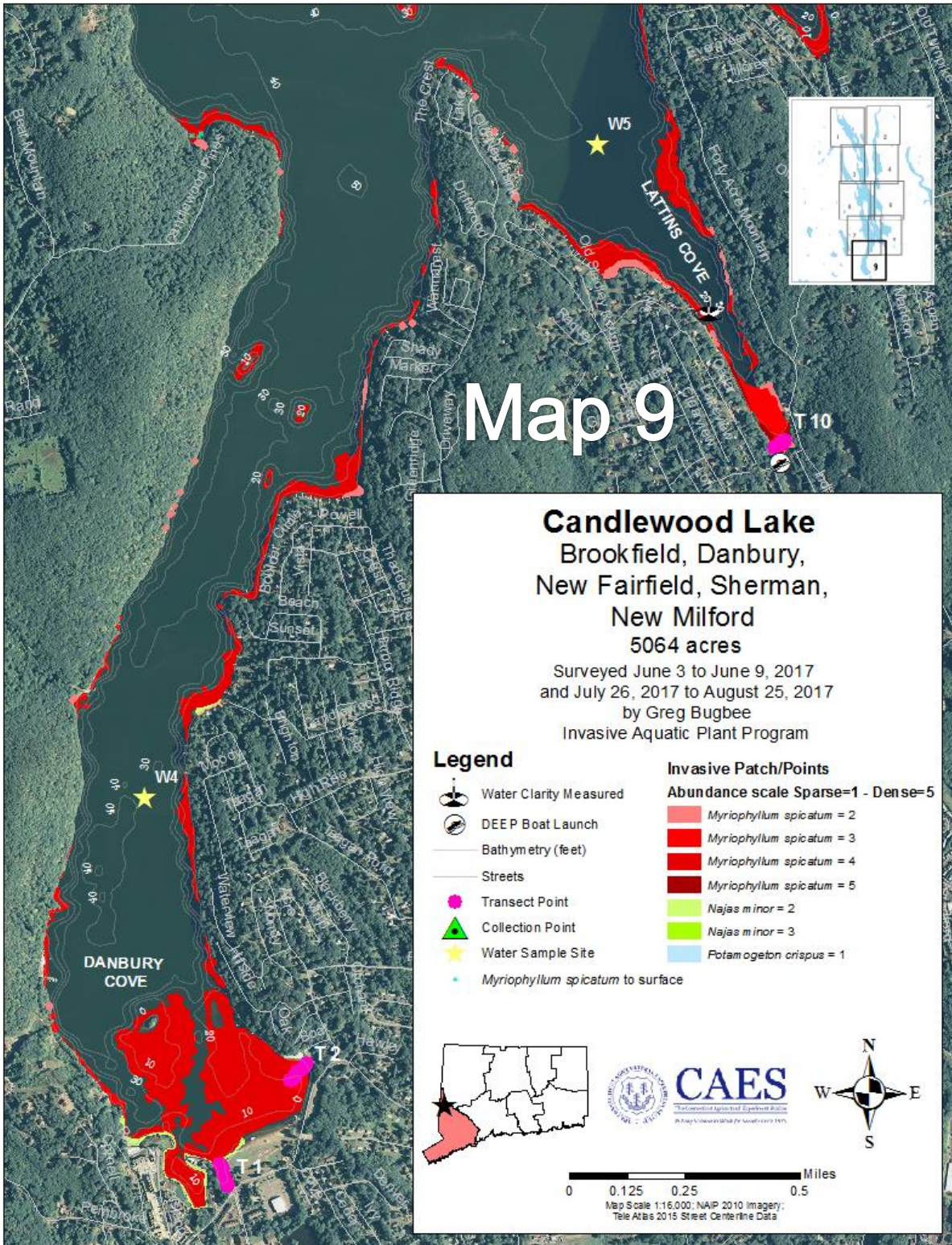


Table 4. Yearly comparisons of the frequency of occurrence of all plants on transects and total area of invasive plants in Squantz Pond.

Common Name	Scientific Name	Frequency of Occurrence (percent*)				Area (acres)			
		2011	2015	2016	2017	2011	2015	2016	2017
Coontail	<i>Ceratophyllum demersum</i>	8	0	4	8	ND**	ND	ND	ND
Waterwort	<i>Elatine</i> spp.	3	8	8	8	ND	ND	ND	ND
Spikerush	<i>Eleocharis</i> spp.	3	6	2	2	ND	ND	ND	ND
Western waterweed	<i>Elodea nuttallii</i>	2	0	4	2	ND	ND	ND	ND
Primrose-willow	<i>Ludwigia</i> spp.	0	0	0	2	ND	ND	ND	ND
<b>Eurasian watermilfoil</b>	<b><i>Myriophyllum spicatum</i></b>	<b>8</b>	<b>62</b>	<b>78</b>	<b>68</b>	<b>ND</b>	<b>38</b>	<b>39</b>	<b>32</b>
Slender naiad	<i>Najas flexilis</i>	14	12	4	0	ND	ND	ND	ND
<b>Minor naiad</b>	<b><i>Najas minor</i></b>	<b>22</b>	<b>40</b>	<b>22</b>	<b>30</b>	<b>ND</b>	<b>15</b>	<b>13</b>	<b>6</b>
Pickerelweed	<i>Pontederia cordata</i>	0	4	0	0	ND	ND	ND	ND
Snailseed pondweed	<i>Potamogeton bicupulatus</i>	9	20	12	14	ND	ND	ND	ND
<b>Curlyleaf pondweed</b>	<b><i>Potamogeton crispus</i></b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>ND</b>	<b>&gt;0.1</b>	<b>&gt;0.1</b>	<b>0</b>
Leafy pondweed	<i>Potamogeton foliosus</i>	0	0	2	0	ND	ND	ND	ND
Small pondweed	<i>Potamogeton pusillus</i>	0	4	0	0	ND	ND	ND	ND
Bur-reed	<i>Sparganium species</i>	1	0	0	8	ND	ND	ND	ND
<b>Total Invasive Species Richness</b>		<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>				
Total Native Species Richness		7	6	7	7				
Total Species Richness		9	8	9	9				
Invasive plant (in bold)									
* Percent occurrence on 50 points in 5 transects									
**Not Determined									

## Squantz Pond

Our 2017 survey of Squantz Pond confirmed the presence of the invasive species Eurasian watermilfoil and minor naiad, along with seven native species (Table 4). Eurasian watermilfoil covered 32 acres and grew throughout most areas less than 4 m deep. The coverage was slightly less than the 39 acres found in 2016 (Bugbee and Fanzutti 2017). We found only six acres of minor naiad in 2017 compared to 13 acres in 2016 and 15 acres in 2015. Curlyleaf pondweed was not found in 2017 and was extremely sparse in 2015 and 2016 (>0.1 acres). Native species found on transects in all four survey years were waterwort, spikerush, and snailseed pondweed while primrose-willow was found for the first time in 2017. Coontail, western waterweed and bur-reed were present in 2017 but not all previous years. Slender naiad was found in all survey years except 2017 while pickerelweed was found only in 2017.



Figure 13. Yearly comparison of the northern portion of Squantz Pond in 2016 (left) and 2017 (right).

Table 5. Yearly comparisons of the number and size of invasive patches in Squantz Pond.

Year	Patch Size (acres)											
	Eurasian watermilfoil			Minor naiad				Curlyleaf pondweed				
	Number	(min)	(max)	(mean)	Number	(min)	(max)	(mean)	Number	(min)	(max)	(mean)
2017	39	0.0002	5.5	0.8	16	0.0002	1.4	0.4	0	0.0	0.0	0.0
2016	100	0.0002	11.9	0.4	20	0.0589	2.0	0.6	3	0.0002	0.0002	0.0002
2015	46	0.0002	10.2	0.8	13	0.2	4.1	1.2	1	0.004	0.004	0.004

Table 6. Yearly comparisons of the abundance of invasive plants in patches in Squantz Pond.

Year	Patch Abundance (1 = sparse - 5 = dense)								
	Eurasian watermilfoil			Minor naiad			Curlyleaf pondweed		
	(min)	(max)	(mean)	(min)	(max)	(mean)	(min)	(max)	(mean)
2017	1	5	2.6	2	3	2.1	0	0	0.0
2016	1	5	2.7	1	5	2.9	1	2	1.7
2015	1	4	2.6	2	5	3.5	3	3	3.0

We found 39 patches of Eurasian watermilfoil in our 2017 survey (Table 5). The largest patch covered 5.5 acres of the northern portion of the lake along the eastern shoreline by transect 3 (Map 1, Page 35). The average 2017 patch size of Eurasian watermilfoil was 0.8 acres, an increase from the 0.4 acres found in 2016. The mean patch abundance in 2017 was 2.6, a slight decrease from the 2.7 found in 2016. Both the average patch size and mean patch abundance found in 2017 were identical to 2015 (0.8 acres and an abundance of 2.6). Despite only slight quantitative differences between 2016 and 2017 patch size and mean abundance, the lake looked much different between the two years (Figure 13). In 2016, Eurasian watermilfoil frequently reached the surface and was often coated with algal mats. In

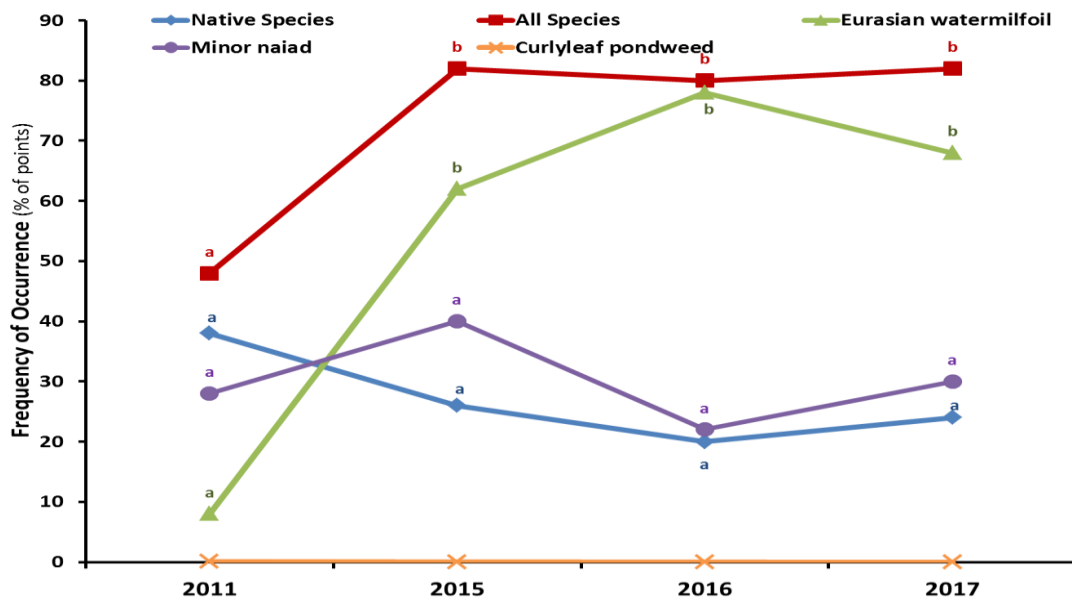


Figure 14. Yearly comparison of the frequency of occurrence of native and invasive species on transects in Squantz Pond. Points with the same letter are not significantly different.

2017, however, there was little to no algae, and the Eurasian watermilfoil rarely surfaced. We found 16 patches of minor naiad in 2017, a decrease from 20 in 2016. The largest patch found in 2017 was two acres located in the cove at the northernmost part of the lake (Map 1, Page 35). Minor naiad had a mean patch size of 0.4 acres. The mean patch abundance of minor naiad decreased from 2.9 in 2016 to 2.1 in 2017. We did not find any curlyleaf pondweed in 2017 and only a few plants were observed in 2016.

There were no significant differences ( $p \leq 0.05$ ) in the frequency of occurrence (FO) of Eurasian watermilfoil on transects in 2017 (68%) compared to 2016 (78%) or 2015 (62%). All years, however, were considerably greater than 2011 (8%) (Figure 14). The FO of minor naiad in 2017 was 30% which fell in the range of the previous years (22% – 40%) and was not statistically different. No curlyleaf pondweed was found in any years on transects but a few plants were observed elsewhere. The FO of all species (native + invasive) was 82% in 2017, and was only statistically different from 2011 (48%). The FO of native species (24%) was not statistically different from any of the previous year's thus most of the increase in all species from 2011 was caused by Eurasian watermilfoil.



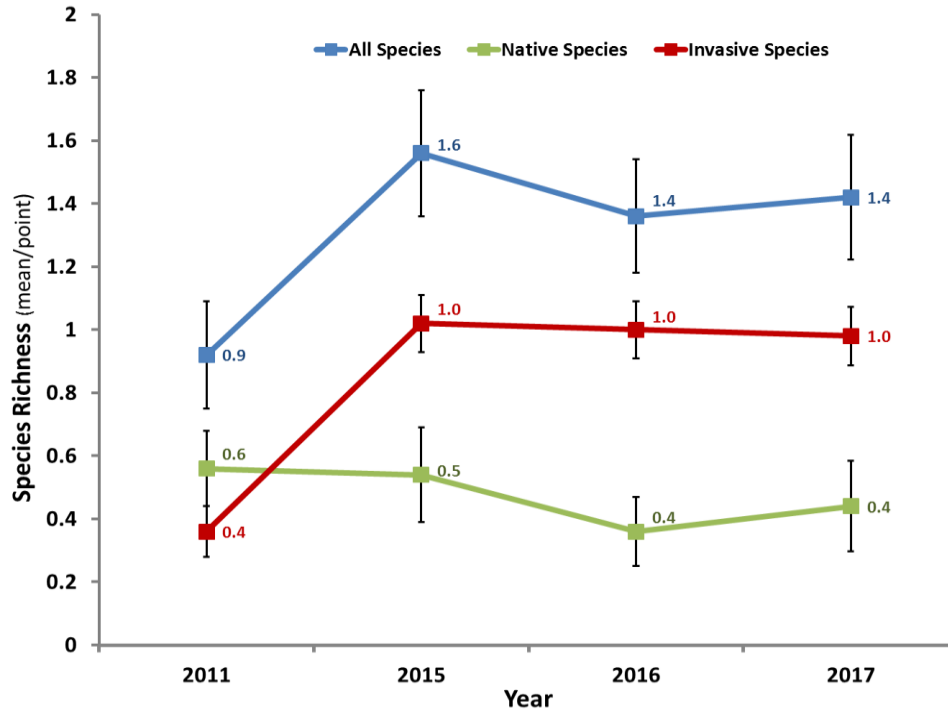


Figure 15. Yearly comparison of the average number of species per transect point in Squantz Pond. Error bars +/- one standard error of the mean.

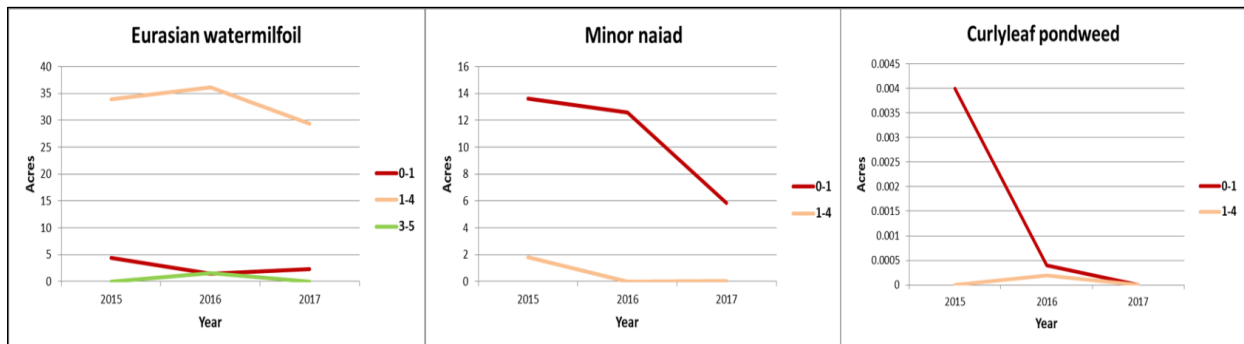


Figure 16. Comparisons of depth preferences of invasive plants in Squantz Pond.

The species richness of all species and invasive species richness were similar in 2015, 2016, and 2017 but significantly greater than 2011 ( $\pm 1.0$  SEM, Figure 15). Native species richness, however, was similar in all years (range 0.4 – 0.6). These findings are consistent with the large increase in Eurasian watermilfoil quantified in the frequency of occurrence data.

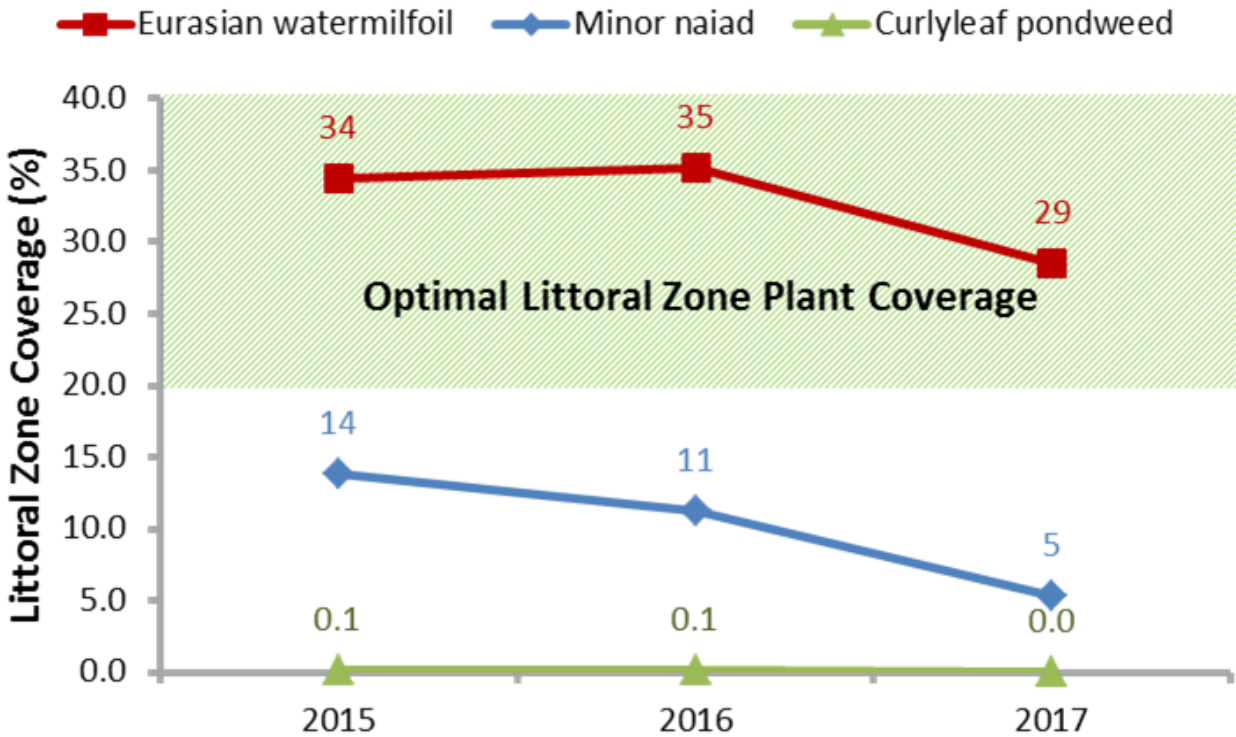


Figure 17. Littoral zone coverage of invasive aquatic plants in Squantz Pond.





Most Eurasian watermilfoil in Squantz Pond (30 acres) was located at a depth of 1 – 4 m with a small amount at a depth of 0 - 1 m (2.3 acres) (Figure 16). We found most minor naiad (5.9 acres) at a depth between 0 - 1 m in 2017, with the rest (0.04 acres) at 1 – 4 m. This showed little change from previous years.

Squantz Pond has a littoral zone of 111 acres or 42% of its total area. Eurasian watermilfoil covered 29% of the littoral zone in 2017, a slight decrease from 35% coverage found in 2016 (Figure 17). Minor naiad littoral zone coverage decreased to 5.3% in 2017 from 11.3% in 2016. Curlyleaf pondweed covered less than 0.1% in both 2016 and 2015 but was not found in 2017. The optimal littoral plant zone coverage of 20 - 40% (Jacobs and O’Donnell 2002) is satisfied by Eurasian watermilfoil alone. The grass carp introduction into Candlewood Lake may reduce the littoral zone plant coverage in Squantz Pond as the connection under the Route 39 causeway offers no barriers to migration of the fish between waterbodies.

**Squantz Pond  
New Fairfield, CT  
266 Acres**






Surveyed May 19 to 24, 2017 and  
July 26, 2017 to August 1, 2017  
by Summer Stebbins, Amanda Massa,  
and Abby Wiegand  
Invasive Aquatic Plant Program

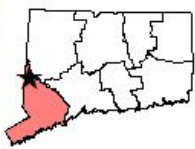
**Legend**

-  Water Clarity Measured
-  DEEP Boat Launch
-  Transect Point
-  Water Sample Site

**Invasive Patch/Points**

**Abundance Scale 1=Sparsely - 5=Dense**

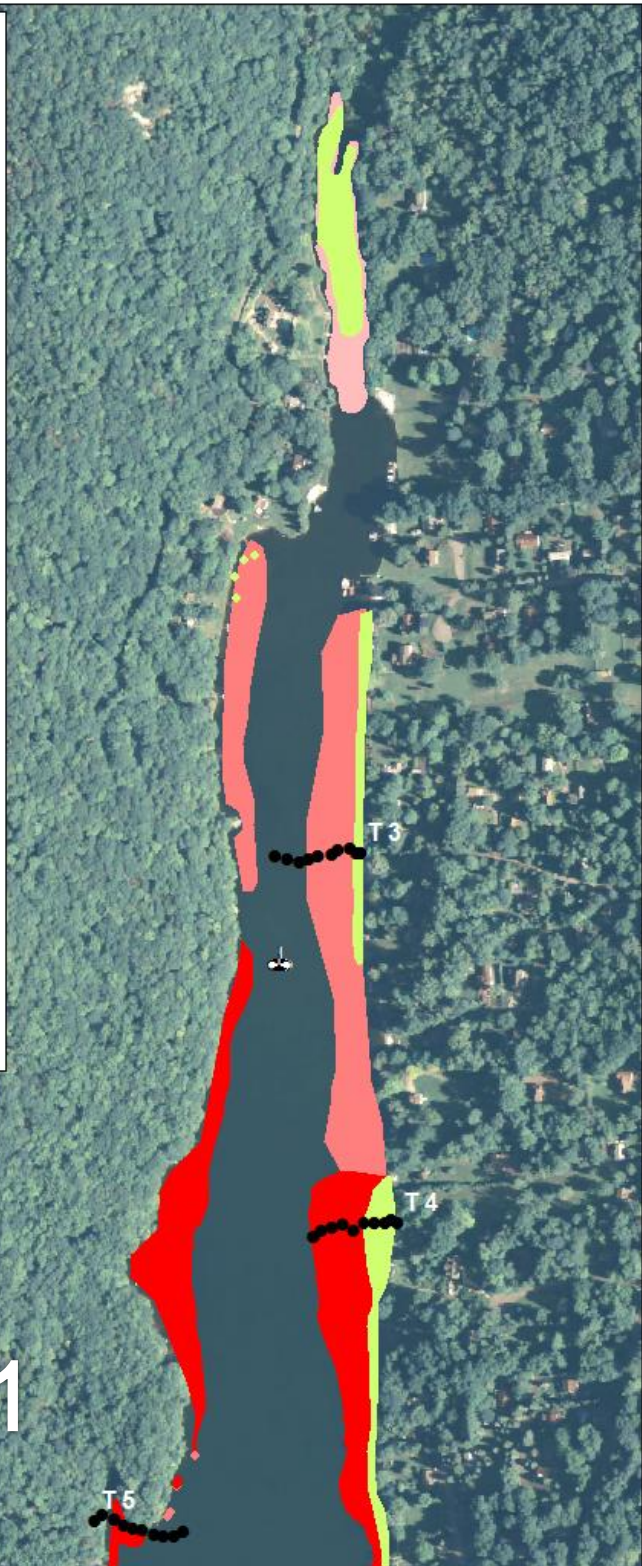
-  *Myriophyllum spicatum* = 1
-  *Myriophyllum spicatum* = 2
-  *Myriophyllum spicatum* = 3
-  *Najas minor* = 2
-  *Najas minor* = 3

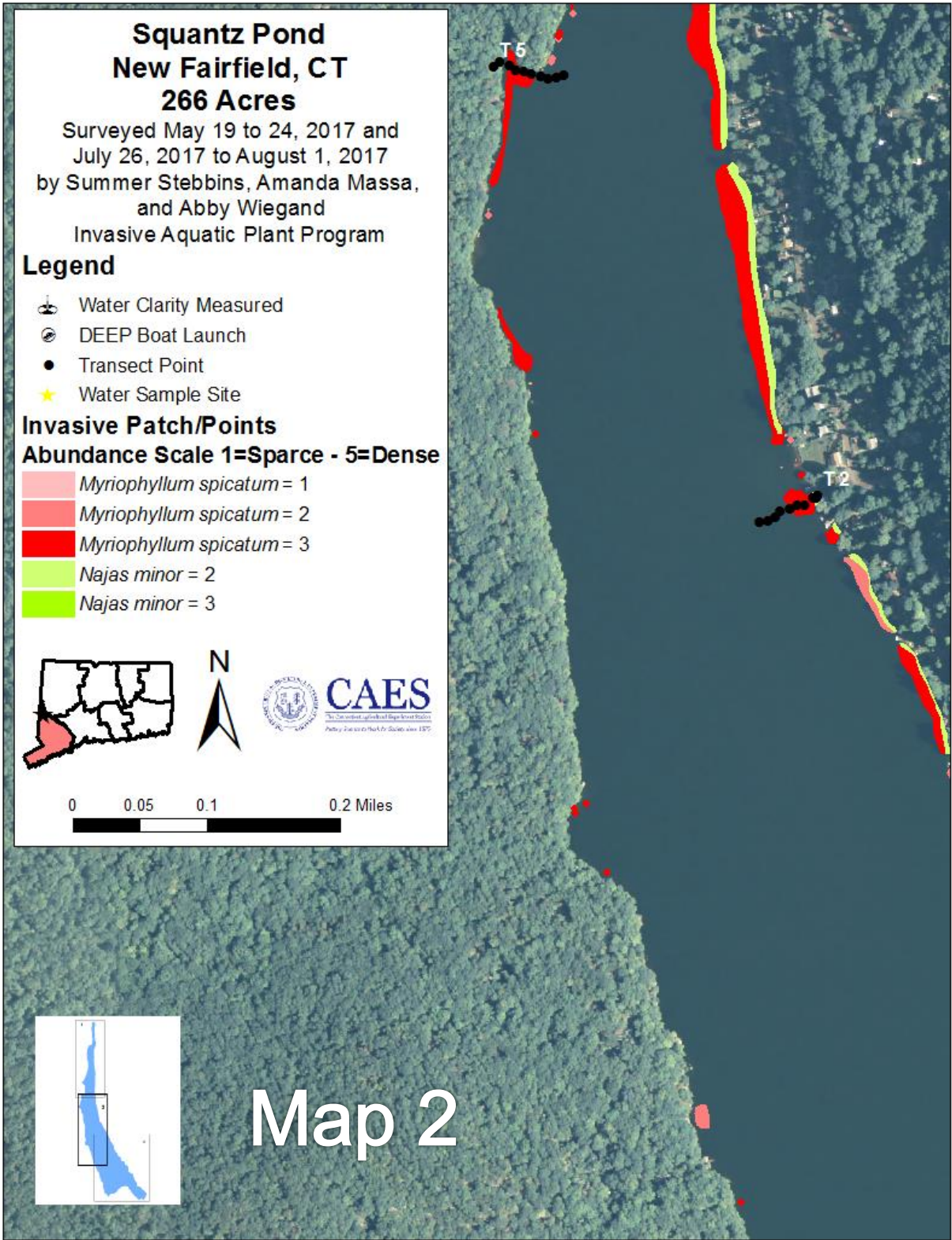


0 0.05 0.1 0.2 Miles



**Map 1**





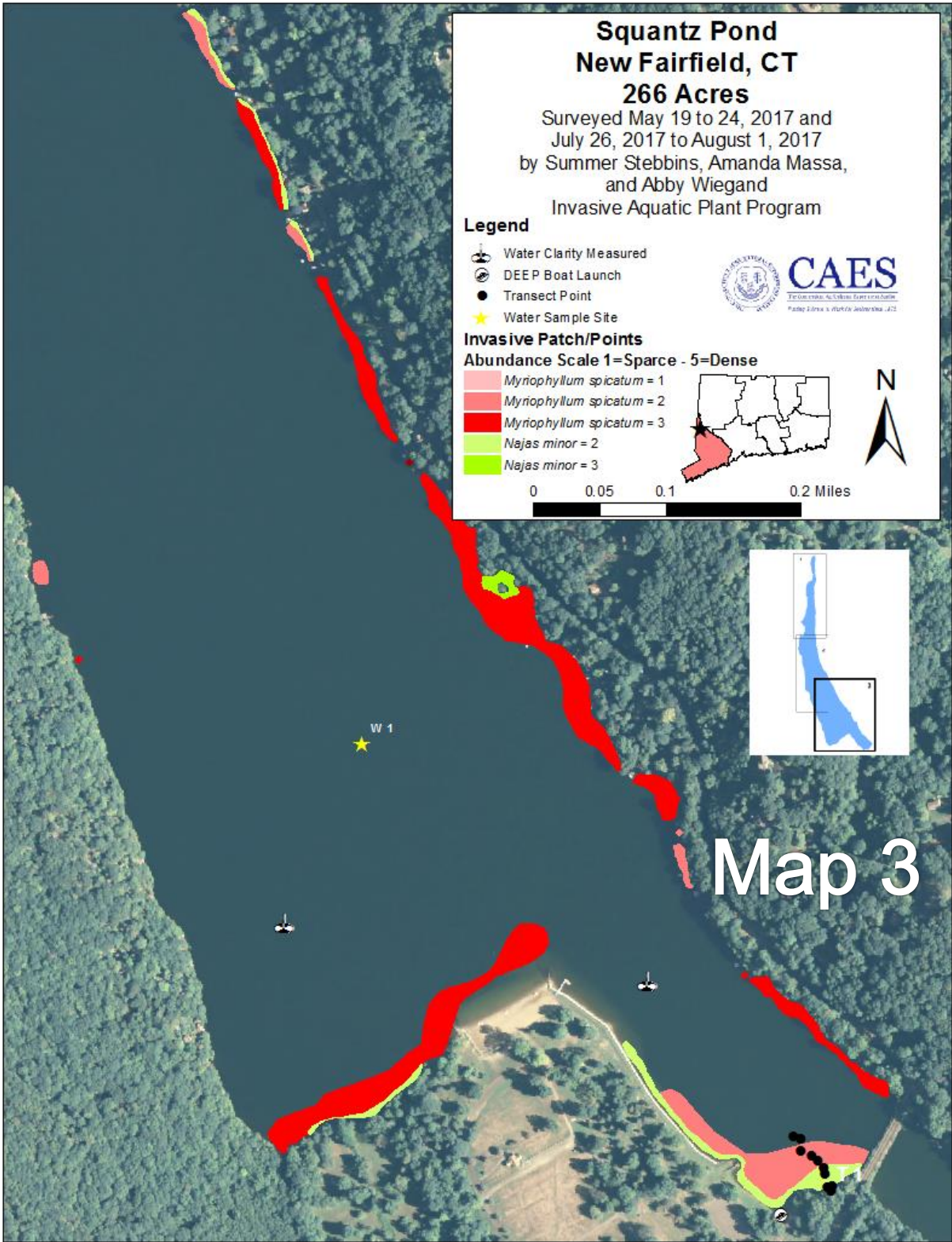


Table 7. The frequency of occurrence of aquatic plants on transects in Lake Lillinonah.

Common Name	Scientific Name	Frequency of Occurrence (percent*)									
		2007	2009	2010	2011	2012	2013	2014	2015	2016	2017
Water starwort	<i>Callitriche</i> spp.	1	0	0	0	0	0	0	0	0	0
Coontail	<i>Ceratophyllum demersum</i>	0	1	3	5	2	4	10	6	21	29
Waterwort	<i>Elatine</i> spp.	0	0	2	1	0	4	2	2	0	2
Spikerush	<i>Eleocharis</i> spp.	2	4	4	4	0	3	4	3	0	0
Western waterweed	<i>Elodea nuttallii</i>	0	0	0	0	0	0	0	4	5	5
Sevenangel pipewort	<i>Eriocaulon aquaticum</i>	0	1	2	3	0	0	0	0	0	0
Golden hedge-hyssop	<i>Gratiola aurea</i>	0	1	0	0	0	0	0	0	0	0
Duckweed	<i>Lemna minor</i>	0	1	0	0	4	0	0	0	0	0
Primrose-willow	<i>Ludwigia species</i>	0	0	0	0	0	1	1	0	0	0
<b>Eurasian watermilfoil</b>	<b><i>Myriophyllum spicatum</i></b>	<b>16</b>	<b>15</b>	<b>25</b>	<b>12</b>	<b>39</b>	<b>35</b>	<b>25</b>	<b>31</b>	<b>39</b>	<b>48</b>
<b>Minor naiad</b>	<b><i>Najas minor</i></b>	<b>14</b>	<b>6</b>	<b>5</b>	<b>12</b>	<b>19</b>	<b>7</b>	<b>21</b>	<b>14</b>	<b>14</b>	<b>10</b>
Snailseed pondweed	<i>Potamogeton bicupulatus</i>	0	3	0	0	0	0	0	0	0	7
<b>Curlyleaf pondweed</b>	<b><i>Potamogeton crispus</i></b>	<b>3</b>	<b>0</b>	<b>1</b>	<b>5</b>	<b>4</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>5</b>	<b>0</b>
Leafy pondweed	<i>Potamogeton foliosus</i>	0	0	4	4	1	4	0	0	5	2
Illinois pondweed	<i>Potamogeton illinoensis</i>	2	2	0	0	0	0	0	0	0	0
Floating-leaf pondweed	<i>Potamogeton natans</i>	0	0	0	0	0	0	0	0	0	1
Longleaf pondweed	<i>Potamogeton nodosus</i>	0	0	0	1	2	0	0	0	0	0
Clasping-leaf pondweed	<i>Potamogeton perfoliatus</i>	0	0	0	0	0	0	0	0	1	0
Small pondweed	<i>Potamogeton pusillus</i>	0	0	1	0	1	1	1	0	4	0
Arrowhead	<i>Sagittaria</i> spp.	0	0	1	0	0	5	4	2	2	4
Bur-reed	<i>Sparganium species</i>	0	0	0	0	0	0	0	0	1	0
Sago pondweed	<i>Stuckenia pectinata</i>	0	0	0	1	0	0	0	0	0	0
<b>Water chestnut</b>	<b><i>Trapa natans</i></b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Watermeal	<i>Wolffia</i> spp.	0	0	0	0	0	0	0	0	0	9
Horned pondweed	<i>Zannichellia palustris</i>	1	0	4	1	0	3	3	2	0	0
Water stargrass	<i>Zosterella dubia</i>	4	0	0	0	0	0	0	2	5	9
<b>Total Invasive Species Richness</b>		<b>3</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>
Total Native Species Richness		5	7	8	8	5	8	7	7	8	9
Total Species Richness		8	9	11	11	8	11	10	10	11	11
<b>Invasive plant</b>											
* Percent occurrence on 100 points in 10 transects											

## Lake Lillinonah

Our 2017 aquatic plant survey of Lake Lillinonah confirmed the presence of invasive Eurasian watermilfoil, curlyleaf pondweed, minor naiad, and water chestnut as well as nine native species (Table 7, Figure 18, Page 39). The invasive species are the same as found in previous years and the nine native species observed in 2017 was the highest number yet. Floating-leaf pondweed and watermeal were found for the first time. We found 154 acres of Eurasian watermilfoil in 2017 which eclipses the previous high of 90 acres in 2013 and is more than double the 72 acres that were found in our last survey in 2015 (Figure 18, Page 39). Minor naiad acreage increased from 15 acres in 2015 to 20 acres in 2017. This was the largest coverage of any survey. Water chestnut acreage remained at less than one acre in 2017 and was influenced by a hand harvesting program.

Our 2017 transect data showed the frequency of occurrence (FO) of Eurasian watermilfoil was 48% (Table 7, Figure 19, Page 39). Previous years ranged from 12 – 39% and the 2017 data were statistically different from 2007 – 2011 and 2014 ( $p \leq 0.05$ ). The FO of minor naiad was 10% in 2017 and was not statistically different from any previous years.

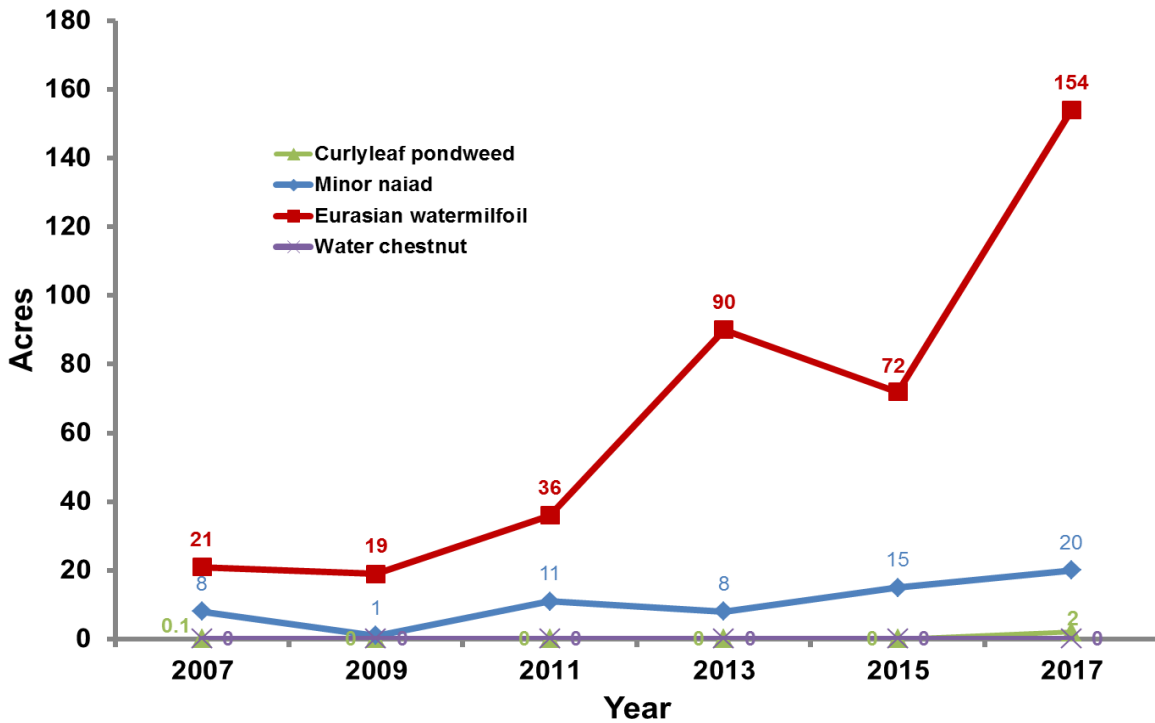


Figure 18. Yearly changes in the acreage of invasive aquatic plants in Lake Lillinonah.

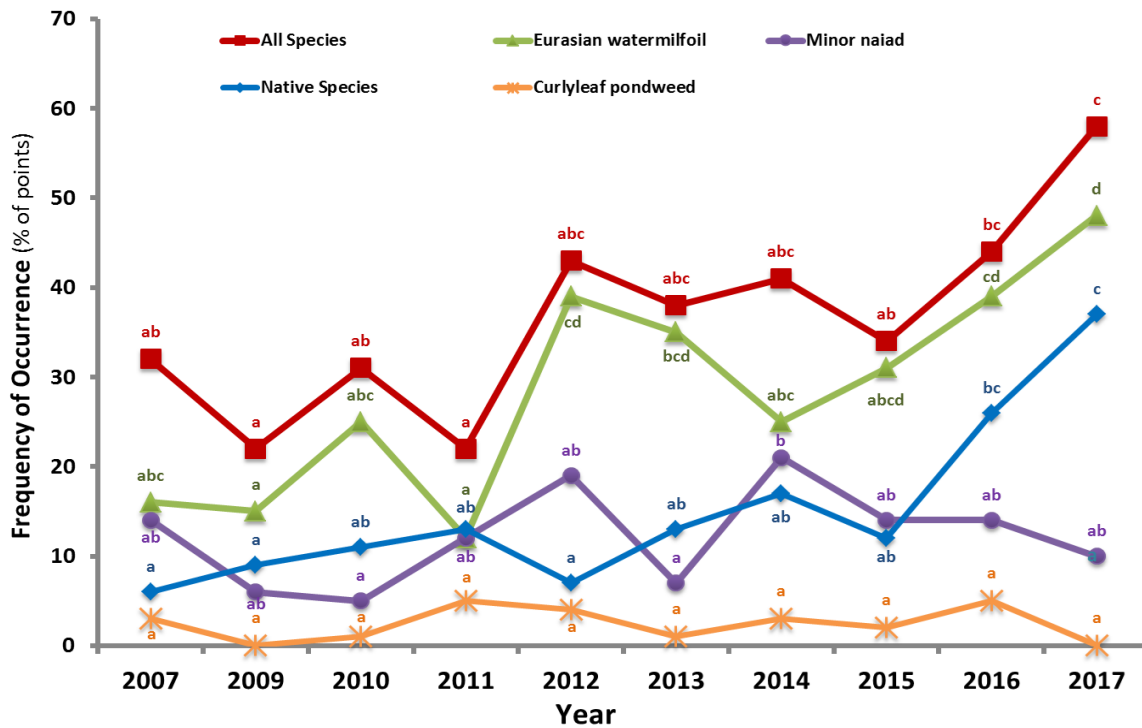


Figure 19. Yearly comparisons of the frequency of native and invasive plants on transects in Lake Lillinonah. Points with the same letters are not significantly different.

