

Windham Final 2019 Grant Report - Invasive Plant Control
Final Report Form – Due by January 16,2020

Date: 1/12/2020
 Grant Recipient's Name: Little Sebago Lake Association
 Contact Name: Pam Wilkinson
 Summer Address: PO Box 912, Windham, ME 04062
 Phone Number - Winter: 207-809-4706
 Phone Number - Summer: same
 Email address: pwilkinson@littelsebagolake.com

Table 1. Actual Cash Expenses: List paid staff hours, rate, and total costs by category (e.g. divers). Staff with identical duties and hourly rate should be grouped together. List ALL cash expended for your total project whether from the DEP grant or other sources (e.g., cash match).

Expenses: divers, boat captain, surface support, other goods and services).	Total # hours	Hourly Rate	Column A	Column B	Cash Match: Columns A - B = Cash Match	Match source (Town, Association, Private, etc)
			Total Costs	Grant \$ (Total Costs Covered by		
Divers	228	\$50.00	\$11,375	\$7,798	\$3,577	DEP
Surface Support / Crew	410	\$20.00	\$8,205	\$8,000	\$205	Town Gray
Survey	76	\$20.00	\$1,525		\$1,525	LSLA
Employer FICA			\$1,615		\$1,615	LSLA
Payroll Fees			\$145		\$145	LSLA
Workers Comp			\$574		\$574	LSLA
Insurance			\$1,962		\$1,962	LSLA
Registration			\$159		\$159	LSLA
Equipment/Boat Dock			\$1,714		\$1,714	LSLA
Dredge Maintenance			\$11,768	\$5,000	\$6,768	Town Windham
Gas			\$389		\$389	LSLA
Materials & Supplies			\$2,035		\$2,035	LSLA
Educational Materials			\$2,335		\$2,335	LSLA
Fund Raising			\$301		\$301	LSLA
Outside Labor / contract			\$80		\$80	LSLA
TOTAL CASH EXPENSES for the YEAR			\$44,183	\$20,798	\$23,385	

Table 2. Volunteer time and Donations: group volunteer duties by category: Divers, Boat Captain, Surface Support. Specify Other, e.g., outboard service, storage, barrier cleaning, donation of collection bags, etc.

Volunteer Categories: Divers = \$50/ hour; other volunteers = \$23.12/hour	Number of Volunteers	Total Number of Hours	Volunteer Match	Non-cash donations of goods and	Total Value of Volunteers and Donations	Match Source (Town, Association, Private, Other Donation, etc)
Diver(s)			\$0			
Boat Captain(s)			\$0			
Surface Support			\$0			
Coordinators	2	320	\$7,398	\$0		
Survey / Responder to Milfoil	1	32	\$740	\$0		
Other (specify):			\$0	\$0		
TOTALS	3	352	\$8,138	\$0	\$8,138	

Table 3. Project Financial Summary: Lines 1 through 3 of table will automatically fill using info from above Tables.

Total Match Amount	\$31,523
Total Grant Amount Spent	\$20,798
Total Project Cost	\$52,321

Summary of 2019 Plant Removal

Lake Name: Little Sebago Lake Town: Gray/Windham Contact Person and email: Pam Wilkinson
 Plant Species removed: Variable Milfoil Disposal Site: Town of Gray Transfer Station
 Diver Names: Jim MacNaught Jeff Toorish

