





Agenda

Pre-Business Meeting: Review of Starry Stonewort Situation

- Introduction of LID Board and DNR Representative (Scott Palmer)
- Timeline and Initiation of DNR action (Scott Palmer)
- Review response plan, current results, and follow up (Jim Bartelme/Scott Palmer)
- Questions and Discussion

Grand Lake Improvement District Annual Meeting

- Meeting called to order
- Approval of 2016 Annual Meeting Minutes
- LID Financial Report & 2018 Budget (Scott Palmer)
- Long Term Commitment (Jim Bartelme)
- Review of 2017 LID Activities (Jim Bartelme)
- Water Quality Measurements for 2017 (Paul Ludwig)
- Stearns County COLA update (Jim Bartelme)
- 2017 Membership Directory Update/Ed Zapp map
- Election of Board Members to Replace Expiring Terms

Grand Lake Area Association (Jane Bartelme)

Grand Lake Starry Stonewort Timeline

- **August 5th**
 - Starry Trek activity, which was sponsored by the Stearns County COLA and the U Of M, resulted in suspicious Starry Stonewort sample discovered at the Grand Lake Access
- **August 7th**
 - Samples from Starry Trek delivered to DNR Sauk Rapids Office
- **August 10th**
 - DNR conducted meander rake-toss survey in the access area and the littoral zone around the lake
- **August 11th**
 - DNR confirmed that sample found in Grand Lake was Starry Stonewort and confined to the access area by the DNR
- **August 13th**
 - Point Intercept Vegetation Survey that was previously scheduled by the LID confirmed Starry Stonewort was confined to the access area.
- **August 17th**
 - DNR met with LID Board to present “Response Plan”
- **August 21st**
 - DNR received approval to close access from U.S. Fish & Wildlife Dept.
- **August 23, 24, and 25th**
 - DNR Divers pull Starry Stonewort including Rhizoids & Bulbils

DNR Response Plan

- Response Plan was developed by Ty Rihiluoma (Sauk Rapids) with consultation from Tim Plude from the DNR, and Dr. Dan Larkin from the University of Minnesota with special thanks to Heidi Wolf.
 - Access Closed Wednesday, and Thursday for the safety of the DNR Divers.
 - DNR Divers pulled all material that was found, including below-ground rhizoids and bulbils and removed in mesh bags.
 - 250 lbs removed on Wednesday, 8/23
 - 25 lbs removed on Thursday, 8/24
 - No Starry Stonewort was found on their final inspection of the area.
- DNR will continue to monitor the site to determine success.

Grand Lake
Point-Intercept Survey
August 13, 2017
Cold Spring, MN (Stearns County)
DOW# 73005500



AIS 
Consulting Services

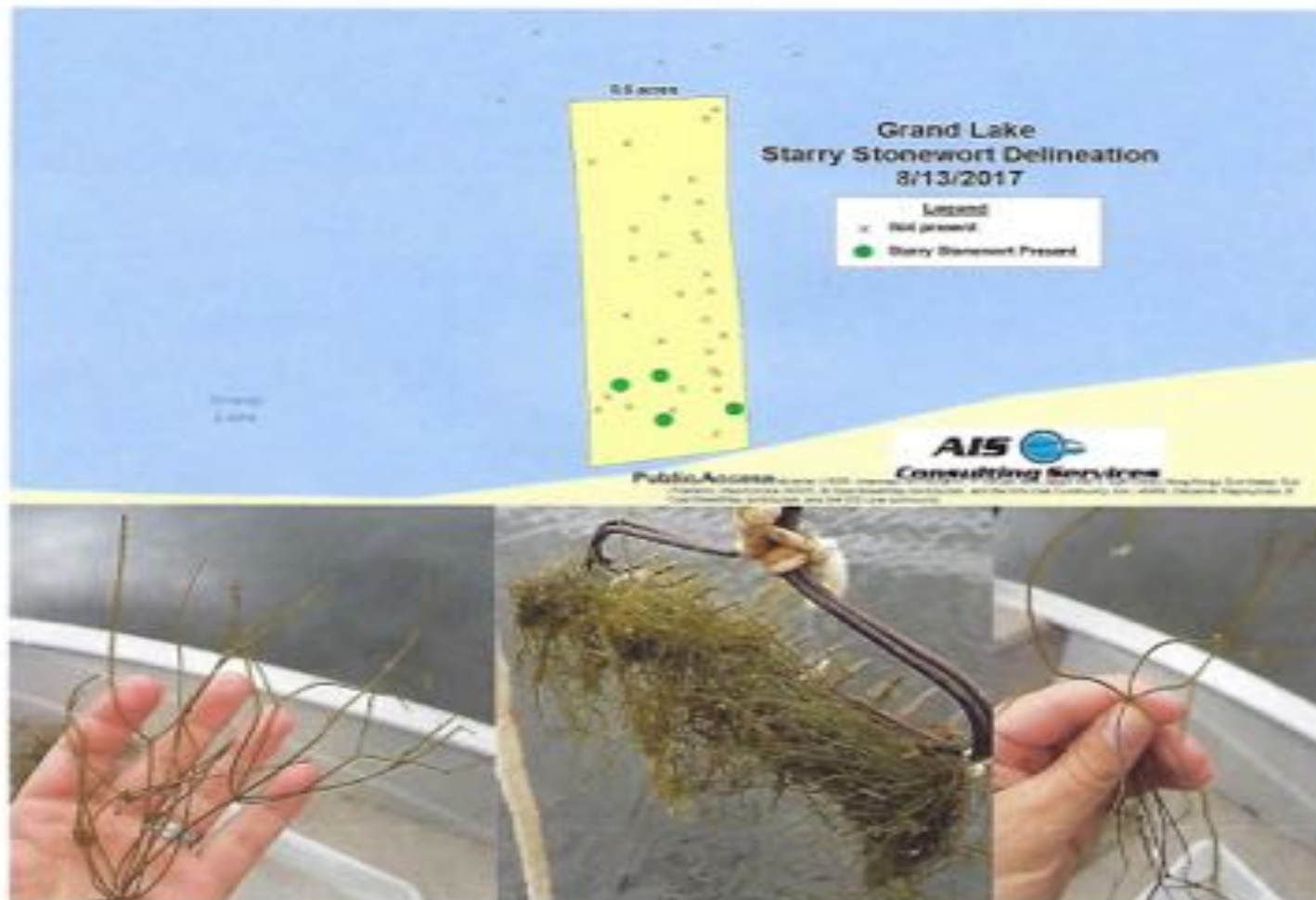
(320) 492-8582 protectyourlake@gmail.com
www.facebook.com/AISConsultingServices