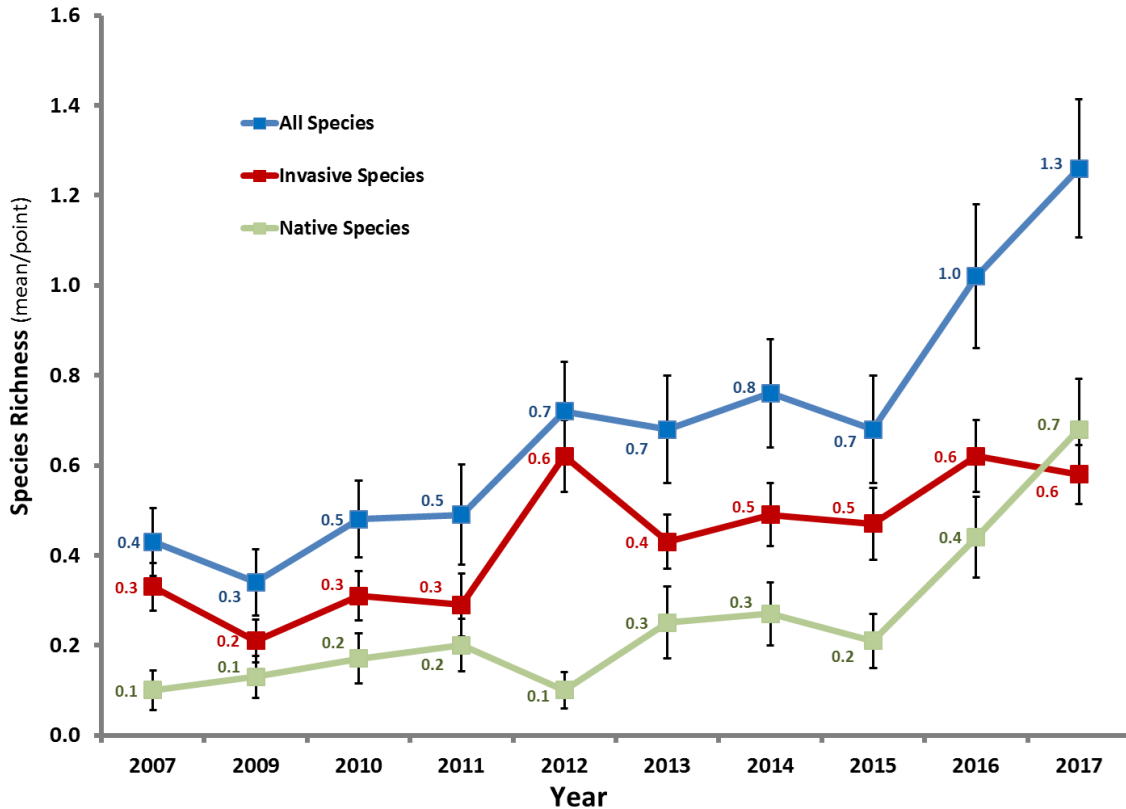


Figure 20. Yearly comparisons of the average number of species per transect point in Lake Lillinonah. Error bars +/- one standard error of the mean.

Curlyleaf pondweed was not found since 2009. Because transects are only analyzed during the summer after most curlyleaf pondweed has senesced, there is an inherent bias toward underestimation of this species in our data. The FO of all species (native + invasive) was 58% in 2017 and statistically greater ( $p \leq 0.05$ ) than 2007 – 2011 and 2015. Changes in FO of the plant community along transects in Lake Lillinonah were likely influenced by fluctuating water levels.

The species richness of all species in 2017 was 1.3 (Figure 20) which was significantly greater ( $\pm 1$  SEM) than all previous years except 2016. Invasive species richness in 2017 was 0.6 which is similar to 2012 and 2016. Native species richness was 0.7 in 2017. This was significantly greater than all previous years (range of 0.1 - 0.4). Thus, conditions that are favoring the Eurasian watermilfoil population may also be promoting an increase in native species.



Table 8. Yearly comparison of the number and size of invasive patches and their sizes in Lake Lillinonah.

Patch Size (acres)																
Year	Eurasian watermilfoil				Minor naiad				Curlyleaf pondweed				Water chestnut			
	Number	(min)	(max)	(mean)	Number	(min)	(max)	(mean)	Number	(min)	(max)	(mean)	Number	(min)	(max)	(mean)
2017	395	0.0002	12.5	0.4	31	0.0002	2.8	0.6	13	0.0002	1.3	0.1	3	0.0002	0.0002	0.0002
2015	164	0.0002	5.4	0.4	48	0.0002	3.9	0.3	13	0.0002	0.0002	0.0002	8	0.0002	0.0002	0.0002
2013	245	0.0002	7.1	0.4	22	0.0002	2.7	0.4	4	0.0002	0.0002	0.0002	6	0.0002	0.0002	0.0002
2011	109	0.0002	4.8	0.3	83	0.0002	1.6	0.1	6	0.0002	0.0002	0.0002	5	0.0002	0.0002	0.0002
2009	131	0.0002	2.3	0.1	5	0.04	0.3	0.1	1	0.0002	0.0002	0.0002	0	0.0	0.0	0.0
2007	249	0.0002	1.6	0.1	95	0.0002	1.5	0.1	10	0.0002	0.0002	0.0002	0	0.0	0.0	0.0

Table 9. Yearly comparison of the abundance of invasive patches in Lake Lillinonah.

Patch Abundance (1 = sparse - 5 = dense)													
Year	Eurasian watermilfoil			Minor naiad			Curlyleaf pondweed			Water chestnut			
	(min)	(max)	(mean)	(min)	(max)	(mean)	(min)	(max)	(mean)	(min)	(max)	(mean)	
2017	1	5	2.8	2	4	2.7	1	2	1.8	1	3	2.0	
2015	1	5	2.2	1	5	3.0	1	5	3.4	2	5	3.6	
2013	1	5	2.3	1	4	2.1	1	3	2.0	1	2	1.5	
2011	1	5	2.4	1	5	2.9	1	3	2.0	2	3	2.6	
2009	1	4	2.1	2	3	2.6	1	1	1.0	0	0	0.0	
2007	1	4	1.9	1	5	3.6	1	4	2.7	0	0	0.0	

We found 395 patches of Eurasian watermilfoil in Lake Lillinonah during our 2017 survey, which is a large increase from previous years when patch numbers ranged 109 – 249 (Table 8). The largest patch, located near transect 3 (Map 1, Page 45), was 12.5 acres and was considerably bigger than the any found to date (7.1 acres in 2013). Mean patch size of Eurasian watermilfoil in 2017 was 0.4 acres which was identical to our last three surveys. Eurasian watermilfoil mean patch abundance in 2017 was 2.8 (Table 9). This was the highest we have recorded in any year (previous range 1.9 – 2.4). Our 2017 survey found 31 patches of minor naiad which is within the previous years’ highly variable range of 5 – 91. Minor naiad had a mean patch size of 0.6 acres in 2017. This is a slight increase from past years (0.1 - 0.4). The largest patch of minor naiad was 2.8 acres located around transect 2 (Map 1, Page 45). Mean minor naiad patch abundance in 2017 was 2.7 and was within the narrow range of 2.1 - 3.6 observed in previous years.



Figure 21. Water chestnut and filamentous algae in Lake Lillinonah in 2017.

There were 13 patches of curlyleaf pondweed in 2017 (Table 8, Page 41) which was identical to 2015. We found the largest patch, covering 1.3 acres, during our spring surveillance. It was located in the southern end of the cove containing transect 10 (Map 2, Page 46). During our summer survey the patch had senesced and was no longer visible and curlyleaf pondweed found in other areas consisted of sporadic plants. The mean patch size of curlyleaf pondweed in 2017 remained small at 0.1 acres. Mean patch abundance of curlyleaf pondweed in 2017 was 1.8 and fell within the range of previous years (1.0 – 3.4).

We found 3 patches of water chestnut (Table 8, Page 41, Figure 21) in 2017. This is the lowest number of patches recorded since 2011, probably as a result of hand harvesting. The mean abundance of water chestnut was 2.0 in 2017 (Table 9, Page 41) and fell within its previous range (0 – 3.6).

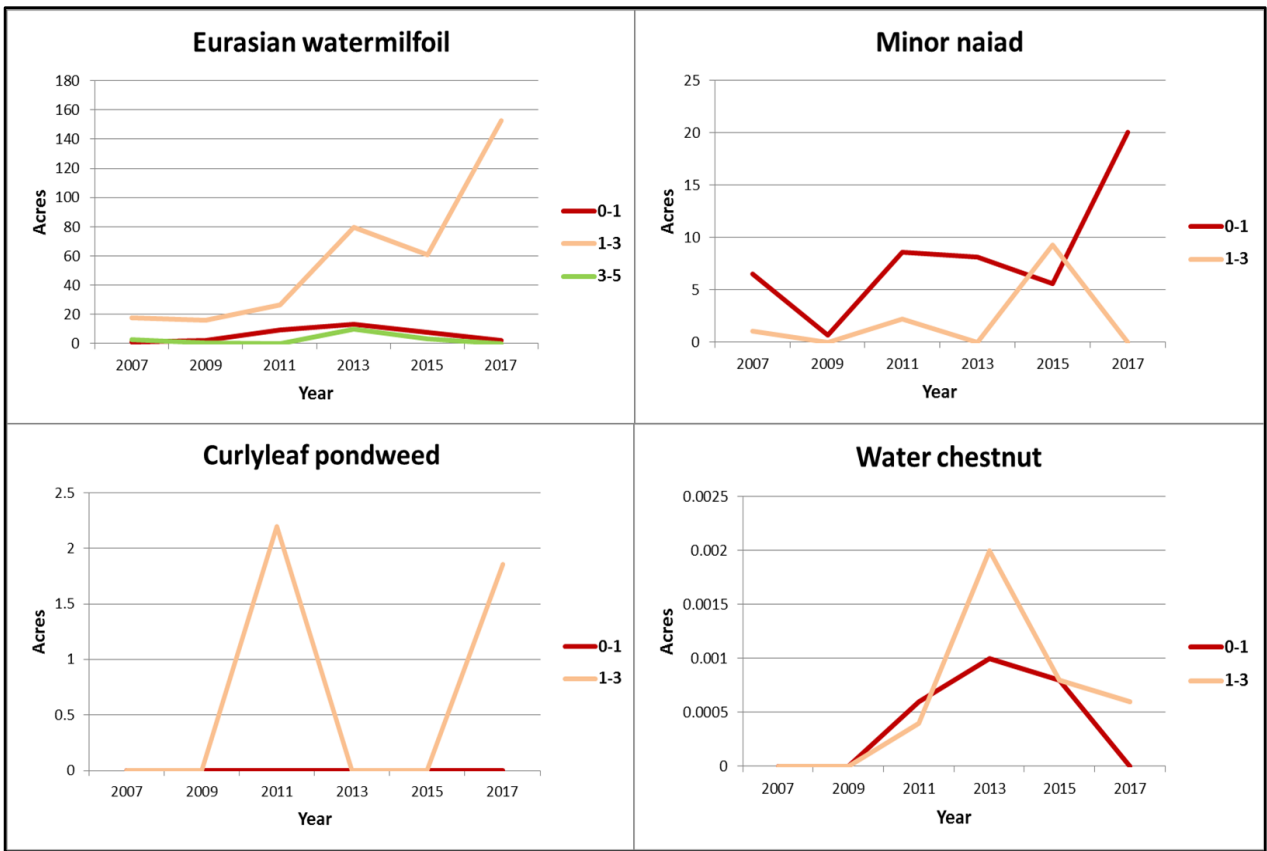


Figure 22. Yearly comparison of the depth preferences of invasive species in Lake Lillinnonah.

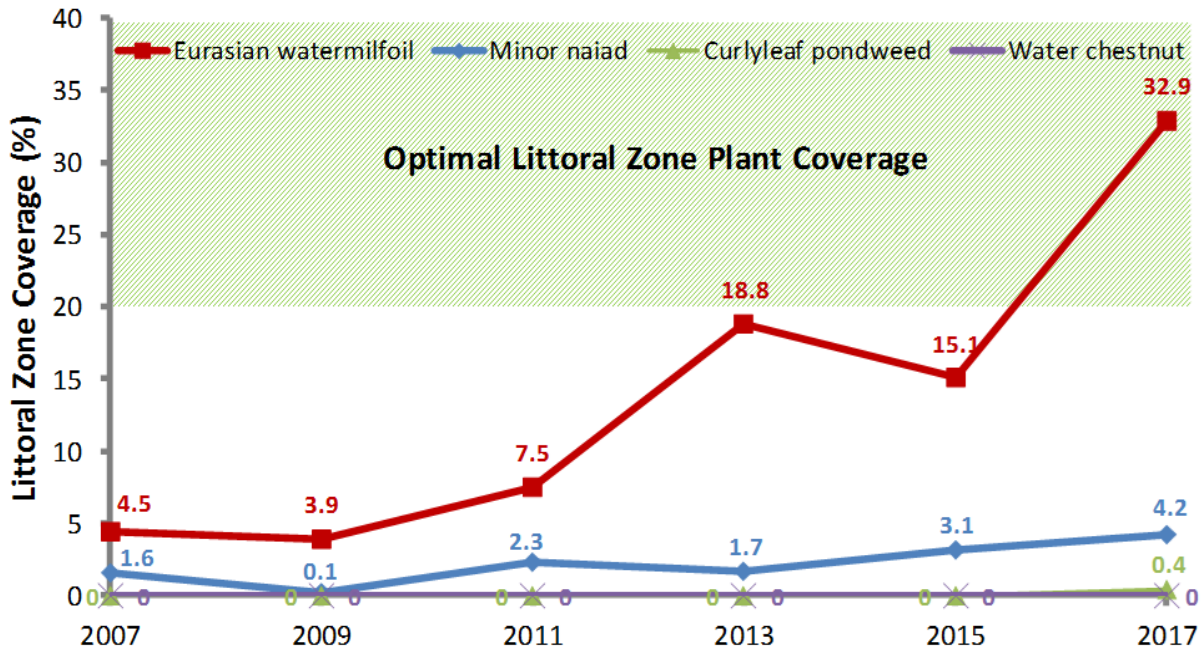


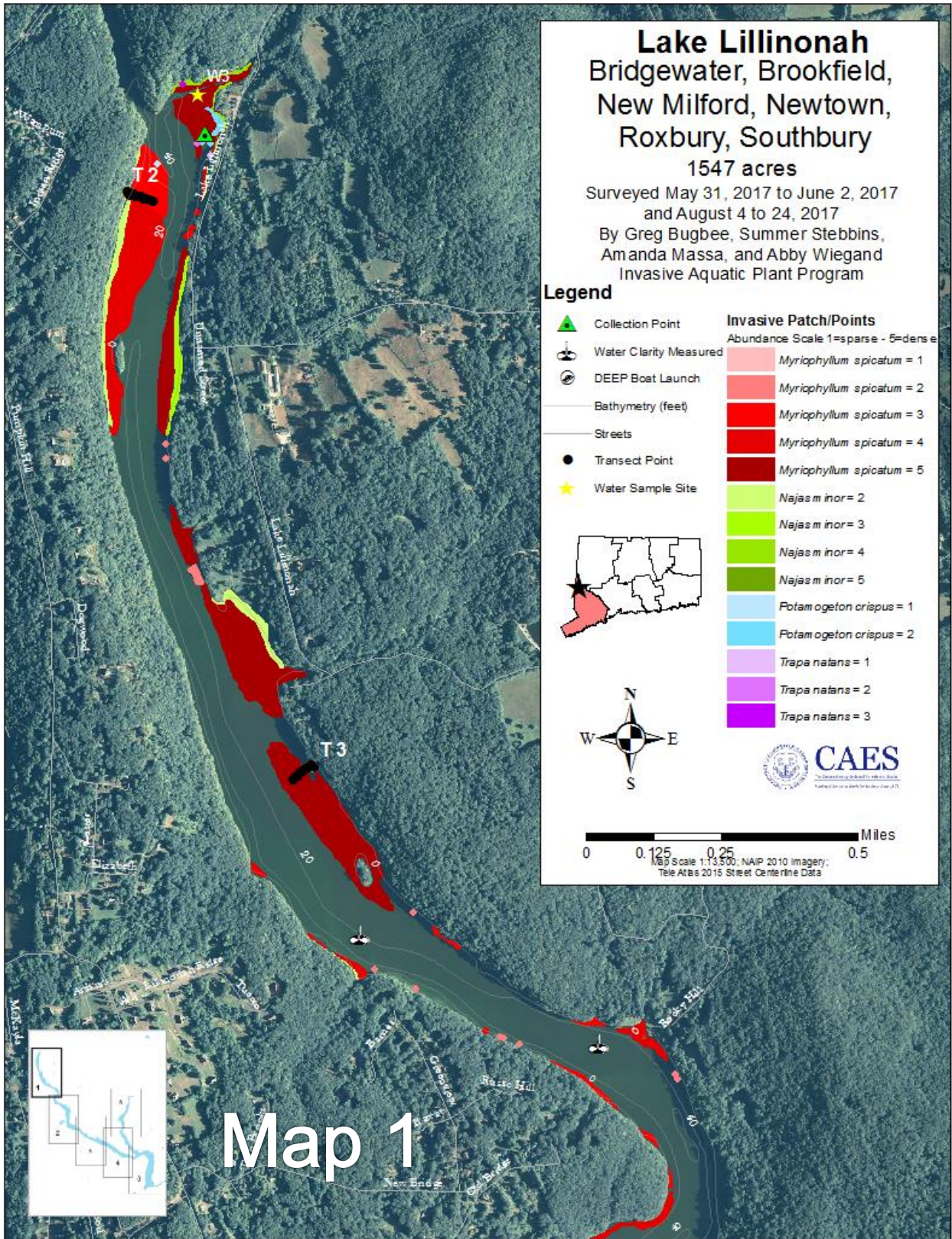
Figure 23. Yearly comparison of the coverage of the littoral zone by invasive species in Lake Lillinnonah.

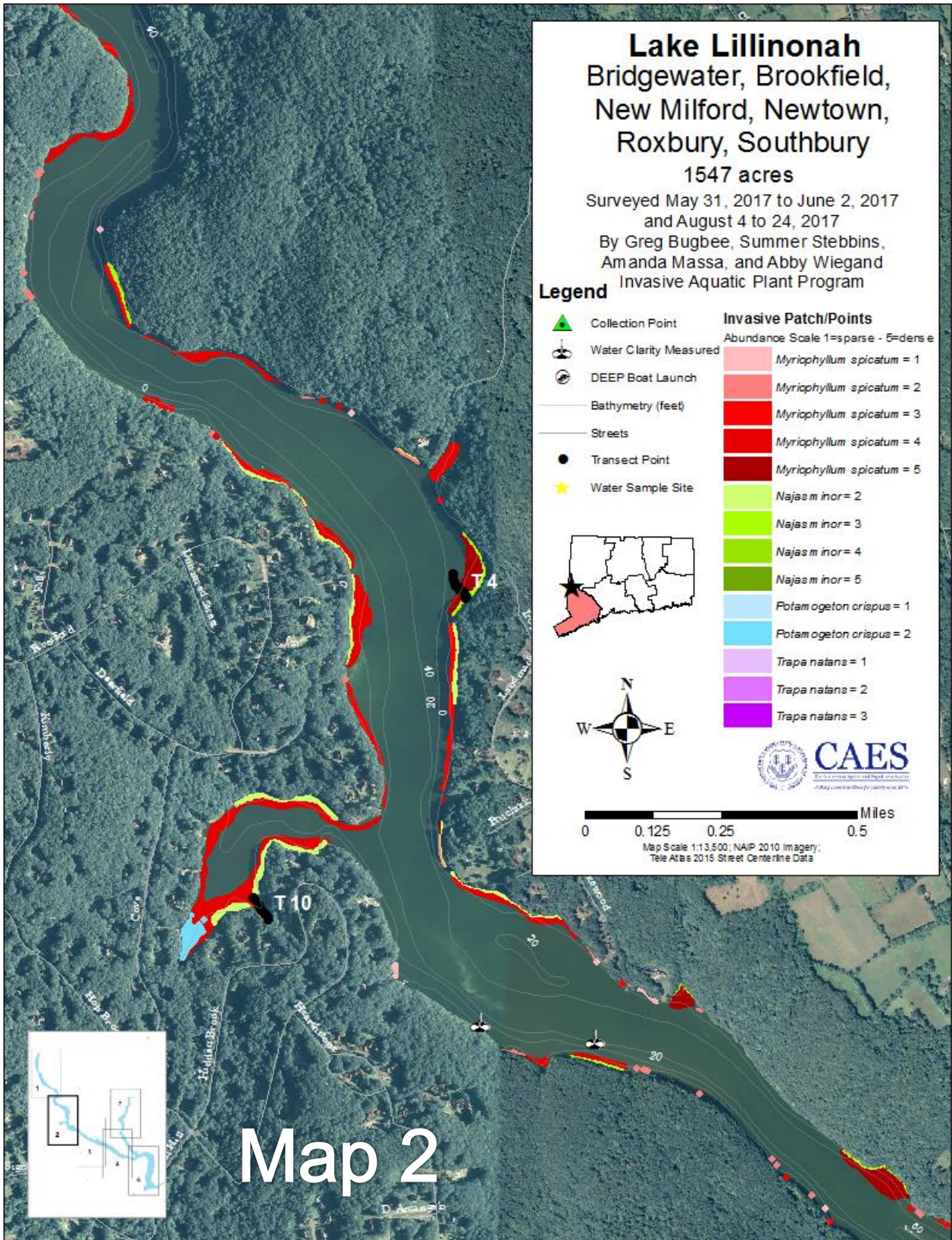


Figure 24. Zebra mussels growing on Eurasian watermilfoil in Lake Lillionah in 2017.

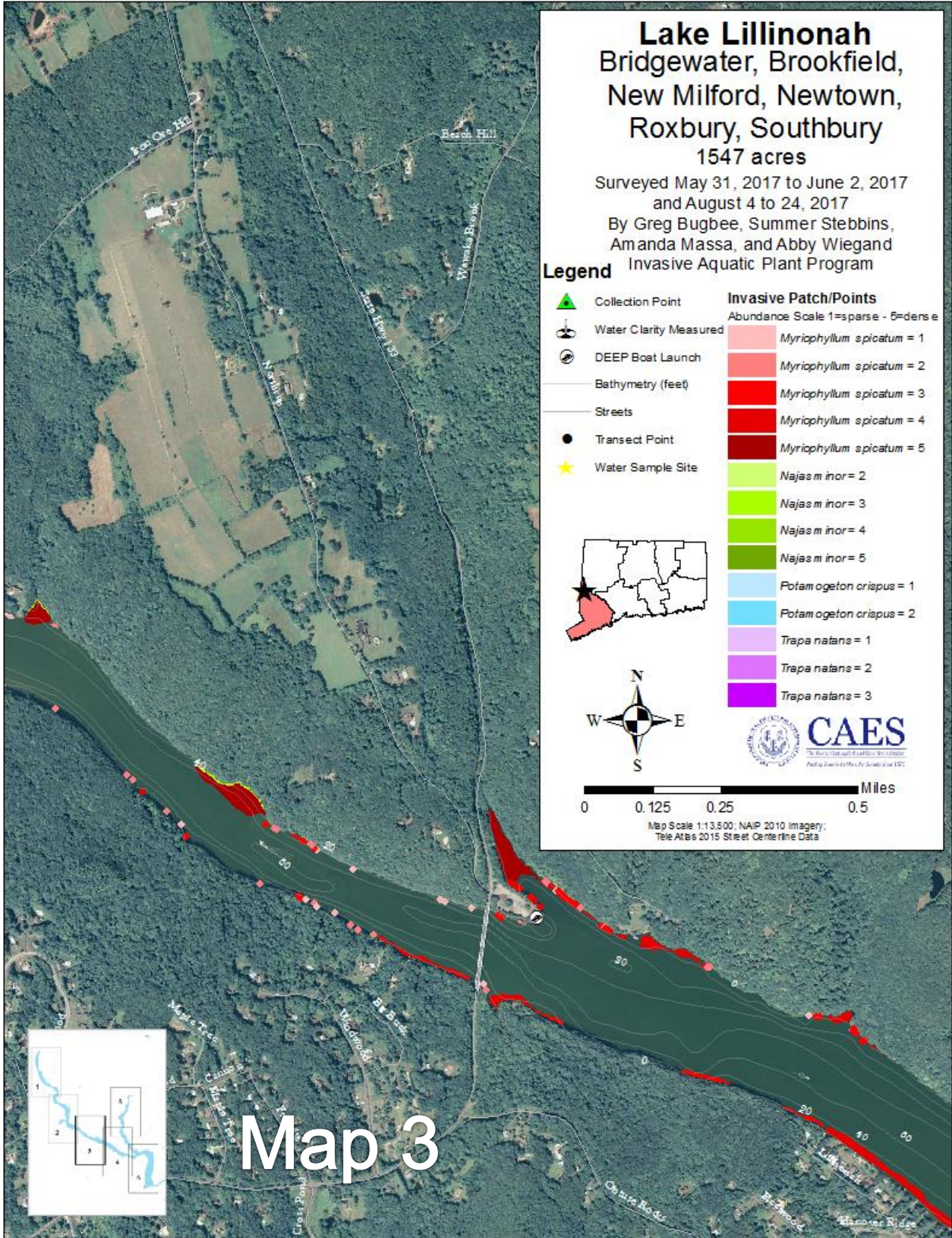
The depth preference of Eurasian watermilfoil has been similar throughout all years with most occurring at depths of 1-3 m (Figure 22, Page 43). For minor naiad, depth preferences remained similar to all previous years (0-1 m) except 2015 (1-3 m). Curlyleaf pondweed and water chestnut had depth preferences of 1-3 m in 2017, similar to previous years.

Lake Lillionah's littoral zone is 478 acres or 31% of the lake's area. Eurasian watermilfoil substantially increased its littoral zone coverage from a previous high of 19% in 2013 to 33% in 2017 (Figure 23, Page 43). Minor naiad increased its littoral zone coverage from 3.1% in 2015 to 4.2% in 2017. Curlyleaf pondweed's littoral zone coverage in Lake Lillionah totaled 0.4% in 2017 and remained low. As in previous years, water chestnut covered less than 0.1% of the littoral zone in 2017 and is consistent with all years it has been recorded. In 2017, we found zebra mussels attached to plants in Lake Lillionah (Figure 24) that could hinder plant growth.

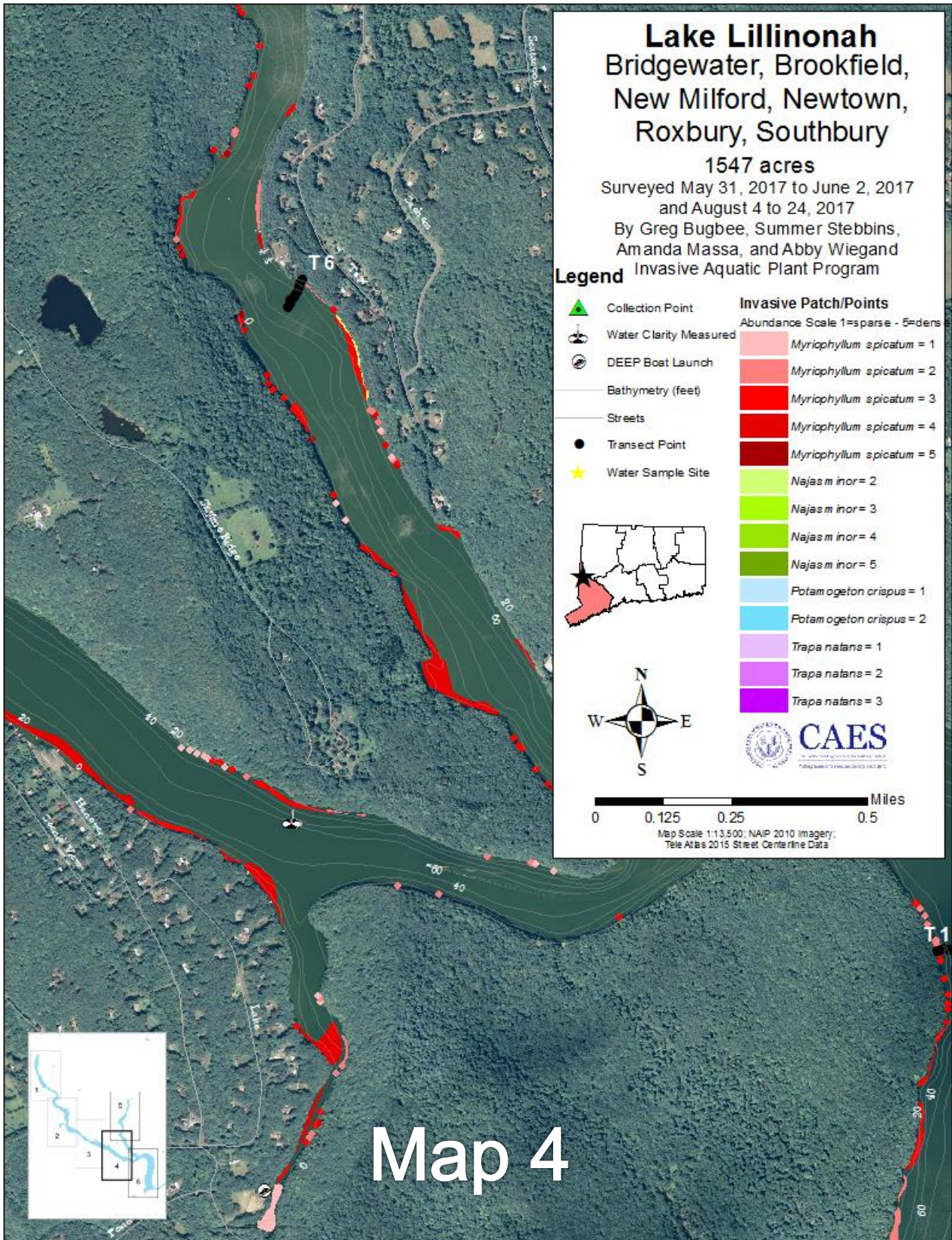




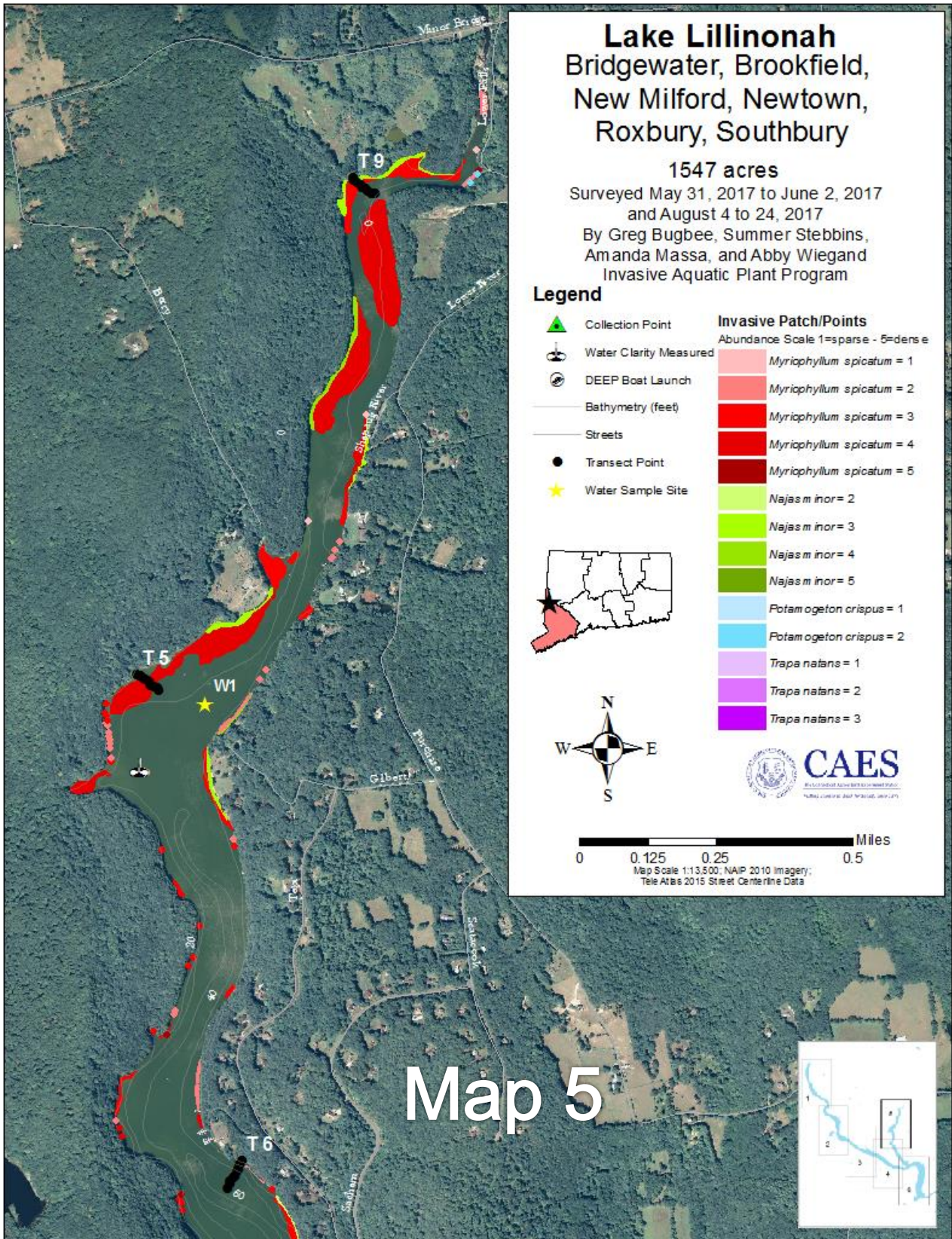
Map 2



Map 3







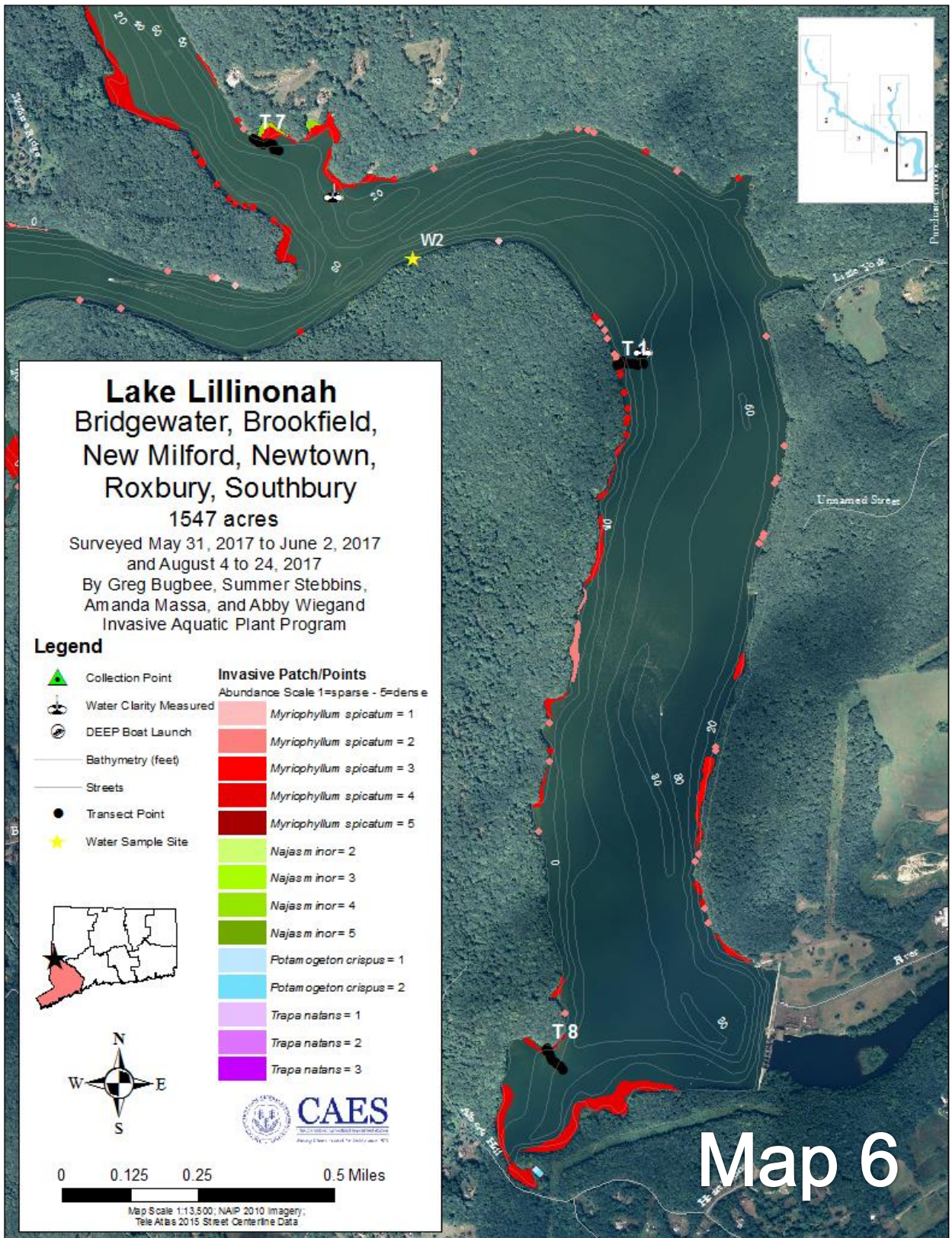


Table 10. Yearly comparisons of the frequency of occurrence and total area of aquatic vegetation in Lake Zoar.

Common Name	Scientific Name	Frequency of Occurrence (percent*)										Area (acres)						
		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2007	2008	2010	2012	2014	2016
Coontail	<i>Ceratophyllum demersum</i>	3	4	23	15	7	6	9	8	26	46	55	ND**	ND	ND	ND	ND	ND
Waterwort	<i>Elatine</i> spp.	0	0	0	0	0	0	0	0	0	4	0	ND	ND	ND	ND	ND	
Waterweed	<i>Elodea nuttallii</i>	6	7	7	23	0	1	2	1	9	22	22	ND	ND	ND	ND	ND	
Primrose-willow	<i>Ludwigia</i> spp.	0	0	0	0	1	0	1	0	0	0	0	ND	ND	ND	ND	ND	
European waterclover	<i>Marsilea quadrifolia</i>	0	0	0	0	0	0	0	0	0	0	0	<0.1	0.2	0.3	0.3	ND	0.3
Eurasian watermilfoil	<i>Myriophyllum spicatum</i>	35	37	33	49	18	15	49	24	24	35	37	63	70	85	85	33	23
Nodding waternymph	<i>Najas flexilis</i>	2	1	4	2	2	0	0	0	2	0	4	ND	ND	ND	ND	ND	ND
Minor naiad	<i>Najas minor</i>	18	18	16	24	8	17	21	10	16	33	30	33	13	12	34	1.6	23
Green arrow arum	<i>Peltandra virginica</i>	0	0	0	0	1	0	1	1	0	0	0	ND	ND	ND	ND	ND	ND
Snailseed pondweed	<i>Potamogeton bicupulatus</i>	0	0	0	0	0	0	0	0	0	0	9	ND	ND	ND	ND	ND	ND
Curlyleaf pondweed	<i>Potamogeton crispus</i>	6	10	7	7	1	9	5	2	5	17	8	21	4	12	17	26	62
Ribbonleaf pondweed	<i>Potamogeton ephyrus</i>	0	0	2	0	0	0	0	0	0	1	0	ND	ND	ND	ND	ND	ND
Leafy pondweed	<i>Potamogeton foliosus</i>	2	0	0	4	1	0	6	0	0	9	18	ND	ND	ND	ND	ND	ND
White stem pondweed	<i>Potamogeton praelongus</i>	0	0	1	1	0	0	0	0	0	0	0	ND	ND	ND	ND	ND	ND
Clasping leaf pondweed	<i>Potamogeton perfoliatus</i>	0	0	0	0	0	0	0	0	1	0	0	ND	ND	ND	ND	ND	ND
Small Pondweed	<i>Potamogeton pusillus</i>	0	0	0	0	0	0	0	0	0	9	0	ND	ND	ND	ND	ND	ND
Flatstem pondweed	<i>Potamogeton zosteriformis</i>	0	0	0	3	2	0	0	0	2	0	0	ND	ND	ND	ND	ND	ND
Arrowhead	<i>Sagittaria</i> spp.	0	0	0	0	0	0	1	0	1	2	2	ND	ND	ND	ND	ND	ND
Bur-reed	<i>Sparganium</i> spp.	0	0	0	0	0	0	0	0	0	1	1	ND	ND	ND	ND	ND	ND
Sago pondweed	<i>Stuckenia pectinata</i>	3	0	0	0	0	0	12	0	2	1	5	ND	ND	ND	ND	ND	ND
Eel grass	<i>Vallisneria americana</i>	8	6	15	6	9	11	2	13	12	28	28	ND	ND	ND	ND	ND	ND
Water stargrass	<i>Zosterella dubia</i>	1	1	0	0	0	3	2	2	0	15	23	ND	ND	ND	ND	ND	ND
<b>Total Invasive Species Richness</b>		<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>						
Total Native Species Richness		7	5	6	7	7	4	9	5	7	11	10						
Total Species Richness		10	8	9	10	10	7	12	8	10	14	13						
Invasive plant																		
* Percent occurrence on 100 points in 10 transects																		

## Lake Zoar

Conforming to the FERC approved alternate year cycle of whole lake then transect only surveys for lakes Lillionah and Zoar, only transect data was obtained from Lake Zoar in 2017 (Figure 27). The invasive species found on transects were the same as found in our previous surveys; Eurasian watermilfoil, minor naiad, and curlyleaf pondweed (Table 10). The frequency of occurrence (FO) of Eurasian watermilfoil was 37% in 2017 (Table 10). This is slightly larger than the 35% in 2016, and is significantly greater ( $p \leq 0.05$ ) than 2011 and 2012 (Figure 25, Page 52). Minor naiad was found on 30% of transect points in 2017 and statistically similar to all years except 2011 and 2014 when the all-time lows of near 10% occurred. The 2017 frequency of occurrence of curlyleaf pondweed decreased to 8% from 17% in 2016. We found ten native plant species on Lake Zoar's transects in 2017, which is among the highest yet (only 2016 higher with 11). Coontail was the most commonly found native species on transects (55%) and was the most found in any year. New to transects in 2017 were the native species snailseed pondweed and bur-reed.