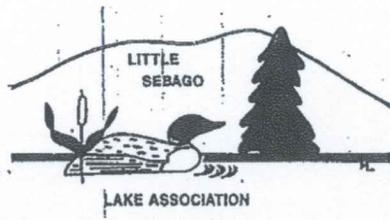
Site name or number: Use name/number from grant application; please indicate if new site and show location on map	Benthic Barriers: Area Covered in square feet	Manual removal (includes DASH)		Observed condition of site at end of 2019 season. Please describe.	Did removal in 2019 meet the objective set in grant application? Please explain.
		Amount removed: Specify unit of	Approximate area cleared		
GRAY-UPPER BASIN LITTLE SEBAGO LAKE: SITES-UB1_TB,UB2 MW,UB3 WS,UB4 TI,UB5 SC,UB5A SW,UB6 E,UB7 RC,UB8 KC,UB9 HC,UB10 UC		25 ONION BAGS	LITTORIAL ZONE OF UPPER BASIN - APPROX 220,000 SQ FEET SURVEYED AND REMOVED	INDIVIDUAL SITES THAT USED TO BE ARE GETTING BLENDED TO A LONGER STRETCH TO SEARCH FOR PLANTS SITES WILL BE COMBINED IN 2020 IN CERTAIN AREAS OF THE LAKE	2018 COUNT WHICH INCLUDED THE UPPER NARROWS WAS 50 BAGS. COMBINATION IN 2019 IS 41 BAGS YES-COUNT IS GOING DOWN.
GRAY-UPPER NARROWS: UN11, UN12 MW,UN13 ME,UN14 SW,UN15 SE		16 ONION BAGS	LITTORIAL ZONE APPROX 900,000 SQ FT SURVEYED		COUNT INCLUDED WITH THE UPPER BASIN YES- COUNT IS GOING DOWN.
GRAY-MIDDLE LAKE: M31MC,M32 BC,M33 BI,M34 FC,M35 LI, M36 MC,M37 SI,M38 LPSW,M40 GI,M42 NPI		13.5 ONION BAGS	INDIVIDUAL AREAS, MOSTLY COVES AND AROUND ISLANDS	REVISITED 2018 AREAS AND TWO NEW AREAS REQUESTED BY LAKE RESIDENTS. #37 SI,M38 LPSW AND M42 NPI LIMITED PLANTS FOUND EACH SITE. PREVENTATIVE EFFORTS TO AVOID PATCHES GROWING TO DENSE CONDITIONS	YES, LAKE RESIDENT INVOLVEMENT ESSENTIAL TO REACH AREAS WE ARE UNABLE TO GET TO AMOUNTS INCREASED DUE TO ADDED AREAS FOUND
MIDDLE LAKE NEW SITES: M37 SI, M38 LPSW,M40 GI, M42NPI				TWO AREAS REPORTED BY LAKE RESIDENTS, 2 AREAS SURVEY AND PLANTS FOUND	EDUCATIONAL OUTREACH IS WORKING. RESIDENTS ARE MARKING WITH NOODLES OR ANYTHING AVAILABLE AND REPORTING YES- EDUCATION AND INCREASED SURVEYS FIND NEW AREAS.
WINDHAM LOWER BASIN:LB21N, LB21A SEN, LB22 RC, LB24 RSE,LB25 RSW,LB26 SPC, LB27 SPS,LB28 TG, LB29 SBCS,LB30 VC, LB31 BCW, LB32 ES, LB33 DAM		109.5 ONION BAGS	PLANTS FOUND IN COVES, LITTORAL ZONES AND IN A DEEPER SECTION WHERE FRAGMENTS DROP FROM THE LOWER	SLIGHT INCREASE FORM 2018 OF 16 BAGS. TWO NEW AREAS OF REMOVAL. NEW AREAS LB21A, LB30 VC, LB31,LB33	NEW AREAS FOUND DURING SURVEYS. MILFOIL IS SPREAD DUE TO CURRENTS FROM NARROWS HEADING TO DAM AND OUT FLOWS. MAINTAINING THIS AREA HAS ITS DIFFICULTIES. SURVEYS IN THE BEGINNING OF THE YEAR FOUND LITTLE GROWTH. MID AUGUST GROWTH ESCALATED DUE TO LOWER WATER AND INCREASED SUNLIGHT. PERHAPS INCREASE NUTRIENTS FROM THE WATER FLOW.

Narrative: Provide additional notes here regarding outcome of 2019 removal, effectiveness or techniques and plans for 2020:

After the standard meeting in June with the crew for safety and updated protocols, we began our season the week after the Forth of July. June was rainy and surveying was postponed due to high water table, dark water conditions that did not allow the plant to be visible. The team removed milfoil in sensitive boat areas first and then begin removal in the lower lake before proceeding to the middle and upper lake. After surveying several areas the operation was encouraging with minimal amounts of milfoil removed. Our diver said he is getting a lot more exercise swimming due to the plants being sparcly located. It was encouraging as well in the middle lake coves and upper lake areas. Our team responded to lake residents who called to report suspicious plants. We are thankful people are becoming more aware. Some reports were found to be native plants growing quickly and taking over certain areas that lake residents wanted gone. We explained the native plants keep the invasive milfoil from taking place. Due to the awareness of the lake residents we did find several new areas with minimal growth. Unfortunately , in mid August the conditions changed. With the drop of the lake level, warmth of the water and sunlight, some areas rebounded. These areas produced 6 to nine bags of milfoil. This is a drastic reduction from the past but areas that did not previously have plants now were showing growth. The diver in some area was amazed how large the root growth was from plants that were not there weeks ago. It is believed that in some areas the bottom of the lake was nutrient filled and caused this. At the end of the season we found more growth and circled around the lake trying to hit all spots before ending the season. We may find that we will need to shift the operation by doing surveys when it is productive to find the plants and to extend the operation into October weather permitting. We are finding that the consistency of having the same people doing the work allows for better communication and productivity. We are still in the midts of finding a better mapping system and have an outside vegetative survey to show the differences with the prior survey in 2003/2005 and to quantify and check areas of the lake that we have not gone to. DEP visited our operation at the end of the year and were pleased with the results. They stated that other lakes were experience end of year blooms.

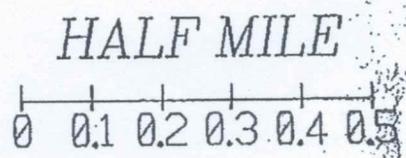
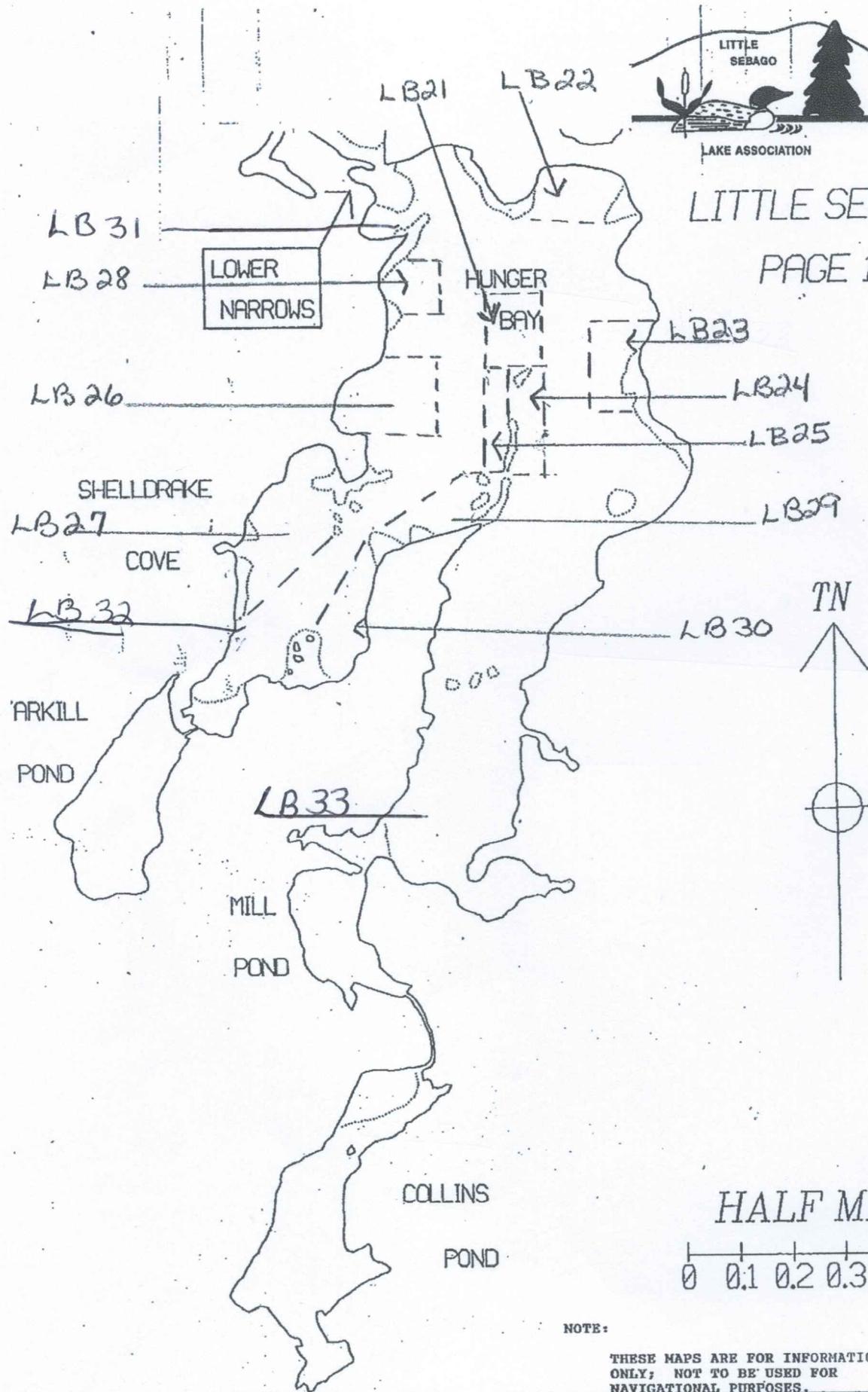