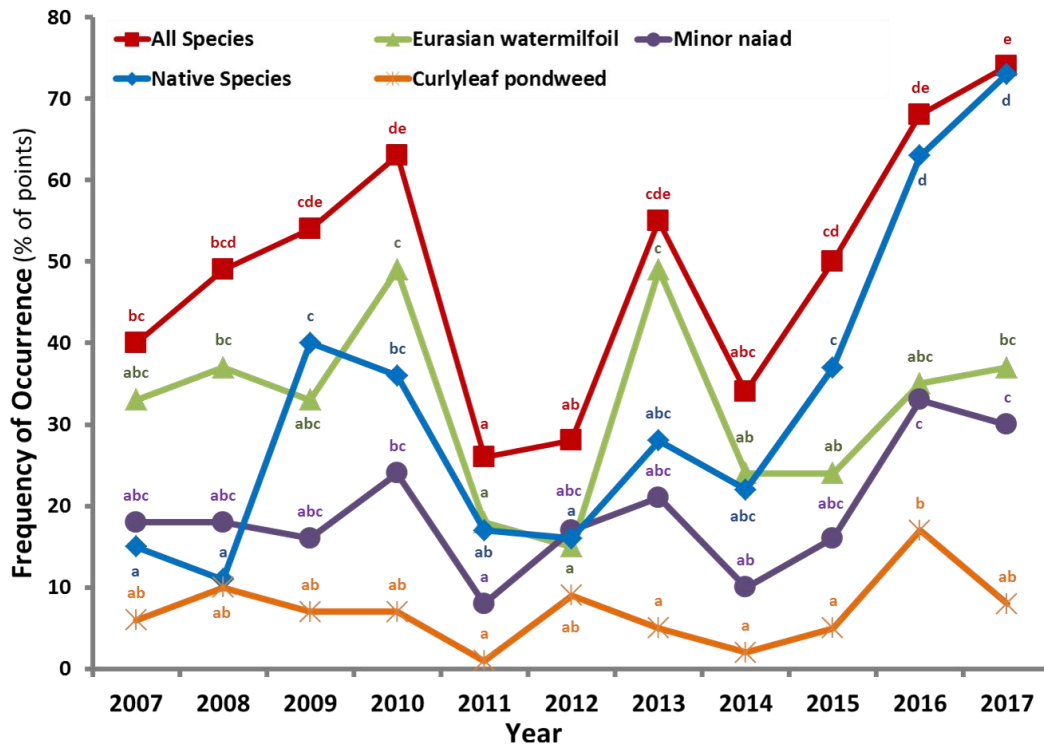


Figure 25. Yearly comparisons of the frequency of native and invasive plants on transects in Lake Zoar. Points with the same letters within species are not significantly different.

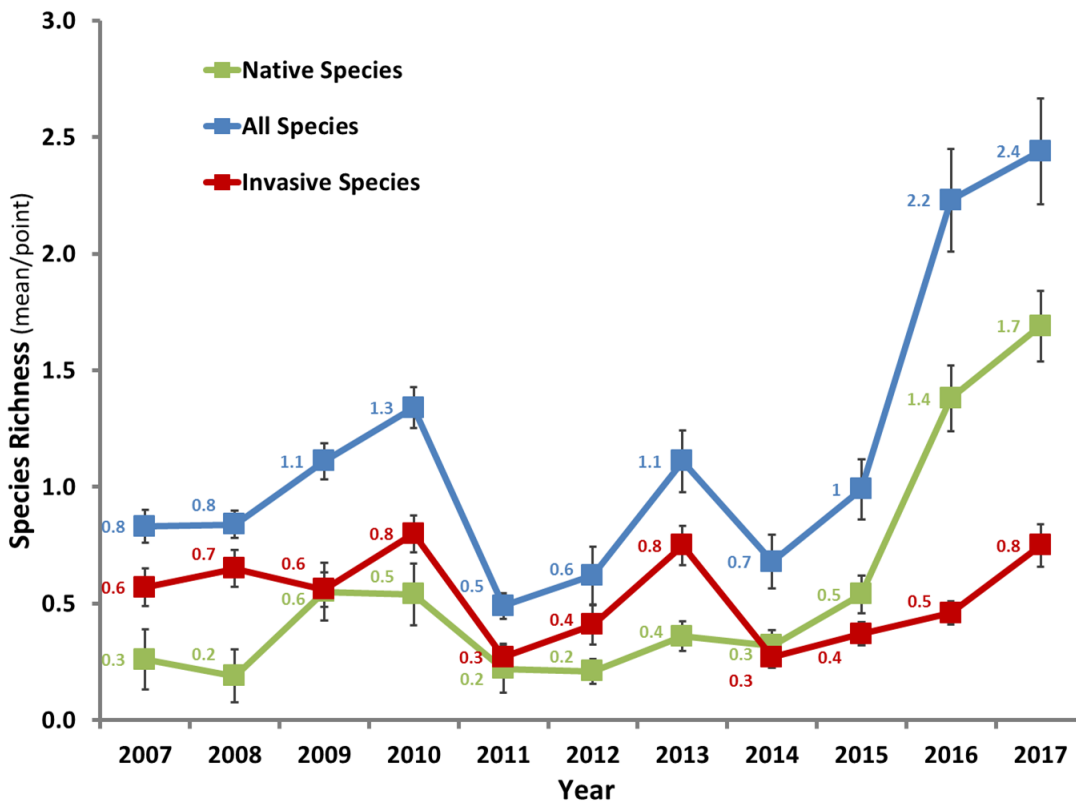


Figure 26. Yearly comparisons of number of species per transect point in Lake Zoar. Error bars equal +/- one standard error of the mean.

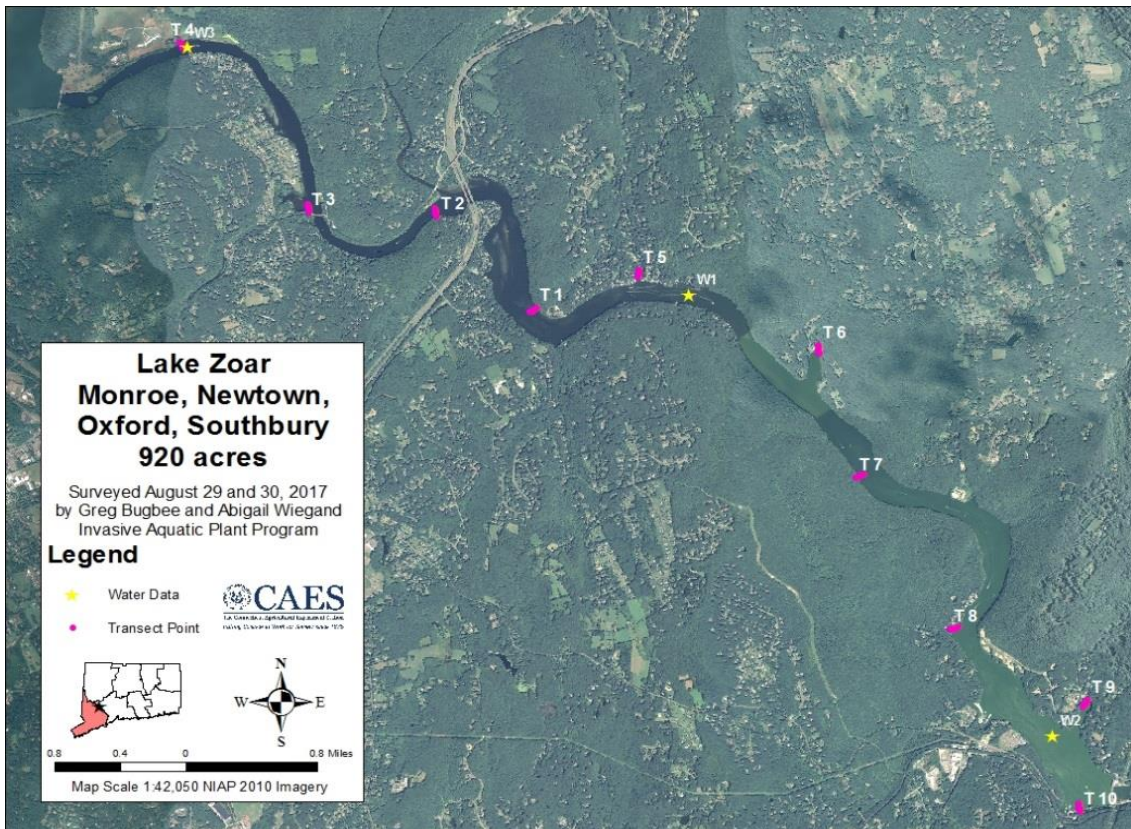
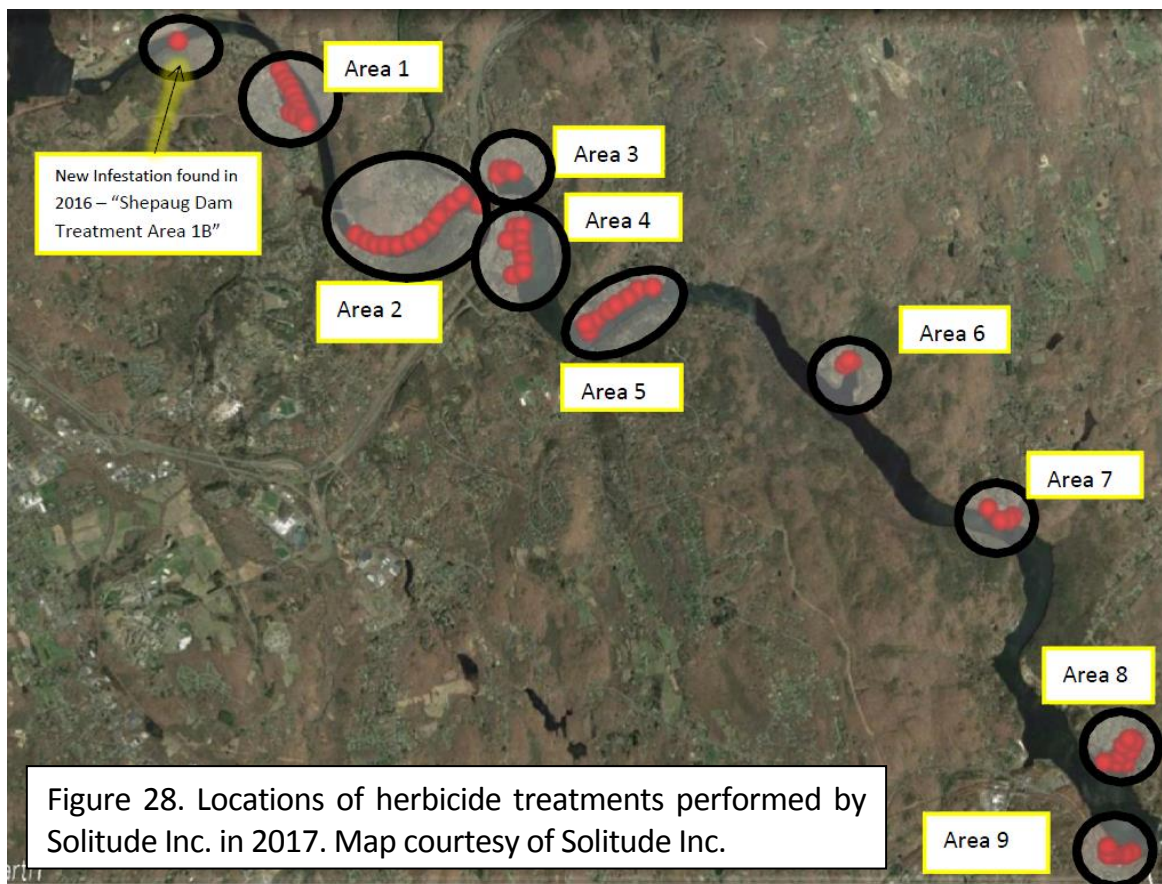


Figure 27. Lake Zoar transects and water data obtained in 2017.



Our transect data showed the frequency of occurrence (FO) of all species (native + invasive) was 74% in 2017 (Figure 25, Page 52). This was statistically greater ( $p \leq 0.05$ ) than 2007, 2008, 2011, 2012, 2014, and 2015. All species richness in 2017 was 2.4 which was significantly greater ( $\pm 1$  SEM) than all years except 2016 when it was 2.2 (Figure 26, Page 52). Native species FO was 73% in 2017 making the year statistically similar only to 2016 (63%) and the greatest FO recorded so far. Native species richness was 1.7 in 2017 and was statistically higher ( $\pm 1$  SEM) than any other year (Figure 25, Page 52). The FO of Eurasian watermilfoil was 37% and statistically similar to all years except 2011 and 2012. Minor naiad's 2017 FO was 30%, making the year only statistically different from 2011 and 2014 (Table 10, Page 51, Figure 25, Page 52). Curlyleaf pondweed had a FO of 8% in 2017 and was not statistically different than any other year (range 1 - 17%). Since curlyleaf pondweed grows primarily in the spring and senesces in summer, it may be underrepresented because the data was not collected of optimum growth. European waterclover was during its period not found along any transects but was spotted in known locations elsewhere in the lake (Bugbee et al. 2017).

Changes in the native aquatic plant community in Lake Zoar are likely caused by high and low water levels associated with its riverine system and the generation of hydroelectric power. In addition, recent herbicide treatments targeting Eurasian watermilfoil are likely reducing this species and allow may native species a competitive edge. On June 6, 2017, Solitude Inc. treated 80 acres of Eurasian watermilfoil (Figure 28, Page 53) with of 120 gallons of Diquat. A follow-up survey was performed on July 21, 2017, and an additional treatment was deemed necessary. On August 23, 2017, 65 acres were treated with Diquat at the same rate. Most of these areas were locations treated in June where control was deemed inadequate. Our transect data was obtained on August 29, 2017 which likely did not allow enough time for the herbicide to substantially affect the plants found. Transects four, nine, and ten were within treatment zones (Figure 27, Page 53).

Table 11. Water chemistry of lakes Candlewood, Zoar, Lillinonah and Squantz Pond in 2017.

Lake	Site	Date	Latitude	Longitude	Depth (m)	Transparency Secchi (m)	Conductivity (µs/cm)	pH	Alkalinity (mg/L CaCO <sub>3</sub> )	Total P (ug/L)
Candlewood	W1	8/25/2017	41.53351	-73.44456	0.5	2.6	170.0	7.8	79.5	11.5
					14.0		182.0	6.9	88.5	127.3
	W2	8/25/2017	41.49209	-73.44952	0.5	2.4	164.0	8.1	73.5	14.0
					13.0		184.0	6.9	87.0	140.2
					0.5	2.4	166.0	8.0	75.8	16.0
					13.0		199.0	6.8	111.0	326.5
	W4	8/25/2017	41.43596	-73.45618	0.5	2.5	169.0	8.1	75.0	13.4
					11.0		184.0	7.0	84.0	98.7
					0.5	2.5	168.0	8.2	71.3	14.7
		8/25/2017	41.45658	-73.43749	11.0		180.0	6.9	82.5	105.1
0.5					1.9	245.0	8.8	113.3	22.6	
Zoar	W1	8/30/2017	41.42975	-73.22147	0.5	1.9	245.0	8.8	113.3	22.6
					9.0		252.0	7.7	118.5	13.9
	W2	8/30/2017	41.38855	-73.17837	0.5	1.9	245.0	8.1	126.0	18.6
					13.0		246.0	7.3	112.5	26.7
					0.5	2.8	254.0	7.5	123.8	9.8
	W3	8/30/2017	41.45272	-73.28070	3.0		253.0	7.6	130.5	12.5
					0.5	2.2	213.0	8.2	97.5	15.9
Lillinonah	W1	8/31/2017	41.49611	-73.32521	0.5	2.2	213.0	8.2	97.5	15.9
					8.0		210.0	8.4	98.3	15.9
	W2	8/31/2017	41.46908	-73.30847	0.5	1.8	244.0	8.7	126.0	26.7
					6.8		210.0	8.1	115.5	86.8
					0.5	1.5	267.0	8.7	131.3	16.6
	W3	8/31/2017	41.54120	-73.40324	2.0		256.0	8.1	129.0	35.5
					0.5	2.3	139.0	7.5	33.0	7.8
Squantz	W1	8/1/2017	41.51502	-73.47830	0.5	2.3	139.0	7.5	33.0	7.8
					13.0		148.0	6.5	36.8	47.8

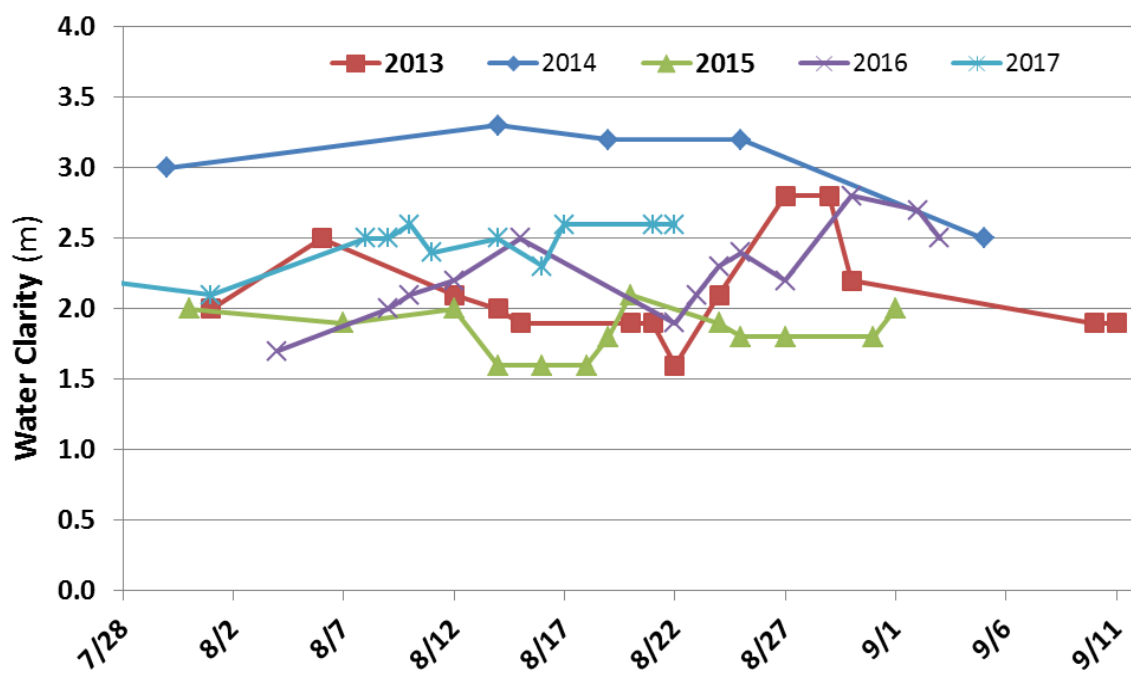


Figure 29. Water transparency in Candlewood Lake during our 2013, 2014, 2015, 2016, and 2017 CAES IAPP surveys. Deep drawdown years in bold.

## Comparisons of Water Chemistry

Water chemistry affects the occurrence of invasive plants in lakes. CAES IAPP has found lakes with higher alkalinities and conductivities are more likely to support Eurasian water milfoil, minor naiad and curlyleaf pondweed while lakes with lower values support fanwort (*Cabomba caroliniana*) and variable watermilfoil (*Myriophyllum heterophyllum*) (June-Wells et al. 2013). All the lakes in this report fall into the former category. Zebra mussels also prefer water with higher alkalinities and conductivities. Water chemistry may be altered when nutrients are utilized by plants, and nutrients not used by plants may promote harmful algal blooms. At the conclusion of each lake's survey we perform water testing to compare conditions between lakes. Because these water tests are performed only once a year, they may not be indicative of conditions at other times. We obtain water clarity measurements most days we are surveying and thus can show changes over longer periods of time during the year (Figure 29, Page 55).

On August 25, 2017 the water clarity of Candlewood Lake averaged 2.5 m (Table 11, Page 54). Over the course of our survey water clarity varied between 2.1 and 2.6 m (Figure 29, Page 55). In our 2015 report we suggested that summer water clarity is nearly 1 m less in deep drawdown years than in the shallow drawdown years and this could be related to the filtering action of increased vegetation. This pattern still seems plausible yet not definitive from our data. The clearest water was during the shallow drawdown years of 2013 and 2017 while the least clear water was during the deep drawdown year of 2015 and 2013. This data was not intended for statistical analysis and therefore significant differences cannot be determined. In Lake Lillinonah and Lake Zoar we recorded mean water clarity of 1.8 m and 2.2 m, respectively (Table 11, Page 54). The highest water clarity in Lake Zoar (2.8 m) occurred at the northern part of the lake where Lake Lillinonah's clear bottom water is entering. This same effect was noticed in our previous year's water tests. Water clarities in Connecticut's lakes ranged from 0.3 - 10 m with an average of 2.3 m (CAES IAPP, 2017). Thus, the water clarity of lakes Candlewood, Lillinonah and Zoar all rank below Connecticut's average.

Conductivity is an indicator of dissolved ions that come from natural and man-made sources (mineral weathering, organic matter decomposition, fertilizers, septic systems, road



salts, etc.). The 2017 conductivity of Candlewood Lake ranged from 164 - 199  $\mu\text{S}/\text{cm}$  with the highest levels in the bottom water (Table 11, Page 54). This is lower than in our previous surveys and similar to the early 1990's when the lake's conductivity ranged from 176 - 184  $\mu\text{S}/\text{cm}$  (Canavan and Siver 1995). The conductivity of Lake Lillinonah ranged from 210 - 267  $\mu\text{S}/\text{cm}$  while Lake Zoar's conductivity ranged from 245 - 252  $\mu\text{S}/\text{cm}$  with little difference between the surface and bottom. Squantz Pond's 2017 conductivity was 139  $\mu\text{S}/\text{cm}$  at the surface and 148  $\mu\text{S}/\text{cm}$  at the bottom. A trend toward increasing conductivity from the head waters at Squantz Pond, through Candlewood Lake and downstream to Lakes Lillinonah and Zoar is evident.

The pH of Candlewood Lake ranged from 6.1 - 8.2 with the highest levels at the surface (Table 11, Page 54). Higher surface water pH is consistent with daytime removal of carbon dioxide by algae and aquatic plants. Lake Lillinonah's water pH fell within the range of 8.1 - 8.7 while Lake Zoar's ranged from 7.3 - 8.8. Both lakes had minimal pH differences between the surface and bottom water. This is likely due to greater mixing in their riverine environment. The pH of Squantz Pond was 7.5 at the surface and 6.5 near the bottom.

Alkalinities in Connecticut's lakes range from near 0 to over 170 mg/L  $\text{CaCO}_3$  (CAES IAPP 2018, Canavan and Siver 1995, Frink and Norvell 1984). Candlewood Lake's surface alkalinity ranged from 71 - 79 mg/L and bottom water ranged from 82 - 111 mg/L. Lake Lillinonah's surface alkalinity ranged from 97 - 133 mg/L and bottom alkalinity ranged from 119 - 143 mg/L. Lake Zoar's surface and bottom water fell within a similar alkalinity range of 98 - 129 mg/L. The alkalinity of Squantz Pond was 33 mg/L at the surface and 37 mg/L near the bottom. As with conductivity, alkalinity increased downstream throughout the lake system.

A key parameter used to categorize a lake's trophic state is the concentration of phosphorus (P) in the water column. 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 - 10  $\mu\text{g}/\text{L}$  are considered nutrient-poor or oligotrophic. When P concentrations reach 15 - 25  $\mu\text{g}/\text{L}$ , lakes are classified as moderately fertile or mesotrophic and when P reaches 30 - 50  $\mu\text{g}/\text{L}$  they are considered

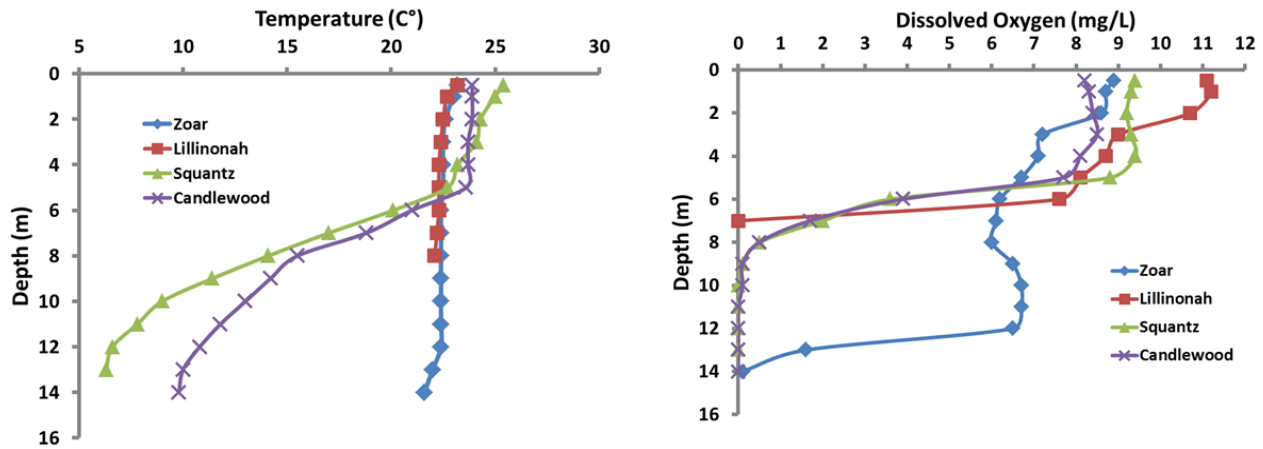


Figure 30. Temperature and dissolved oxygen profiles in lakes Candlewood, Lillinonah, Zoar and Squantz Pond in 2017.

fertile or eutrophic (Frink and Norvell, 1984). Lakes with P concentrations over 50  $\mu\text{g/L}$  are categorized as extremely fertile or hypereutrophic. The P concentration in Candlewood Lake ranged from 11 - 16  $\mu\text{g/L}$  at the surface to 99 - 326  $\mu\text{g/L}$  at the bottom (Table 11, Page 54). This partitioning of P between the surface and bottom water is common in the summer as anoxic conditions release P from the sediment (Norvell, 1974) and temperature stratification prevents vertical mixing. We found the highest P levels in Candlewood Lake's bottom water at the deepest sites W2 (Map 5, Page 25) and site W3 (Map 1, Page 21). Squantz Pond's had a surface P of 8  $\mu\text{g/L}$  and a bottom P of 48  $\mu\text{g/L}$ . The P concentration in Lake Lillinonah's surface water ranged from 16 - 28  $\mu\text{g/L}$  and bottom water ranged from 16 - 87  $\mu\text{g/L}$ . Lake Zoar's surface water had P concentration from 10 - 23  $\mu\text{g/L}$  and bottom water had a P concentration from 13 - 28  $\mu\text{g/L}$ . Lakes Lillinonah and Zoar's smaller difference in P concentrations between surface and bottom water, compared to Candlewood Lake and Squantz Pond, is probably due to shallower depth and greater mixing.

Summer temperature profiles showed similar conditions in Candlewood Lake and Squantz Pond with the surface six meters at approximately 25°C followed by a rapid decline to near 10°C at the bottom (Figure 30, left, Page 58). Lakes Lillinonah and Zoar showed very little temperature differences from surface to the bottom which usually indicates greater mixing. Dissolved oxygen profiles of the lakes showed similar trends with well oxygenated



Figure 31. Filamentous (left) and unicellular (right) algal blooms in Lake Lillinonah in 2017.

conditions to a depth of approximately six meters in Candlewood Lake and Squantz Pond followed by a decline to near zero at the bottom (Figure 30, right, Page 58). Lake Lillinonah was well oxygenated at all depths except at deepest point (7m) and Lake Zoar was well oxygenated until a depth of 13 meters. Greater anoxia in Candlewood Lake and Squantz Pond is probably due to less vertical mixing.

In 2017, all the surveyed lakes had noticeable algal blooms. Filamentous algal mats reached nuisance levels in a few protected coves in each lake (Figure 31, left). Often they overlaid patches of Eurasian watermilfoil. Unicellular algal blooms were also prevalent in all lakes. Although usually observed as a green tinge to the water, in certain areas the cells coalesced into unsightly clumps (Figure 31, right). The mass balance of nutrients between rooted aquatic plants and algae is complex and likely varies throughout the season. When rooted aquatic plants are controlled by drawdown, grass carp, herbicides, etc. nutrients are released and algal blooms may be favored.

## Conclusions/Executive Summary

Invasive aquatic plants pose a threat to the ecological, recreational and possibly the hydrogenerating capacity of lakes Candlewood, Lillinonah, Zoar and Squantz Pond. Eurasian watermilfoil dominates the plant communities in all lakes and is the most troublesome. The Eurasian watermilfoil acreage increases and decreases in Candlewood Lake and Squantz

Pond in response to deep and shallow winter drawdowns. Recent grass carp introductions may be reducing vegetation in certain coves but not in the main body of the lake. The shallow drawdown was performed in 2017 was the second in a row and Eurasian watermilfoil coverage was nearly 500 acres. This was similar to 2016 the most since our surveys began in 2007. Invasive minor naiad and curlyleaf pondweed are also present in Candlewood Lake but not at nuisance levels. Only five native plant species were present in Candlewood Lake in 2017 which is extremely low for such a large lake. Native plant populations are likely reduced by winter drawdowns and possibly by grass carp.

Eurasian watermilfoil covered 32 acres of Squantz Pond in 2017 and was not nearly the nuisance it posed in 2016. Although the coverage was only down seven acres, it rarely reached the surface. Minor naiad coverage dropped to only six acres in 2017 and was the lowest of the three survey years. The direct connection with Candlewood Lake, under the Route 39 causeway, allows for invasive plant control via the Candlewood Lake drawdown and grass carp. We cannot rule out the possibility that some of the grass carp introduced into Candlewood Lake in 2015 have migrated into Squantz Pond and caused our observed reduction in the nuisance plants. We found seven native plant species in 2017 and this was the same as 2016.

Eurasian watermilfoil showed a dramatic increase in Lake Lillionah from our previous surveys. We found 154 acres in 2017 compared to a previous high of 90 acres in 2013. Typically the milfoil was to the surface, covered with mats of filamentous algae, and an extreme nuisance. Reasons for this large increase may be associated with low flow rates during the recent droughts. Small populations of minor naiad and curlyleaf pondweed were present in 2017 and have changed little through our surveys. We observed isolated small patches of water chestnut in Lake Lillionah and their population appears under control by hand harvesting. Nine native species were present on the Lake Lillionah transects which eclipsed the previous high of eight found in multiple years. Zebra mussels were attached to plants and they could begin to reduce plant growth.

Our 2017 survey of Lake Zoar's transects found Eurasian watermilfoil, minor naiad and curlyleaf pondweed. European water clover was present but not on transects. Eurasian watermilfoil and minor naiad occurred on 37 and 30 percent of the points respectively and changed little from 2016. Curlyleaf pondweed was found on eight percent of the points compared to 17 percent of the points in 2016. Ten native species were found in Lake Zoar in 2017. Although a low number for such a large lake, this number represents an increase from most past years and may be the result of the herbicide applications reducing the competition from Eurasian watermilfoil. Fluctuating water levels and zebra mussels may also be factors.

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# Appendix

## 2017 CAES IAPP On-Lake Time

<b>Candlewood (Lead surveyor)</b>	<b>Zoar (Lead surveyor)</b>	<b>Lillinonah (Lead surveyor)</b>	<b>Squantz (Lead surveyor)</b>
6/3/2017 (Bugbee)	8/29/2017 (Bugbee)	5/31/2017 (Stebbins)	5/19/2017 (Stebbins)
6/7/2017 (Bugbee)	8/30/2017 (Bugbee)	6/1/2017 (Bugbee)	5/24/2017 (Stebbins)
6/9/2017 (Bugbee)		6/2/2017 (Bugbee)	7/26/2017 (Stebbins)
7/26/2017 (Bugbee)		8/4/2017 (Stebbins)	7/27/2017 (Stebbins)
7/27/2017 (Bugbee)		8/8/2017 (Stebbins)	7/28/2017 (Stebbins)
8/1/2017 (Bugbee)		8/9/2017 (Stebbins)	8/1/2017 (Stebbins)
8/3/2017 (Bugbee)		8/10/2017 (Stebbins)	
8/8/2017 (Bugbee)		8/11/2017 (Stebbins)	
8/9/2017 (Bugbee)		8/14/2017 (Stebbins)	
8/10/2017 (Bugbee)		8/15/2017 (Stebbins)	
8/11/2017 (Bugbee)		8/16/2017 (Stebbins)	
8/14/2017 (Bugbee)		8/17/2017 (Stebbins)	
8/16/2017 (Bugbee)		8/23/2017 (Bugbee)	
8/17/2017 (Bugbee)		8/31/2017 (Bugbee)	
8/21/2017 (Bugbee)			
8/22/2017 (Bugbee)			
8/25/2017 (Bugbee)			
<b>17 days</b>	<b>2 days</b>	<b>14 days</b>	<b>6 days</b>

# 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



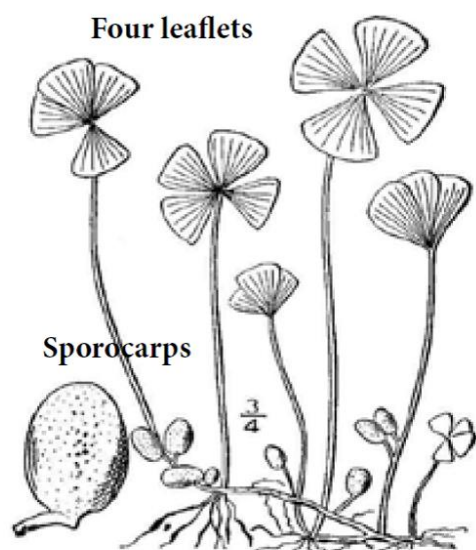
Photo by CAES IAPP



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  $\geq 12$  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

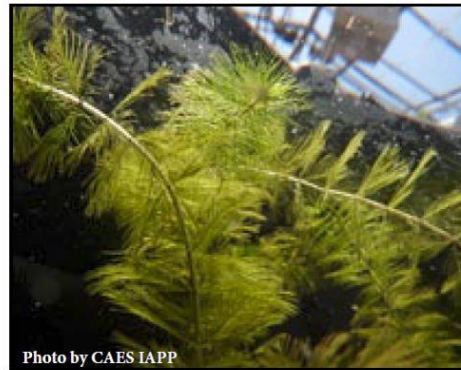
## **Easily confused species:**

Variable-leaf watermilfoil: *Myriophyllum heterophyllum*

Low watermilfoil: *Myriophyllum humile*

Northern watermilfoil: *Myriophyllum sibiricum*

Whorled watermilfoil: *Myriophyllum verticillatum*



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Center for Aquatic and Invasive Plants



# *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



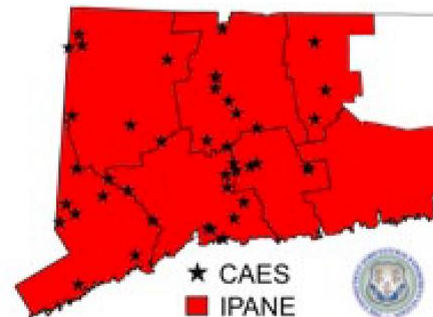
Photo by CAES IAPP



Photo by CAES IAPP



Photo by Leslie J. Mehrhoff



# *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

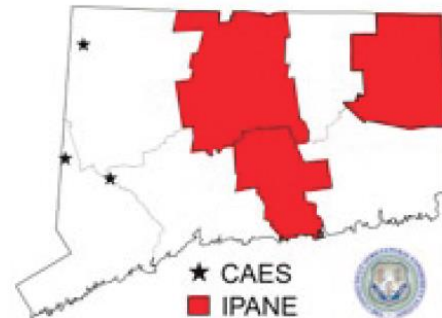
**Easily confused species:**

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, Lillinonah, and Squantz Pond found during the 2017 aquatic plant survey. The invasive aquatic plants found during the survey were *Potamogeton crispus* (curlyleaf pondweed), *Najas minor* (minor naiad), *Myriophyllum spicatum* (Eurasian watermilfoil), and *Trapa natans* (water chestnut). 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, Lillinonah, and Squantz Pond during 2017. 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 Agricultural Experiment Station Invasive Aquatic Plant Program (CAES IAPP) as the source for this information.

**Credit** Gregory J. Bugbee and Summer E. Stebbins, 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<sup>®</sup>, Trimble ProXT<sup>®</sup>, Trimble R1 GNSS<sup>®</sup> with TerraSync 2.40 or 5.02 ( WAAS enabled). Data was post-processed in the lab with Pathfinder Office 5.85 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<sup>®</sup>, Trimble ProXT<sup>®</sup>, Trimble R1 GNSS<sup>®</sup> with TerraSync 2.40 or 5.02 (WAAS enabled). Data was post-processed in the lab with Pathfinder Office 5.85 with data from local base stations and then imported into ESRI ArcMap 10.4.1 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 m<sup>2</sup> area at 0.5, 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 lakes Candlewood, Lillinonah, and Zoar and five transects were established for Squantz Pond. Transects were positioned using a random-representative method to account for all bottom types and plant conditions in lakes Lillinonah and Zoar. In Candlewood Lake, 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 used the same method when selecting transects on Squantz Pond by selecting 5 of the 14 transects established in 2011. Squantz Pond transects, T1, T11, T9, T8, and T5 were chosen and renamed T1 – T5 respectively. 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, Zoar, and Squantz Pond during 2017. 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 Summer E. Stebbins, 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<sup>®</sup>, Trimble ProXT<sup>®</sup>, Trimble R1 GNSS<sup>®</sup> with TerraSync 2.40 or 5.02 (WAAS enabled). Data was post-processed in the lab with Pathfinder Office 5.85 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<sup>®</sup>, Trimble ProXT<sup>®</sup>, Trimble R1 GNSS<sup>®</sup> with TerraSync 2.40 or 5.02 (WAAS enabled). Data was post-processed in the lab with Pathfinder Office 5.85 with data from local base stations and then imported into ESRI ArcMap 10.4.1 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, Zoar, and Squantz Pond. Five sample locations were chosen in Candlewood Lake, three locations in lakes Lillinonah and Zoar, and one location in Squantz Pond. 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 CaCO<sub>3</sub>) 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, Zoar and Squantz Pond 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 Summer E. Stebbins, 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 CaCO<sub>3</sub> per liter (titrant was 0.08 mol/L H<sub>2</sub>SO<sub>4</sub> with an end point of pH 4.5). The total phosphorus analysis was conducted on samples that were acidified with three drops of concentrated H<sub>2</sub>SO<sub>4</sub>, 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<sup>®</sup>, Trimble ProXT<sup>®</sup>, Trimble R1 GNSS<sup>®</sup> with TerraSync 2.40 or 5.02 (WAAS enabled). Data was post-processed in the lab with Pathfinder Office 5.85 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<sup>®</sup>, Trimble ProXT<sup>®</sup>, Trimble R1 GNSS<sup>®</sup> with TerraSync 2.40 or 5.02 (WAAS enabled). Data was post-processed in the lab with Pathfinder Office 5.85 with data from local base stations and then imported into ESRI ArcMap 10.4.1 for display and analysis.