LITTLE SEBAGO

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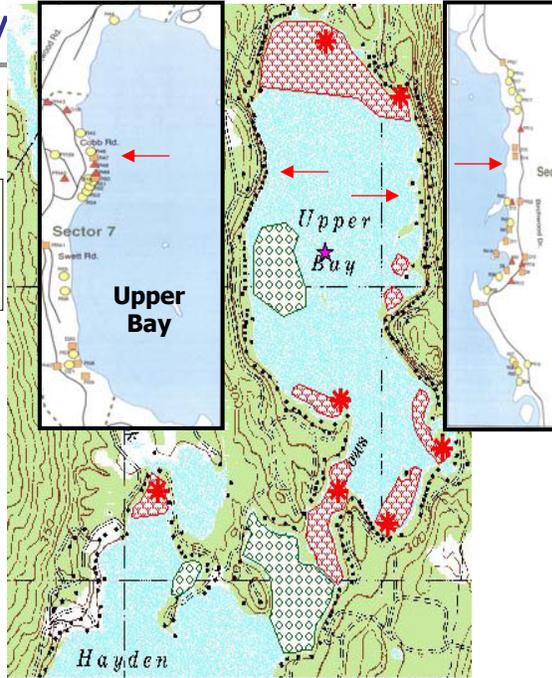
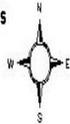


NOTE: THESE MAPS ARE FOR INFORMATION ONLY; NOT TO BE USED FOR NAVIGATIONAL PURPOSES.

Upper Bay

Legend		Site Land Use	
Impact to Lake		D	Driveway
High	▲	R	Residential
Medium	■	PR	Private Road
Low	○	B	Beach
		BA	Boat Access
		Log	Logging
		A	Agricultural
		CS	Construction Site
		---	Sectors
		▭	Watershed
		—	Roads
		—	Streams
		▭	Towns
		▭	Lake