## **Invasive Aquatic Plant Location Data**

Appendix Lake Candlewood Invasive Plant Location data (1 of 14)

FID	Invasive Plant Name	Notes	Type	Date	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
1	PotCri		Point	6/7/2017	41.49674	-73.44640	1-3	1	0.0002
2	PotCri		Point	6/7/2017	41.49672	-73.44644	1-3	1	0.0002
3	PotCri		Point	6/7/2017	41.49694	-73.44646	1-3	1	0.0002
4	PotCri		Point	6/9/2017	41.53283	-73.43841	1-3	1	0.0002
5	MyrSpi		Patch	7/26/2017	41.45307	-73.43671	1-4	4	6.3792
6	MyrSpi		Patch	7/26/2017	41.45575	-73.44067	1-4	3	0.0328
7	MyrSpi		Patch	7/26/2017	41.45665	-73.44127	1-4	3	0.0889
8	MyrSpi		Patch	7/26/2017	41.45883	-73.44344	1-4	3	0.7827
9	MyrSpi		Patch	7/26/2017	41.45476	-73.44422	1-4	4	0.7305
10	MyrSpi		Patch	7/26/2017	41.45325	-73.44433	1-4	3	0.1130
11	MyrSpi		Patch	7/26/2017	41.45261	-73.44468	1-4	3	0.1107
12	MyrSpi		Patch	7/26/2017	41.45134	-73.44508	1-4	3	0.2561
13	MyrSpi		Patch	7/26/2017	41.45085	-73.44600	1-4	3	0.2171
14	MyrSpi		Patch	7/26/2017	41.45031	-73.44665	1-4	3	0.0627
15	MyrSpi		Patch	7/26/2017	41.44970	-73.44689	1-4	4	0.1841
16	MyrSpi		Patch	7/26/2017	41.44875	-73.44709	1-4	2	0.3169
17	MyrSpi		Patch	7/26/2017	41.44539	-73.44921	1-4	4	6.5074
18	MyrSpi		Patch	7/26/2017	41.44560	-73.44747	0-1	2	0.3946
19	MyrSpi		Patch	7/26/2017	41.44969	-73.45194	2-4	4	1.0465
20	MyrSpi		Patch	7/26/2017	41.44808	-73.44973	2-4	4	0.3790
21	MyrSpi		Patch	7/26/2017	41.44602	-73.45109	2-4	4	0.3193
22	MyrSpi		Patch	7/26/2017	41.44199	-73.45306	1-4	3	0.0646
23	MyrSpi		Patch	7/26/2017	41.43953	-73.45338	1-4	4	4.3664
24	MyrSpi	With NajMin = 2	Patch	7/26/2017	41.43880	-73.45351	0-1	2	0.3481
25	MyrSpi		Patch	7/26/2017	41.43502	-73.45431	1-4	4	2.3937
26	MyrSpi		Patch	7/26/2017	41.43067	-73.45325	1-4	4	1.0411
27	MyrSpi	With NajMin = 1	Patch	7/26/2017	41.42702	-73.45341	1-4	4	52.5007
28	MyrSpi		Patch	7/26/2017	41.45267	-73.43608	0-1	2	1.4058
29	MyrSpi		Patch	7/26/2017	41.42446	-73.45288	1-4	3	0.1209
30	MyrSpi		Patch	7/26/2017	41.42412	-73.45271	1-4	2	0.3297
31	MyrSpi		Patch	7/26/2017	41.42384	-73.45253	1-4	3	0.0271
32	MyrSpi		Patch	7/26/2017	41.42729	-73.44960	1-4	3	1.4667
33	MyrSpi		Point	7/26/2017	41.45495	-73.44087	0-1	2	0.0002
34	MyrSpi		Point	7/26/2017	41.45487	-73.44082	1-3	2	0.0002
35	MyrSpi		Point	7/26/2017	41.45502	-73.44087	1-3	2	0.0002
36	MyrSpi		Point	7/26/2017	41.45637	-73.44091	1-3	2	0.0002
37	MyrSpi		Point	7/26/2017	41.45646	-73.44100	1-3	2	0.0002
38	MyrSpi		Point	7/26/2017	41.45699	-73.44177	1-3	2	0.0002
39	MyrSpi		Point	7/26/2017	41.45807	-73.44257	1-3	2	0.0002
40	MyrSpi		Point	7/26/2017	41.45089	-73.44513	0-1	2	0.0002
41	MyrSpi		Point	7/26/2017	41.45095	-73.44514	0-1	2	0.0002
42	MyrSpi		Point	7/26/2017	41.45086	-73.44552	0-1	2	0.0002
43	MyrSpi		Point	7/26/2017	41.45084	-73.44552	0-1	2	0.0002
44	NajMin		Patch	7/26/2017	41.43881	-73.45358	0-1	2	0.3203
45	NajMin		Patch	7/26/2017	41.42462	-73.45448	0-1	2	2.4626
46	MyrSpi		Patch	7/27/2017	41.42695	-73.45781	1-4	3	1.1298
47	MyrSpi		Patch	7/27/2017	41.43177	-73.45995	1-4	3	1.2947
48	MyrSpi		Patch	7/27/2017	41.43397	-73.45937	1-4	3	0.0902
49	MyrSpi		Patch	7/27/2017	41.43893	-73.45883	1-4	3	0.4408
50	MyrSpi		Patch	7/27/2017	41.43994	-73.45801	1-4	3	0.4663
51	MyrSpi		Patch	7/27/2017	41.44117	-73.45736	1-4	3	0.1814
52	MyrSpi		Patch	7/27/2017	41.45404	-73.45063	1-4	3	0.1483
53	MyrSpi		Patch	7/27/2017	41.45703	-73.45306	1-4	4	2.9726

Appendix Lake Candlewood Invasive Plant Location data (2 of 14)

FID	Invasive Plant Name	Notes	Type	Date	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
54	MyrSpi		Patch	7/27/2017	41.46472	-73.45828	1-4	3	1.1251
55	MyrSpi		Patch	7/27/2017	41.46487	-73.45971	1-4	2	0.6790
56	MyrSpi		Patch	7/27/2017	41.46393	-73.46123	1-4	2	0.0542
57	MyrSpi		Patch	7/27/2017	41.46412	-73.46217	1-4	3	0.4297
58	MyrSpi		Patch	7/27/2017	41.46533	-73.46122	1-4	3	0.3523
59	MyrSpi		Patch	7/27/2017	41.46911	-73.45702	1-4	4	5.9754
60	MyrSpi		Patch	7/27/2017	41.43245	-73.46002	0-1	2	0.0093
61	MyrSpi		Patch	7/27/2017	41.46389	-73.46115	0-1	2	0.0365
62	MyrSpi		Patch	7/27/2017	41.46411	-73.46243	0-1	2	0.1407
63	MyrSpi		Point	7/27/2017	41.42865	-73.45979	1-3	3	0.0002
64	MyrSpi		Point	7/27/2017	41.42872	-73.45979	1-3	3	0.0002
65	MyrSpi		Point	7/27/2017	41.42879	-73.45983	1-3	3	0.0002
66	MyrSpi		Point	7/27/2017	41.42908	-73.45989	1-3	3	0.0002
67	MyrSpi		Point	7/27/2017	41.42937	-73.46003	1-3	2	0.0002
68	MyrSpi		Point	7/27/2017	41.42944	-73.46006	1-3	2	0.0002
69	MyrSpi		Point	7/27/2017	41.43902	-73.45918	0-1	2	0.0002
70	MyrSpi		Point	7/27/2017	41.43906	-73.45910	0-1	2	0.0002
71	MyrSpi		Point	7/27/2017	41.44444	-73.45533	1-3	2	0.0002
72	MyrSpi		Point	7/27/2017	41.44486	-73.45517	1-3	2	0.0002
73	MyrSpi		Point	7/27/2017	41.44491	-73.45511	1-3	2	0.0002
74	MyrSpi		Point	7/27/2017	41.44487	-73.45514	1-3	2	0.0002
75	MyrSpi		Point	7/27/2017	41.44515	-73.45499	1-3	2	0.0002
76	MyrSpi		Point	7/27/2017	41.44555	-73.45473	1-3	2	0.0002
77	MyrSpi		Point	7/27/2017	41.44656	-73.45417	1-3	2	0.0002
78	MyrSpi		Point	7/27/2017	41.45565	-73.45071	1-3	2	0.0002
79	MyrSpi		Point	7/27/2017	41.45655	-73.45414	0-1	2	0.0002
80	MyrSpi		Point	7/27/2017	41.45654	-73.45404	0-1	2	0.0002
81	MyrSpi		Point	7/27/2017	41.45651	-73.45399	0-1	2	0.0002
82	MyrSpi		Point	7/27/2017	41.45652	-73.45398	0-1	2	0.0002
83	MyrSpi		Point	7/27/2017	41.45642	-73.45387	0-1	2	0.0002
84	MyrSpi		Point	7/27/2017	41.45645	-73.45391	0-1	2	0.0002
85	MyrSpi		Point	7/27/2017	41.45650	-73.45388	0-1	2	0.0002
86	MyrSpi		Point	7/27/2017	41.46305	-73.45802	0-1	2	0.0002
87	MyrSpi		Point	7/27/2017	41.46304	-73.45799	0-1	2	0.0002
88	MyrSpi		Point	7/27/2017	41.46341	-73.45803	0-1	2	0.0002
89	MyrSpi		Point	7/27/2017	41.46341	-73.45801	0-1	2	0.0002
90	MyrSpi		Point	7/27/2017	41.46448	-73.45884	0-1	2	0.0002
91	MyrSpi		Point	7/27/2017	41.46446	-73.45884	0-1	2	0.0002
92	MyrSpi		Point	7/27/2017	41.46445	-73.45885	0-1	2	0.0002
93	MyrSpi		Point	7/27/2017	41.46380	-73.46161	0-1	2	0.0002
94	MyrSpi		Patch	8/1/2017	41.46619	-73.45541	1-4	4	6.9843
95	MyrSpi		Patch	8/1/2017	41.46622	-73.45057	1-4	4	2.5490
96	MyrSpi		Patch	8/1/2017	41.46655	-73.44222	1-4	4	1.8690
97	MyrSpi		Patch	8/1/2017	41.47634	-73.44831	1-4	4	0.2573
98	MyrSpi		Patch	8/1/2017	41.47692	-73.44952	1-4	4	2.3161
99	MyrSpi		Patch	8/1/2017	41.49349	-73.44548	2-4	4	1.2417
100	MyrSpi		Patch	8/1/2017	41.49652	-73.44628	1-4	4	2.9325
101	MyrSpi		Patch	8/1/2017	41.50438	-73.45330	1-4	4	19.6225
102	MyrSpi		Patch	8/1/2017	41.50113	-73.45452	1-4	4	0.9931
103	MyrSpi		Patch	8/1/2017	41.51454	-73.45949	2-4	4	0.2421
104	MyrSpi		Patch	8/1/2017	41.51384	-73.46166	1-4	4	1.1915
105	MyrSpi		Patch	8/1/2017	41.46858	-73.44777	1-4	4	1.9980
106	MyrSpi		Patch	8/1/2017	41.46499	-73.44583	1-4	3	0.1222

Appendix Lake Candlewood Invasive Plant Location data (3 of 14)

FID	Invasive Plant Name	Notes	Type	Date	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
107	MyrSpi		Patch	8/1/2017	41.50343	-73.45218	0-1	2	0.2428
108	MyrSpi		Patch	8/1/2017	41.46235	-73.44617	1-4	4	4.7331
109	MyrSpi		Patch	8/1/2017	41.49739	-73.45384	1-4	4	1.1192
110	MyrSpi		Point	8/1/2017	41.49730	-73.44658	0-1	2	0.0002
111	MyrSpi		Point	8/1/2017	41.49738	-73.44665	0-1	2	0.0002
112	MyrSpi		Point	8/1/2017	41.49732	-73.44682	0-1	2	0.0002
113	MyrSpi		Point	8/1/2017	41.49745	-73.44802	1-3	3	0.0002
114	MyrSpi		Point	8/1/2017	41.49742	-73.44803	1-3	3	0.0002
115	MyrSpi		Point	8/1/2017	41.49755	-73.44829	1-3	3	0.0002
116	MyrSpi		Point	8/1/2017	41.49774	-73.44839	1-3	3	0.0002
117	MyrSpi		Point	8/1/2017	41.49770	-73.44837	1-3	3	0.0002
118	MyrSpi		Point	8/1/2017	41.49829	-73.44881	1-3	3	0.0002
119	MyrSpi		Point	8/1/2017	41.50177	-73.45165	0-1	2	0.0002
120	MyrSpi		Point	8/1/2017	41.50174	-73.45169	0-1	2	0.0002
121	MyrSpi		Point	8/1/2017	41.50172	-73.45172	0-1	2	0.0002
122	MyrSpi		Point	8/1/2017	41.50162	-73.45172	0-1	2	0.0002
123	MyrSpi		Point	8/1/2017	41.50193	-73.45161	0-1	2	0.0002
124	MyrSpi		Point	8/1/2017	41.50197	-73.45155	0-1	2	0.0002
125	MyrSpi		Point	8/1/2017	41.50199	-73.45162	0-1	2	0.0002
126	MyrSpi		Point	8/1/2017	41.50287	-73.45176	0-1	2	0.0002
127	MyrSpi		Point	8/1/2017	41.50298	-73.45183	0-1	2	0.0002
128	MyrSpi		Point	8/1/2017	41.50301	-73.45183	0-1	2	0.0002
129	MyrSpi		Point	8/1/2017	41.47151	-73.45037	1-3	2	0.0002
130	MyrSpi		Point	8/1/2017	41.47148	-73.45035	1-3	2	0.0002
131	MyrSpi		Point	8/1/2017	41.47104	-73.45032	0-1	2	0.0002
132	MyrSpi		Point	8/1/2017	41.47101	-73.45033	0-1	2	0.0002
133	MyrSpi		Point	8/1/2017	41.50214	-73.45167	1-4	2	0.0002
134	MyrSpi		Point	8/1/2017	41.50214	-73.45159	1-4	2	0.0002
135	MyrSpi		Point	8/1/2017	41.50218	-73.45201	1-4	3	0.0002
136	MyrSpi		Point	8/1/2017	41.50214	-73.45212	1-4	3	0.0002
137	MyrSpi		Patch	8/3/2017	41.46966	-73.45882	1-4	2	0.0258
138	MyrSpi		Patch	8/3/2017	41.47839	-73.46167	1-4	4	3.7999
139	MyrSpi		Patch	8/3/2017	41.48389	-73.45962	1-4	4	7.0989
140	MyrSpi		Patch	8/3/2017	41.48212	-73.45753	1-4	3	0.0688
141	MyrSpi		Patch	8/3/2017	41.48148	-73.45740	1-4	3	0.0147
142	MyrSpi		Patch	8/3/2017	41.48092	-73.45751	1-4	4	0.5491
143	MyrSpi		Patch	8/3/2017	41.47974	-73.45741	1-4	4	0.3495
144	MyrSpi		Patch	8/3/2017	41.47764	-73.45552	1-4	4	1.8739
145	MyrSpi		Patch	8/3/2017	41.47461	-73.45327	1-4	4	0.2356
146	MyrSpi		Patch	8/3/2017	41.47377	-73.45327	1-4	4	0.0723
147	MyrSpi		Patch	8/3/2017	41.47323	-73.45295	1-4	4	0.1305
148	MyrSpi		Patch	8/3/2017	41.47219	-73.45240	1-4	3	0.0149
149	MyrSpi		Patch	8/3/2017	41.47188	-73.45208	1-4	3	0.0721
150	MyrSpi		Patch	8/3/2017	41.47073	-73.45126	1-4	4	1.6949
151	MyrSpi		Patch	8/3/2017	41.46753	-73.44983	1-4	4	2.0248
152	MyrSpi		Patch	8/3/2017	41.46509	-73.44759	1-4	3	0.0058
153	MyrSpi		Patch	8/3/2017	41.46475	-73.44741	1-4	4	0.0721
154	MyrSpi		Patch	8/3/2017	41.46622	-73.43092	1-4	4	41.2542
155	MyrSpi		Patch	8/3/2017	41.45560	-73.43416	1-4	4	6.1709
156	MyrSpi		Patch	8/3/2017	41.47569	-73.46161	0-1	2	0.0388
157	MyrSpi		Patch	8/3/2017	41.48409	-73.46019	0-1	3	0.3959
158	MyrSpi		Patch	8/3/2017	41.48487	-73.45899	0-1	3	0.2288
159	MyrSpi		Patch	8/3/2017	41.48082	-73.45731	0-1	2	0.1638

Appendix Lake Candlewood Invasive Plant Location data (4 of 14)

FID	Invasive Plant Name	Notes	Type	Date	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
160	MyrSpi		Patch	8/8/2017	41.45008	-73.43104	1-4	4	0.6462
161	MyrSpi		Patch	8/8/2017	41.45105	-73.43146	1-4	4	0.0356
162	MyrSpi		Patch	8/8/2017	41.45157	-73.43185	1-4	4	0.2616
163	MyrSpi		Patch	8/8/2017	41.45266	-73.43207	1-4	2	0.4272
164	MyrSpi		Patch	8/8/2017	41.45393	-73.43267	0-1	2	0.0990
165	MyrSpi		Patch	8/8/2017	41.47177	-73.43677	1-4	2	4.7618
166	MyrSpi		Patch	8/8/2017	41.46398	-73.42569	1-2	2	2.8417
167	MyrSpi		Patch	8/8/2017	41.48460	-73.43932	1-4	4	26.4313
168	MyrSpi		Patch	8/8/2017	41.46678	-73.42409	0-1	3	0.2876
169	MyrSpi		Patch	8/8/2017	41.47206	-73.43391	0-1	2	0.4000
170	MyrSpi		Patch	8/8/2017	41.47204	-73.43322	0-1	3	0.1682
171	MyrSpi		Patch	8/8/2017	41.46936	-73.43037	0-1	2	0.2620
172	MyrSpi		Patch	8/8/2017	41.46866	-73.42697	0-1	2	0.2538
173	MyrSpi		Patch	8/8/2017	41.46781	-73.42469	0-1	2	1.2848
174	MyrSpi		Patch	8/8/2017	41.46450	-73.42404	0-1	3	0.2202
175	MyrSpi		Patch	8/8/2017	41.46414	-73.42447	0-1	2	0.2661
176	MyrSpi		Patch	8/8/2017	41.46350	-73.42508	0-1	3	0.5459
177	MyrSpi		Patch	8/8/2017	41.47004	-73.44025	0-1	3	0.0190
178	MyrSpi		Patch	8/8/2017	41.47030	-73.44108	0-1	2	0.4618
179	MyrSpi		Point	8/8/2017	41.46581	-73.43642	0-1	2	0.0002
180	MyrSpi		Point	8/8/2017	41.46581	-73.43644	0-1	2	0.0002
181	MyrSpi		Point	8/8/2017	41.46586	-73.43622	0-1	2	0.0002
182	MyrSpi		Point	8/8/2017	41.46590	-73.43620	0-1	2	0.0002
183	MyrSpi		Point	8/8/2017	41.46612	-73.43592	0-1	2	0.0002
184	MyrSpi		Point	8/8/2017	41.46621	-73.43582	0-1	2	0.0002
185	MyrSpi		Point	8/8/2017	41.46624	-73.43579	0-1	2	0.0002
186	MyrSpi		Point	8/8/2017	41.46627	-73.43575	0-1	2	0.0002
187	MyrSpi		Point	8/8/2017	41.46638	-73.43568	0-1	2	0.0002
188	MyrSpi		Point	8/8/2017	41.46659	-73.43556	0-1	2	0.0002
189	MyrSpi		Point	8/8/2017	41.47219	-73.43363	0-1	4	0.0002
190	MyrSpi		Point	8/8/2017	41.47218	-73.43366	0-1	4	0.0002
191	MyrSpi		Point	8/8/2017	41.46668	-73.43805	0-1	2	0.0002
192	MyrSpi		Point	8/8/2017	41.46725	-73.43849	0-1	2	0.0002
193	MyrSpi		Point	8/8/2017	41.46957	-73.44009	0-1	2	0.0002
194	MyrSpi		Point	8/8/2017	41.46980	-73.44016	0-1	2	0.0002
195	MyrSpi		Point	8/8/2017	41.47083	-73.44223	0-1	2	0.0002
196	MyrSpi		Point	8/8/2017	41.47083	-73.44223	0-1	2	0.0002
197	MyrSpi		Point	8/8/2017	41.47617	-73.44416	0-1	2	0.0002
198	MyrSpi		Point	8/8/2017	41.47695	-73.44428	0-1	2	0.0002
199	MyrSpi		Point	8/8/2017	41.47697	-73.44437	0-1	2	0.0002
200	MyrSpi		Point	8/8/2017	41.47700	-73.44432	0-1	2	0.0002
201	MyrSpi		Point	8/8/2017	41.47830	-73.44401	0-1	2	0.0002
202	MyrSpi		Point	8/8/2017	41.47849	-73.44394	0-1	2	0.0002
203	MyrSpi		Point	8/8/2017	41.47846	-73.44392	0-1	2	0.0002
204	MyrSpi		Point	8/8/2017	41.47842	-73.44389	0-1	2	0.0002
205	MyrSpi		Point	8/8/2017	41.47842	-73.44389	0-1	4	0.0002
206	MyrSpi		Point	8/8/2017	41.47883	-73.44318	0-1	4	0.0002
207	MyrSpi		Point	8/8/2017	41.47884	-73.44314	0-1	3	0.0002
208	MyrSpi		Point	8/8/2017	41.47944	-73.44306	0-1	3	0.0002
209	MyrSpi		Point	8/8/2017	41.47942	-73.44306	0-1	2	0.0002
210	MyrSpi		Patch	8/9/2017	41.47161	-73.44520	1-4	4	1.9628
211	MyrSpi		Patch	8/9/2017	41.47207	-73.44716	1-4	4	0.4137
212	MyrSpi		Patch	8/9/2017	41.47220	-73.44682	0-1	2	0.0815

Appendix Lake Candlewood Invasive Plant Location data (5 of 14)

FID	Invasive Plant Name	Notes	Type	Date	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
213	MyrSpi		Patch	8/9/2017	41.47361	-73.44831	1-4	4	0.9406
214	MyrSpi		Patch	8/9/2017	41.47458	-73.44730	1-4	3	0.0654
215	MyrSpi		Patch	8/9/2017	41.48263	-73.43694	0-1	3	0.0952
216	MyrSpi		Patch	8/9/2017	41.47831	-73.43461	0-1	3	0.7151
217	MyrSpi		Patch	8/9/2017	41.49778	-73.44236	1-4	4	1.0255
218	MyrSpi		Patch	8/9/2017	41.50119	-73.44268	1-4	4	1.8380
219	MyrSpi		Patch	8/9/2017	41.51149	-73.44114	2-4	4	0.5545
220	MyrSpi		Patch	8/9/2017	41.52492	-73.43791	1-4	4	0.3230
221	MyrSpi		Patch	8/9/2017	41.52375	-73.43736	1-4	3	0.0475
222	MyrSpi		Patch	8/9/2017	41.52203	-73.43767	1-4	4	1.1424
223	MyrSpi		Patch	8/9/2017	41.52242	-73.43772	0-1	3	0.1024
224	MyrSpi		Patch	8/9/2017	41.52280	-73.43813	1-4	4	0.0643
225	MyrSpi		Patch	8/9/2017	41.52388	-73.43835	1-4	4	0.1096
226	MyrSpi		Patch	8/9/2017	41.51520	-73.44020	1-4	4	5.3010
227	MyrSpi		Patch	8/9/2017	41.51089	-73.43905	1-4	4	0.3600
228	MyrSpi		Patch	8/9/2017	41.50680	-73.43831	1-4	4	1.8690
229	MyrSpi		Patch	8/9/2017	41.50455	-73.44126	1-4	4	9.6586
230	MyrSpi		Patch	8/9/2017	41.48214	-73.43664	0-1	3	0.0340
231	MyrSpi		Patch	8/9/2017	41.47837	-73.43421	0-1	2	7.2681
232	MyrSpi		Patch	8/9/2017	41.48312	-73.43530	0-1	2	0.7063
233	MyrSpi		Patch	8/9/2017	41.48502	-73.43492	0-1	2	0.2505
234	MyrSpi		Patch	8/9/2017	41.48692	-73.43462	0-1	2	0.9320
235	MyrSpi		Patch	8/9/2017	41.51679	-73.43951	0-1	2	1.7161
236	MyrSpi		Patch	8/9/2017	41.51519	-73.44145	0-1	2	0.3689
237	MyrSpi		Patch	8/9/2017	41.51367	-73.43994	0-1	3	0.6839
238	MyrSpi		Patch	8/9/2017	41.50273	-73.43887	0-1	3	0.6180
239	MyrSpi		Patch	8/9/2017	41.50315	-73.44034	0-1	2	0.1135
240	MyrSpi		Patch	8/9/2017	41.52782	-73.44252	1-4	4	11.7103
241	MyrSpi		Patch	8/9/2017	41.51255	-73.44116	1-4	3	0.3227
242	MyrSpi		Patch	8/9/2017	41.51288	-73.44113	1-4	2	0.0282
243	MyrSpi		Point	8/9/2017	41.47437	-73.44752	1-3	3	0.0002
244	MyrSpi		Point	8/9/2017	41.47392	-73.44644	1-3	3	0.0002
245	MyrSpi		Point	8/9/2017	41.48471	-73.43987	0-1	2	0.0002
246	MyrSpi		Point	8/9/2017	41.52329	-73.43835	1-3	2	0.0002
247	NajjMin		Point	8/9/2017	41.51282	-73.44122	1-4	2	0.0002
248	MyrSpi		Patch	8/10/2017	41.51966	-73.43595	1-4	4	3.2546
249	MyrSpi		Patch	8/10/2017	41.52218	-73.43567	1-4	4	0.2111
250	MyrSpi		Patch	8/10/2017	41.52226	-73.43608	1-4	4	0.0091
251	MyrSpi		Patch	8/10/2017	41.52279	-73.43620	1-4	4	0.0348
252	MyrSpi		Patch	8/10/2017	41.52769	-73.43704	0-1	2	0.0370
253	MyrSpi		Patch	8/10/2017	41.52734	-73.43737	1-4	2	0.0597
254	MyrSpi		Patch	8/10/2017	41.52693	-73.43785	1-4	3	0.0692
255	MyrSpi		Patch	8/10/2017	41.52629	-73.43783	1-4	4	0.0382
256	MyrSpi		Patch	8/10/2017	41.53336	-73.43998	1-4	4	7.4543
257	MyrSpi		Patch	8/10/2017	41.54323	-73.44340	1-4	4	0.6352
258	MyrSpi		Patch	8/10/2017	41.54491	-73.44286	1-4	3	0.9479
259	MyrSpi		Patch	8/10/2017	41.54627	-73.44238	1-4	3	0.1318
260	MyrSpi		Patch	8/10/2017	41.54691	-73.44226	1-4	3	0.0718
261	MyrSpi		Patch	8/10/2017	41.54747	-73.44250	1-4	3	0.0940
262	MyrSpi		Patch	8/10/2017	41.54838	-73.44305	1-4	3	0.2606
263	MyrSpi		Patch	8/10/2017	41.54935	-73.44355	1-4	3	0.0859
264	MyrSpi		Patch	8/10/2017	41.55172	-73.44257	1-4	4	2.6558
265	MyrSpi		Patch	8/10/2017	41.55143	-73.43973	1-4	4	0.3435

Appendix Lake Candlewood Invasive Plant Location data (6 of 14)

FID	Invasive Plant Name	Notes	Type	Date	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
266	MyrSpi		Patch	8/10/2017	41.55298	-73.43958	1-4	3	0.1707
267	MyrSpi		Patch	8/10/2017	41.55403	-73.43971	1-4	3	0.1112
268	MyrSpi		Patch	8/10/2017	41.55558	-73.43955	1-4	3	0.0313
269	MyrSpi		Patch	8/10/2017	41.55622	-73.43961	1-4	3	0.1446
270	MyrSpi		Patch	8/10/2017	41.55699	-73.43966	1-4	3	0.0636
271	MyrSpi		Patch	8/10/2017	41.55738	-73.43971	1-4	3	0.0082
272	MyrSpi		Patch	8/10/2017	41.56129	-73.44041	1-4	4	2.8702
273	MyrSpi		Patch	8/10/2017	41.56547	-73.44108	1-4	4	0.9179
274	MyrSpi		Patch	8/10/2017	41.56683	-73.44194	1-4	4	0.3288
275	MyrSpi		Patch	8/10/2017	41.56757	-73.44240	1-4	4	0.2605
276	MyrSpi		Patch	8/10/2017	41.56885	-73.44275	1-4	4	0.6765
277	MyrSpi		Patch	8/10/2017	41.57103	-73.44303	1-4	4	1.3469
278	MyrSpi		Patch	8/10/2017	41.53519	-73.43864	0-1	2	0.0763
279	MyrSpi		Patch	8/10/2017	41.53552	-73.43911	0-1	2	0.0352
280	MyrSpi		Patch	8/10/2017	41.54378	-73.44282	0-1	2	0.3985
281	MyrSpi		Patch	8/10/2017	41.51925	-73.43565	0-1	3	0.8489
282	MyrSpi		Patch	8/10/2017	41.52228	-73.43547	0-1	3	0.2642
283	MyrSpi		Patch	8/10/2017	41.52274	-73.43610	0-1	3	0.1727
284	MyrSpi		Patch	8/10/2017	41.55069	-73.44045	0-1	2	0.5247
285	MyrSpi		Patch	8/10/2017	41.56628	-73.44149	0-1	2	0.1441
286	MyrSpi		Patch	8/10/2017	41.56909	-73.44261	0-1	2	0.0825
287	MyrSpi		Patch	8/10/2017	41.57127	-73.44279	0-1	2	0.6459
288	MyrSpi		Point	8/10/2017	41.52334	-73.43640	1-4	2	0.0002
289	MyrSpi		Point	8/10/2017	41.52352	-73.43642	1-4	2	0.0002
290	MyrSpi		Point	8/10/2017	41.52362	-73.43646	1-4	2	0.0002
291	MyrSpi		Point	8/10/2017	41.52392	-73.43645	1-4	3	0.0002
292	MyrSpi		Point	8/10/2017	41.52388	-73.43646	1-4	3	0.0002
293	MyrSpi		Point	8/10/2017	41.55427	-73.43968	1-3	3	0.0002
294	MyrSpi		Point	8/10/2017	41.55443	-73.43968	1-3	3	0.0002
295	MyrSpi		Point	8/10/2017	41.55449	-73.43964	1-3	3	0.0002
296	MyrSpi		Point	8/10/2017	41.55481	-73.43956	1-3	3	0.0002
297	MyrSpi		Point	8/10/2017	41.55477	-73.43956	1-3	3	0.0002
298	MyrSpi		Point	8/10/2017	41.55473	-73.43957	1-3	3	0.0002
299	MyrSpi		Point	8/10/2017	41.55469	-73.43960	1-3	3	0.0002
300	MyrSpi		Point	8/10/2017	41.55498	-73.43959	1-3	3	0.0002
301	MyrSpi		Point	8/10/2017	41.55513	-73.43954	1-3	3	0.0002
302	MyrSpi		Point	8/10/2017	41.55749	-73.43973	1-3	3	0.0002
303	MyrSpi		Point	8/10/2017	41.55751	-73.43973	1-3	3	0.0002
304	MyrSpi		Point	8/10/2017	41.55778	-73.43972	1-3	3	0.0002
305	MyrSpi		Point	8/10/2017	41.55844	-73.43973	0-1	3	0.0002
306	MyrSpi		Point	8/10/2017	41.55857	-73.43974	0-1	3	0.0002
307	MyrSpi		Point	8/10/2017	41.55856	-73.43974	0-1	3	0.0002
308	MyrSpi		Point	8/10/2017	41.55896	-73.43989	0-1	3	0.0002
309	MyrSpi		Point	8/10/2017	41.55898	-73.43987	0-1	3	0.0002
310	MyrSpi		Point	8/10/2017	41.55935	-73.44003	0-1	3	0.0002
311	MyrSpi		Point	8/10/2017	41.55936	-73.44005	0-1	3	0.0002
312	MyrSpi		Point	8/10/2017	41.56125	-73.44032	0-1	3	0.0002
313	MyrSpi		Point	8/10/2017	41.56126	-73.44034	0-1	3	0.0002
314	MyrSpi		Patch	8/11/2017	41.57248	-73.44404	1-4	4	0.8006
315	MyrSpi		Patch	8/11/2017	41.57230	-73.44588	1-4	3	0.0138
316	MyrSpi		Patch	8/11/2017	41.57163	-73.44575	1-4	3	0.0143
317	MyrSpi		Patch	8/11/2017	41.56824	-73.44540	1-4	4	0.2406
318	MyrSpi		Patch	8/11/2017	41.56645	-73.44508	1-4	4	0.6365

Appendix Lake Candlewood Invasive Plant Location data (7 of 14)

FID	Invasive Plant Name	Notes	Type	Date	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
319	MyrSpi		Patch	8/11/2017	41.56221	-73.44434	1-4	4	3.8589
320	MyrSpi		Patch	8/11/2017	41.55848	-73.44363	1-4	3	0.2590
321	MyrSpi		Patch	8/11/2017	41.55754	-73.44364	1-4	4	0.0540
322	MyrSpi		Patch	8/11/2017	41.55692	-73.44390	1-4	4	0.1324
323	MyrSpi		Patch	8/11/2017	41.55598	-73.44457	1-4	3	0.0362
324	MyrSpi		Patch	8/11/2017	41.55385	-73.44504	1-4	4	0.9997
325	MyrSpi		Patch	8/11/2017	41.55199	-73.44543	1-4	3	0.0436
326	MyrSpi		Patch	8/11/2017	41.54697	-73.44719	1-4	4	2.9157
327	MyrSpi		Patch	8/11/2017	41.53790	-73.44709	1-4	3	0.0828
328	MyrSpi		Patch	8/11/2017	41.53449	-73.44759	1-4	3	0.1443
329	MyrSpi		Patch	8/11/2017	41.53184	-73.44815	1-4	3	0.6597
330	MyrSpi		Patch	8/11/2017	41.52892	-73.44702	1-4	3	0.4710
331	MyrSpi		Patch	8/11/2017	41.52726	-73.44637	1-4	3	0.1794
332	MyrSpi		Patch	8/11/2017	41.52618	-73.44605	1-4	3	0.2183
333	MyrSpi		Patch	8/11/2017	41.52340	-73.44618	1-4	4	1.3871
334	MyrSpi		Patch	8/11/2017	41.52207	-73.44607	2-4	4	0.3978
335	MyrSpi		Patch	8/11/2017	41.52133	-73.44673	1-4	3	0.0359
336	MyrSpi		Patch	8/11/2017	41.52100	-73.44663	1-4	3	0.0249
337	MyrSpi		Patch	8/11/2017	41.51836	-73.44534	1-4	3	0.1625
338	MyrSpi		Patch	8/11/2017	41.51164	-73.44491	1-4	4	0.2981
339	MyrSpi		Patch	8/11/2017	41.51045	-73.44545	1-4	4	0.1499
340	MyrSpi		Patch	8/11/2017	41.50920	-73.44581	1-4	3	0.0737
341	MyrSpi		Patch	8/11/2017	41.50803	-73.44573	1-4	3	0.0775
342	MyrSpi		Patch	8/11/2017	41.50734	-73.44535	1-4	3	0.1508
343	MyrSpi		Patch	8/11/2017	41.50422	-73.44506	1-4	3	0.9184
344	MyrSpi		Patch	8/11/2017	41.50252	-73.44507	1-4	3	0.0634
345	MyrSpi		Patch	8/11/2017	41.50170	-73.44493	1-4	4	0.1613
346	MyrSpi		Patch	8/11/2017	41.49950	-73.44526	1-4	4	0.0289
347	MyrSpi		Patch	8/11/2017	41.49202	-73.45676	1-4	4	2.8907
348	MyrSpi		Patch	8/11/2017	41.48761	-73.46100	1-4	4	6.5902
349	MyrSpi		Patch	8/11/2017	41.55072	-73.44558	0-1	2	0.1099
350	MyrSpi		Patch	8/11/2017	41.55037	-73.44597	0-1	3	0.1333
351	MyrSpi		Patch	8/11/2017	41.55017	-73.44616	0-1	2	0.0271
352	MyrSpi		Patch	8/11/2017	41.54995	-73.44643	0-1	3	0.0725
353	MyrSpi		Patch	8/11/2017	41.54478	-73.44792	0-1	2	0.0429
354	MyrSpi		Patch	8/11/2017	41.54435	-73.44838	0-1	3	0.1053
355	MyrSpi		Patch	8/11/2017	41.48920	-73.45870	0-1	2	0.4353
356	MyrSpi		Patch	8/11/2017	41.48835	-73.45930	0-1	2	0.0178
357	MyrSpi		Patch	8/11/2017	41.48778	-73.45926	0-1	3	0.0361
358	MyrSpi		Patch	8/11/2017	41.48651	-73.45911	0-1	3	0.2891
359	MyrSpi		Patch	8/11/2017	41.48601	-73.45989	0-1	4	0.8860
360	MyrSpi		Patch	8/11/2017	41.56637	-73.44517	0-1	2	0.1090
361	MyrSpi		Patch	8/11/2017	41.56209	-73.44454	0-1	2	1.3492
362	MyrSpi		Patch	8/11/2017	41.55683	-73.44403	0-1	2	0.0789
363	MyrSpi		Patch	8/11/2017	41.55563	-73.44481	0-1	2	0.0215
364	MyrSpi		Patch	8/11/2017	41.55454	-73.44496	0-1	2	0.0551
365	MyrSpi		Patch	8/11/2017	41.55334	-73.44533	0-1	2	0.1241
366	MyrSpi		Patch	8/11/2017	41.55275	-73.44547	0-1	3	0.0736
367	MyrSpi		Patch	8/11/2017	41.52339	-73.44632	0-1	2	0.4508
368	MyrSpi		Patch	8/11/2017	41.50433	-73.44514	0-1	2	0.4739
369	MyrSpi		Point	8/11/2017	41.57102	-73.44566	1-3	2	0.0002
370	MyrSpi		Point	8/11/2017	41.57074	-73.44563	1-3	2	0.0002
371	MyrSpi		Point	8/11/2017	41.53864	-73.44666	1-4	2	0.0002



Appendix Lake Candlewood Invasive Plant Location data (8 of 14)

FID	Invasive Plant Name	Notes	Type	Date	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
372	MyrSpi		Point	8/11/2017	41.53868	-73.44665	1-4	2	0.0002
373	MyrSpi		Point	8/11/2017	41.53872	-73.44665	1-4	2	0.0002
374	MyrSpi		Point	8/11/2017	41.53877	-73.44667	1-4	2	0.0002
375	MyrSpi		Point	8/11/2017	41.53618	-73.44728	1-4	2	0.0002
376	MyrSpi		Point	8/11/2017	41.53625	-73.44730	1-4	2	0.0002
377	MyrSpi		Point	8/11/2017	41.53632	-73.44732	1-4	2	0.0002
378	MyrSpi		Point	8/11/2017	41.53589	-73.44731	1-4	2	0.0002
379	MyrSpi		Point	8/11/2017	41.53558	-73.44730	1-4	2	0.0002
380	MyrSpi		Point	8/11/2017	41.52067	-73.44638	1-4	3	0.0002
381	MyrSpi		Point	8/11/2017	41.52065	-73.44634	1-4	3	0.0002
382	MyrSpi		Point	8/11/2017	41.52055	-73.44624	1-4	2	0.0002
383	MyrSpi		Point	8/11/2017	41.52050	-73.44623	1-4	2	0.0002
384	MyrSpi		Point	8/11/2017	41.52010	-73.44597	1-4	2	0.0002
385	MyrSpi		Point	8/11/2017	41.51967	-73.44586	1-4	2	0.0002
386	MyrSpi		Point	8/11/2017	41.51955	-73.44581	1-4	2	0.0002
387	MyrSpi		Point	8/11/2017	41.51946	-73.44575	1-4	2	0.0002
388	MyrSpi		Point	8/11/2017	41.51905	-73.44548	1-4	2	0.0002
389	MyrSpi		Point	8/11/2017	41.51755	-73.44549	0-1	2	0.0002
390	MyrSpi		Point	8/11/2017	41.51746	-73.44524	1-4	2	0.0002
391	MyrSpi		Point	8/11/2017	41.51499	-73.44425	1-4	2	0.0002
392	MyrSpi		Point	8/11/2017	41.51468	-73.44423	1-4	2	0.0002
393	MyrSpi		Point	8/11/2017	41.51469	-73.44419	1-4	2	0.0002
394	MyrSpi		Point	8/11/2017	41.51433	-73.44409	1-4	2	0.0002
395	MyrSpi		Point	8/11/2017	41.51331	-73.44440	1-4	2	0.0002
396	MyrSpi		Point	8/11/2017	41.51326	-73.44437	1-4	2	0.0002
397	MyrSpi		Point	8/11/2017	41.51311	-73.44438	1-4	2	0.0002
398	MyrSpi		Point	8/11/2017	41.51265	-73.44457	1-4	2	0.0002
399	MyrSpi		Point	8/11/2017	41.51260	-73.44459	1-4	2	0.0002
400	MyrSpi		Point	8/11/2017	41.50951	-73.44583	1-4	2	0.0002
401	MyrSpi		Point	8/11/2017	41.50591	-73.44476	1-4	2	0.0002
402	MyrSpi		Point	8/11/2017	41.50585	-73.44474	1-4	2	0.0002
403	MyrSpi		Point	8/11/2017	41.50062	-73.44507	1-4	2	0.0002
404	MyrSpi		Point	8/11/2017	41.50022	-73.44514	1-4	2	0.0002
405	MyrSpi		Point	8/11/2017	41.49970	-73.44521	1-4	2	0.0002
406	MyrSpi		Point	8/11/2017	41.49885	-73.44546	0-1	2	0.0002
407	MyrSpi		Point	8/11/2017	41.49877	-73.44547	0-1	2	0.0002
408	MyrSpi		Point	8/11/2017	41.49843	-73.44547	1-4	2	0.0002
409	MyrSpi		Point	8/11/2017	41.49814	-73.44545	1-4	3	0.0002
410	NajMin		Patch	8/11/2017	41.48580	-73.45979	0-1	3	0.3311
411	MyrSpi		Patch	8/14/2017	41.49735	-73.46905	0-1	4	0.0219
412	MyrSpi		Patch	8/14/2017	41.49137	-73.46612	1-4	4	1.0502
413	MyrSpi		Patch	8/14/2017	41.49272	-73.46709	1-4	2	0.0314
414	MyrSpi		Patch	8/14/2017	41.49342	-73.46752	1-4	3	0.0934
415	MyrSpi		Patch	8/14/2017	41.49459	-73.46838	1-4	3	0.2643
416	MyrSpi		Patch	8/14/2017	41.49845	-73.46872	1-4	4	3.4305
417	MyrSpi		Patch	8/14/2017	41.49704	-73.46416	1-4	4	5.1862
418	MyrSpi		Patch	8/14/2017	41.50178	-73.46450	1-4	4	0.7222
419	MyrSpi		Patch	8/14/2017	41.50406	-73.46563	1-4	4	0.8962
420	MyrSpi		Patch	8/14/2017	41.50799	-73.46772	1-4	4	4.2769
421	MyrSpi		Patch	8/14/2017	41.50652	-73.46435	1-4	2	0.1242
422	MyrSpi		Patch	8/14/2017	41.50581	-73.46372	1-4	2	0.0301
423	MyrSpi		Patch	8/14/2017	41.50522	-73.46316	1-4	2	0.2180
424	MyrSpi		Patch	8/14/2017	41.50424	-73.46223	1-4	4	0.0813

Appendix Lake Candlewood Invasive Plant Location data (9 of 14)

FID	Invasive Plant Name	Notes	Type	Date	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
425	MyrSpi		Patch	8/14/2017	41.50241	-73.45989	1-4	4	3.6287
426	MyrSpi		Patch	8/14/2017	41.50828	-73.46064	1-4	3	1.2933
427	MyrSpi		Patch	8/14/2017	41.51354	-73.46251	1-4	3	0.0472
428	MyrSpi	Grass Carp Present in Both Coves	Patch	8/14/2017	41.52040	-73.46305	1-4	3	16.1764
429	MyrSpi		Patch	8/14/2017	41.52604	-73.46468	0-1	3	0.0275
430	MyrSpi		Patch	8/14/2017	41.52221	-73.46409	0-1	4	0.1001
431	MyrSpi		Patch	8/14/2017	41.49663	-73.46891	0-1	2	0.1303
432	MyrSpi		Patch	8/14/2017	41.49713	-73.46900	0-1	3	0.0219
433	MyrSpi		Patch	8/14/2017	41.49759	-73.46907	0-1	3	0.0256
434	MyrSpi		Patch	8/14/2017	41.49774	-73.46908	0-1	2	0.0268
435	MyrSpi		Patch	8/14/2017	41.49795	-73.46917	0-1	3	0.0349
436	MyrSpi		Patch	8/14/2017	41.49857	-73.46910	0-1	4	0.2973
437	MyrSpi		Patch	8/14/2017	41.49937	-73.46917	0-1	3	0.0369
438	MyrSpi		Patch	8/14/2017	41.50012	-73.46901	0-1	4	0.7701
439	MyrSpi		Patch	8/14/2017	41.49894	-73.46815	0-1	4	0.2699
440	MyrSpi		Patch	8/14/2017	41.49747	-73.46799	0-1	2	0.6826
441	MyrSpi		Patch	8/14/2017	41.50654	-73.46739	0-1	2	0.2994
442	MyrSpi		Patch	8/14/2017	41.50781	-73.46844	0-1	4	0.0328
443	MyrSpi		Patch	8/14/2017	41.50834	-73.46901	0-1	4	0.1718
444	MyrSpi		Patch	8/14/2017	41.50890	-73.46937	0-1	3	0.1085
445	MyrSpi		Patch	8/14/2017	41.50930	-73.46959	0-1	4	0.0426
446	MyrSpi		Patch	8/14/2017	41.50968	-73.47004	0-1	2	0.1732
447	MyrSpi		Patch	8/14/2017	41.51008	-73.47071	0-1	3	0.0794
448	MyrSpi		Patch	8/14/2017	41.51078	-73.47001	0-1	3	0.2638
449	MyrSpi		Patch	8/14/2017	41.51044	-73.46945	0-1	4	0.1811
450	MyrSpi		Patch	8/14/2017	41.50959	-73.46830	0-1	2	0.3688
451	MyrSpi		Patch	8/14/2017	41.50876	-73.46695	0-1	3	0.0549
452	MyrSpi		Patch	8/14/2017	41.50853	-73.46648	0-1	4	0.1201
453	MyrSpi		Patch	8/14/2017	41.50762	-73.46592	0-1	2	0.8036
454	MyrSpi		Patch	8/14/2017	41.51838	-73.46413	0-1	2	1.6122
455	MyrSpi		Patch	8/14/2017	41.52126	-73.46596	0-1	2	0.3398
456	MyrSpi		Patch	8/14/2017	41.52189	-73.46601	0-1	3	0.2100
457	MyrSpi		Patch	8/14/2017	41.52273	-73.46509	0-1	2	0.5745
458	MyrSpi		Patch	8/14/2017	41.52411	-73.46634	0-1	2	0.0473
459	MyrSpi		Patch	8/14/2017	41.52577	-73.46586	0-1	2	1.5042
460	MyrSpi		Patch	8/14/2017	41.52475	-73.46444	0-1	2	1.5152
461	MyrSpi		Patch	8/14/2017	41.52296	-73.46422	0-1	3	0.2087
462	MyrSpi		Patch	8/14/2017	41.52175	-73.46385	0-1	2	0.0953
463	MyrSpi		Patch	8/14/2017	41.52278	-73.46036	0-1	3	0.1347
464	MyrSpi		Patch	8/14/2017	41.49593	-73.46547	0-1	2	0.3293
465	MyrSpi		Point	8/14/2017	41.49576	-73.46660	0-1	3	0.0002
466	MyrSpi		Point	8/14/2017	41.51293	-73.46261	1-3	3	0.0002
467	MyrSpi		Point	8/14/2017	41.51301	-73.46261	1-3	3	0.0002
468	MyrSpi		Point	8/14/2017	41.51308	-73.46250	1-3	3	0.0002
469	MyrSpi		Patch	8/16/2017	41.55394	-73.47000	0-1	2	0.0462
470	MyrSpi		Patch	8/16/2017	41.57203	-73.49191	0-1	3	0.0313
471	MyrSpi		Patch	8/16/2017	41.57120	-73.49216	0-2	3	0.0537
472	MyrSpi		Patch	8/16/2017	41.57068	-73.49171	0-2	3	0.0342
473	MyrSpi		Patch	8/16/2017	41.57043	-73.49147	0-1	3	0.0067
474	MyrSpi		Patch	8/16/2017	41.57017	-73.49124	0-1	2	0.0503
475	MyrSpi		Patch	8/16/2017	41.56918	-73.49064	0-1	2	0.0377
476	MyrSpi		Patch	8/16/2017	41.56865	-73.49068	0-2	3	0.0099
477	MyrSpi		Patch	8/16/2017	41.56746	-73.49017	0-2	2	0.0059