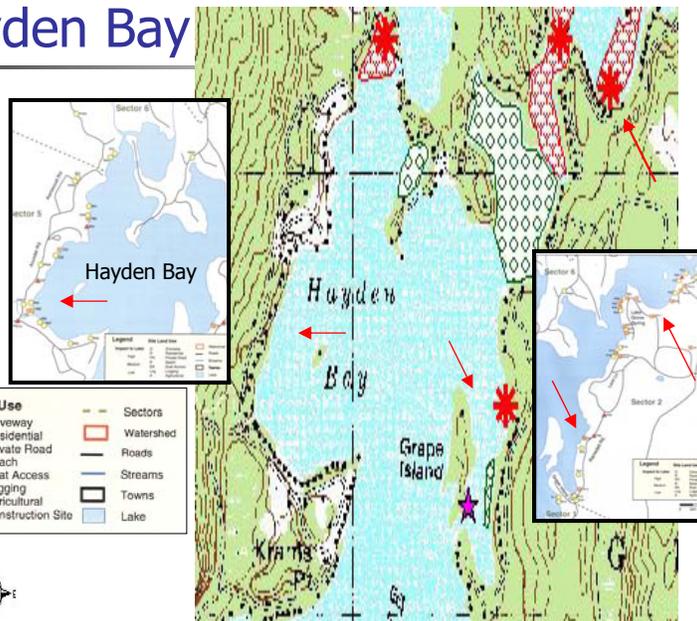
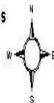
- ★ Individual Plants/Clumps
- ★ High Density Area
- Approximate Extent
- common
- occasional



Hayden Bay

Legend		Site Land Use	
Impact to Lake		D	Driveway
High	▲	R	Residential
Medium	■	PR	Private Road
Low	○	B	Beach
		BA	Boat Access
		Log	Logging
		A	Agricultural
		CS	Construction Site
		---	Sectors
		▭	Watershed
		—	Roads
		—	Streams
		▭	Towns
		▭	Lake

- ★ Individual Plants/Clumps
- ★ High Density Area
- Approximate Extent
- common
- occasional



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	
1		Upper Basin Narrows Gray		Twin Brooks Gray	Beaver Cove Gray	Mumford Cove Gray	Bean Is Gray	Farwell Cove	Lyon Pt	Spider Is	Grape/ Policeman Island	Lower Basin- Windham		Bag Totals	Amount Spent	In-Kind Donated Time Calculation	Total Project Cost	
2	2004-2005			milfoil removed by hand, actual amount not recorded														0
3	2006		1200	lost info found in 2016 thru DEP, only totals given, no breakdowns									1200	62516.5	9650	72,166.50		
4	2007	271		55	91	133						710		1260	67296.36	9255	76551.36	
5	2008	215		62	63	97						1332		1769	55651.9	9260	64911.9	
6	2009	390		58	9	296						967		1720	51580.26	13786	65366.26	
7	2010	187		54	2	47						1491		1781	67265.6	17046.42	84312.02	
8	2011	178		17	7	16						500		718	48350.18	12466.32	60816.5	
9	2012	86.5		50	16	20.5	3					954		1130	46253.82	13300.68	59554.5	
10	2013	314.5		25.75	49	33.5	3					760.75		1186.5	51507.84	13909.84	65417.68	
11	2014	180.25		54.5	15	28						353		630.75	43926.33	13000.00	56926.33	
12	2015	93		11	50	71						164.5		389.5	32233.42	9246.00	41479.42	
13	2016	52.5			23.5	34						126.5		236.5	28143.76	9325.16	37468.92	
14	2017	38.5		2	10	1	2	0.25				130		183.75	28,814.05	8,310.90	37124.95	
15	2018	48.25		2	16	2	0	0.25	0.25	0.25	0.25	93		162.25	36186.47	8200.00	44386.47	
16	2019	41			3	4	0	0		0.5	6	109		163.5	44183.45	8138.00	52321.45	
17		2095.5	1200	391.25	354.5	783	8	0.5	0.25	0.25	0.25	7690.75		12524.25	663909.94	154894.32	818,804.26	
18																		
19	Each bag equals approx 20 lbs dry weight. To date approx 125 tons removed over 16 years																	