Appendix Lake Candlewood Invasive Plant Location data (10 of 14)

FID	Invasive Plant Name	Notes	Type	Date	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
478	MyrSpi		Patch	8/16/2017	41.56668	-73.49007	1-4	3	0.2008
479	MyrSpi		Patch	8/16/2017	41.56565	-73.48954	1-4	3	0.0333
480	MyrSpi		Patch	8/16/2017	41.56537	-73.48939	1-4	3	0.0290
481	MyrSpi		Patch	8/16/2017	41.56626	-73.48807	1-4	4	0.7218
482	MyrSpi		Patch	8/16/2017	41.56609	-73.48775	0-1	3	0.0079
483	MyrSpi		Patch	8/16/2017	41.56637	-73.48790	0-1	3	0.0121
484	MyrSpi		Patch	8/16/2017	41.56797	-73.48860	1-4	4	0.3909
485	MyrSpi		Patch	8/16/2017	41.56934	-73.48910	1-4	3	0.1198
486	MyrSpi		Patch	8/16/2017	41.57009	-73.48913	1-4	3	0.7326
487	MyrSpi		Patch	8/16/2017	41.57030	-73.48883	0-2	2	0.6253
488	MyrSpi		Patch	8/16/2017	41.57070	-73.49031	0-2	2	0.0102
489	MyrSpi		Patch	8/16/2017	41.57154	-73.49067	0-2	3	0.0040
490	MyrSpi		Patch	8/16/2017	41.56658	-73.48717	1-4	4	0.7506
491	MyrSpi		Patch	8/16/2017	41.56757	-73.48585	1-4	4	0.1150
492	MyrSpi		Patch	8/16/2017	41.56709	-73.48508	1-4	4	0.0566
493	MyrSpi		Patch	8/16/2017	41.56710	-73.48493	0-1	2	0.0075
494	MyrSpi		Patch	8/16/2017	41.56709	-73.48363	1-4	3	1.7403
495	MyrSpi		Patch	8/16/2017	41.56973	-73.48459	0-2	3	0.3200
496	MyrSpi		Patch	8/16/2017	41.56963	-73.48382	0-2	3	1.0605
497	MyrSpi		Patch	8/16/2017	41.56766	-73.48230	1-4	4	1.8506
498	MyrSpi		Patch	8/16/2017	41.56356	-73.47830	1-4	3	0.0742
499	MyrSpi		Patch	8/16/2017	41.56272	-73.47742	1-4	3	0.0392
500	MyrSpi		Patch	8/16/2017	41.55945	-73.47514	1-4	3	1.7452
501	MyrSpi		Patch	8/16/2017	41.55538	-73.47346	1-4	3	0.8226
502	MyrSpi		Patch	8/16/2017	41.55455	-73.47206	1-4	3	0.0870
503	MyrSpi		Patch	8/16/2017	41.55398	-73.46920	1-4	4	1.2894
504	MyrSpi		Patch	8/16/2017	41.56015	-73.47591	2-4	4	1.7263
505	MyrSpi		Patch	8/16/2017	41.55977	-73.48088	2-4	4	0.3520
506	MyrSpi		Patch	8/16/2017	41.56269	-73.48341	2-4	4	0.4007
507	MyrSpi		Patch	8/16/2017	41.56382	-73.48305	2-4	4	1.6282
508	MyrSpi		Patch	8/16/2017	41.57520	-73.49259	0-1	2	0.1176
509	MyrSpi		Patch	8/16/2017	41.57403	-73.49214	0-1	3	0.0679
510	MyrSpi		Patch	8/16/2017	41.57376	-73.49200	0-1	2	0.0707
511	MyrSpi		Patch	8/16/2017	41.57321	-73.49168	0-1	3	0.1765
512	MyrSpi		Patch	8/16/2017	41.57259	-73.49167	0-1	2	0.3261
513	MyrSpi		Patch	8/16/2017	41.57249	-73.49077	0-1	2	0.7203
514	MyrSpi		Patch	8/16/2017	41.57361	-73.49142	0-1	2	0.0304
515	MyrSpi		Patch	8/16/2017	41.57406	-73.49175	0-1	2	0.0270
516	MyrSpi		Patch	8/16/2017	41.57426	-73.49191	0-1	2	0.0233
517	MyrSpi		Patch	8/16/2017	41.57457	-73.49201	0-1	2	0.1020
518	MyrSpi		Patch	8/16/2017	41.57514	-73.49229	0-1	2	0.0285
519	MyrSpi		Patch	8/16/2017	41.56743	-73.48365	0-1	2	0.2999
520	MyrSpi		Patch	8/16/2017	41.56902	-73.48446	0-1	2	0.0628
521	MyrSpi		Patch	8/16/2017	41.55723	-73.47425	0-1	2	0.1656
522	MyrSpi		Patch	8/16/2017	41.55512	-73.47256	0-1	2	0.2539
523	MyrSpi		Patch	8/16/2017	41.55357	-73.47059	0-1	2	0.0809
524	MyrSpi		Patch	8/16/2017	41.55387	-73.47126	0-1	2	0.1931
525	MyrSpi		Patch	8/16/2017	41.55403	-73.46968	0-1	2	0.1335
526	MyrSpi		Patch	8/16/2017	41.55425	-73.46867	0-1	2	0.0706
527	MyrSpi		Patch	8/16/2017	41.55425	-73.46742	0-1	3	0.2059
528	MyrSpi		Patch	8/16/2017	41.56657	-73.49023	0-1	3	0.0207
529	MyrSpi		Patch	8/16/2017	41.56742	-73.48660	0-1	2	0.1732
530	MyrSpi		Patch	8/16/2017	41.56669	-73.48744	0-1	2	0.0326

Appendix Lake Candlewood Invasive Plant Location data (11 of 14)

FID	Invasive Plant Name	Notes	Type	Date	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
531	MyrSpi		Patch	8/16/2017	41.56771	-73.48586	0-1	2	0.0987
532	MyrSpi		Patch	8/16/2017	41.56835	-73.48305	0-1	3	0.1246
533	MyrSpi		Point	8/16/2017	41.56827	-73.49052	1-3	2	0.0002
534	MyrSpi		Point	8/16/2017	41.56818	-73.49046	1-3	2	0.0002
535	MyrSpi		Point	8/16/2017	41.56799	-73.49027	1-3	2	0.0002
536	MyrSpi		Point	8/16/2017	41.56777	-73.49026	1-3	2	0.0002
537	MyrSpi		Point	8/16/2017	41.56770	-73.49019	1-3	2	0.0002
538	MyrSpi		Point	8/16/2017	41.56603	-73.48981	1-3	2	0.0002
539	MyrSpi		Point	8/16/2017	41.56600	-73.48982	1-3	2	0.0002
540	MyrSpi		Point	8/16/2017	41.56858	-73.48878	1-3	2	0.0002
541	MyrSpi		Point	8/16/2017	41.56862	-73.48880	1-3	2	0.0002
542	MyrSpi		Point	8/16/2017	41.56724	-73.48530	1-3	2	0.0002
543	MyrSpi		Point	8/16/2017	41.56725	-73.48538	1-3	2	0.0002
544	MyrSpi		Point	8/16/2017	41.57288	-73.49149	1-2	2	0.0002
545	MyrSpi		Point	8/16/2017	41.57251	-73.49138	0-2	2	0.0002
546	MyrSpi		Point	8/16/2017	41.57280	-73.49127	1-2	2	0.0002
547	MyrSpi		Point	8/16/2017	41.57269	-73.49128	1-2	2	0.0002
548	MyrSpi		Point	8/16/2017	41.57257	-73.49131	1-2	2	0.0002
549	MyrSpi		Point	8/16/2017	41.57247	-73.49148	1-2	2	0.0002
550	MyrSpi		Point	8/16/2017	41.57237	-73.49148	1-2	2	0.0002
551	MyrSpi		Point	8/16/2017	41.57254	-73.49124	1-2	1	0.0002
552	MyrSpi		Point	8/16/2017	41.57262	-73.49123	1-2	1	0.0002
553	MyrSpi		Point	8/16/2017	41.57251	-73.49138	1-2	2	0.0002
554	MyrSpi		Patch	8/17/2017	41.52385	-73.45840	1-3	2	0.0118
555	MyrSpi		Patch	8/17/2017	41.52866	-73.46177	1-4	4	3.4037
556	MyrSpi		Patch	8/17/2017	41.52852	-73.46110	0-1	2	0.0775
557	MyrSpi		Patch	8/17/2017	41.52942	-73.46377	0-1	2	0.0819
558	MyrSpi		Patch	8/17/2017	41.53005	-73.46429	1-4	3	0.0183
559	MyrSpi	With NajMin = 2	Patch	8/17/2017	41.53114	-73.46532	1-4	3	0.7439
560	MyrSpi		Patch	8/17/2017	41.53269	-73.46619	1-4	3	0.3472
561	MyrSpi		Patch	8/17/2017	41.53687	-73.46884	1-4	4	2.3695
562	MyrSpi		Patch	8/17/2017	41.53797	-73.46544	1-4	4	6.7842
563	MyrSpi		Patch	8/17/2017	41.53352	-73.46551	2-4	4	1.7031
564	MyrSpi		Patch	8/17/2017	41.53411	-73.46225	1-4	4	3.0961
565	MyrSpi		Patch	8/17/2017	41.53247	-73.46299	0-1	3	0.0748
566	MyrSpi		Patch	8/17/2017	41.54289	-73.46645	0-1	3	0.8152
567	MyrSpi		Patch	8/17/2017	41.54442	-73.46613	1-4	4	0.4791
568	MyrSpi		Patch	8/17/2017	41.54681	-73.46642	1-4	4	0.3058
569	MyrSpi		Patch	8/17/2017	41.54988	-73.46870	1-4	4	2.0683
570	MyrSpi		Patch	8/17/2017	41.55096	-73.47175	1-4	4	1.0851
571	MyrSpi		Patch	8/17/2017	41.54672	-73.46919	1-4	4	0.9699
572	MyrSpi		Patch	8/17/2017	41.55317	-73.46670	1-4	3	0.0929
573	MyrSpi		Patch	8/17/2017	41.55206	-73.46609	1-4	3	0.1238
574	MyrSpi		Patch	8/17/2017	41.55163	-73.46590	1-4	3	0.0019
575	MyrSpi		Patch	8/17/2017	41.55117	-73.46558	1-4	3	0.0959
576	MyrSpi		Patch	8/17/2017	41.54966	-73.46440	1-4	3	0.2513
577	MyrSpi		Patch	8/17/2017	41.54678	-73.46374	1-4	4	1.5692
578	MyrSpi		Patch	8/17/2017	41.54461	-73.46119	1-4	4	1.1829
579	MyrSpi		Patch	8/17/2017	41.54265	-73.45854	1-4	3	0.5008
580	MyrSpi		Patch	8/17/2017	41.54088	-73.45762	1-4	3	0.2619
581	MyrSpi		Patch	8/17/2017	41.53969	-73.45712	1-4	3	0.2200
582	MyrSpi		Patch	8/17/2017	41.53895	-73.45683	1-4	3	0.0746
583	MyrSpi		Patch	8/17/2017	41.53705	-73.45622	1-4	3	0.2844

Appendix Lake Candlewood Invasive Plant Location data (12 of 14)

FID	Invasive Plant Name	Notes	Type	Date	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
584	MyrSpi		Patch	8/17/2017	41.53645	-73.45599	1-4	3	0.1306
585	MyrSpi		Patch	8/17/2017	41.53481	-73.45551	1-4	3	0.1396
586	MyrSpi		Patch	8/17/2017	41.53419	-73.45503	1-4	3	0.0222
587	MyrSpi		Patch	8/17/2017	41.53372	-73.45480	1-4	3	0.0479
588	MyrSpi		Patch	8/17/2017	41.52420	-73.45331	1-4	4	8.4439
589	MyrSpi		Patch	8/17/2017	41.51417	-73.45338	1-4	5	0.3114
590	MyrSpi		Patch	8/17/2017	41.53262	-73.46232	0-1	2	0.0259
591	MyrSpi		Patch	8/17/2017	41.53544	-73.46209	0-1	3	0.2996
592	MyrSpi		Patch	8/17/2017	41.54704	-73.46653	0-1	2	0.0137
593	MyrSpi		Patch	8/17/2017	41.55142	-73.47069	0-1	3	0.0713
594	MyrSpi		Patch	8/17/2017	41.53243	-73.45438	0-1	2	0.3956
595	MyrSpi		Patch	8/17/2017	41.53183	-73.45468	0-1	2	0.1405
596	MyrSpi		Patch	8/17/2017	41.52974	-73.45360	0-1	2	0.2796
597	MyrSpi		Patch	8/17/2017	41.51405	-73.45325	0-1	3	0.2673
598	MyrSpi		Patch	8/17/2017	41.53140	-73.46596	0-1	2	0.1282
599	MyrSpi		Patch	8/17/2017	41.53202	-73.46610	0-1	3	0.0490
600	MyrSpi		Patch	8/17/2017	41.54476	-73.46119	0-1	3	0.5081
601	MyrSpi		Point	8/17/2017	41.52147	-73.45782	1-3	2	0.0002
602	MyrSpi		Point	8/17/2017	41.52161	-73.45784	1-3	2	0.0002
603	MyrSpi		Point	8/17/2017	41.52190	-73.45794	1-3	2	0.0002
604	MyrSpi		Point	8/17/2017	41.52245	-73.45810	1-3	2	0.0002
605	MyrSpi		Point	8/17/2017	41.52293	-73.45821	1-3	2	0.0002
606	MyrSpi		Point	8/17/2017	41.52307	-73.45823	1-3	2	0.0002
607	MyrSpi		Point	8/17/2017	41.52324	-73.45826	1-3	2	0.0002
608	MyrSpi		Point	8/17/2017	41.52445	-73.45848	1-3	2	0.0002
609	MyrSpi		Point	8/17/2017	41.52534	-73.45889	0-1	2	0.0002
610	MyrSpi		Point	8/17/2017	41.52544	-73.45896	0-1	2	0.0002
611	MyrSpi		Point	8/17/2017	41.52624	-73.45925	0-1	2	0.0002
612	MyrSpi		Point	8/17/2017	41.52658	-73.45936	0-1	2	0.0002
613	MyrSpi		Point	8/17/2017	41.52755	-73.46006	0-1	2	0.0002
614	MyrSpi		Point	8/17/2017	41.52772	-73.46023	0-1	2	0.0002
615	MyrSpi		Point	8/17/2017	41.52774	-73.46027	0-1	2	0.0002
616	MyrSpi		Point	8/17/2017	41.52776	-73.46030	0-1	2	0.0002
617	MyrSpi		Point	8/17/2017	41.52788	-73.46039	0-1	2	0.0002
618	MyrSpi		Point	8/17/2017	41.52795	-73.46045	0-1	2	0.0002
619	MyrSpi		Point	8/17/2017	41.52800	-73.46049	0-1	2	0.0002
620	MyrSpi		Point	8/17/2017	41.52811	-73.46059	0-1	2	0.0002
621	MyrSpi		Point	8/17/2017	41.52835	-73.46083	0-1	2	0.0002
622	MyrSpi		Point	8/17/2017	41.52897	-73.46172	0-1	2	0.0002
623	MyrSpi		Point	8/17/2017	41.52913	-73.46198	0-1	2	0.0002
624	MyrSpi		Point	8/17/2017	41.52912	-73.46202	0-1	2	0.0002
625	MyrSpi		Point	8/17/2017	41.52912	-73.46204	0-1	2	0.0002
626	MyrSpi		Point	8/17/2017	41.52929	-73.46233	0-1	2	0.0002
627	MyrSpi		Point	8/17/2017	41.52930	-73.46246	0-1	2	0.0002
628	MyrSpi		Point	8/17/2017	41.52937	-73.46322	0-1	2	0.0002
629	MyrSpi		Point	8/17/2017	41.52938	-73.46315	0-1	2	0.0002
630	MyrSpi		Point	8/17/2017	41.53040	-73.46451	1-4	2	0.0002
631	MyrSpi		Point	8/17/2017	41.53638	-73.46835	0-1	3	0.0002
632	MyrSpi		Point	8/17/2017	41.53669	-73.46861	0-1	3	0.0002
633	MyrSpi		Point	8/17/2017	41.53774	-73.46962	0-1	2	0.0002
634	MyrSpi		Point	8/17/2017	41.53870	-73.47087	0-1	2	0.0002
635	MyrSpi		Point	8/17/2017	41.53872	-73.47091	0-1	2	0.0002
636	MyrSpi		Point	8/17/2017	41.55380	-73.46711	1-3	2	0.0002

Appendix Lake Candlewood Invasive Plant Location data (14 of 14)

FID	Invasive Plant Name	Notes	Type	Date	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
691	MyrSpi		Patch	8/25/2017	41.44689	-73.42970	0-1	3	0.0402
692	MyrSpi		Patch	8/25/2017	41.44700	-73.42981	0-1	5	0.0472
693	MyrSpi		Patch	8/25/2017	41.44715	-73.42990	0-1	2	0.1015
694	MyrSpi		Patch	8/25/2017	41.44732	-73.43004	0-1	4	0.0724
695	MyrSpi		Patch	8/25/2017	41.44764	-73.43031	0-1	5	0.3321
696	MyrSpi		Patch	8/25/2017	41.44837	-73.43103	0-1	4	0.0604
697	MyrSpi		Patch	8/25/2017	41.44915	-73.43149	0-1	5	0.4203
698	MyrSpi		Patch	8/25/2017	41.45053	-73.43250	0-1	2	0.2303
699	MyrSpi		Patch	8/25/2017	41.45085	-73.43271	0-1	4	0.0747

Appendix Lake Candlewood Eurasian watermilfoil to surface locations (1 of 15)

FID	Surveyor	Invasive Plant Name	Type	Notes	Date	Time	Latitude	Longitude
1	Greg Bugbee	MyrSpi	Point	Depth = 1-4 meters	7/27/2017	12:12:55pm	41.45684	-73.45401
2	Greg Bugbee	MyrSpi	Point	Depth = 1-4 meters	7/27/2017	12:13:01pm	41.45679	-73.45401
3	Greg Bugbee	MyrSpi	Point	Depth = 1-4 meters	7/27/2017	12:13:08pm	41.45673	-73.45413
4	Greg Bugbee	MyrSpi	Point	Depth = 1-4 meters	7/27/2017	12:13:16pm	41.45676	-73.45436
5	Greg Bugbee	MyrSpi	Point	Depth = 1-4 meters	7/27/2017	12:13:38pm	41.45675	-73.45440
6	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/16/2017	01:22:07pm	41.56703	-73.48424
7	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/16/2017	01:22:25pm	41.56700	-73.48421
8	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/16/2017	01:34:13pm	41.56933	-73.48471
9	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/16/2017	01:34:52pm	41.56942	-73.48472
10	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/16/2017	01:35:14pm	41.56949	-73.48473
11	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/16/2017	01:35:40pm	41.56958	-73.48473
12	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/16/2017	01:36:01pm	41.56969	-73.48471
13	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/16/2017	01:46:08pm	41.56889	-73.48344
14	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/16/2017	01:46:34pm	41.56886	-73.48350
15	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/16/2017	01:47:09pm	41.56886	-73.48353
16	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/16/2017	01:47:52pm	41.56842	-73.48334
17	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/16/2017	01:47:56pm	41.56843	-73.48326
18	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/16/2017	01:48:21pm	41.56843	-73.48309
19	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/16/2017	02:50:01pm	41.55393	-73.46994
20	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/16/2017	02:51:03pm	41.55399	-73.46979
21	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/16/2017	02:51:08pm	41.55399	-73.46978
22	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/16/2017	02:51:21pm	41.55401	-73.46971
23	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/16/2017	02:51:24pm	41.55402	-73.46964
24	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/16/2017	02:51:28pm	41.55402	-73.46958
25	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/16/2017	02:52:40pm	41.55403	-73.46908
26	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/16/2017	02:52:46pm	41.55407	-73.46905
27	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/16/2017	02:52:54pm	41.55422	-73.46897
28	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/16/2017	02:54:40pm	41.55427	-73.46863
29	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/16/2017	02:54:43pm	41.55427	-73.46861
30	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/16/2017	02:55:02pm	41.55421	-73.46860
31	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/16/2017	02:55:23pm	41.55423	-73.46846
32	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/16/2017	02:55:33pm	41.55425	-73.46842
33	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/16/2017	02:56:24pm	41.55422	-73.46795
34	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/16/2017	02:56:29pm	41.55423	-73.46787
35	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/16/2017	02:56:32pm	41.55422	-73.46779
36	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/16/2017	02:56:35pm	41.55421	-73.46771
37	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/16/2017	02:57:06pm	41.55430	-73.46789
38	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/16/2017	02:57:16pm	41.55436	-73.46790
39	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/16/2017	02:58:38pm	41.55411	-73.46708
40	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	11:11:40am	41.53441	-73.46700
41	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	11:11:54am	41.53462	-73.46708
42	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	11:11:58am	41.53464	-73.46718
43	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	11:12:22am	41.53506	-73.46745
44	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	11:12:26am	41.53514	-73.46747
45	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	11:12:31am	41.53522	-73.46752
46	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	11:12:34am	41.53528	-73.46755
47	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	11:13:20am	41.53616	-73.46814
48	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	11:13:23am	41.53621	-73.46815
49	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	11:15:05am	41.53701	-73.46883
50	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	11:15:34am	41.53718	-73.46891
51	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	11:15:37am	41.53720	-73.46898

Appendix Lake Candlewood Eurasian watermilfoil to surface locations (2 of 15)

FID	Surveyor	Invasive Plant Name	Type	Notes	Date	Time	Latitude	Longitude
52	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	11:15:41am	41.53726	-73.46905
53	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	01:11:55pm	41.54876	-73.46693
54	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	01:12:03pm	41.54878	-73.46695
55	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	01:12:21pm	41.54910	-73.46722
56	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	01:12:24pm	41.54912	-73.46731
57	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	01:12:29pm	41.54915	-73.46745
58	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	01:12:32pm	41.54919	-73.46755
59	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	01:13:19pm	41.55045	-73.46967
60	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	01:13:22pm	41.55050	-73.46974
61	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	02:00:48pm	41.54665	-73.46358
62	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	02:00:51pm	41.54659	-73.46357
63	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/17/2017	02:00:55pm	41.54646	-73.46354
64	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/17/2017	02:01:44pm	41.54609	-73.46354
65	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/17/2017	02:21:14pm	41.54254	-73.45841
66	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/17/2017	02:21:34pm	41.54250	-73.45835
67	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/17/2017	02:21:41pm	41.54245	-73.45834
68	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/17/2017	02:22:12pm	41.54231	-73.45821
69	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/17/2017	02:38:41pm	41.53414	-73.45500
70	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/17/2017	03:17:16pm	41.52849	-73.45367
71	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/17/2017	03:18:31pm	41.52702	-73.45353
72	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/17/2017	03:18:34pm	41.52698	-73.45350
73	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/17/2017	03:19:13pm	41.52603	-73.45338
74	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/17/2017	03:19:16pm	41.52601	-73.45337
75	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	03:19:34pm	41.52568	-73.45336
76	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/17/2017	03:20:18pm	41.52511	-73.45319
77	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/17/2017	03:20:32pm	41.52506	-73.45316
78	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/17/2017	03:20:46pm	41.52500	-73.45314
79	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/17/2017	03:21:08pm	41.52471	-73.45317
80	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	03:21:23pm	41.52459	-73.45316
81	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	03:21:58pm	41.52427	-73.45306
82	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	03:22:46pm	41.52338	-73.45273
83	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	03:23:06pm	41.52317	-73.45266
84	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	03:23:08pm	41.52312	-73.45264
85	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	03:23:11pm	41.52308	-73.45262
86	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	03:23:16pm	41.52297	-73.45261
87	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	03:23:33pm	41.52256	-73.45249
88	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	03:27:39pm	41.51551	-73.45291
89	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	03:27:45pm	41.51543	-73.45287
90	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	03:27:57pm	41.51519	-73.45298
91	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	03:27:59pm	41.51513	-73.45297
92	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/17/2017	03:28:02pm	41.51508	-73.45295
93	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/21/2017	11:30:02am	41.55658	-73.48186
94	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/21/2017	11:30:09am	41.55662	-73.48195
95	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/21/2017	11:30:27am	41.55684	-73.48225
96	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/21/2017	11:30:35am	41.55695	-73.48242
97	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/21/2017	11:49:15am	41.55776	-73.48402
98	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/21/2017	11:49:19am	41.55778	-73.48414
99	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/21/2017	11:50:55am	41.55824	-73.48519
100	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/21/2017	11:51:27am	41.55831	-73.48517
101	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/21/2017	11:52:38am	41.55847	-73.48508
102	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/21/2017	11:52:50am	41.55845	-73.48510



Appendix Lake Candlewood Eurasian watermilfoil to surface locations (3 of 15)

FID	Surveyor	Invasive Plant Name	Type	Notes	Date	Time	Latitude	Longitude
103	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/21/2017	11:53:03am	41.55853	-73.48500
104	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/21/2017	11:53:32am	41.55857	-73.48489
105	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/21/2017	11:53:52am	41.55860	-73.48486
106	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/21/2017	11:54:00am	41.55861	-73.48486
107	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/21/2017	12:00:55pm	41.55839	-73.48246
108	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/21/2017	12:01:18pm	41.55838	-73.48242
109	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/21/2017	12:01:32pm	41.55836	-73.48231
110	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/21/2017	01:35:28pm	41.56230	-73.48789
111	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/21/2017	01:35:47pm	41.56229	-73.48784
112	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/1/2017	12:40:13pm	41.49740	-73.44554
113	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/1/2017	12:40:25pm	41.49731	-73.44551
114	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/1/2017	12:40:32pm	41.49725	-73.44550
115	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/1/2017	12:40:36pm	41.49717	-73.44552
116	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/1/2017	12:40:42pm	41.49705	-73.44553
117	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/1/2017	12:40:54pm	41.49680	-73.44568
118	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/1/2017	12:41:01pm	41.49666	-73.44574
119	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/1/2017	12:41:34pm	41.49669	-73.44647
120	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/1/2017	12:41:37pm	41.49673	-73.44649
121	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/1/2017	12:41:45pm	41.49682	-73.44652
122	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/1/2017	12:41:50pm	41.49689	-73.44656
123	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/1/2017	12:41:58pm	41.49698	-73.44661
124	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/1/2017	12:42:07pm	41.49712	-73.44661
125	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/1/2017	12:42:10pm	41.49714	-73.44656
126	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/1/2017	12:42:14pm	41.49711	-73.44649
127	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/1/2017	12:44:05pm	41.49718	-73.44711
128	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/1/2017	12:44:13pm	41.49723	-73.44726
129	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/1/2017	12:44:15pm	41.49724	-73.44732
130	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/1/2017	12:44:18pm	41.49726	-73.44740
131	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/1/2017	12:44:22pm	41.49727	-73.44749
132	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/1/2017	12:44:26pm	41.49726	-73.44756
133	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/1/2017	02:22:38pm	41.51199	-73.45519
134	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/1/2017	02:22:47pm	41.51178	-73.45509
135	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/1/2017	02:23:02pm	41.51140	-73.45497
136	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/1/2017	02:23:30pm	41.51085	-73.45480
137	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/1/2017	02:23:39pm	41.51078	-73.45470
138	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/1/2017	02:23:50pm	41.51059	-73.45461
139	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/1/2017	02:24:10pm	41.51017	-73.45460
140	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/1/2017	02:25:43pm	41.50829	-73.45432
141	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/1/2017	02:25:45pm	41.50826	-73.45431
142	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/1/2017	02:26:02pm	41.50791	-73.45420
143	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/1/2017	02:26:07pm	41.50781	-73.45417
144	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/1/2017	02:26:20pm	41.50750	-73.45410
145	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/1/2017	02:26:22pm	41.50746	-73.45406
146	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/1/2017	02:26:25pm	41.50738	-73.45400
147	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/1/2017	02:26:31pm	41.50725	-73.45393
148	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/1/2017	02:26:45pm	41.50693	-73.45384
149	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/1/2017	02:27:51pm	41.50549	-73.45350
150	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/1/2017	02:36:22pm	41.50479	-73.45323
151	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/1/2017	02:36:33pm	41.50452	-73.45309
152	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/1/2017	03:15:50pm	41.46955	-73.44878
153	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/1/2017	03:16:38pm	41.46913	-73.44833

Appendix Lake Candlewood Eurasian watermilfoil to surface locations (4 of 15)

FID	Surveyor	Invasive Plant Name	Type	Notes	Date	Time	Latitude	Longitude
154	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/1/2017	03:17:00pm	41.46915	-73.44835
155	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/1/2017	03:18:11pm	41.46811	-73.44704
156	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/1/2017	03:18:16pm	41.46812	-73.44701
157	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/1/2017	03:18:33pm	41.46798	-73.44678
158	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/1/2017	03:18:36pm	41.46792	-73.44676
159	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/1/2017	03:18:58pm	41.46752	-73.44655
160	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/1/2017	03:19:01pm	41.46745	-73.44653
161	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/1/2017	03:19:04pm	41.46740	-73.44649
162	Greg Bugbee	MyrSpi	Point	Depth = 1 meter	8/3/2017	10:16:49am	41.47782	-73.46148
163	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	10:17:54am	41.47888	-73.46183
164	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	10:18:04am	41.47903	-73.46196
165	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	10:18:07am	41.47907	-73.46197
166	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	10:18:11am	41.47922	-73.46203
167	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/3/2017	10:18:50am	41.47968	-73.46247
168	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/3/2017	10:19:02am	41.47967	-73.46253
169	Greg Bugbee	MyrSpi	Point	Depth = 1 meter	8/3/2017	10:19:14am	41.47967	-73.46258
170	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	10:20:42am	41.48006	-73.46212
171	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	10:21:04am	41.48008	-73.46205
172	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	10:41:16am	41.48189	-73.46131
173	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	10:41:18am	41.48188	-73.46136
174	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	10:41:52am	41.48247	-73.46128
175	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	10:41:54am	41.48254	-73.46127
176	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	10:41:57am	41.48262	-73.46125
177	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	10:42:01am	41.48272	-73.46123
178	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	10:42:33am	41.48298	-73.46033
179	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	10:42:35am	41.48301	-73.46027
180	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	10:42:38am	41.48304	-73.46018
181	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	10:42:41am	41.48308	-73.46010
182	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	10:42:43am	41.48312	-73.46004
183	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	10:42:53am	41.48326	-73.46000
184	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	10:42:56am	41.48324	-73.46007
185	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	10:42:59am	41.48320	-73.46015
186	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	10:43:25am	41.48328	-73.45992
187	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	10:43:44am	41.48329	-73.45999
188	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	10:44:23am	41.48347	-73.45972
189	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	10:47:27am	41.48467	-73.45941
190	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	10:47:33am	41.48474	-73.45943
191	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	10:48:00am	41.48471	-73.45934
192	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	10:50:21am	41.48381	-73.45804
193	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	10:50:27am	41.48375	-73.45801
194	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	10:51:00am	41.48304	-73.45784
195	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	10:51:03am	41.48298	-73.45780
196	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	10:58:04am	41.48105	-73.45738
197	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	10:58:07am	41.48100	-73.45738
198	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	10:58:12am	41.48094	-73.45741
199	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	10:58:21am	41.48078	-73.45754
200	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:01:29am	41.47987	-73.45748
201	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:01:42am	41.47975	-73.45754
202	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:01:45am	41.47972	-73.45750
203	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:01:50am	41.47966	-73.45744
204	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:01:52am	41.47963	-73.45740

Appendix Lake Candlewood Eurasian watermilfoil to surface locations (5 of 15)

FID	Surveyor	Invasive Plant Name	Type	Notes	Date	Time	Latitude	Longitude
205	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:01:54am	41.47961	-73.45734
206	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:02:02am	41.47945	-73.45711
207	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:11:05am	41.47897	-73.45613
208	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:11:08am	41.47894	-73.45615
209	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:11:18am	41.47889	-73.45607
210	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:11:22am	41.47887	-73.45597
211	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:11:24am	41.47885	-73.45594
212	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:11:53am	41.47822	-73.45550
213	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:12:01am	41.47803	-73.45550
214	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:12:07am	41.47789	-73.45550
215	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:12:10am	41.47783	-73.45546
216	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:12:18am	41.47764	-73.45546
217	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:12:35am	41.47724	-73.45536
218	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:12:38am	41.47717	-73.45529
219	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:12:49am	41.47692	-73.45523
220	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:13:19am	41.47619	-73.45492
221	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:13:35am	41.47603	-73.45450
222	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:13:38am	41.47600	-73.45442
223	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:16:26am	41.47447	-73.45312
224	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:16:28am	41.47451	-73.45315
225	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:16:40am	41.47442	-73.45322
226	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:27:05am	41.47151	-73.45167
227	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:27:16am	41.47132	-73.45148
228	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:27:20am	41.47126	-73.45145
229	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:27:23am	41.47121	-73.45142
230	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:27:25am	41.47117	-73.45141
231	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:27:33am	41.47102	-73.45131
232	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:27:36am	41.47100	-73.45124
233	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:27:53am	41.47117	-73.45137
234	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:30:19am	41.47047	-73.45085
235	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:30:22am	41.47041	-73.45084
236	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:30:26am	41.47033	-73.45086
237	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:30:32am	41.47022	-73.45092
238	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:30:36am	41.47015	-73.45097
239	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:41:34am	41.46892	-73.45039
240	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:41:37am	41.46886	-73.45033
241	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:41:44am	41.46870	-73.45031
242	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:41:47am	41.46863	-73.45030
243	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:41:50am	41.46857	-73.45026
244	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:42:10am	41.46859	-73.45023
245	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:42:13am	41.46858	-73.45030
246	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:42:16am	41.46861	-73.45039
247	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:42:48am	41.46804	-73.45023
248	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:42:51am	41.46796	-73.45016
249	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:42:53am	41.46790	-73.45014
250	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:43:53am	41.46644	-73.44957
251	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:43:59am	41.46632	-73.44958
252	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:44:15am	41.46603	-73.44941
253	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:44:17am	41.46600	-73.44934
254	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:45:03am	41.46535	-73.44832
255	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/3/2017	11:45:06am	41.46534	-73.44824

Appendix Lake Candlewood Eurasian watermilfoil to surface locations (6 of 15)

FID	Surveyor	Invasive Plant Name	Type	Notes	Date	Time	Latitude	Longitude
256	Greg Bugbee	MyrSpi	Point	Depth = 1-4 meters	8/8/2017	10:58:00am	41.47237	-73.43595
257	Greg Bugbee	MyrSpi	Point	Depth = 1-4 meters	8/8/2017	10:58:04am	41.47239	-73.43586
258	Greg Bugbee	MyrSpi	Point	Depth = 1-4 meters	8/8/2017	10:58:10am	41.47232	-73.43570
259	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/8/2017	10:58:30am	41.47209	-73.43517
260	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/8/2017	10:58:58am	41.47191	-73.43467
261	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/8/2017	10:59:00am	41.47191	-73.43468
262	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/8/2017	10:59:04am	41.47191	-73.43471
263	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/8/2017	10:59:07am	41.47193	-73.43478
264	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/8/2017	10:59:10am	41.47194	-73.43483
265	Greg Bugbee	MyrSpi	Point	Depth = 1-4 meters	8/8/2017	10:59:32am	41.47183	-73.43457
266	Greg Bugbee	MyrSpi	Point	Depth = 1-4 meters	8/8/2017	10:59:36am	41.47187	-73.43450
267	Greg Bugbee	MyrSpi	Point	Depth = 1-4 meters	8/8/2017	10:59:39am	41.47192	-73.43443
268	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/8/2017	11:02:21am	41.47207	-73.43359
269	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/8/2017	11:02:42am	41.47212	-73.43348
270	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/8/2017	11:04:57am	41.47180	-73.43314
271	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/8/2017	11:05:11am	41.47159	-73.43305
272	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/8/2017	11:05:14am	41.47156	-73.43301
273	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/8/2017	11:05:18am	41.47152	-73.43297
274	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/8/2017	11:05:21am	41.47148	-73.43296
275	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/8/2017	11:06:04am	41.47129	-73.43286
276	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/8/2017	11:06:09am	41.47129	-73.43287
277	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/8/2017	11:06:15am	41.47129	-73.43290
278	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/8/2017	11:06:19am	41.47121	-73.43286
279	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/8/2017	11:06:47am	41.47109	-73.43278
280	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/8/2017	11:06:51am	41.47109	-73.43279
281	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/8/2017	11:06:58am	41.47108	-73.43282
282	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/8/2017	12:08:12pm	41.46482	-73.42413
283	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/8/2017	12:10:34pm	41.46435	-73.42429
284	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/8/2017	12:10:47pm	41.46434	-73.42428
285	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/8/2017	12:10:51pm	41.46435	-73.42429
286	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/8/2017	12:52:34pm	41.47515	-73.44415
287	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/8/2017	12:53:24pm	41.47538	-73.44419
288	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/8/2017	12:53:45pm	41.47545	-73.44425
289	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/8/2017	12:54:15pm	41.47578	-73.44429
290	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/8/2017	12:54:28pm	41.47578	-73.44435
291	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/8/2017	12:54:52pm	41.47586	-73.44439
292	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/8/2017	12:54:57pm	41.47590	-73.44435
293	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/8/2017	12:55:43pm	41.47626	-73.44431
294	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/8/2017	12:55:46pm	41.47630	-73.44431
295	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/8/2017	12:55:54pm	41.47638	-73.44431
296	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/8/2017	12:55:59pm	41.47642	-73.44436
297	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/8/2017	12:56:36pm	41.47660	-73.44443
298	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/8/2017	12:57:48pm	41.47695	-73.44439
299	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/8/2017	12:57:51pm	41.47693	-73.44442
300	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/8/2017	12:58:20pm	41.47709	-73.44455
301	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/8/2017	12:58:25pm	41.47713	-73.44453
302	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/8/2017	01:06:57pm	41.48383	-73.44368
303	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/8/2017	01:07:09pm	41.48393	-73.44369
304	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/9/2017	10:54:42am	41.47212	-73.44697
305	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/9/2017	11:12:14am	41.48485	-73.43989
306	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/9/2017	11:13:11am	41.48494	-73.44006

Appendix Lake Candlewood Eurasian watermilfoil to surface locations (7 of 15)

FID	Surveyor	Invasive Plant Name	Type	Notes	Date	Time	Latitude	Longitude
307	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/9/2017	11:13:15am	41.48492	-73.44011
308	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/9/2017	11:14:45am	41.48460	-73.43909
309	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/9/2017	11:36:54am	41.48241	-73.43541
310	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/9/2017	11:49:46am	41.48760	-73.43538
311	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/9/2017	11:49:53am	41.48753	-73.43530
312	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/9/2017	11:49:57am	41.48751	-73.43519
313	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/9/2017	11:50:02am	41.48750	-73.43509
314	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/9/2017	11:50:58am	41.48692	-73.43447
315	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/9/2017	11:51:32am	41.48636	-73.43435
316	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/9/2017	11:51:52am	41.48636	-73.43418
317	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	11:57:41am	41.49395	-73.44120
318	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	11:57:45am	41.49397	-73.44113
319	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	11:59:43am	41.49425	-73.44134
320	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	11:59:48am	41.49430	-73.44143
321	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	11:59:57am	41.49446	-73.44153
322	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	12:00:00pm	41.49452	-73.44156
323	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	12:00:09pm	41.49468	-73.44163
324	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	12:00:15pm	41.49478	-73.44168
325	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	12:00:18pm	41.49483	-73.44171
326	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	12:00:22pm	41.49492	-73.44174
327	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	12:02:32pm	41.49599	-73.44205
328	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	12:02:36pm	41.49605	-73.44203
329	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	12:10:37pm	41.49819	-73.44236
330	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	12:10:41pm	41.49812	-73.44237
331	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	12:11:10pm	41.49837	-73.44243
332	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	12:11:14pm	41.49846	-73.44239
333	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	12:11:17pm	41.49853	-73.44239
334	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	12:16:08pm	41.50231	-73.44269
335	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	12:17:46pm	41.49996	-73.44269
336	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	12:17:50pm	41.49987	-73.44263
337	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	12:23:54pm	41.51120	-73.44127
338	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	12:23:57pm	41.51125	-73.44126
339	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	12:24:00pm	41.51133	-73.44123
340	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	12:24:03pm	41.51140	-73.44121
341	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	12:24:06pm	41.51147	-73.44120
342	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	12:24:24pm	41.51144	-73.44106
343	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	12:24:27pm	41.51137	-73.44109
344	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	12:24:30pm	41.51131	-73.44112
345	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	12:25:10pm	41.51173	-73.44094
346	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	12:25:13pm	41.51180	-73.44099
347	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	12:25:15pm	41.51185	-73.44104
348	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	02:13:01pm	41.52163	-73.43783
349	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	02:13:04pm	41.52165	-73.43790
350	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	02:13:09pm	41.52171	-73.43794
351	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	02:13:13pm	41.52179	-73.43793
352	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	02:13:35pm	41.52181	-73.43802
353	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	02:13:38pm	41.52175	-73.43800
354	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	02:13:42pm	41.52166	-73.43801
355	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	02:50:01pm	41.51863	-73.43814
356	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	02:50:05pm	41.51856	-73.43818
357	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	02:53:35pm	41.51231	-73.44154

Appendix Lake Candlewood Eurasian watermilfoil to surface locations (8 of 15)

FID	Surveyor	Invasive Plant Name	Type	Notes	Date	Time	Latitude	Longitude
358	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	02:53:40pm	41.51227	-73.44141
359	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	02:53:43pm	41.51230	-73.44133
360	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	02:53:46pm	41.51237	-73.44130
361	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	02:53:50pm	41.51241	-73.44135
362	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	02:53:54pm	41.51239	-73.44146
363	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	02:54:01pm	41.51247	-73.44156
364	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	02:54:57pm	41.51328	-73.44091
365	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	02:55:00pm	41.51335	-73.44089
366	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	02:55:03pm	41.51341	-73.44083
367	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	02:55:06pm	41.51344	-73.44074
368	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	02:55:10pm	41.51346	-73.44062
369	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	02:55:13pm	41.51352	-73.44057
370	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	02:55:16pm	41.51357	-73.44060
371	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	02:55:20pm	41.51357	-73.44071
372	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	02:55:24pm	41.51352	-73.44077
373	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	02:55:29pm	41.51350	-73.44083
374	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	02:55:31pm	41.51348	-73.44088
375	Greg Bugbee	MyrSpi	Point	Depth = 1 meter	8/9/2017	02:55:59pm	41.51356	-73.44084
376	Greg Bugbee	MyrSpi	Point	Depth = 1 meter	8/9/2017	02:56:22pm	41.51357	-73.44091
377	Greg Bugbee	MyrSpi	Point	Depth = 1 meter	8/9/2017	02:57:08pm	41.51360	-73.44073
378	Greg Bugbee	MyrSpi	Point	Depth = 1 meter	8/9/2017	02:57:11pm	41.51362	-73.44070
379	Greg Bugbee	MyrSpi	Point	Depth = 1 meter	8/9/2017	02:57:14pm	41.51365	-73.44067
380	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/9/2017	02:57:59pm	41.51355	-73.44043
381	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/9/2017	02:58:05pm	41.51363	-73.44043
382	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/9/2017	02:58:21pm	41.51365	-73.44042
383	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/9/2017	02:58:24pm	41.51368	-73.44037
384	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/9/2017	02:58:27pm	41.51369	-73.44029
385	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/9/2017	02:58:29pm	41.51370	-73.44023
386	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/9/2017	02:58:32pm	41.51369	-73.44016
387	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/9/2017	02:58:34pm	41.51369	-73.44010
388	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/9/2017	02:58:42pm	41.51368	-73.43988
389	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/9/2017	02:58:48pm	41.51366	-73.43978
390	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/9/2017	02:58:53pm	41.51367	-73.43966
391	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/9/2017	02:59:07pm	41.51368	-73.43969
392	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/9/2017	02:59:24pm	41.51369	-73.43973
393	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	03:29:09pm	41.50358	-73.43776
394	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	03:29:23pm	41.50369	-73.43775
395	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	03:29:29pm	41.50377	-73.43772
396	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/9/2017	03:29:34pm	41.50383	-73.43768
397	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/9/2017	03:29:47pm	41.50400	-73.43763
398	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/9/2017	03:29:50pm	41.50406	-73.43761
399	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/9/2017	03:29:58pm	41.50424	-73.43762
400	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/9/2017	03:30:02pm	41.50434	-73.43762
401	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/9/2017	03:30:05pm	41.50441	-73.43763
402	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/9/2017	03:30:08pm	41.50448	-73.43763
403	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/9/2017	03:30:10pm	41.50452	-73.43764
404	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	03:31:53pm	41.50359	-73.43779
405	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	03:32:00pm	41.50352	-73.43783
406	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	03:32:03pm	41.50346	-73.43787
407	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	03:32:10pm	41.50332	-73.43790
408	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	03:32:13pm	41.50326	-73.43792

Appendix Lake Candlewood Eurasian watermilfoil to surface locations (9 of 15)

FID	Surveyor	Invasive Plant Name	Type	Notes	Date	Time	Latitude	Longitude
409	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	03:32:15pm	41.50322	-73.43793
410	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	03:32:18pm	41.50315	-73.43796
411	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	03:32:22pm	41.50308	-73.43797
412	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	03:32:27pm	41.50299	-73.43801
413	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	03:32:31pm	41.50294	-73.43807
414	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	03:32:34pm	41.50292	-73.43814
415	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	03:32:50pm	41.50275	-73.43843
416	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	03:32:53pm	41.50274	-73.43850
417	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	03:32:56pm	41.50274	-73.43858
418	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	03:32:59pm	41.50275	-73.43867
419	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	03:33:02pm	41.50276	-73.43874
420	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	03:33:05pm	41.50276	-73.43880
421	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	03:33:08pm	41.50276	-73.43888
422	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	03:33:11pm	41.50278	-73.43895
423	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	03:33:13pm	41.50279	-73.43900
424	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	03:33:16pm	41.50281	-73.43905
425	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	03:33:19pm	41.50283	-73.43910
426	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	03:33:28pm	41.50285	-73.43931
427	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	03:33:31pm	41.50285	-73.43938
428	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	03:33:34pm	41.50285	-73.43947
429	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	03:33:45pm	41.50283	-73.43977
430	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	03:33:50pm	41.50282	-73.43983
431	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/9/2017	03:33:53pm	41.50281	-73.43987
432	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/9/2017	03:39:05pm	41.50278	-73.43908
433	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/9/2017	03:39:12pm	41.50273	-73.43896
434	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/9/2017	03:39:16pm	41.50271	-73.43887
435	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/9/2017	03:39:19pm	41.50271	-73.43880
436	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/9/2017	03:39:21pm	41.50270	-73.43874
437	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/9/2017	03:39:24pm	41.50269	-73.43867
438	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/10/2017	10:48:03am	41.51871	-73.43714
439	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/10/2017	10:48:44am	41.51854	-73.43680
440	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/10/2017	10:48:50am	41.51848	-73.43681
441	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/10/2017	10:49:14am	41.51855	-73.43652
442	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/10/2017	10:49:18am	41.51856	-73.43643
443	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/10/2017	10:50:10am	41.51918	-73.43576
444	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/10/2017	10:50:28am	41.51915	-73.43560
445	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/10/2017	10:50:36am	41.51914	-73.43555
446	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/10/2017	10:50:54am	41.51916	-73.43553
447	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/10/2017	10:51:01am	41.51917	-73.43544
448	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/10/2017	10:52:11am	41.51930	-73.43531
449	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/10/2017	10:52:15am	41.51926	-73.43530
450	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/10/2017	10:52:20am	41.51921	-73.43527
451	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/10/2017	10:52:44am	41.51929	-73.43521
452	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/10/2017	10:58:27am	41.52230	-73.43565
453	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/10/2017	10:58:32am	41.52234	-73.43565
454	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/10/2017	10:58:39am	41.52239	-73.43565
455	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/10/2017	10:58:56am	41.52236	-73.43568
456	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/10/2017	10:58:59am	41.52235	-73.43572
457	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/10/2017	10:59:03am	41.52231	-73.43577
458	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/10/2017	10:59:07am	41.52224	-73.43578
459	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/10/2017	11:01:14am	41.52278	-73.43622

Appendix Lake Candlewood Eurasian watermilfoil to surface locations (10 of 15)

FID	Surveyor	Invasive Plant Name	Type	Notes	Date	Time	Latitude	Longitude
460	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/10/2017	11:01:17am	41.52281	-73.43620
461	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/10/2017	11:01:20am	41.52284	-73.43618
462	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/10/2017	12:45:47pm	41.53294	-73.43884
463	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/10/2017	12:48:04pm	41.53314	-73.43895
464	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/10/2017	12:48:14pm	41.53314	-73.43877
465	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/10/2017	12:48:39pm	41.53326	-73.43863
466	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/10/2017	12:48:59pm	41.53326	-73.43868
467	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/10/2017	12:51:25pm	41.53345	-73.43875
468	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/10/2017	12:51:41pm	41.53345	-73.43871
469	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/10/2017	12:51:48pm	41.53349	-73.43873
470	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/10/2017	12:51:56pm	41.53350	-73.43872
471	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/10/2017	12:52:14pm	41.53359	-73.43873
472	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/10/2017	12:52:16pm	41.53362	-73.43873
473	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/10/2017	12:52:20pm	41.53366	-73.43873
474	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/10/2017	12:54:53pm	41.53548	-73.43876
475	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/10/2017	12:54:59pm	41.53546	-73.43878
476	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	12:42:29pm	41.51147	-73.44504
477	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	12:42:37pm	41.51136	-73.44506
478	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	12:42:41pm	41.51127	-73.44511
479	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	12:42:44pm	41.51121	-73.44513
480	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	12:42:47pm	41.51115	-73.44519
481	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:03:38pm	41.50444	-73.44248
482	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:03:41pm	41.50437	-73.44248
483	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:03:44pm	41.50430	-73.44251
484	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:03:46pm	41.50424	-73.44254
485	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:03:49pm	41.50419	-73.44255
486	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:03:52pm	41.50412	-73.44254
487	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:03:55pm	41.50405	-73.44253
488	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:03:57pm	41.50399	-73.44253
489	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:04:00pm	41.50393	-73.44254
490	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:04:03pm	41.50386	-73.44256
491	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:04:28pm	41.50390	-73.44253
492	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:04:34pm	41.50386	-73.44251
493	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:04:37pm	41.50383	-73.44252
494	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:04:58pm	41.50394	-73.44251
495	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:05:11pm	41.50412	-73.44245
496	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:05:14pm	41.50418	-73.44244
497	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:05:17pm	41.50425	-73.44242
498	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:05:21pm	41.50432	-73.44240
499	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:05:23pm	41.50437	-73.44239
500	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:05:26pm	41.50443	-73.44237
501	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:05:47pm	41.50452	-73.44200
502	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:05:49pm	41.50448	-73.44201
503	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:05:53pm	41.50441	-73.44201
504	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:05:56pm	41.50438	-73.44196
505	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:05:59pm	41.50436	-73.44190
506	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:06:01pm	41.50433	-73.44186
507	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:06:04pm	41.50428	-73.44182
508	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:06:06pm	41.50425	-73.44178
509	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:06:08pm	41.50422	-73.44174
510	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:06:10pm	41.50420	-73.44170



Appendix Lake Candlewood Eurasian watermilfoil to surface locations (11 of 15)

FID	Surveyor	Invasive Plant Name	Type	Notes	Date	Time	Latitude	Longitude
511	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:06:13pm	41.50416	-73.44164
512	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:06:15pm	41.50414	-73.44160
513	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:06:26pm	41.50406	-73.44134
514	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:06:28pm	41.50402	-73.44135
515	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:06:31pm	41.50400	-73.44132
516	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:06:34pm	41.50397	-73.44138
517	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:06:38pm	41.50396	-73.44139
518	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:06:47pm	41.50391	-73.44131
519	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:06:52pm	41.50385	-73.44126
520	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:06:54pm	41.50383	-73.44123
521	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:06:57pm	41.50380	-73.44116
522	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:07:00pm	41.50376	-73.44110
523	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:07:02pm	41.50374	-73.44106
524	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:07:04pm	41.50372	-73.44103
525	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:07:07pm	41.50369	-73.44097
526	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:07:10pm	41.50365	-73.44092
527	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:07:17pm	41.50356	-73.44079
528	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:07:20pm	41.50354	-73.44073
529	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:07:25pm	41.50348	-73.44063
530	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:07:47pm	41.50335	-73.44049
531	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:07:51pm	41.50331	-73.44048
532	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:08:08pm	41.50330	-73.44040
533	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:08:14pm	41.50327	-73.44026
534	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:08:17pm	41.50323	-73.44024
535	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:08:22pm	41.50314	-73.44025
536	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:08:51pm	41.50292	-73.43960
537	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:08:55pm	41.50284	-73.43957
538	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:09:00pm	41.50280	-73.43944
539	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:09:10pm	41.50286	-73.43917
540	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:19:08pm	41.50427	-73.44164
541	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:19:17pm	41.50440	-73.44171
542	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:19:20pm	41.50446	-73.44169
543	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:19:24pm	41.50454	-73.44169
544	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:19:27pm	41.50459	-73.44171
545	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:19:30pm	41.50465	-73.44174
546	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:19:33pm	41.50470	-73.44179
547	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:19:38pm	41.50479	-73.44182
548	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:19:42pm	41.50485	-73.44177
549	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:19:46pm	41.50490	-73.44171
550	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:19:50pm	41.50496	-73.44168
551	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:19:53pm	41.50502	-73.44168
552	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:30:07pm	41.50178	-73.44495
553	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	01:30:10pm	41.50171	-73.44496
554	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	02:04:33pm	41.49109	-73.45398
555	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	02:04:56pm	41.49160	-73.45450
556	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	02:04:58pm	41.49163	-73.45457
557	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	02:50:37pm	41.48744	-73.46221
558	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	02:50:49pm	41.48741	-73.46186
559	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	02:50:52pm	41.48742	-73.46176
560	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	02:51:06pm	41.48732	-73.46130
561	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	02:51:09pm	41.48731	-73.46122

Appendix Lake Candlewood Eurasian watermilfoil to surface locations (12 of 15)

FID	Surveyor	Invasive Plant Name	Type	Notes	Date	Time	Latitude	Longitude
562	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	02:51:12pm	41.48732	-73.46112
563	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	02:51:36pm	41.48712	-73.46039
564	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	02:51:38pm	41.48709	-73.46035
565	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	02:53:01pm	41.48619	-73.45964
566	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	02:53:04pm	41.48616	-73.45971
567	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	02:53:07pm	41.48616	-73.45979
568	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	02:53:10pm	41.48619	-73.45986
569	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	02:53:12pm	41.48622	-73.45991
570	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	02:53:15pm	41.48627	-73.45995
571	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	02:53:17pm	41.48632	-73.46000
572	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	02:53:20pm	41.48636	-73.46005
573	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	02:53:23pm	41.48640	-73.46013
574	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	02:53:31pm	41.48630	-73.46015
575	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	02:53:36pm	41.48625	-73.46007
576	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	02:53:39pm	41.48619	-73.46000
577	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	02:53:44pm	41.48611	-73.45991
578	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	02:53:47pm	41.48605	-73.45986
579	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/11/2017	02:53:50pm	41.48601	-73.45980
580	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/11/2017	02:54:19pm	41.48617	-73.46017
581	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/11/2017	02:54:30pm	41.48623	-73.46023
582	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/11/2017	02:54:32pm	41.48626	-73.46025
583	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/11/2017	02:54:37pm	41.48632	-73.46028
584	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/11/2017	02:54:50pm	41.48646	-73.46040
585	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/11/2017	02:54:56pm	41.48646	-73.46045
586	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/11/2017	02:55:30pm	41.48663	-73.46041
587	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/11/2017	02:55:36pm	41.48663	-73.46042
588	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/11/2017	02:56:41pm	41.48566	-73.45935
589	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/11/2017	02:56:45pm	41.48563	-73.45928
590	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/11/2017	02:56:49pm	41.48563	-73.45923
591	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/11/2017	02:57:02pm	41.48564	-73.45933
592	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/11/2017	02:57:31pm	41.48572	-73.45921
593	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/11/2017	02:57:59pm	41.48607	-73.45925
594	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/11/2017	02:58:04pm	41.48613	-73.45922
595	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/11/2017	02:58:07pm	41.48616	-73.45921
596	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/11/2017	02:58:14pm	41.48627	-73.45919
597	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/11/2017	02:58:18pm	41.48635	-73.45918
598	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/11/2017	02:58:21pm	41.48642	-73.45918
599	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/11/2017	02:58:25pm	41.48649	-73.45918
600	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/11/2017	02:58:28pm	41.48655	-73.45918
601	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/11/2017	02:58:32pm	41.48663	-73.45922
602	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/11/2017	02:58:46pm	41.48679	-73.45921
603	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/11/2017	02:59:05pm	41.48651	-73.45927
604	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/11/2017	02:59:12pm	41.48633	-73.45932
605	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/11/2017	02:59:21pm	41.48621	-73.45933
606	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/11/2017	02:59:25pm	41.48615	-73.45937
607	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/11/2017	02:59:30pm	41.48612	-73.45945
608	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/11/2017	02:59:34pm	41.48615	-73.45952
609	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/11/2017	02:59:40pm	41.48622	-73.45951
610	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/11/2017	02:59:44pm	41.48627	-73.45944
611	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/11/2017	03:00:07pm	41.48640	-73.45907
612	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/11/2017	03:00:28pm	41.48654	-73.45909

Appendix Lake Candlewood Eurasian watermilfoil to surface locations (13 of 15)

FID	Surveyor	Invasive Plant Name	Type	Notes	Date	Time	Latitude	Longitude
613	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/14/2017	11:00:18am	41.49780	-73.46813
614	Greg Bugbee	MyrSpi	Point	Depth = 2-4 meters	8/14/2017	11:00:37am	41.49775	-73.46813
615	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	11:01:09am	41.49741	-73.46813
616	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	11:02:09am	41.49664	-73.46795
617	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	11:02:26am	41.49664	-73.46793
618	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	11:02:41am	41.49666	-73.46795
619	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	11:03:26am	41.49648	-73.46786
620	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	11:03:47am	41.49642	-73.46782
621	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	11:06:03am	41.49828	-73.46814
622	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	11:06:15am	41.49829	-73.46818
623	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	11:06:37am	41.49837	-73.46817
624	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/14/2017	11:06:46am	41.49840	-73.46812
625	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/14/2017	11:07:19am	41.49868	-73.46818
626	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/14/2017	11:07:48am	41.49877	-73.46817
627	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/14/2017	11:07:51am	41.49880	-73.46819
628	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/14/2017	11:07:55am	41.49887	-73.46825
629	Greg Bugbee	MyrSpi	Point	Depth = 1-3 meters	8/14/2017	11:08:00am	41.49897	-73.46830
630	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	11:08:07am	41.49908	-73.46834
631	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	11:08:17am	41.49913	-73.46836
632	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	11:08:26am	41.49919	-73.46839
633	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	11:08:30am	41.49924	-73.46839
634	Greg Bugbee	MyrSpi	Point	Depth = 1 meter=2	8/14/2017	11:09:20am	41.49977	-73.46850
635	Greg Bugbee	MyrSpi	Point	Depth = 1 meter=2	8/14/2017	11:09:57am	41.49983	-73.46856
636	Greg Bugbee	MyrSpi	Point	Depth = 1 meter=2	8/14/2017	11:10:25am	41.49996	-73.46868
637	Greg Bugbee	MyrSpi	Point	Depth = 1 meter=2	8/14/2017	11:10:29am	41.49996	-73.46868
638	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	11:10:32am	41.49992	-73.46865
639	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	11:11:41am	41.49992	-73.46903
640	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/14/2017	11:12:19am	41.50025	-73.46901
641	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/14/2017	11:12:45am	41.50033	-73.46916
642	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/14/2017	11:13:00am	41.50051	-73.46927
643	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/14/2017	11:13:10am	41.50046	-73.46932
644	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/14/2017	11:13:14am	41.50041	-73.46934
645	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/14/2017	11:13:18am	41.50036	-73.46935
646	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/14/2017	11:13:25am	41.50026	-73.46928
647	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/14/2017	11:13:36am	41.50009	-73.46929
648	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/14/2017	11:13:40am	41.50006	-73.46929
649	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/14/2017	11:13:46am	41.49995	-73.46926
650	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/14/2017	11:14:00am	41.49985	-73.46928
651	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/14/2017	11:14:24am	41.49972	-73.46924
652	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/14/2017	11:14:38am	41.49962	-73.46924
653	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/14/2017	11:14:41am	41.49958	-73.46924
654	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/14/2017	11:14:44am	41.49954	-73.46923
655	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	11:43:44am	41.49568	-73.46666
656	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	11:44:45am	41.49563	-73.46628
657	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	11:44:52am	41.49571	-73.46620
658	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	11:44:58am	41.49572	-73.46610
659	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	11:45:09am	41.49571	-73.46592
660	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	11:45:15am	41.49572	-73.46582
661	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	11:45:28am	41.49580	-73.46578
662	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/14/2017	11:45:53am	41.49586	-73.46573
663	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	12:03:43pm	41.49582	-73.46519

Appendix Lake Candlewood Eurasian watermilfoil to surface locations (14 of 15)

FID	Surveyor	Invasive Plant Name	Type	Notes	Date	Time	Latitude	Longitude
664	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	12:03:49pm	41.49589	-73.46523
665	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/14/2017	12:04:09pm	41.49604	-73.46525
666	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/14/2017	12:04:31pm	41.49606	-73.46523
667	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/14/2017	12:04:49pm	41.49602	-73.46527
668	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/14/2017	12:05:52pm	41.49599	-73.46514
669	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/14/2017	12:07:43pm	41.49597	-73.46499
670	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	12:07:51pm	41.49594	-73.46495
671	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	12:07:59pm	41.49592	-73.46492
672	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	12:08:05pm	41.49591	-73.46490
673	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	12:08:30pm	41.49589	-73.46492
674	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	01:10:37pm	41.50705	-73.46791
675	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	01:10:46pm	41.50705	-73.46788
676	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	01:11:33pm	41.50724	-73.46804
677	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	01:12:13pm	41.50778	-73.46826
678	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	01:12:17pm	41.50778	-73.46833
679	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/14/2017	01:12:20pm	41.50778	-73.46838
680	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	01:13:26pm	41.50828	-73.46887
681	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	01:13:30pm	41.50828	-73.46893
682	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	01:13:45pm	41.50840	-73.46906
683	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	01:13:48pm	41.50844	-73.46909
684	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	01:13:51pm	41.50847	-73.46912
685	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	01:13:57pm	41.50852	-73.46918
686	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/14/2017	01:14:07pm	41.50869	-73.46930
687	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/14/2017	01:14:16pm	41.50878	-73.46931
688	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/14/2017	01:14:27pm	41.50895	-73.46940
689	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/14/2017	01:14:31pm	41.50900	-73.46940
690	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/14/2017	01:15:14pm	41.50852	-73.46927
691	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/14/2017	01:15:41pm	41.50847	-73.46920
692	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/14/2017	01:15:48pm	41.50843	-73.46916
693	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/14/2017	01:16:00pm	41.50835	-73.46909
694	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/14/2017	01:16:08pm	41.50829	-73.46903
695	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/14/2017	01:16:22pm	41.50824	-73.46896
696	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	01:18:41pm	41.51015	-73.47072
697	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	01:18:51pm	41.51023	-73.47079
698	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/14/2017	01:19:32pm	41.51061	-73.46990
699	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/14/2017	01:19:43pm	41.51054	-73.46984
700	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/14/2017	01:20:21pm	41.51068	-73.46990
701	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/14/2017	01:21:00pm	41.51034	-73.46947
702	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	01:21:33pm	41.50988	-73.46888
703	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	01:22:43pm	41.50874	-73.46705
704	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	01:23:01pm	41.50863	-73.46685
705	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	01:23:04pm	41.50862	-73.46679
706	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/14/2017	01:23:10pm	41.50861	-73.46670
707	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/14/2017	01:23:42pm	41.50858	-73.46650
708	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/14/2017	01:23:54pm	41.50858	-73.46644
709	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/14/2017	01:24:25pm	41.50850	-73.46638
710	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/14/2017	01:24:56pm	41.50841	-73.46639
711	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	01:25:26pm	41.50818	-73.46637
712	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	01:25:57pm	41.50795	-73.46618
713	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	01:26:00pm	41.50796	-73.46612
714	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/14/2017	01:26:02pm	41.50799	-73.46605

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

<b>FID</b>	<b>Surveyor</b>	<b>Invasive Plant Name</b>	<b>Type</b>	<b>Notes</b>	<b>Date</b>	<b>Time</b>	<b>Latitude</b>	<b>Longitude</b>
715	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/14/2017	01:26:45pm	41.50776	-73.46590
716	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	01:27:36pm	41.50717	-73.46541
717	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	03:36:29pm	41.52245	-73.45974
718	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	03:36:55pm	41.52252	-73.45983
719	Greg Bugbee	MyrSpi	Point	Depth = 1-2 meters	8/14/2017	03:37:03pm	41.52262	-73.45979
720	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	03:37:28pm	41.52269	-73.46003
721	Greg Bugbee	MyrSpi	Point	Depth = 2-3 meters	8/14/2017	03:37:35pm	41.52270	-73.46014
722	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/1/2017	11:55:01am	41.46270	-73.44536
723	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/1/2017	11:55:32am	41.46308	-73.44541
724	Greg Bugbee	MyrSpi	Point	Depth = 0-1 meters	8/1/2017	11:55:37am	41.46313	-73.44545

Appendix Squantz Pond Invasive Plant Location data (1 of 2)

FID	Invasive Plant Name	Notes	Type	Date	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
1	MyrSpi	With NajMin=2	Patch	7/26/2017	41.52254	-73.48063	1-3	2	0.3180
2	NajMin		Patch	7/26/2017	41.52255	-73.48056	0-1	2	0.1227
3	MyrSpi		Patch	7/26/2017	41.52315	-73.48115	1-3	3	0.0650
4	NajMin		Patch	7/26/2017	41.52322	-73.48109	0-1	2	0.0209
5	MyrSpi		Point	7/26/2017	41.52380	-73.48161	1-3	3	0.0002
6	MyrSpi		Point	7/26/2017	41.52417	-73.48176	1-3	2	0.0002
7	MyrSpi	With NajMin=2	Patch	7/26/2017	41.52588	-73.48240	1-3	3	1.8949
8	NajMin		Patch	7/26/2017	41.52581	-73.48226	0-1	2	0.6813
9	MyrSpi		Point	7/26/2017	41.52658	-73.48615	1-3	2	0.0002
10	MyrSpi		Patch	7/26/2017	41.52516	-73.48573	1-3	3	0.2071
11	MyrSpi		Point	7/26/2017	41.52422	-73.48544	1-3	3	0.0002
12	MyrSpi		Point	7/26/2017	41.52021	-73.48468	1-3	3	0.0002
13	MyrSpi		Point	7/26/2017	41.52016	-73.48484	1-3	3	0.0002
14	MyrSpi		Point	7/26/2017	41.52010	-73.48482	1-3	3	0.0002
15	MyrSpi		Point	7/26/2017	41.51947	-73.48437	1-3	3	0.0002
16	MyrSpi		Patch	7/26/2017	41.51683	-73.48296	1-3	2	0.1132
17	MyrSpi		Patch	7/26/2017	41.51191	-73.47170	1-3	3	0.6846
18	MyrSpi		Point	7/26/2017	41.51254	-73.47277	1-3	3	0.0002
19	MyrSpi		Patch	7/26/2017	41.51374	-73.47367	1-3	2	0.1342
20	MyrSpi		Point	7/26/2017	41.51407	-73.47373	1-3	2	0.0002
21	MyrSpi		Patch	7/26/2017	41.51450	-73.47400	1-3	3	0.3948
22	MyrSpi		Patch	7/26/2017	41.51633	-73.47605	1-3	3	3.0993
23	NajMin		Patch	7/26/2017	41.51675	-73.47633	0-1	3	0.2102
24	MyrSpi		Point	7/26/2017	41.51806	-73.47766	1-3	5	0.0002
25	MyrSpi		Patch	7/26/2017	41.51912	-73.47838	1-3	3	0.7213
26	MyrSpi	With NajMin=2	Patch	7/26/2017	41.52046	-73.47927	1-3	2	0.1264
27	NajMin		Patch	7/26/2017	41.52048	-73.47922	0-1	2	0.0536
28	MyrSpi		Patch	7/26/2017	41.52140	-73.47979	1-3	3	0.4706
29	NajMin		Patch	7/26/2017	41.52135	-73.47970	0-1	2	0.1386
30	MyrSpi	With NajMin=2	Patch	7/27/2017	41.52982	-73.48315	1-3	3	4.4432
31	NajMin		Patch	7/27/2017	41.52972	-73.48288	0-1	2	1.2555
32	MyrSpi	With NajMin=2	Patch	7/27/2017	41.53900	-73.48340	0-2	1	2.3357
33	NajMin		Patch	7/27/2017	41.53931	-73.48343	0-1	2	1.4222
34	MyrSpi		Point	7/27/2017	41.51590	-73.48239	1-3	3	0.0002
35	NajMin	With NajMin=2	Patch	7/27/2017	41.51113	-73.47808	0-1	2	0.2095
36	MyrSpi		Patch	7/27/2017	41.51174	-73.47758	1-4	3	3.1322
37	MyrSpi	With NajMin=2	Patch	7/28/2017	41.51058	-73.47238	1-3	2	2.4535
38	NajMin		Patch	7/28/2017	41.51064	-73.47268	0-1	2	0.9635
39	MyrSpi		Patch	7/28/2017	41.53359	-73.48332	1-4	2	5.5317
40	NajMin		Patch	7/28/2017	41.53453	-73.48314	0-1	2	0.7944
41	MyrSpi		Patch	7/28/2017	41.52777	-73.48587	1-4	3	0.4293
42	MyrSpi		Point	7/28/2017	41.52825	-73.48526	1-3	2	0.0002
43	MyrSpi		Point	7/28/2017	41.52829	-73.48524	1-3	2	0.0002
44	MyrSpi		Point	7/28/2017	41.52850	-73.48517	1-3	2	0.0002
45	MyrSpi		Point	7/28/2017	41.52852	-73.48516	1-3	3	0.0002
46	MyrSpi		Point	7/28/2017	41.52856	-73.48516	1-3	3	0.0002
47	MyrSpi		Point	7/28/2017	41.52877	-73.48496	1-3	2	0.0002
48	MyrSpi		Patch	7/28/2017	41.53084	-73.48504	1-4	3	3.0373
49	NajMin		Patch	8/1/2017	41.52355	-73.48141	1-4	2	0.0395
50	MyrSpi		Patch	8/1/2017	41.52350	-73.48162	1-4	3	0.2249
51	MyrSpi		Patch	8/1/2017	41.53527	-73.48450	1-3	2	1.9340
52	NajMin		Point	8/1/2017	41.53649	-73.48436	0-1	2	0.0002
53	NajMin		Point	8/1/2017	41.53630	-73.48459	0-1	2	0.0002

Appendix Squantz Pond Invasive Plant Location data (2 of 2)

FID	Invasive Plant Name	Notes	Type	Date	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
54	NajMin		Point	8/1/2017	41.53645	-73.48449	0-1	2	0.0002
55	NajMin		Point	8/1/2017	41.53612	-73.48457	0-1	2	0.0002

Appendix Lake Lillionah Invasive Plant Location data (1 of 9)

FID	Invasive Plant Name	Notes	Type	Date	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
1	PotCri		Point	6/1/2017	41.44475	-73.30389	1-3	1	0.0002
2	PotCri		Point	6/1/2017	41.44464	-73.30376	1-3	2	0.0002
3	PotCri		Patch	6/2/2017	41.54043	-73.40260	1-3	2	0.4244
4	PotCri		Patch	6/2/2017	41.49043	-73.38383	1-3	2	0.0483
5	PotCri		Patch	6/2/2017	41.48987	-73.38387	1-3	2	1.3082
6	PotCri		Point	6/2/2017	41.49032	-73.38342	1-3	2	0.0002
7	PotCri		Point	6/2/2017	41.49083	-73.38147	1-3	2	0.0002
8	PotCri		Patch	6/2/2017	41.49062	-73.38144	1-3	2	0.0734
9	MyrSpi		Patch	8/4/2017	41.48901	-73.37661	1-3	1	0.2239
10	MyrSpi		Patch	8/4/2017	41.48685	-73.37234	1-3	2	0.0855
11	MyrSpi		Patch	8/4/2017	41.48662	-73.37148	1-3	4	0.2697
12	MyrSpi	With NajMin=3, algae	Patch	8/4/2017	41.48664	-73.36931	1-3	4	0.7019
13	NajMin		Patch	8/4/2017	41.48658	-73.36936	0-1	3	0.2422
14	MyrSpi		Patch	8/4/2017	41.48020	-73.34929	1-3	2	0.0527
15	MyrSpi		Point	8/4/2017	41.48033	-73.34996	1-3	3	0.0002
16	MyrSpi		Point	8/4/2017	41.48038	-73.35012	1-3	3	0.0002
17	MyrSpi		Point	8/4/2017	41.48056	-73.35105	1-3	1	0.0002
18	MyrSpi		Point	8/4/2017	41.48073	-73.35199	1-3	1	0.0002
19	MyrSpi		Point	8/4/2017	41.48078	-73.35215	1-3	1	0.0002
20	MyrSpi		Point	8/4/2017	41.48159	-73.35524	1-3	1	0.0002
21	MyrSpi		Point	8/4/2017	41.48210	-73.35655	1-3	1	0.0002
22	MyrSpi		Point	8/4/2017	41.48212	-73.35661	1-3	3	0.0002
23	MyrSpi		Point	8/4/2017	41.48220	-73.35671	1-3	2	0.0002
24	MyrSpi		Point	8/4/2017	41.48224	-73.35677	1-3	2	0.0002
25	MyrSpi		Point	8/4/2017	41.48231	-73.35702	1-3	3	0.0002
26	MyrSpi		Patch	8/4/2017	41.48242	-73.35725	1-3	3	0.0651
27	MyrSpi		Point	8/4/2017	41.48261	-73.35796	1-3	2	0.0002
28	MyrSpi		Point	8/4/2017	41.48267	-73.35804	1-3	2	0.0002
29	MyrSpi		Point	8/4/2017	41.48276	-73.35832	1-3	3	0.0002
30	MyrSpi	With NajMin=3	Patch	8/4/2017	41.48354	-73.35944	1-3	5	2.4007
31	NajMin		Patch	8/4/2017	41.48382	-73.35959	0-1	3	0.2973
32	MyrSpi	With NajMin=3	Patch	8/4/2017	41.48828	-73.36646	1-3	5	0.8591
33	NajMin		Patch	8/4/2017	41.48851	-73.36641	0-1	3	0.0735
34	MyrSpi		Patch	8/4/2017	41.48801	-73.36585	1-3	2	0.0507
35	MyrSpi		Patch	8/4/2017	41.48837	-73.36767	1-3	1	0.1791
36	MyrSpi		Point	8/4/2017	41.48870	-73.36858	1-3	3	0.0002
37	MyrSpi		Point	8/4/2017	41.48927	-73.36947	1-3	1	0.0002
38	MyrSpi		Patch	8/4/2017	41.48948	-73.36967	1-3	2	0.0653
39	MyrSpi	With NajMin=2	Patch	8/4/2017	41.49076	-73.37256	1-3	4	1.7349
40	NajMin		Patch	8/4/2017	41.49093	-73.37275	0-1	2	0.5757
41	MyrSpi	With NajMin=2	Patch	8/4/2017	41.49215	-73.37504	1-3	2	0.2004
42	NajMin		Patch	8/4/2017	41.49240	-73.37501	0-1	2	0.1342
43	MyrSpi	With NajMin=2	Patch	8/4/2017	41.49283	-73.37507	1-3	5	0.0536
44	MyrSpi		Patch	8/4/2017	41.49357	-73.37498	1-3	4	0.0453
45	MyrSpi		Point	8/8/2017	41.50381	-73.37832	1-3	1	0.0002
46	MyrSpi		Point	8/8/2017	41.50396	-73.37874	1-3	4	0.0002
47	MyrSpi		Point	8/8/2017	41.50413	-73.37933	1-3	4	0.0002
48	MyrSpi		Patch	8/8/2017	41.50422	-73.37988	1-3	2	0.0727
49	MyrSpi		Patch	8/8/2017	41.50524	-73.38312	1-3	4	1.5161
50	MyrSpi	With NajMin=3	Patch	8/8/2017	41.50694	-73.38660	1-3	3	0.7602
51	NajMin		Patch	8/8/2017	41.50706	-73.38655	0-1	3	0.4452
52	MyrSpi		Point	8/8/2017	41.50865	-73.38725	1-3	1	0.0002
53	MyrSpi		Point	8/8/2017	41.51505	-73.38598	1-3	2	0.0002



Appendix Lake Lillionah Invasive Plant Location data (2 of 9)

FID	Invasive Plant Name	Notes	Type	Date	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
54	MyrSpi		Point	8/8/2017	41.51517	-73.38609	1-3	2	0.0002
55	MyrSpi		Patch	8/8/2017	41.51610	-73.38719	1-3	4	1.2610
56	MyrSpi		Patch	8/8/2017	41.51652	-73.38906	1-3	3	0.2914
57	MyrSpi	With NajMin=2	Patch	8/8/2017	41.49623	-73.37473	1-3	3	1.7284
58	NajMin		Patch	8/8/2017	41.49709	-73.37457	0-1	2	0.6762
59	MyrSpi	With NajMin=3	Patch	8/8/2017	41.49952	-73.37414	1-3	5	2.3269
60	NajMin		Patch	8/8/2017	41.49941	-73.37401	0-1	3	0.6629
61	MyrSpi		Point	8/8/2017	41.50152	-73.37516	1-3	4	0.0002
62	MyrSpi		Patch	8/8/2017	41.50253	-73.37500	1-3	4	1.1212
63	MyrSpi	With NajMin=2	Patch	8/8/2017	41.50268	-73.37631	1-3	2	0.2048
64	NajMin		Patch	8/8/2017	41.50274	-73.37632	0-1	2	0.0847
65	TraNat		Point	8/9/2017	41.53955	-73.40283	1-3	1	0.0002
66	PotCri		Point	8/9/2017	41.53987	-73.40279	1-3	2	0.0002
67	PotCri		Point	8/9/2017	41.53988	-73.40310	1-3	2	0.0002
68	TraNat		Point	8/9/2017	41.53985	-73.40330	1-3	2	0.0002
69	MyrSpi	With NajMin=4, algae	Patch	8/9/2017	41.54156	-73.40270	1-3	5	1.4688
70	NajMin		Patch	8/9/2017	41.54160	-73.40295	0-1	4	0.5763
71	TraNat		Point	8/9/2017	41.54144	-73.40380	1-3	3	0.0002
72	MyrSpi	With NajMin=2, algae	Patch	8/9/2017	41.53596	-73.40568	1-3	4	12.4707
73	NajMin		Patch	8/9/2017	41.53650	-73.40608	0-1	2	2.8001
74	MyrSpi		Patch	8/9/2017	41.53883	-73.40490	1-3	3	3.9177
75	PotCri		Point	8/9/2017	41.53932	-73.40468	1-3	1	0.0002
76	MyrSpi		Patch	8/9/2017	41.52051	-73.40094	1-3	4	0.2699
77	MyrSpi		Patch	8/9/2017	41.51874	-73.39426	1-3	3	0.2814
78	MyrSpi		Point	8/9/2017	41.51942	-73.39543	1-3	2	0.0002
79	MyrSpi	dense algae	Patch	8/9/2017	41.52184	-73.39842	1-3	5	12.3529
80	MyrSpi		Point	8/9/2017	41.52336	-73.39913	1-3	2	0.0002
81	MyrSpi		Point	8/9/2017	41.52324	-73.39907	1-3	2	0.0002
82	MyrSpi	dense algae	Patch	8/9/2017	41.52630	-73.40131	1-3	5	11.3011
83	NajMin		Patch	8/9/2017	41.52715	-73.40119	0-1	2	1.7065
84	MyrSpi		Patch	8/9/2017	41.52837	-73.40320	1-3	2	0.4158
85	MyrSpi	dense algae	Patch	8/9/2017	41.52933	-73.40366	1-3	5	1.5336
86	MyrSpi		Point	8/9/2017	41.53147	-73.40430	1-3	2	0.0002
87	MyrSpi		Point	8/9/2017	41.53186	-73.40433	1-3	2	0.0002
88	MyrSpi	With NajMin=3, algae	Patch	8/9/2017	41.53430	-73.40422	1-3	5	4.2820
89	NajMin		Patch	8/9/2017	41.53424	-73.40394	0-1	3	1.8366
90	MyrSpi		Point	8/9/2017	41.53740	-73.40366	1-3	4	0.0002
91	MyrSpi		Point	8/9/2017	41.53747	-73.40351	1-3	3	0.0002
92	MyrSpi		Point	8/9/2017	41.53762	-73.40343	1-3	4	0.0002
93	MyrSpi		Point	8/9/2017	41.53804	-73.40327	1-3	4	0.0002
94	MyrSpi	With NajMin=2, algae	Patch	8/9/2017	41.53885	-73.40303	1-3	4	0.2254
95	NajMin		Patch	8/9/2017	41.53879	-73.40297	0-1	2	0.0919
96	MyrSpi	With NajMin=4, algae	Patch	8/9/2017	41.54057	-73.40316	1-3	5	4.5880
97	NajMin		Patch	8/9/2017	41.54064	-73.40249	0-1	4	0.4665
98	MyrSpi		Point	8/10/2017	41.50324	-73.38323	1-3	2	0.0002
99	MyrSpi		Point	8/10/2017	41.50317	-73.38311	1-3	4	0.0002
100	MyrSpi	With NajMin=2	Patch	8/10/2017	41.50219	-73.38143	1-3	3	1.0283
101	NajMin		Patch	8/10/2017	41.50216	-73.38154	0-1	2	0.5363
102	MyrSpi	With NajMin=2	Patch	8/10/2017	41.50044	-73.37894	1-3	4	1.0739
103	NajMin		Patch	8/10/2017	41.50039	-73.37906	0-1	2	0.4040
104	MyrSpi	With NajMin=2	Patch	8/10/2017	41.49835	-73.37801	1-3	4	2.5129
105	NajMin		Patch	8/10/2017	41.49832	-73.37827	0-1	2	0.5237
106	MyrSpi		Point	8/10/2017	41.49675	-73.37845	1-3	2	0.0002

Appendix Lake Lillionah Invasive Plant Location data (3 of 9)

FID	Invasive Plant Name	Notes	Type	Date	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
107	MyrSpi		Patch	8/10/2017	41.49527	-73.37767	1-3	3	1.1524
108	MyrSpi	With NajMin=2	Patch	8/10/2017	41.49174	-73.38185	1-3	4	11.0831
109	NajMin		Patch	8/10/2017	41.49145	-73.38136	0-1	2	1.7253
110	NajMin		Patch	8/10/2017	41.49347	-73.38046	0-1	2	1.1693
111	MyrSpi		Patch	8/10/2017	41.49054	-73.38129	1-3	2	0.2241
112	MyrSpi		Patch	8/10/2017	41.51867	-73.39883	1-3	3	0.1138
113	MyrSpi	With NajMin=2, algae	Patch	8/10/2017	41.51796	-73.39749	1-3	4	0.5778
114	NajMin		Patch	8/10/2017	41.51793	-73.39763	0-1	2	0.1165
115	MyrSpi		Point	08/10/17	41.51791	-73.39676	1-3	2	0.0002
116	MyrSpi		Point	8/10/2017	41.51739	-73.39532	1-3	2	0.0002
117	MyrSpi		Point	8/10/2017	41.51629	-73.39281	1-3	3	0.0002
118	MyrSpi		Point	8/10/2017	41.51614	-73.39230	1-3	2	0.0002
119	MyrSpi		Point	8/10/2017	41.51610	-73.39218	1-3	2	0.0002
120	MyrSpi		Point	8/10/2017	41.51593	-73.39163	1-3	2	0.0002
121	MyrSpi		Patch	8/10/2017	41.51485	-73.38909	1-3	3	0.5776
122	MyrSpi		Patch	8/10/2017	41.51348	-73.38697	1-3	3	0.2445
123	MyrSpi		Patch	8/10/2017	41.51239	-73.38623	1-3	3	0.1654
124	MyrSpi		Patch	8/10/2017	41.51117	-73.38749	1-3	4	1.7003
125	MyrSpi		Point	8/10/2017	41.51020	-73.38938	1-3	2	0.0002
126	MyrSpi		Point	8/10/2017	41.51017	-73.38941	1-3	2	0.0002
127	MyrSpi		Point	8/10/2017	41.51010	-73.38944	1-3	2	0.0002
128	MyrSpi		Patch	8/10/2017	41.50944	-73.38955	1-3	4	0.0342
129	MyrSpi		Patch	8/10/2017	41.50901	-73.38968	1-3	2	0.0634
130	MyrSpi		Point	8/10/2017	41.50748	-73.38995	1-3	2	0.0002
131	MyrSpi		Point	8/10/2017	41.50698	-73.38983	1-3	2	0.0002
132	MyrSpi		Point	8/10/2017	41.50683	-73.38968	1-3	2	0.0002
133	MyrSpi		Point	8/10/2017	41.50417	-73.38559	1-3	4	0.0002
134	MyrSpi		Point	8/10/2017	41.50413	-73.38536	1-3	4	0.0002
135	MyrSpi		Point	8/10/2017	41.50409	-73.38522	1-3	4	0.0002
136	MyrSpi		Point	8/10/2017	41.50400	-73.38510	1-3	3	0.0002
137	MyrSpi		Point	8/10/2017	41.50393	-73.38492	1-3	3	0.0002
138	MyrSpi		Point	08/10/17	41.50390	-73.38471	1-3	3	0.0002
139	MyrSpi		Patch	8/11/2017	41.46791	-73.32502	1-3	4	1.2440
140	MyrSpi		Point	8/11/2017	41.46414	-73.32386	1-3	3	0.0002
141	MyrSpi		Patch	8/11/2017	41.46368	-73.32274	1-3	4	1.5841
142	MyrSpi		Point	8/11/2017	41.46477	-73.32302	1-3	1	0.0002
143	MyrSpi		Point	8/11/2017	41.46489	-73.32304	1-3	2	0.0002
144	MyrSpi		Point	8/11/2017	41.46495	-73.32309	1-3	1	0.0002
145	MyrSpi		Patch	8/11/2017	41.47019	-73.32426	1-3	3	0.7715
146	MyrSpi		Point	8/11/2017	41.48644	-73.36805	1-3	2	0.0002
147	MyrSpi		Point	8/11/2017	41.48639	-73.36781	1-3	2	0.0002
148	MyrSpi		Point	8/11/2017	41.48639	-73.36768	1-3	2	0.0002
149	MyrSpi		Point	8/11/2017	41.48579	-73.36581	1-3	2	0.0002
150	MyrSpi		Point	8/11/2017	41.48404	-73.36325	1-3	2	0.0002
151	MyrSpi		Point	8/11/2017	41.48391	-73.36306	1-3	2	0.0002
152	MyrSpi		Point	8/11/2017	41.48359	-73.36270	1-3	4	0.0002
153	MyrSpi		Point	8/11/2017	41.48310	-73.36184	1-3	2	0.0002
154	MyrSpi		Point	8/11/2017	41.48273	-73.36133	1-3	1	0.0002
155	MyrSpi		Point	8/11/2017	41.48240	-73.36117	1-3	3	0.0002
156	MyrSpi		Point	8/11/2017	41.48118	-73.35854	1-3	2	0.0002
157	MyrSpi		Point	8/11/2017	41.48087	-73.35715	1-3	3	0.0002
158	MyrSpi		Point	8/11/2017	41.48081	-73.35707	1-3	3	0.0002
159	MyrSpi		Point	8/11/2017	41.48077	-73.35693	1-3	1	0.0002

Appendix Lake Lillionah Invasive Plant Location data (4 of 9)

FID	Invasive Plant Name	Notes	Type	Date	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
160	MyrSpi		Point	8/11/2017	41.48067	-73.35663	1-3	2	0.0002
161	MyrSpi		Point	8/11/2017	41.48057	-73.35651	1-3	1	0.0002
162	MyrSpi		Point	8/11/2017	41.48040	-73.35589	1-3	1	0.0002
163	MyrSpi		Point	8/11/2017	41.48010	-73.35531	1-3	2	0.0002
164	MyrSpi		Point	8/11/2017	41.47998	-73.35505	1-3	2	0.0002
165	MyrSpi		Point	8/11/2017	41.47983	-73.35451	1-3	2	0.0002
166	MyrSpi		Patch	8/11/2017	41.47919	-73.35270	1-3	4	0.6968
167	MyrSpi		Point	8/11/2017	41.47855	-73.35062	1-3	1	0.0002
168	MyrSpi		Point	8/11/2017	41.47840	-73.35052	1-3	2	0.0002
169	MyrSpi		Patch	8/11/2017	41.47814	-73.34975	1-3	4	0.6027
170	MyrSpi		Patch	8/11/2017	41.47766	-73.34820	1-3	3	0.1849
171	MyrSpi		Patch	8/11/2017	41.47612	-73.34276	1-3	3	0.3782
172	MyrSpi		Patch	8/11/2017	41.47507	-73.33918	1-3	3	0.2750
173	MyrSpi		Patch	8/11/2017	41.47248	-73.33415	1-3	4	4.5489
174	MyrSpi		Point	8/11/2017	41.46988	-73.32977	1-3	2	0.0002
175	MyrSpi		Patch	8/11/2017	41.46948	-73.32848	1-3	3	0.5119
176	MyrSpi		Patch	08/11/17	41.46862	-73.32629	1-3	3	0.1398
177	MyrSpi		Point	8/14/2017	41.47618	-73.32052	1-3	3	0.0002
178	MyrSpi		Patch	8/14/2017	41.47662	-73.32118	1-3	4	0.4048
179	MyrSpi		Point	8/14/2017	41.47757	-73.32225	1-3	1	0.0002
180	MyrSpi		Point	8/14/2017	41.47804	-73.32257	1-3	1	0.0002
181	MyrSpi		Point	8/14/2017	41.47826	-73.32267	1-3	3	0.0002
182	MyrSpi		Point	8/14/2017	41.47972	-73.32347	1-3	5	0.0002
183	MyrSpi		Patch	8/14/2017	41.48038	-73.32388	1-3	3	0.4383
184	MyrSpi		Point	8/14/2017	41.48082	-73.32445	1-3	3	0.0002
185	MyrSpi		Point	8/14/2017	41.48103	-73.32482	1-3	3	0.0002
186	MyrSpi		Point	8/14/2017	41.48121	-73.32501	1-3	4	0.0002
187	MyrSpi		Point	8/14/2017	41.48144	-73.32506	1-3	4	0.0002
188	MyrSpi		Point	8/14/2017	41.48263	-73.32589	1-3	4	0.0002
189	MyrSpi		Point	8/14/2017	41.48283	-73.32597	1-3	3	0.0002
190	MyrSpi		Point	8/14/2017	41.48291	-73.32602	1-3	4	0.0002
191	MyrSpi		Point	8/14/2017	41.48305	-73.32596	1-3	5	0.0002
192	MyrSpi		Point	8/14/2017	41.48460	-73.32806	1-3	4	0.0002
193	MyrSpi		Point	8/14/2017	41.48480	-73.32815	1-3	4	0.0002
194	MyrSpi		Point	8/14/2017	41.48501	-73.32827	1-3	2	0.0002
195	MyrSpi		Patch	8/14/2017	41.48576	-73.32807	1-3	3	0.4286
196	MyrSpi		Point	8/14/2017	41.48739	-73.32699	1-3	3	0.0002
197	MyrSpi		Point	8/14/2017	41.48730	-73.32652	1-3	5	0.0002
198	MyrSpi		Patch	8/14/2017	41.48741	-73.32649	1-3	3	0.1033
199	MyrSpi		Point	8/14/2017	41.48783	-73.32625	1-3	2	0.0002
200	MyrSpi		Point	8/14/2017	41.48792	-73.32622	1-3	2	0.0002
201	MyrSpi		Point	8/14/2017	41.48912	-73.32576	1-3	3	0.0002
202	MyrSpi		Point	8/14/2017	41.48937	-73.32559	1-3	3	0.0002
203	MyrSpi		Point	8/14/2017	41.49018	-73.32538	1-3	3	0.0002
204	MyrSpi		Patch	8/14/2017	41.49117	-73.32611	1-3	3	0.1627
205	MyrSpi		Point	8/14/2017	41.49221	-73.32672	1-3	3	0.0002
206	MyrSpi		Patch	8/14/2017	41.49396	-73.32936	1-3	4	0.8062
207	MyrSpi		Point	8/14/2017	41.48062	-73.34859	1-3	4	0.0002
208	MyrSpi		Point	8/14/2017	41.48079	-73.34885	1-3	4	0.0002
209	MyrSpi		Point	8/14/2017	41.48086	-73.34894	1-3	3	0.0002
210	MyrSpi		Point	8/14/2017	41.48109	-73.34936	1-3	3	0.0002
211	MyrSpi		Point	8/14/2017	41.48113	-73.34944	1-3	3	0.0002
212	MyrSpi		Point	8/14/2017	41.48118	-73.34953	1-3	4	0.0002

Appendix Lake Lillionah Invasive Plant Location data (5 of 9)

FID	Invasive Plant Name	Notes	Type	Date	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
213	MyrSpi		Point	8/14/2017	41.48121	-73.34958	1-3	4	0.0002
214	MyrSpi		Point	8/14/2017	41.48125	-73.34967	1-3	4	0.0002
215	MyrSpi		Patch	8/14/2017	41.48201	-73.34978	1-3	5	2.2870
216	MyrSpi		Point	8/14/2017	41.48130	-73.34849	1-3	4	0.0002
217	MyrSpi		Point	8/14/2017	41.48129	-73.34845	1-3	2	0.0002
218	MyrSpi		Point	8/14/2017	41.48124	-73.34834	1-3	2	0.0002
219	MyrSpi		Point	8/14/2017	41.48116	-73.34824	1-3	4	0.0002
220	MyrSpi		Point	8/14/2017	41.48104	-73.34807	1-3	1	0.0002
221	MyrSpi		Point	8/14/2017	41.48102	-73.34799	1-3	3	0.0002
222	MyrSpi		Point	8/14/2017	41.48097	-73.34791	1-3	3	0.0002
223	MyrSpi		Point	8/14/2017	41.48094	-73.34786	1-3	3	0.0002
224	MyrSpi		Point	8/14/2017	41.48091	-73.34782	1-3	3	0.0002
225	MyrSpi		Point	8/14/2017	41.48088	-73.34778	1-3	3	0.0002
226	MyrSpi		Point	8/14/2017	41.48085	-73.34770	1-3	3	0.0002
227	MyrSpi		Point	8/14/2017	41.48078	-73.34759	1-3	3	0.0002
228	MyrSpi		Point	8/14/2017	41.48075	-73.34755	1-3	3	0.0002
229	MyrSpi		Point	8/14/2017	41.48067	-73.34738	1-3	3	0.0002
230	MyrSpi		Point	8/14/2017	41.48064	-73.34731	1-3	3	0.0002
231	MyrSpi		Point	8/14/2017	41.48062	-73.34726	1-3	3	0.0002
232	MyrSpi		Point	8/14/2017	41.48058	-73.34721	1-3	2	0.0002
233	MyrSpi		Patch	8/14/2017	41.48042	-73.34693	1-3	3	0.0499
234	MyrSpi		Point	8/14/2017	41.48010	-73.34646	1-3	3	0.0002
235	MyrSpi		Point	8/14/2017	41.48009	-73.34635	1-3	2	0.0002
236	MyrSpi		Point	8/14/2017	41.48006	-73.34628	1-3	3	0.0002
237	MyrSpi		Point	8/14/2017	41.47999	-73.34615	1-3	3	0.0002
238	MyrSpi		Patch	8/14/2017	41.47985	-73.34574	1-3	4	0.0902
239	MyrSpi		Patch	8/14/2017	41.47954	-73.34422	1-3	4	0.8629
240	MyrSpi		Point	8/14/2017	41.47905	-73.34277	1-3	3	0.0002
241	MyrSpi		Point	8/14/2017	41.47905	-73.34271	1-3	2	0.0002
242	MyrSpi		Point	8/14/2017	41.47903	-73.34261	1-3	2	0.0002
243	MyrSpi		Point	8/14/2017	41.47777	-73.33911	1-3	1	0.0002
244	MyrSpi		Point	8/14/2017	41.47774	-73.33883	1-3	3	0.0002
245	MyrSpi		Point	8/14/2017	41.47773	-73.33869	1-3	3	0.0002
246	MyrSpi		Patch	8/14/2017	41.47772	-73.33795	1-3	4	0.3766
247	MyrSpi		Point	8/14/2017	41.47740	-73.33755	1-3	2	0.0002
248	MyrSpi		Point	8/14/2017	41.47741	-73.33749	1-3	3	0.0002
249	MyrSpi		Point	8/14/2017	41.47736	-73.33749	1-3	3	0.0002
250	MyrSpi		Point	8/14/2017	41.47731	-73.33741	1-3	3	0.0002
251	MyrSpi		Point	8/14/2017	41.47711	-73.33722	1-3	3	0.0002
252	MyrSpi		Point	8/14/2017	41.47709	-73.33714	1-3	3	0.0002
253	MyrSpi		Patch	8/14/2017	41.47690	-73.33674	1-3	4	0.0694
254	MyrSpi		Point	8/14/2017	41.47150	-73.32799	1-3	1	0.0002
255	MyrSpi		Point	8/14/2017	41.47143	-73.32771	1-3	1	0.0002
256	MyrSpi		Point	8/14/2017	41.47137	-73.32745	1-3	1	0.0002
257	MyrSpi		Point	8/14/2017	41.47128	-73.32716	1-3	1	0.0002
258	MyrSpi		Point	8/14/2017	41.47123	-73.32705	1-3	1	0.0002
259	MyrSpi		Point	8/14/2017	41.47117	-73.32688	1-3	3	0.0002
260	MyrSpi		Point	8/14/2017	41.47112	-73.32663	1-3	3	0.0002
261	MyrSpi		Point	8/14/2017	41.47101	-73.32645	1-3	1	0.0002
262	MyrSpi		Point	8/14/2017	41.47094	-73.32621	1-3	3	0.0002
263	MyrSpi		Point	8/14/2017	41.47076	-73.32566	1-3	2	0.0002
264	MyrSpi		Patch	8/14/2017	41.46982	-73.32222	1-3	2	0.1589
265	MyrSpi		Point	8/14/2017	41.46868	-73.31717	1-3	2	0.0002

Appendix Lake Lillionah Invasive Plant Location data (6 of 9)

FID	Invasive Plant Name	Notes	Type	Date	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
266	MyrSpi		Point	8/14/2017	41.46852	-73.31562	1-3	2	0.0002
267	MyrSpi		Point	8/14/2017	41.46849	-73.31549	1-3	2	0.0002
268	MyrSpi		Point	8/14/2017	41.46847	-73.31543	1-3	1	0.0002
269	MyrSpi		Point	8/14/2017	41.46831	-73.31479	1-3	1	0.0002
270	MyrSpi		Patch	8/14/2017	41.46938	-73.31303	1-3	4	0.9157
271	MyrSpi		Point	8/14/2017	41.47003	-73.31343	1-3	3	0.0002
272	MyrSpi		Point	8/14/2017	41.47039	-73.31417	1-3	3	0.0002
273	MyrSpi		Point	8/14/2017	41.47041	-73.31449	1-3	4	0.0002
274	MyrSpi		Point	8/14/2017	41.47049	-73.31481	1-3	3	0.0002
275	MyrSpi		Point	8/14/2017	41.47060	-73.31501	1-3	4	0.0002
276	MyrSpi		Point	8/14/2017	41.47100	-73.31547	1-3	3	0.0002
277	MyrSpi		Point	8/14/2017	41.47153	-73.31596	1-3	3	0.0002
278	MyrSpi		Point	8/14/2017	41.47164	-73.31607	1-3	3	0.0002
279	MyrSpi		Point	8/14/2017	41.47182	-73.31625	1-3	3	0.0002
280	MyrSpi		Patch	8/14/2017	41.47370	-73.31885	1-3	4	3.2882
281	MyrSpi		Patch	8/15/2017	41.45995	-73.30238	1-3	2	0.1731
282	MyrSpi		Patch	8/15/2017	41.46124	-73.30186	1-3	3	0.7448
283	MyrSpi		Point	8/15/2017	41.46152	-73.29612	1-3	2	0.0002
284	MyrSpi		Point	8/15/2017	41.46166	-73.29599	1-3	2	0.0002
285	MyrSpi		Point	8/15/2017	41.46177	-73.29596	1-3	2	0.0002
286	MyrSpi		Point	8/15/2017	41.46311	-73.29559	1-3	2	0.0002
287	MyrSpi		Point	8/15/2017	41.46325	-73.29550	1-3	2	0.0002
288	MyrSpi		Patch	8/15/2017	41.45822	-73.29680	1-3	3	0.3017
289	MyrSpi		Point	8/15/2017	41.45606	-73.29762	1-3	2	0.0002
290	MyrSpi		Point	8/15/2017	41.45595	-73.29764	1-3	2	0.0002
291	MyrSpi		Point	8/15/2017	41.46411	-73.29524	1-3	2	0.0002
292	MyrSpi		Point	8/15/2017	41.46703	-73.29591	1-3	2	0.0002
293	MyrSpi		Point	8/15/2017	41.47124	-73.29695	1-3	3	0.0002
294	MyrSpi		Point	8/15/2017	41.47143	-73.29912	1-3	2	0.0002
295	MyrSpi		Point	8/15/2017	41.47193	-73.30025	1-3	3	0.0002
296	MyrSpi		Point	8/15/2017	41.47245	-73.30210	1-3	2	0.0002
297	MyrSpi		Point	8/15/2017	41.47249	-73.30229	1-3	2	0.0002
298	MyrSpi		Point	8/15/2017	41.47255	-73.30264	1-3	2	0.0002
299	MyrSpi		Point	8/15/2017	41.47190	-73.30637	1-3	2	0.0002
300	MyrSpi		Point	8/15/2017	41.47146	-73.30778	1-3	2	0.0002
301	MyrSpi		Point	8/15/2017	41.47115	-73.30917	1-3	3	0.0002
302	MyrSpi		Patch	8/15/2017	41.47117	-73.30952	1-3	3	0.1274
303	MyrSpi		Patch	8/15/2017	41.45921	-73.32473	0-2	1	1.0323
304	MyrSpi		Patch	8/15/2017	41.46020	-73.32431	0-2	3	0.1538
305	MyrSpi		Point	8/15/2017	41.46104	-73.32346	1-3	3	0.0002
306	MyrSpi		Point	8/15/2017	41.46116	-73.32336	1-3	2	0.0002
307	MyrSpi		Point	8/15/2017	41.46127	-73.32330	1-3	2	0.0002
308	MyrSpi		Point	8/15/2017	41.46151	-73.32314	1-3	3	0.0002
309	MyrSpi		Point	8/15/2017	41.46154	-73.32310	1-3	4	0.0002
310	MyrSpi		Point	8/15/2017	41.46159	-73.32309	1-3	4	0.0002
311	MyrSpi		Point	8/15/2017	41.46186	-73.32298	1-3	3	0.0002
312	MyrSpi		Point	8/15/2017	41.46288	-73.32244	1-3	2	0.0002
313	MyrSpi		Point	8/15/2017	41.46308	-73.32224	1-3	2	0.0002
314	MyrSpi	dense algae	Patch	8/15/2017	41.46350	-73.32212	0-2	2	0.1409
315	MyrSpi		Patch	8/15/2017	41.46168	-73.32339	1-3	4	0.5606
316	MyrSpi		Point	8/15/2017	41.46788	-73.32031	1-3	2	0.0002
317	MyrSpi		Point	8/15/2017	41.46765	-73.31885	1-3	2	0.0002
318	MyrSpi		Point	8/15/2017	41.46709	-73.31249	1-3	3	0.0002

Appendix Lake Lillionah Invasive Plant Location data (7 of 9)

FID	Invasive Plant Name	Notes	Type	Date	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
319	MyrSpi		Point	8/15/2017	41.46953	-73.30546	1-3	1	0.0002
320	MyrSpi		Point	8/15/2017	41.46752	-73.30200	1-3	3	0.0002
321	MyrSpi		Point	8/15/2017	41.46745	-73.30191	1-3	3	0.0002
322	MyrSpi		Point	8/15/2017	41.46736	-73.30182	1-3	2	0.0002
323	MyrSpi		Point	8/15/2017	41.46717	-73.30165	1-3	2	0.0002
324	MyrSpi		Point	8/15/2017	41.46695	-73.30157	1-3	2	0.0002
325	MyrSpi		Point	8/15/2017	41.46651	-73.30129	1-3	2	0.0002
326	MyrSpi		Point	8/15/2017	41.46648	-73.30127	1-3	2	0.0002
327	MyrSpi		Point	8/15/2017	41.46640	-73.30123	1-3	2	0.0002
328	MyrSpi		Point	8/15/2017	41.46613	-73.30112	1-3	3	0.0002
329	MyrSpi		Point	8/15/2017	41.46598	-73.30110	1-3	3	0.0002
330	MyrSpi		Point	8/15/2017	41.46551	-73.30095	1-3	3	0.0002
331	MyrSpi		Point	8/15/2017	41.46507	-73.30084	1-3	3	0.0002
332	MyrSpi		Point	8/15/2017	41.46484	-73.30083	1-3	3	0.0002
333	MyrSpi		Point	8/15/2017	41.46469	-73.30084	1-3	4	0.0002
334	MyrSpi		Point	8/15/2017	41.46436	-73.30088	1-3	4	0.0002
335	MyrSpi		Patch	8/15/2017	41.46335	-73.30140	1-3	3	0.3793
336	MyrSpi		Patch	8/15/2017	41.45716	-73.30347	1-3	3	0.2951
337	MyrSpi		Point	8/15/2017	41.45667	-73.30352	1-3	2	0.0002
338	MyrSpi		Point	8/15/2017	41.45593	-73.30348	1-3	4	0.0002
339	MyrSpi		Point	8/15/2017	41.45563	-73.30353	1-3	2	0.0002
340	MyrSpi		Patch	8/15/2017	41.45479	-73.30383	1-3	3	0.2822
341	MyrSpi		Point	8/15/2017	41.45379	-73.30388	1-3	2	0.0002
342	MyrSpi		Patch	8/15/2017	41.44958	-73.30316	1-3	3	0.1921
343	MyrSpi		Point	8/15/2017	41.44892	-73.30292	1-3	2	0.0002
344	MyrSpi		Patch	8/15/2017	41.44808	-73.30371	1-3	4	0.3859
345	MyrSpi		Patch	8/15/2017	41.44614	-73.30507	1-3	4	1.1856
346	MyrSpi		Patch	8/15/2017	41.44461	-73.30434	1-3	4	0.8883
347	MyrSpi	dense algae	Patch	8/15/2017	41.44634	-73.30167	1-3	4	4.1324
348	MyrSpi	dense algae	Patch	8/15/2017	41.45063	-73.29700	1-3	3	0.4175
349	MyrSpi		Point	8/15/2017	41.45137	-73.29784	1-3	2	0.0002
350	MyrSpi		Point	8/15/2017	41.45174	-73.29799	1-3	2	0.0002
351	MyrSpi		Point	8/15/2017	41.45192	-73.29807	1-3	4	0.0002
352	MyrSpi		Point	8/15/2017	41.45218	-73.29815	1-3	4	0.0002
353	MyrSpi		Point	8/15/2017	41.45230	-73.29819	1-3	4	0.0002
354	MyrSpi		Point	8/15/2017	41.45238	-73.29826	1-3	4	0.0002
355	MyrSpi		Point	8/15/2017	41.45300	-73.29835	1-3	2	0.0002
356	MyrSpi		Point	8/15/2017	41.45319	-73.29820	1-3	2	0.0002
357	MyrSpi		Patch	8/15/2017	41.45483	-73.29806	1-3	3	-1.1115
358	MyrSpi		Patch	8/15/2017	41.45861	-73.30264	1-3	2	0.7841
359	MyrSpi		Patch	8/16/2017	41.51214	-73.31552	1-3	2	0.4058
360	MyrSpi		Point	8/16/2017	41.51089	-73.31575	1-3	1	0.0002
361	MyrSpi		Point	8/16/2017	41.51034	-73.31569	1-3	5	0.0002
362	PotCri		Point	8/16/2017	41.51025	-73.31570	1-3	2	0.0002
363	MyrSpi		Patch	8/16/2017	41.51011	-73.31597	1-3	2	0.1493
364	PotCri		Point	8/16/2017	41.51002	-73.31598	1-3	2	0.0002
365	MyrSpi		Patch	8/16/2017	41.50788	-73.31913	1-3	4	7.0875
366	MyrSpi		Point	8/16/2017	41.50383	-73.31959	1-3	1	0.0002
367	MyrSpi	With NajMin=3	Patch	8/16/2017	41.50279	-73.31984	1-3	4	0.9539
368	NajMin		Patch	8/16/2017	41.50279	-73.31972	0-1	3	0.3029
369	MyrSpi		Point	8/16/2017	41.49454	-73.32856	1-3	3	0.0002
370	MyrSpi		Point	8/16/2017	41.49460	-73.32859	1-3	3	0.0002
371	MyrSpi		Point	8/16/2017	41.49466	-73.32853	1-3	2	0.0002

Appendix Lake Lillionah Invasive Plant Location data (8 of 9)

FID	Invasive Plant Name	Notes	Type	Date	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
372	MyrSpi		Point	8/16/2017	41.49492	-73.32857	1-3	2	0.0002
373	MyrSpi		Point	8/16/2017	41.49503	-73.32857	1-3	2	0.0002
374	MyrSpi		Point	8/16/2017	41.49512	-73.32858	1-3	2	0.0002
375	MyrSpi		Point	8/16/2017	41.49522	-73.32863	1-3	2	0.0002
376	MyrSpi		Point	8/16/2017	41.49532	-73.32865	1-3	2	0.0002
377	MyrSpi		Point	8/16/2017	41.49550	-73.32868	1-3	2	0.0002
378	MyrSpi		Point	8/16/2017	41.49558	-73.32870	1-3	2	0.0002
379	MyrSpi		Point	8/16/2017	41.49565	-73.32869	1-3	3	0.0002
380	MyrSpi		Point	8/16/2017	41.49579	-73.32873	1-3	3	0.0002
381	MyrSpi		Point	8/16/2017	41.49585	-73.32875	1-3	3	0.0002
382	MyrSpi		Point	8/16/2017	41.49610	-73.32872	1-3	3	0.0002
383	MyrSpi	With NajMin=2	Patch	8/16/2017	41.49734	-73.32569	1-3	4	7.2139
384	NajMin		Patch	8/16/2017	41.49843	-73.32405	0-1	3	0.7531
385	MyrSpi		Patch	8/16/2017	41.49976	-73.32287	1-3	3	1.3079
386	MyrSpi		Point	8/16/2017	41.49991	-73.32220	1-3	3	0.0002
387	MyrSpi		Point	8/16/2017	41.49996	-73.32217	1-3	3	0.0002
388	MyrSpi		Point	8/16/2017	41.50000	-73.32214	1-3	3	0.0002
389	MyrSpi		Point	8/16/2017	41.50008	-73.32204	1-3	3	0.0002
390	MyrSpi		Point	8/16/2017	41.50097	-73.32163	1-3	1	0.0002
391	MyrSpi	With NajMin=4	Patch	8/16/2017	41.50487	-73.32036	1-3	4	5.6213
392	NajMin		Patch	8/16/2017	41.50528	-73.32058	0-1	4	1.1238
393	MyrSpi	With NajMin=3	Patch	8/16/2017	41.51002	-73.31871	1-3	3	3.1908
394	NajMin		Patch	8/16/2017	41.51010	-73.31917	0-1	3	1.2414
395	NajMin		Point	8/17/2017	41.49686	-73.32756	1-3	2	0.0002
396	MyrSpi		Patch	8/17/2017	41.47125	-73.31101	1-3	3	0.8241
397	MyrSpi		Point	8/17/2017	41.47219	-73.31123	1-3	3	0.0002
398	MyrSpi	With NajMin=4 in NW Cove	Patch	8/17/2017	41.47249	-73.31169	1-3	3	0.8581
399	NajMin		Patch	8/17/2017	41.47261	-73.31211	0-1	4	0.1746
400	MyrSpi	With NajMin=4	Patch	8/17/2017	41.47233	-73.31362	0-2	3	1.0089
401	NajMin		Patch	8/17/2017	41.47248	-73.31360	0-1	4	0.3396
402	MyrSpi		Point	8/17/2017	41.47247	-73.31453	1-3	2	0.0002
403	MyrSpi		Point	8/17/2017	41.47270	-73.31475	1-3	3	0.0002
404	MyrSpi		Patch	8/17/2017	41.47409	-73.31585	1-3	3	0.1934
405	MyrSpi		Point	8/17/2017	41.47721	-73.31829	1-3	3	0.0002
406	MyrSpi		Patch	8/17/2017	41.47738	-73.31868	1-3	3	0.1883
407	MyrSpi		Point	8/17/2017	41.47904	-73.32041	1-3	4	0.0002
408	MyrSpi		Point	8/17/2017	41.47909	-73.32043	1-3	4	0.0002
409	MyrSpi		Point	8/17/2017	41.47913	-73.32046	1-3	4	0.0002
410	MyrSpi		Point	8/17/2017	41.47918	-73.32051	1-3	3	0.0002
411	MyrSpi		Point	8/17/2017	41.47921	-73.32058	1-3	2	0.0002
412	MyrSpi		Point	8/17/2017	41.47927	-73.32061	1-3	1	0.0002
413	MyrSpi		Point	8/17/2017	41.47958	-73.32084	1-3	4	0.0002
414	MyrSpi		Point	8/17/2017	41.47993	-73.32099	1-3	2	0.0002
415	MyrSpi		Point	8/17/2017	41.47997	-73.32100	1-3	1	0.0002
416	MyrSpi		Point	8/17/2017	41.48020	-73.32111	1-3	2	0.0002
417	MyrSpi		Point	8/17/2017	41.48038	-73.32122	1-3	4	0.0002
418	MyrSpi		Point	8/17/2017	41.48043	-73.32124	1-3	4	0.0002
419	MyrSpi		Point	8/17/2017	41.48047	-73.32132	1-3	2	0.0002
420	MyrSpi		Point	8/17/2017	41.48053	-73.32141	1-3	2	0.0002
421	MyrSpi		Patch	8/17/2017	41.48194	-73.32200	1-3	3	0.9958
422	NajMin		Patch	8/17/2017	41.48199	-73.32194	0-1	2	0.3804
423	MyrSpi		Point	8/17/2017	41.48319	-73.32273	1-3	3	0.0002
424	MyrSpi		Patch	8/17/2017	41.48362	-73.32339	1-3	2	0.1035

Appendix Lake Lillinonah Invasive Plant Location data (9 of 9)

FID	Invasive Plant Name	Notes	Type	Date	Latitude	Longitude	Depth (m)	Abundance	Area (acres)
425	MyrSpi		Patch	8/17/2017	41.48501	-73.32533	1-3	4	0.0895
426	MyrSpi		Patch	8/17/2017	41.48597	-73.32540	1-3	2	0.3749
427	MyrSpi		Patch	8/17/2017	41.48847	-73.32428	1-3	3	0.1237
428	MyrSpi		Point	8/17/2017	41.49232	-73.32416	1-3	3	0.0002
429	MyrSpi		Point	8/17/2017	41.49234	-73.32414	1-3	3	0.0002
430	MyrSpi		Point	8/17/2017	41.49251	-73.32421	1-3	2	0.0002
431	MyrSpi		Patch	8/17/2017	41.49383	-73.32493	1-3	3	0.8547
432	NajMin		Patch	8/17/2017	41.49399	-73.32494	0-1	3	0.4797
433	MyrSpi		Patch	8/17/2017	41.49581	-73.32420	1-3	2	0.4701
434	NajMin		Patch	8/17/2017	41.49580	-73.32414	0-1	4	0.1126
435	MyrSpi		Point	8/17/2017	41.49678	-73.32329	1-3	2	0.0002
436	MyrSpi		Point	8/17/2017	41.49703	-73.32306	1-3	2	0.0002
437	MyrSpi		Patch	8/17/2017	41.49856	-73.32167	1-3	3	0.2327
438	MyrSpi		Point	8/17/2017	41.49999	-73.32079	1-3	2	0.0002
439	MyrSpi		Point	8/17/2017	41.50002	-73.32077	1-3	2	0.0002
440	MyrSpi		Point	8/17/2017	41.50021	-73.32067	1-3	2	0.0002
441	MyrSpi		Point	8/17/2017	41.50043	-73.32049	1-3	2	0.0002
442	MyrSpi		Patch	8/17/2017	41.50132	-73.32034	1-3	3	0.2854



## **Transect Data**

Appendix Candlewood Lake Transect Data (1 of 2)

Transect	Point	Distance from		Surveyor	Latitude	Longitude	Date	Depth (m)	Substrate	CerDem	EleSpp	LemMin	MyrSpi	NajMin	NymOdo	ValAme
		Shore (m)														
1	1	0.5		Greg Bugbee	41.42381	-73.45253	8/22/2017	0.3	Muck	3	0	0	3	0	0	0
1	2	5		Greg Bugbee	41.42386	-73.45253	8/22/2017	0.5	Sand	3	0	0	3	0	0	0
1	3	10		Greg Bugbee	41.42388	-73.45256	8/22/2017	1.0	Sand	2	0	0	2	0	0	0
1	4	20		Greg Bugbee	41.42402	-73.45265	8/22/2017	1.2	Muck	2	0	0	2	0	0	0
1	5	30		Greg Bugbee	41.42409	-73.45268	8/22/2017	1.5	Muck	2	0	0	2	0	0	0
1	6	40		Greg Bugbee	41.42416	-73.45272	8/22/2017	2.0	Muck	3	0	0	2	0	0	0
1	7	50		Greg Bugbee	41.42423	-73.45272	8/22/2017	2.0	Muck	3	0	0	2	0	0	0
1	8	60		Greg Bugbee	41.42432	-73.45276	8/22/2017	2.0	Muck	2	0	0	2	0	0	0
1	9	70		Greg Bugbee	41.42440	-73.45281	8/22/2017	1.5	Muck	2	0	0	3	0	0	0
1	10	80		Greg Bugbee	41.42448	-73.45288	8/22/2017	1.5	Muck	2	0	0	3	0	0	0
2	1	0.5		Greg Bugbee	41.42767	-73.44931	8/22/2017	0.2	Sand	0	0	0	0	0	0	0
2	2	5		Greg Bugbee	41.42758	-73.44940	8/22/2017	2.0	Sand	3	0	0	3	0	0	0
2	3	10		Greg Bugbee	41.42757	-73.44939	8/22/2017	2.6	Muck	3	0	0	3	0	0	0
2	4	20		Greg Bugbee	41.42747	-73.44951	8/22/2017	2.5	Silt	4	0	0	0	0	0	0
2	5	30		Greg Bugbee	41.42744	-73.44960	8/22/2017	3.3	Silt	3	0	0	3	0	0	0
2	6	40		Greg Bugbee	41.42739	-73.44970	8/22/2017	1.5	Gravel	2	0	0	3	0	0	0
2	7	50		Greg Bugbee	41.42730	-73.44980	8/22/2017	3.0	Gravel	0	0	0	3	0	0	0
2	8	60		Greg Bugbee	41.42722	-73.44978	8/22/2017	2.0	Gravel	0	0	0	3	0	0	0
2	9	70		Greg Bugbee	41.42714	-73.44988	8/22/2017	2.0	Gravel	0	0	0	3	0	0	0
2	10	80		Greg Bugbee	41.42712	-73.44999	8/22/2017	1.6	Gravel	0	0	0	4	0	0	0
3	1	0.5		Greg Bugbee	41.47023	-73.43531	8/22/2017	0.2	Sand	0	2	0	0	0	0	0
3	2	5		Greg Bugbee	41.47023	-73.43523	8/22/2017	0.8	Sand	0	0	0	2	0	0	0
3	3	10		Greg Bugbee	41.47026	-73.43520	8/22/2017	1.4	Sand	0	0	0	2	0	0	0
3	4	20		Greg Bugbee	41.47028	-73.43508	8/22/2017	5.0	Sand	0	0	0	0	0	0	0
3	5	30		Greg Bugbee	41.47024	-73.43490	8/22/2017	12.0	Silt	0	0	0	0	0	0	0
3	6	40		Greg Bugbee	41.47035	-73.43480	8/22/2017	10.0	Silt	0	0	0	0	0	0	0
3	7	50		Greg Bugbee	41.47039	-73.43471	8/22/2017	11.0	Silt	0	0	0	0	0	0	0
3	8	60		Greg Bugbee	41.47035	-73.43460	8/22/2017	10.0	Silt	0	0	0	0	0	0	0
3	9	70		Greg Bugbee	41.47046	-73.43453	8/22/2017	10.0	Silt	0	0	0	0	0	0	0
3	10	80		Greg Bugbee	41.47045	-73.43433	8/22/2017	10.0	Silt	0	0	0	0	0	0	0
4	1	0.5		Greg Bugbee	41.57123	-73.48843	8/21/2017	0.3	Muck	2	0	0	2	0	0	0
4	2	5		Greg Bugbee	41.57116	-73.48835	8/21/2017	0.9	Muck	0	0	0	0	0	0	0
4	3	10		Greg Bugbee	41.57110	-73.48841	8/21/2017	1.2	Muck	1	0	0	1	0	0	0
4	4	20		Greg Bugbee	41.57097	-73.48849	8/21/2017	1.6	Muck	1	0	0	2	0	2	0
4	5	30		Greg Bugbee	41.57091	-73.48852	8/21/2017	1.8	Muck	3	0	0	0	0	2	0
4	6	40		Greg Bugbee	41.57081	-73.48856	8/21/2017	2.1	Silt	4	0	0	0	0	2	0
4	7	50		Greg Bugbee	41.57072	-73.48864	8/21/2017	0.0	Silt	4	0	0	0	0	2	0
4	8	60		Greg Bugbee	41.57064	-73.48872	8/21/2017	3.0	Silt	4	0	0	0	0	2	0
4	9	70		Greg Bugbee	41.57054	-73.48870	8/21/2017	3.8	Silt	2	0	0	0	0	2	0
4	10	80		Greg Bugbee	41.57046	-73.48871	8/21/2017	3.9	Silt	2	0	0	0	0	2	0
5	1	0.5		Greg Bugbee	41.50215	-73.45149	8/21/2017	0.2	Sand	0	0	0	0	0	2	0
5	2	5		Greg Bugbee	41.50217	-73.45160	8/21/2017	1.0	Sand	0	0	0	2	2	2	0
5	3	10		Greg Bugbee	41.50216	-73.45167	8/21/2017	1.2	Sand	0	0	0	2	3	2	0
5	4	20		Greg Bugbee	41.50215	-73.45177	8/21/2017	2.0	Sand	0	0	0	4	3	2	0
5	5	30		Greg Bugbee	41.50217	-73.45188	8/21/2017	2.5	Silt	0	0	0	4	3	2	0
5	6	40		Greg Bugbee	41.50220	-73.45200	8/21/2017	3.5	Silt	0	0	0	3	3	2	0
5	7	50		Greg Bugbee	41.50217	-73.45213	8/21/2017	4.0	Silt	0	0	0	3	3	2	0
5	8	60		Greg Bugbee	41.50212	-73.45224	8/21/2017	5.0	Silt	0	0	0	0	3	2	0
5	9	70		Greg Bugbee	41.50212	-73.45237	8/21/2017	6.0	Silt	0	0	0	0	3	2	0
5	10	80		Greg Bugbee	41.50214	-73.45249	8/21/2017	3.6	Silt	0	0	0	0	3	2	0
6	1	0.5		Greg Bugbee	41.51384	-73.45336	8/21/2017	0.1	Muck	0	0	2	0	0	2	0

Appendix Candlewood Lake Transect Data (2 of 2)

Transect	Point	Distance from		Surveyor	Latitude	Longitude	Date	Depth (m)	Substrate	CerDem	EleSpp	LemMin	MyrSpi	NajMin	NymOdo	ValAme
		Shore (m)														
6	2	5		Greg Bugbee	41.51388	-73.45335	8/21/2017	0.5	Muck	0	0	0	3	0	2	0
6	3	10		Greg Bugbee	41.51396	-73.45335	8/21/2017	1.2	Muck	0	0	0	0	0	2	0
6	4	20		Greg Bugbee	41.51404	-73.45337	8/21/2017	1.5	Muck	0	0	0	5	0	2	0
6	5	30		Greg Bugbee	41.51415	-73.45336	8/21/2017	2.0	Silt	0	0	0	5	0	2	0
6	6	40		Greg Bugbee	41.51423	-73.45336	8/21/2017	2.5	Silt	0	0	0	5	0	2	0
6	7	50		Greg Bugbee	41.51433	-73.45336	8/21/2017	2.8	Silt	0	0	0	4	0	2	0
6	8	60		Greg Bugbee	41.51440	-73.45336	8/21/2017	4.0	Silt	0	0	0	3	0	2	0
6	9	70		Greg Bugbee	41.51448	-73.45338	8/21/2017	5.5	Silt	0	0	0	0	0	2	0
6	10	80		Greg Bugbee	41.51457	-73.45333	8/21/2017	6.5	Silt	0	0	0	0	0	2	0
7	1	0.5		Greg Bugbee	41.57152	-73.44274	8/22/2017	0.2	Rock	0	0	0	0	0	0	0
7	2	5		Greg Bugbee	41.57150	-73.44276	8/22/2017	0.8	Rock	0	0	0	2	0	0	0
7	3	10		Greg Bugbee	41.57150	-73.44286	8/22/2017	2.0	Sand	0	0	0	2	0	0	0
7	4	20		Greg Bugbee	41.57150	-73.44301	8/22/2017	2.2	Sand	0	0	0	4	0	0	0
7	5	30		Greg Bugbee	41.57149	-73.44314	8/22/2017	3.0	Silt	2	0	0	4	0	0	0
7	6	40		Greg Bugbee	41.57146	-73.44319	8/22/2017	4.5	Silt	3	0	0	0	0	0	0
7	7	50		Greg Bugbee	41.57145	-73.44335	8/22/2017	8.0	Silt	3	0	0	0	0	0	0
7	8	60		Greg Bugbee	41.57140	-73.44346	8/22/2017	8.0	Silt	0	0	0	0	0	0	0
7	9	70		Greg Bugbee	41.57141	-73.44359	8/22/2017	0.0	Silt	0	0	0	0	0	0	0
7	10	80		Greg Bugbee	41.57135	-73.44374	8/22/2017	10.3	Silt	0	0	0	0	0	0	0
8	1	0.5		Greg Bugbee	41.51291	-73.44116	8/22/2017	0.8	Sand	0	2	0	0	0	0	0
8	2	5		Greg Bugbee	41.51289	-73.44118	8/22/2017	1.3	Sand	0	0	0	2	0	0	0
8	3	10		Greg Bugbee	41.51284	-73.44116	8/22/2017	1.8	Sand	0	0	0	2	2	0	0
8	4	20		Greg Bugbee	41.51278	-73.44113	8/22/2017	2.5	Sand	0	0	0	3	0	0	0
8	5	30		Greg Bugbee	41.51265	-73.44118	8/22/2017	2.0	Sand	0	0	0	3	0	0	0
8	6	40		Greg Bugbee	41.51259	-73.44116	8/22/2017	2.0	Sand	0	0	0	3	0	0	0
8	7	50		Greg Bugbee	41.51249	-73.44121	8/22/2017	2.8	Sand	0	0	0	3	0	0	0
8	8	60		Greg Bugbee	41.51239	-73.44123	8/22/2017	2.8	Sand	2	0	0	3	0	0	0
8	9	70		Greg Bugbee	41.51229	-73.44120	8/22/2017	4.5	Silt	2	0	0	2	0	0	0
8	10	80		Greg Bugbee	41.51223	-73.44135	8/22/2017	4.0	Silt	0	0	0	3	0	0	0
9	1	0.5		Greg Bugbee	41.48049	-73.43466	8/25/2017	0.3	Sand	0	2	0	2	0	0	0
9	2	5		Greg Bugbee	41.48048	-73.43471	8/25/2017	0.8	Sand	0	0	0	2	0	0	0
9	3	10		Greg Bugbee	41.48048	-73.43476	8/25/2017	1.0	Sand	0	0	0	0	0	0	0
9	4	20		Greg Bugbee	41.48043	-73.43486	8/25/2017	1.8	Sand	0	0	0	0	0	0	0
9	5	30		Greg Bugbee	41.48044	-73.43497	8/25/2017	2.2	Sand	2	0	0	0	0	0	0
9	6	40		Greg Bugbee	41.48036	-73.43508	8/25/2017	2.5	Sand	3	0	0	0	0	0	0
9	7	50		Greg Bugbee	41.48031	-73.43521	8/25/2017	2.4	Sand	3	0	0	0	0	0	0
9	8	60		Greg Bugbee	41.48035	-73.43534	8/25/2017	2.6	Sand	3	0	0	0	0	0	0
9	9	70		Greg Bugbee	41.48028	-73.43542	8/25/2017	2.2	Sand	2	0	0	2	0	0	0
9	10	80		Greg Bugbee	41.48029	-73.43557	8/25/2017	1.7	Sand	2	0	0	2	0	0	0
10	1	0.5		Greg Bugbee	41.44734	-73.42954	8/22/2017	0.2	Sand	0	0	0	2	0	0	0
10	2	5		Greg Bugbee	41.44735	-73.42957	8/22/2017	0.5	Sand	0	0	0	2	0	0	0
10	3	10		Greg Bugbee	41.44728	-73.42961	8/22/2017	0.7	Sand	0	0	0	0	0	0	2
10	4	20		Greg Bugbee	41.44726	-73.42974	8/22/2017	1.3	Sand	2	0	0	0	0	0	2
10	5	30		Greg Bugbee	41.44719	-73.42981	8/22/2017	1.0	Sand	2	0	0	2	0	0	2
10	6	40		Greg Bugbee	41.44713	-73.42994	8/22/2017	0.7	Sand	2	0	0	3	0	0	3
10	7	50		Greg Bugbee	41.44711	-73.42997	8/22/2017	0.2	Sand	2	0	0	3	0	0	3

Appendix Squantz Pond Transect Data (1 of 1)

Transect	Distance from			Surveyor	Latitude	Longitude	Date	Depth (m)	Substrate	CerDem	Elasp	EleSpp	EloNut	LudSpp	MyrSpi	NajMin	PotBic	SpaSpp
	Point	Shore (m)																
1	1	0.5		Summer Stebbins	41.51021	-73.47150	8/1/2017	0.2	Sand	0	3	0	2	0	2	2	3	2
1	2	5		Summer Stebbins	41.51025	-73.47155	8/1/2017	0.5	Sand	2	2	0	0	0	2	2	2	2
1	3	10		Summer Stebbins	41.51026	-73.47149	8/1/2017	0.3	Sand	0	0	0	0	0	2	2	2	0
1	4	20		Summer Stebbins	41.51039	-73.47159	8/1/2017	1.1	Silt	0	0	0	0	0	0	2	0	0
1	5	30		Summer Stebbins	41.51045	-73.47161	8/1/2017	1.4	Silt	0	0	0	0	0	2	3	1	0
1	6	40		Summer Stebbins	41.51053	-73.47170	8/1/2017	2.1	Silt	0	0	0	0	0	3	0	0	0
1	7	50		Summer Stebbins	41.51059	-73.47180	8/1/2017	2.1	Silt	0	0	0	0	0	3	0	0	0
1	8	60		Summer Stebbins	41.51064	-73.47195	8/1/2017	2.7	Muck	2	0	0	0	0	3	0	0	0
1	9	70		Summer Stebbins	41.51076	-73.47195	8/1/2017	3.5	Muck	3	0	0	0	0	0	0	0	0
1	10	80		Summer Stebbins	41.51079	-73.47205	8/1/2017	4.5	Muck	4	0	0	0	0	0	0	0	0
2	1	0.5		Summer Stebbins	41.52358	-73.48137	8/1/2017	0.1	Gravel	0	0	0	0	0	0	2	0	0
2	2	5		Summer Stebbins	41.52354	-73.48140	8/1/2017	0.3	Gravel	0	2	0	0	0	2	2	0	0
2	3	10		Summer Stebbins	41.52354	-73.48144	8/1/2017	0.7	Gravel	0	0	0	0	0	2	3	0	0
2	4	20		Summer Stebbins	41.52347	-73.48156	8/1/2017	1.7	Silt	0	0	0	0	0	2	0	0	0
2	5	30		Summer Stebbins	41.52347	-73.48167	8/1/2017	2.3	Muck	0	0	0	0	0	3	0	0	0
2	6	40		Summer Stebbins	41.52343	-73.48178	8/1/2017	2.8	Muck	0	0	0	0	0	3	0	0	0
2	7	50		Summer Stebbins	41.52340	-73.48191	8/1/2017	4.6	Muck	0	0	0	0	0	0	0	0	0
2	8	60		Summer Stebbins	41.52333	-73.48198	8/1/2017	5.1	Muck	0	0	0	0	0	0	0	0	0
2	9	70		Summer Stebbins	41.52329	-73.48210	8/1/2017	5.6	Muck	0	0	0	0	0	0	0	0	0
2	10	80		Summer Stebbins	41.52328	-73.48221	8/1/2017	6.0	Muck	0	0	0	0	0	0	0	0	0
3	1	0.5		Summer Stebbins	41.53394	-73.48313	8/1/2017	0.1	Sand	0	0	0	0	0	2	2	1	0
3	2	5		Summer Stebbins	41.53395	-73.48318	8/1/2017	1.0	Sand	0	0	0	0	0	0	3	0	0
3	3	10		Summer Stebbins	41.53399	-73.48325	8/1/2017	1.4	Silt	0	0	0	0	0	2	0	0	0
3	4	20		Summer Stebbins	41.53397	-73.48340	8/1/2017	2.1	Silt	0	0	0	0	0	2	0	0	0
3	5	30		Summer Stebbins	41.53392	-73.48347	8/1/2017	2.5	Silt	0	0	0	0	0	2	0	0	0
3	6	40		Summer Stebbins	41.53391	-73.48362	8/1/2017	2.8	Silt	0	0	0	0	0	2	0	0	0
3	7	50		Summer Stebbins	41.53389	-73.48373	8/1/2017	2.6	Silt	0	0	0	0	0	2	0	0	0
3	8	60		Summer Stebbins	41.53386	-73.48384	8/1/2017	2.5	Silt	0	0	0	0	0	2	0	0	0
3	9	70		Summer Stebbins	41.53389	-73.48398	8/1/2017	2.6	Silt	0	0	0	0	0	0	0	0	0
3	10	80		Summer Stebbins	41.53392	-73.48411	8/1/2017	2.7	Silt	0	0	0	0	0	0	0	0	0
4	1	0.5		Summer Stebbins	41.53078	-73.48268	8/1/2017	0.1	Sand	0	2	2	0	0	0	2	1	1
4	2	5		Summer Stebbins	41.53080	-73.48275	8/1/2017	0.3	Sand	0	0	0	0	1	2	3	0	1
4	3	10		Summer Stebbins	41.53078	-73.48283	8/1/2017	0.5	Silt	0	0	0	0	0	2	3	0	0
4	4	20		Summer Stebbins	41.53078	-73.48294	8/1/2017	1.1	Silt	0	0	0	0	0	0	3	2	0
4	5	30		Summer Stebbins	41.53077	-73.48307	8/1/2017	1.7	Silt	0	0	0	0	0	3	3	0	0
4	6	40		Summer Stebbins	41.53071	-73.48318	8/1/2017	1.8	Silt	0	0	0	0	0	3	0	0	0
4	7	50		Summer Stebbins	41.53075	-73.48330	8/1/2017	2.5	Muck	0	0	0	0	0	3	0	0	0
4	8	60		Summer Stebbins	41.53074	-73.48343	8/1/2017	3.0	Muck	0	0	0	0	0	2	0	0	0
4	9	70		Summer Stebbins	41.53070	-73.48356	8/1/2017	3.5	Muck	0	0	0	0	0	2	0	0	0
4	10	80		Summer Stebbins	41.53065	-73.48364	8/1/2017	3.8	Muck	0	0	0	0	0	2	0	0	0
5	1	0.5		Summer Stebbins	41.52820	-73.48610	8/1/2017	0.2	Bedrock	0	0	0	0	0	1	0	0	0
5	2	5		Summer Stebbins	41.52825	-73.48602	8/1/2017	1.0	Bedrock	0	0	0	0	0	2	0	0	0
5	3	10		Summer Stebbins	41.52821	-73.48587	8/1/2017	1.8	Sand	0	0	0	0	0	2	0	0	0
5	4	20		Summer Stebbins	41.52816	-73.48578	8/1/2017	1.9	Silt	0	0	0	0	0	3	0	0	0
5	5	30		Summer Stebbins	41.52814	-73.48567	8/1/2017	1.7	Silt	0	0	0	0	0	3	0	0	0
5	6	40		Summer Stebbins	41.52812	-73.48556	8/1/2017	1.2	Silt	0	0	0	0	0	3	0	0	0
5	7	50		Summer Stebbins	41.52809	-73.48543	8/1/2017	0.6	Silt	0	0	0	0	0	2	0	0	0
5	8	60		Summer Stebbins	41.52807	-73.48531	8/1/2017	3.6	Silt	0	0	0	0	0	0	0	0	0
5	9	70		Summer Stebbins	41.52808	-73.48519	8/1/2017	4.9	Silt	0	0	0	0	0	0	0	0	0
5	10	80		Summer Stebbins	41.52811	-73.48509	8/1/2017	5.3	Silt	0	0	0	0	0	0	0	0	0

Appendix Lake Lillinonah Transect Data (1 of 2)

Transect	Point	Distance from			Depth														
		Shore (m)	Surveyor	Latitude	Longitude	Date	(m)	Substrate	CerDem	ElaSpp	EloNut	MyrSpi	NajMin	PotBic	PotFol	PotNat	SagSpp	WolffiaSpp	ZosDub
1	1	0.5	Greg Bugbee	41.46624	-73.30123	8/23/2017	0.2	Gravel	0	0	0	0	0	0	0	0	0	0	0
1	2	5	Greg Bugbee	41.46623	-73.30118	8/23/2017	1.8	Gravel	0	0	0	0	0	0	0	0	0	0	0
1	3	10	Greg Bugbee	41.46626	-73.30110	8/23/2017	6.0	Gravel	0	0	0	0	0	0	0	0	0	0	0
1	4	20	Greg Bugbee	41.46632	-73.30099	8/23/2017	11.0	Gravel	0	0	0	0	0	0	0	0	0	0	0
1	5	30	Greg Bugbee	41.46628	-73.30083	8/23/2017	11.0	Gravel	0	0	0	0	0	0	0	0	0	0	0
1	6	40	Greg Bugbee	41.46626	-73.30070	8/23/2017	12.0	Gravel	0	0	0	0	0	0	0	0	0	0	0
1	7	50	Greg Bugbee	41.46626	-73.30060	8/23/2017	13.0	Gravel	0	0	0	0	0	0	0	0	0	0	0
1	8	60	Greg Bugbee	41.46626	-73.30049	8/23/2017	14.0	Gravel	0	0	0	0	0	0	0	0	0	0	0
1	9	70	Greg Bugbee	41.46627	-73.30038	8/23/2017	17.0	Gravel	0	0	0	0	0	0	0	0	0	0	0
1	10	80	Greg Bugbee	41.46627	-73.30027	8/23/2017	21.0	Gravel	0	0	0	0	0	0	0	0	0	0	0
2	1	0.5	Greg Bugbee	41.53855	-73.40577	8/23/2017	0.3	Bedrock	0	0	0	0	0	0	0	0	0	0	0
2	2	5	Greg Bugbee	41.53850	-73.40571	8/23/2017	3.0	Organic	3	0	0	4	0	0	0	0	0	2	0
2	3	10	Greg Bugbee	41.53848	-73.40565	8/23/2017	2.8	Organic	4	0	0	3	0	0	0	0	0	2	0
2	4	20	Greg Bugbee	41.53851	-73.40551	8/23/2017	2.0	Organic	4	0	0	3	0	0	0	0	0	2	0
2	5	20	Greg Bugbee	41.53845	-73.40543	8/23/2017	1.8	Organic	4	0	0	3	2	0	0	0	0	2	1
2	6	40	Greg Bugbee	41.53844	-73.40530	8/23/2017	1.8	Organic	4	0	2	3	0	0	0	0	0	2	0
2	7	50	Greg Bugbee	41.53839	-73.40519	8/23/2017	1.5	Organic	4	0	2	3	0	0	0	0	0	2	2
2	8	50	Greg Bugbee	41.53837	-73.40510	8/23/2017	1.5	Organic	4	0	2	3	0	0	0	2	0	2	2
2	9	70	Greg Bugbee	41.53834	-73.40497	8/23/2017	1.1	Organic	4	0	2	3	2	0	0	0	0	2	2
2	10	80	Greg Bugbee	41.53832	-73.40486	8/23/2017	1.1	Organic	3	0	3	2	2	0	0	0	0	2	3
3	1	0.5	Summer Stebbins	41.52331	-73.39895	8/9/2017	0.3	Bedrock	0	0	0	0	0	0	0	0	0	0	0
3	2	5	Summer Stebbins	41.52332	-73.39908	8/9/2017	2.0	Bedrock	0	0	0	2	0	0	0	0	0	0	0
3	3	10	Summer Stebbins	41.52330	-73.39908	8/9/2017	2.8	Bedrock	0	0	0	2	0	0	0	0	0	0	0
3	4	20	Summer Stebbins	41.52326	-73.39916	8/9/2017	3.1	Silt	0	0	0	0	0	0	0	0	0	0	0
3	5	30	Summer Stebbins	41.52321	-73.39926	8/9/2017	3.0	Silt	0	0	0	0	0	0	0	0	0	0	0
3	6	40	Summer Stebbins	41.52317	-73.39937	8/9/2017	2.7	Silt	0	0	0	4	0	0	0	0	0	0	0
3	7	50	Summer Stebbins	41.52312	-73.39947	8/9/2017	2.3	Silt	0	0	0	5	0	0	0	0	0	0	0
3	8	60	Summer Stebbins	41.52304	-73.39954	8/9/2017	2.2	Silt	0	0	0	5	0	0	0	0	0	0	0
3	9	70	Summer Stebbins	41.52299	-73.39965	8/9/2017	2.0	Silt	0	0	0	5	0	0	0	0	0	0	0
3	10	80	Summer Stebbins	41.52294	-73.39975	8/9/2017	1.9	Silt	4	0	0	5	0	0	0	0	0	0	0
4	1	0.5	Summer Stebbins	41.49892	-73.37424	8/8/2017	0.1	Gravel	0	0	0	0	0	0	0	0	0	0	0
4	2	5	Amanda Massa	41.49896	-73.37422	8/8/2017	0.3	Sand	0	0	0	3	3	0	0	0	0	0	2
4	3	10	Summer Stebbins	41.49899	-73.37426	8/8/2017	0.5	Sand	2	0	0	5	0	0	1	0	0	0	2
4	4	20	Summer Stebbins	41.49908	-73.37430	8/8/2017	0.6	Silt	2	0	0	5	2	0	2	0	0	0	0
4	5	30	Summer Stebbins	41.49914	-73.37444	8/8/2017	2.5	Silt	2	0	0	4	0	0	0	0	0	0	0
4	6	40	Summer Stebbins	41.49920	-73.37451	8/8/2017	3.0	Silt	4	0	0	0	0	0	0	0	0	0	0
4	7	50	Summer Stebbins	41.49924	-73.37461	8/8/2017	4.0	Muck	2	0	0	0	0	0	0	0	0	0	0
4	8	60	Summer Stebbins	41.49933	-73.37462	8/8/2017	4.2	Muck	3	0	0	0	0	0	0	0	0	0	0
4	9	70	Summer Stebbins	41.49941	-73.37468	8/8/2017	4.8	Muck	3	0	0	0	0	0	0	0	0	0	0
4	10	80	Summer Stebbins	41.49954	-73.37466	8/8/2017	6.3	Muck	0	0	0	0	0	0	0	0	0	0	0
5	1	0.5	Summer Stebbins	41.49688	-73.32764	8/17/2017	0.0	Sand	0	2	0	0	0	0	0	0	2	0	2
5	2	5	Summer Stebbins	41.49685	-73.32758	8/17/2017	0.2	Sand	0	2	0	0	2	0	0	0	2	0	2
5	3	10	Summer Stebbins	41.49683	-73.32752	8/17/2017	0.3	Sand	0	0	0	0	0	2	0	0	3	0	0
5	4	20	Summer Stebbins	41.49678	-73.32743	8/17/2017	0.5	Sand	0	0	0	0	0	3	0	0	0	0	0
5	5	30	Summer Stebbins	41.49674	-73.32734	8/17/2017	1.0	Sand	0	0	0	4	0	0	0	0	0	0	0
5	6	40	Summer Stebbins	41.49667	-73.32724	8/17/2017	3.8	Sand	0	0	0	0	0	0	0	0	0	0	0
5	7	50	Summer Stebbins	41.49658	-73.32719	8/17/2017	3.3	Sand	0	0	0	4	0	0	0	0	0	0	0
5	8	60	Summer Stebbins	41.49654	-73.32705	8/17/2017	4.5	Silt	0	0	0	0	0	0	0	0	0	0	0
5	9	70	Summer Stebbins	41.49653	-73.32693	8/17/2017	4.0	Silt	0	0	0	0	0	0	0	0	0	0	0
5	10	80	Summer Stebbins	41.49645	-73.32687	8/17/2017	5.5	Silt	0	0	0	0	0	0	0	0	0	0	0
6	1	0.5	Summer Stebbins	41.48397	-73.32383	8/17/2017	0.2	Bedrock	0	0	0	0	0	0	0	0	0	0	0

Appendix Lake Lillionah Transect Data (2 of 2)

Transect	Point	Distance from		Surveyor	Latitude	Longitude	Date	Depth (m)	Substrate	CerDem	ElaSpp	EloNut	MyrSpi	NajMin	PotBic	PotFol	PotNat	SagSpp	WolffiaSpp	ZosDub
		Shore (m)																		
6	2	5		Summer Stebbins	41.48388	-73.32391	8/17/2017	4.2	Bedrock	0	0	0	0	0	0	0	0	0	0	0
6	3	10		Summer Stebbins	41.48383	-73.32392	8/17/2017	7.4	Silt	0	0	0	0	0	0	0	0	0	0	0
6	4	20		Summer Stebbins	41.48374	-73.32396	8/17/2017	9.5	Silt	0	0	0	0	0	0	0	0	0	0	0
6	5	30		Summer Stebbins	41.48367	-73.32400	8/17/2017	10.5	Silt	0	0	0	0	0	0	0	0	0	0	0
6	6	40		Summer Stebbins	41.48354	-73.32407	8/17/2017	12.5	Silt	0	0	0	0	0	0	0	0	0	0	0
6	7	50		Summer Stebbins	41.48350	-73.32413	8/17/2017	13.3	Silt	0	0	0	0	0	0	0	0	0	0	0
6	8	60		Summer Stebbins	41.48343	-73.32424	8/17/2017	14.0	Silt	0	0	0	0	0	0	0	0	0	0	0
6	9	70		Summer Stebbins	41.48335	-73.32426	8/17/2017	41.1	Silt	0	0	0	0	0	0	0	0	0	0	0
6	10	80		Summer Stebbins	41.48324	-73.32433	8/17/2017	14.5	Silt	0	0	0	0	0	0	0	0	0	0	0
7	1	0.5		Summer Stebbins	41.47222	-73.31418	8/17/2017	0.2	Gravel	0	0	0	0	0	0	0	0	0	0	0
7	2	5		Summer Stebbins	41.47218	-73.31413	8/17/2017	0.5	Gravel	0	0	0	0	0	0	0	0	0	0	0
7	3	10		Summer Stebbins	41.47216	-73.31408	8/17/2017	4.2	Silt	0	0	0	3	0	0	0	0	0	0	0
7	4	20		Summer Stebbins	41.47210	-73.31398	8/17/2017	7.0	Silt	0	0	0	3	0	0	0	0	0	0	0
7	5	30		Summer Stebbins	41.47208	-73.31385	8/17/2017	8.0	Silt	0	0	0	3	0	0	0	0	0	0	0
7	6	40		Summer Stebbins	41.47209	-73.31372	8/17/2017	8.7	Silt	0	0	0	3	0	0	0	0	0	0	0
7	7	50		Summer Stebbins	41.47209	-73.31361	8/17/2017	8.3	Silt	0	0	0	3	0	0	0	0	0	0	0
7	8	60		Summer Stebbins	41.47205	-73.31351	8/17/2017	8.2	Silt	0	0	0	3	0	0	0	0	0	0	0
7	9	70		Summer Stebbins	41.47193	-73.31344	8/17/2017	8.7	Silt	0	0	0	3	0	0	0	0	0	0	0
7	10	80		Summer Stebbins	41.47189	-73.31331	8/17/2017	8.6	Silt	0	0	0	3	0	0	0	0	0	0	0
8	1	0.5		Greg Bugbee	41.44799	-73.30355	8/23/2017	0.2	Gravel	0	0	0	0	0	0	0	0	0	0	0
8	2	5		Greg Bugbee	41.44794	-73.30358	8/23/2017	1.7	Gravel	0	0	0	4	0	0	0	0	0	0	0
8	3	10		Greg Bugbee	41.44790	-73.30352	8/23/2017	3.0	Silt	0	0	0	3	0	0	0	0	0	0	0
8	4	20		Greg Bugbee	41.44782	-73.30345	8/23/2017	9.0	Silt	0	0	0	0	0	0	0	0	0	0	0
8	5	30		Greg Bugbee	41.44772	-73.30343	8/23/2017	13.0	Silt	0	0	0	0	0	0	0	0	0	0	0
8	6	40		Greg Bugbee	41.44767	-73.30335	8/23/2017	17.0	Silt	0	0	0	0	0	0	0	0	0	0	0
8	7	50		Greg Bugbee	41.44760	-73.30325	8/23/2017	17.0	Silt	0	0	0	0	0	0	0	0	0	0	0
8	8	60		Greg Bugbee	41.44754	-73.30314	8/23/2017	19.0	Silt	0	0	0	0	0	0	0	0	0	0	0
8	9	70		Greg Bugbee	41.44750	-73.30307	8/23/2017	20.0	Silt	0	0	0	0	0	0	0	0	0	0	0
8	10	80		Greg Bugbee	41.44740	-73.30298	8/23/2017	21.0	Silt	0	0	0	0	0	0	0	0	0	0	0
9	1	0.5		Greg Bugbee	41.51012	-73.32012	8/23/2017	0.2	Gravel	0	0	0	2	2	0	0	0	0	0	0
9	2	5		Greg Bugbee	41.51008	-73.32012	8/23/2017	0.8	Silt	2	0	0	2	4	0	0	0	0	0	0
9	3	10		Greg Bugbee	41.51005	-73.32007	8/23/2017	1.0	Silt	3	0	0	2	4	2	0	0	0	0	0
9	4	20		Greg Bugbee	41.51001	-73.31999	8/23/2017	1.5	Silt	0	0	0	3	3	2	0	0	0	0	0
9	5	30		Greg Bugbee	41.50995	-73.31988	8/23/2017	2.0	Silt	2	0	0	4	0	2	0	0	0	0	0
9	6	40		Greg Bugbee	41.50988	-73.31980	8/23/2017	2.3	Silt	0	0	0	0	0	2	0	0	0	0	0
9	7	50		Greg Bugbee	41.50984	-73.31968	8/23/2017	3.0	Silt	0	0	0	0	0	2	0	0	0	0	0
9	8	60		Greg Bugbee	41.50976	-73.31959	8/23/2017	3.5	Silt	0	0	0	0	0	0	0	0	0	0	0
9	9	70		Greg Bugbee	41.50972	-73.31948	8/23/2017	4.0	Silt	0	0	0	0	0	0	0	0	0	0	0
9	10	80		Greg Bugbee	41.50970	-73.31935	8/23/2017	3.7	Silt	0	0	0	0	0	0	0	0	0	0	0
10	1	0.5		Amanda Massa	41.49032	-73.38113	8/4/2017	0.4	Organic	4	0	0	2	0	0	0	0	0	0	0
10	2	5		Amanda Massa	41.49035	-73.38115	8/4/2017	0.4	Organic	4	0	0	2	0	0	0	0	0	0	0
10	3	10		Amanda Massa	41.49041	-73.38119	8/4/2017	0.9	Organic	3	0	0	2	0	0	0	0	0	0	0
10	4	20		Amanda Massa	41.49047	-73.38129	8/4/2017	0.9	Organic	3	0	0	2	0	0	0	0	3	0	0
10	5	30		Amanda Massa	41.49057	-73.38138	8/4/2017	0.6	Organic	4	0	0	2	0	0	0	0	0	0	0
10	6	40		Amanda Massa	41.49066	-73.38145	8/4/2017	0.9	Gravel	2	0	0	4	0	0	0	0	0	0	0
10	7	50		Amanda Massa	41.49070	-73.38149	8/4/2017	1.0	Muck	2	0	0	4	0	0	0	0	0	0	0
10	8	60		Amanda Massa	41.49077	-73.38154	8/4/2017	1.2	Muck	2	0	0	4	0	0	0	0	0	0	0
10	9	70		Amanda Massa	41.49085	-73.38159	8/4/2017	1.2	Muck	0	0	0	4	0	0	0	0	0	0	0
10	10	80		Amanda Massa	41.49091	-73.38169	8/4/2017	2.1	Muck	2	0	0	4	0	0	0	0	0	0	0

Appendix Lake Zoar Transect Data (1 of 2)

Transect	Point	Distance from		Surveyor	Latitude	Longitude	Date	Depth (m)	Depth																
		Shore (m)	Point						Substrate	CerDem	EloNut	MyrSpi	NajFle	NajMin	PotBic	PotCri	PotFol	SagSpp	SpaSpp	StuPec	ValAme	ZosDub			
1	1	0.5		Greg Bugbee	41.42837	-73.23949	8/30/2017	0.2	Gravel	0	0	2	0	0	0	0	2	0	0	0	0	0	0	0	2
1	2	5		Greg Bugbee	41.42829	-73.23952	8/30/2017	0.8	Silt	0	0	0	0	0	0	2	0	2	0	0	0	0	0	4	2
1	3	10		Greg Bugbee	41.42831	-73.23956	8/30/2017	1.0	Silt	2	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2
1	4	20		Greg Bugbee	41.42827	-73.23965	8/30/2017	1.8	Silt	2	0	0	0	0	0	2	0	0	0	0	0	0	0	4	0
1	5	30		Greg Bugbee	41.42822	-73.23977	8/30/2017	2.6	Silt	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
1	6	40		Greg Bugbee	41.42816	-73.23989	8/30/2017	4.0	Silt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	7	50		Greg Bugbee	41.42806	-73.23994	8/30/2017	4.5	Silt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	8	60		Greg Bugbee	41.42807	-73.24009	8/30/2017	4.8	Silt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	9	70		Greg Bugbee	41.42804	-73.24022	8/30/2017	5.0	Silt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	10	80		Greg Bugbee	41.42802	-73.24033	8/30/2017	5.2	Silt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	1	0.5		Greg Bugbee	41.43692	-73.25126	8/29/2017	0.2	Gravel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
2	2	5		Greg Bugbee	41.43697	-73.25133	8/29/2017	0.2	Gravel	2	0	0	0	0	3	0	0	0	0	0	0	0	0	4	2
2	3	10		Greg Bugbee	41.43701	-73.25136	8/29/2017	2.3	Sand	0	0	0	0	2	3	0	0	0	0	0	0	0	0	4	2
2	4	20		Greg Bugbee	41.43712	-73.25141	8/29/2017	6.0	Silt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	5	30		Greg Bugbee	41.43719	-73.25141	8/29/2017	6.0	Silt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	6	40		Greg Bugbee	41.43731	-73.25139	8/29/2017	6.0	Silt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	7	50		Greg Bugbee	41.43741	-73.25143	8/29/2017	6.5	Silt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	8	60		Greg Bugbee	41.43744	-73.25140	8/29/2017	6.5	Silt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	9	70		Greg Bugbee	41.43754	-73.25143	8/29/2017	6.5	Silt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	10	80		Greg Bugbee	41.43766	-73.25150	8/29/2017	6.5	Silt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	1	0.5		Greg Bugbee	41.43726	-73.26639	8/30/2017	0.1	Gravel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	2	5		Greg Bugbee	41.43726	-73.26640	8/30/2017	1.0	Muck	2	2	0	0	2	0	0	0	0	0	0	0	0	0	3	3
3	3	10		Greg Bugbee	41.43736	-73.26637	8/30/2017	1.0	Sand	0	2	0	0	2	0	1	2	0	0	0	0	0	0	3	2
3	4	20		Greg Bugbee	41.43746	-73.26637	8/30/2017	1.0	Sand	0	2	2	0	2	0	1	2	0	0	0	0	0	0	4	2
3	5	30		Greg Bugbee	41.43755	-73.26640	8/30/2017	1.0	Sand	2	0	2	0	2	0	2	0	0	0	0	0	0	2	2	2
3	6	40		Greg Bugbee	41.43764	-73.26638	8/30/2017	1.2	Sand	2	0	2	0	2	0	2	2	0	0	2	2	0	2	0	2
3	7	50		Greg Bugbee	41.43773	-73.26642	8/30/2017	1.2	Sand	0	0	2	0	2	0	0	2	0	0	0	2	4	0	0	0
3	8	60		Greg Bugbee	41.43782	-73.26642	8/30/2017	1.3	Sand	2	2	2	0	2	0	1	2	0	0	0	2	2	0	0	0
3	9	70		Greg Bugbee	41.43790	-73.26643	8/30/2017	1.2	Sand	3	2	2	0	2	0	0	2	0	0	0	0	0	4	0	0
3	10	80		Greg Bugbee	41.43801	-73.26644	8/30/2017	1.3	Sand	3	3	2	0	2	0	0	0	0	0	0	0	0	3	0	0
4	1	0.5		Greg Bugbee	41.45311	-73.28162	8/30/2017	0.2	Gravel	0	2	0	0	2	0	0	0	0	0	0	0	0	0	2	0
4	2	5		Greg Bugbee	41.45308	-73.28163	8/30/2017	1.8	Sand	3	2	2	0	2	0	0	2	0	0	0	0	0	2	2	2
4	3	10		Greg Bugbee	41.45306	-73.28157	8/30/2017	2.3	Silt	4	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
4	4	20		Greg Bugbee	41.45299	-73.28147	8/30/2017	3.5	Silt	3	0	2	0	0	0	2	0	0	0	0	0	0	0	2	0
4	5	30		Greg Bugbee	41.45288	-73.28147	8/30/2017	4.6	Silt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
4	6	40		Greg Bugbee	41.45280	-73.28140	8/30/2017	4.5	Silt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	7	50		Greg Bugbee	41.45274	-73.28132	8/30/2017	4.7	Silt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	8	60		Greg Bugbee	41.45264	-73.28131	8/30/2017	4.7	Silt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	9	70		Greg Bugbee	41.45254	-73.28126	8/30/2017	4.3	Silt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	10	80		Greg Bugbee	41.45249	-73.28120	8/30/2017	3.8	Silt	0	0	2	0	0	0	0	2	0	0	0	0	0	0	0	2
5	1	0.5		Greg Bugbee	41.43198	-73.22740	8/29/2017	0.1	Sand	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	2	5		Greg Bugbee	41.43191	-73.22744	8/29/2017	0.3	Sand	2	0	2	0	0	0	2	0	0	2	0	0	0	0	0	0
5	3	10		Greg Bugbee	41.43189	-73.22743	8/29/2017	0.3	Sand	2	2	0	0	2	0	0	0	0	0	0	0	0	0	2	2
5	4	20		Greg Bugbee	41.43182	-73.22744	8/29/2017	0.3	Sand	0	0	3	0	0	2	0	0	1	0	0	0	0	0	0	0
5	5	30		Greg Bugbee	41.43176	-73.22743	8/29/2017	0.5	Sand	0	3	3	0	0	2	0	0	0	0	0	0	0	0	0	0
5	6	40		Greg Bugbee	41.43167	-73.22746	8/29/2017	1.2	Sand	2	3	3	0	0	0	0	0	0	0	0	0	0	2	0	0
5	7	50		Greg Bugbee	41.43158	-73.22750	8/29/2017	1.8	Sand	2	3	2	0	0	0	0	0	0	0	0	0	0	3	0	0
5	8	60		Greg Bugbee	41.43149	-73.22752	8/29/2017	1.2	Sand	2	0	3	0	0	2	0	0	0	0	0	0	0	0	0	2
5	9	70		Greg Bugbee	41.43138	-73.22756	8/29/2017	1.6	Sand	2	3	2	0	0	2	0	0	0	0	0	0	0	0	0	0
5	10	80		Greg Bugbee	41.43131	-73.22757	8/29/2017	2.3	Sand	0	2	2	0	0	3	2	0	0	0	0	0	0	0	0	0
6	1	0.5		Greg Bugbee	41.42498	-73.20623	8/29/2017	0.3	Gravel	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0

Appendix Lake Zoar Transect Data (2 of 2)

Transect	Point	Distance from			Depth																
		Shore (m)	Surveyor	Date	Latitude	Longitude	(m)	Substrate	CerDem	EloNut	MyrSpi	NajFle	NajMin	PotBic	PotCri	PotFol	SagSpp	SpaSpp	StuPec	ValAme	ZosDub
6	2	5	Greg Bugbee	41.42493	-73.20623	8/29/2017	0.3	Gravel	2	1	0	0	1	0	0	0	0	0	0	0	0
6	3	10	Greg Bugbee	41.42491	-73.20620	8/29/2017	0.4	Muck	2	3	0	0	2	0	0	0	0	0	0	0	0
6	4	20	Greg Bugbee	41.42480	-73.20621	8/29/2017	0.4	Muck	2	0	0	0	0	0	0	0	0	0	0	0	0
6	5	30	Greg Bugbee	41.42467	-73.20622	8/29/2017	1.0	Muck	2	2	2	0	2	0	0	0	0	0	0	0	0
6	6	40	Greg Bugbee	41.42464	-73.20621	8/29/2017	0.5	Muck	2	2	2	0	2	0	0	0	0	0	0	0	0
6	7	50	Greg Bugbee	41.42450	-73.20625	8/29/2017	0.5	Muck	2	2	2	0	2	0	0	0	0	0	0	0	0
6	8	60	Greg Bugbee	41.42440	-73.20621	8/29/2017	0.3	Sand	2	2	2	0	2	2	0	2	0	0	0	0	0
6	9	70	Greg Bugbee	41.42436	-73.20618	8/29/2017	0.3	Sand	2	0	0	0	0	0	0	2	0	0	0	0	0
6	10	80	Greg Bugbee	41.42424	-73.20617	8/29/2017	0.2	Sand	2	0	2	0	0	0	0	2	0	0	0	0	0
7	1	0.5	Greg Bugbee	41.41265	-73.20175	8/29/2017	0.1	Sand	0	0	0	0	0	0	0	0	0	0	0	0	0
7	2	0.5	Greg Bugbee	41.41268	-73.20170	8/29/2017	0.5	Sand	2	1	2	1	3	0	2	0	0	0	0	2	2
7	3	0.5	Greg Bugbee	41.41270	-73.20162	8/29/2017	0.8	Sand	2	0	2	2	3	0	2	2	0	0	0	2	2
7	4	20	Greg Bugbee	41.41274	-73.20152	8/29/2017	1.5	Sand	2	0	2	0	2	0	0	0	0	0	0	2	2
7	5	30	Greg Bugbee	41.41275	-73.20139	8/29/2017	2.1	Muck	0	0	0	0	0	0	0	0	0	0	0	0	0
7	6	40	Greg Bugbee	41.41288	-73.20133	8/29/2017	2.0	Muck	0	0	2	0	0	0	0	0	0	0	0	0	0
7	7	50	Greg Bugbee	41.41286	-73.20119	8/29/2017	2.3	Muck	0	0	4	0	0	0	0	0	0	0	0	0	2
7	8	60	Greg Bugbee	41.41285	-73.20109	8/29/2017	3.0	Silt	2	0	4	0	0	0	0	0	0	0	0	0	0
7	9	70	Greg Bugbee	41.41288	-73.20096	8/29/2017	3.0	Silt	2	0	3	0	0	0	0	0	0	0	0	0	0
7	10	70	Greg Bugbee	41.41295	-73.20084	8/29/2017	4.8	Silt	0	0	0	0	0	0	0	0	0	0	0	0	0
8	1	0.5	Greg Bugbee	41.39846	-73.19058	8/29/2017	0.3	Sand	2	0	0	0	0	0	0	0	0	0	0	0	0
8	2	10	Greg Bugbee	41.39845	-73.19053	8/29/2017	0.6	Sand	2	0	0	0	2	0	0	0	0	0	0	0	0
8	3	10	Greg Bugbee	41.39844	-73.19048	8/29/2017	0.6	Sand	2	0	0	0	0	0	0	0	0	0	0	0	0
8	4	20	Greg Bugbee	41.39846	-73.19038	8/29/2017	1.3	Gravel	2	0	2	0	2	0	2	0	0	0	0	0	0
8	5	30	Greg Bugbee	41.39848	-73.19024	8/29/2017	3.5	Silt	4	0	2	0	0	0	2	0	0	0	0	0	0
8	6	40	Greg Bugbee	41.39846	-73.19014	8/29/2017	4.5	Silt	4	0	0	0	0	0	0	0	0	0	0	0	0
8	7	50	Greg Bugbee	41.39853	-73.18997	8/29/2017	4.2	Silt	4	0	0	0	0	0	0	0	0	0	0	0	0
8	8	60	Greg Bugbee	41.39860	-73.18986	8/29/2017	3.6	Silt	4	0	0	0	0	0	0	0	0	0	0	0	0
8	9	70	Greg Bugbee	41.39859	-73.18975	8/29/2017	4.1	Silt	4	0	0	0	0	0	0	0	0	0	0	0	0
8	10	80	Greg Bugbee	41.39865	-73.18965	8/29/2017	5.0	Silt	0	0	0	0	0	0	0	0	0	0	0	0	0
9	1	0.5	Greg Bugbee	41.39186	-73.17437	8/29/2017	0.2	Gravel	2	0	0	0	0	0	0	0	0	0	0	0	0
9	2	5	Greg Bugbee	41.39181	-73.17440	8/29/2017	1.0	Muck	2	0	0	0	0	0	0	0	0	0	0	0	0
9	3	10	Greg Bugbee	41.39177	-73.17440	8/29/2017	0.9	Muck	2	0	2	0	2	0	0	0	0	0	0	0	0
9	4	20	Greg Bugbee	41.39171	-73.17450	8/29/2017	0.9	Muck	0	0	0	0	0	0	0	0	0	0	0	0	0
9	5	30	Greg Bugbee	41.39159	-73.17448	8/29/2017	1.5	Sand	2	0	0	0	2	0	0	0	0	0	0	0	0
9	6	40	Greg Bugbee	41.39153	-73.17459	8/29/2017	4.0	Silt	2	0	0	0	0	0	0	0	0	0	0	0	0
9	7	50	Greg Bugbee	41.39149	-73.17471	8/29/2017	4.5	Silt	3	0	0	0	0	0	0	0	0	0	0	0	0
9	8	60	Greg Bugbee	41.39141	-73.17478	8/29/2017	5.2	Silt	0	0	0	0	0	0	0	0	0	0	0	0	0
9	9	70	Greg Bugbee	41.39133	-73.17486	8/29/2017	6.0	Silt	0	0	0	0	0	0	0	0	0	0	0	0	0
9	10	80	Greg Bugbee	41.39125	-73.17492	8/29/2017	6.6	Silt	0	0	0	0	0	0	0	0	0	0	0	0	0
10	1	0.5	Greg Bugbee	41.38145	-73.17521	8/29/2017	0.1	Sand	0	0	0	0	2	0	0	0	0	0	0	1	1
10	2	5	Greg Bugbee	41.38152	-73.17520	8/29/2017	0.5	Sand	0	0	0	0	2	0	0	0	0	0	2	2	0
10	3	10	Greg Bugbee	41.38155	-73.17521	8/29/2017	0.5	Sand	0	0	0	0	0	0	0	0	0	0	0	0	0
10	4	20	Greg Bugbee	41.38165	-73.17525	8/29/2017	0.5	Sand	0	0	0	0	0	0	2	0	0	0	4	0	0
10	5	30	Greg Bugbee	41.38173	-73.17528	8/29/2017	1.0	Sand	0	0	0	0	0	0	2	0	0	0	3	2	0
10	6	40	Greg Bugbee	41.38182	-73.17533	8/29/2017	2.2	Sand	2	0	3	0	0	0	0	0	0	0	0	0	3
10	7	50	Greg Bugbee	41.38190	-73.17530	8/29/2017	3.0	Silt	3	0	0	0	0	0	0	0	0	0	0	0	0
10	8	60	Greg Bugbee	41.38199	-73.17538	8/29/2017	4.0	Silt	3	0	0	0	0	0	0	0	0	0	0	0	0
10	9	70	Greg Bugbee	41.38209	-73.17536	8/29/2017	4.2	Silt	2	0	0	0	0	0	0	0	0	0	0	0	0
10	10	80	Greg Bugbee	41.38219	-73.17537	8/29/2017	4.8	Silt	2	0	0	0	0	0	0	0	0	0	0	0	0



# Notes