Preliminary Report

August 24, 2017

Starry Stonewort

The distribution of Starry Stonewort around the public access area where it was discovered was further delineated by AIS Consulting Services on August 13, 2017. Dense emergent vegetation can be found on each side of the public access, leaving an open channel out to the main lake. This open channel is roughly 0.5 acres. Within this half-acre area, a rake was tossed 38 times throughout this location to assess the distribution of the invasive plant. It was found in four locations, all near each other and just out from the public access dock. The population appears to be contained to this area, as no further plants were found during the point-intercept survey, however, no searching by us was conducted in the dense emergent vegetation found on each side of the public access channel. The map below shows areas where vegetation was sampled, and the areas where Starry Stonewort was confirmed to be present.



Vegetation Population

Common Name	Scientific Name	% Occurrence
Submersed Plants		
Muskgrass	<i>Chara sp.</i>	52.0%
Coontail	<i>Ceratophyllum demersum</i>	38.0%
Flat Stem Pondweed	<i>Potamogeton zosteriformis</i>	13.5%
Sago Pondweed	<i>Stuckenia pectinata</i>	8.8%
Clasping Leaf Pondweed	<i>Potamogeton richardsonii</i>	8.2%
Narrow Leaf Pondweed ¹	<i>Potamogeton sp.</i>	7.6%
Nitella	<i>Nitella sp.</i>	7.0%
Curlyleaf Pondweed	<i>Potamogeton crispus</i>	6.4%
Bushy Pondweed	<i>Najas flexilis</i>	5.9%
Variable Pondweed	<i>Potamogeton gramineus</i>	4.1%
Northern Watermilfoil	<i>Myriophyllum sibiricum</i>	4.1%
White Stem Pondweed	<i>Potamogeton praelongus</i>	3.5%
Canada waterweed	<i>Elodea canadensis</i>	0.6%
Illinois Pondweed	<i>Potamogeton illinoensis</i>	0.6%
Wild celery	<i>Vallisneria americana</i>	0.6%
White-water buttercup	<i>Ranunculus aquatilis</i>	0.6%
Starry Stonewort ²	<i>Nitellopsis obtusa</i>	Present

Emergent		
Wild Rice	<i>Zizania palustris</i>	2.3%
Yellow waterlily	<i>Nuphar variegata</i>	1.2%
Bulrush	<i>Schoenoplectus sp.</i>	0.6%

Questions?

Grand Lake Improvement District Annual Meeting



LID Financial Report

Revenue	
January 1, 2016 Balance	\$32,457.88
General Property Tax	\$7,399.54
Interest Earnings	\$78.00
Total Revenue	\$39,935.42
Expenses:	
Continental Press (half of newsletter expense)	\$174.49
Lake Management, Inc. (curley leaf pondweed tx)	\$12,263.20
City of Rockville (expense to manage LID reports)	\$103.17
Total Expense	\$12,540.86
Total Revenue	\$39,935.42
Total Expenses	\$12,540.86
August 17, 2017 Balance	\$27,394.56

Long Term Commitment

- Grand Lake Improvement District will need to budget for long term control initiatives for the foreseeable future, or until a solution is found to eradicate Starry Stonewort.
 - **Funding Sources**
 - LID tax assessment
 - Stearns County AIS funds
 - DNR Grants
 - Lake Association Funding and/or Donations
 - Private funding of individual lake fronts properties
 - **Coordination with various experts and organizations**
 - DNR
 - University of Minnesota
 - Stearns County AIS Committee
 - Stearns County COLA
 - MNCOLA
 - MN Lakes and Rivers Advocates

2018

Proposed Budget Discussion

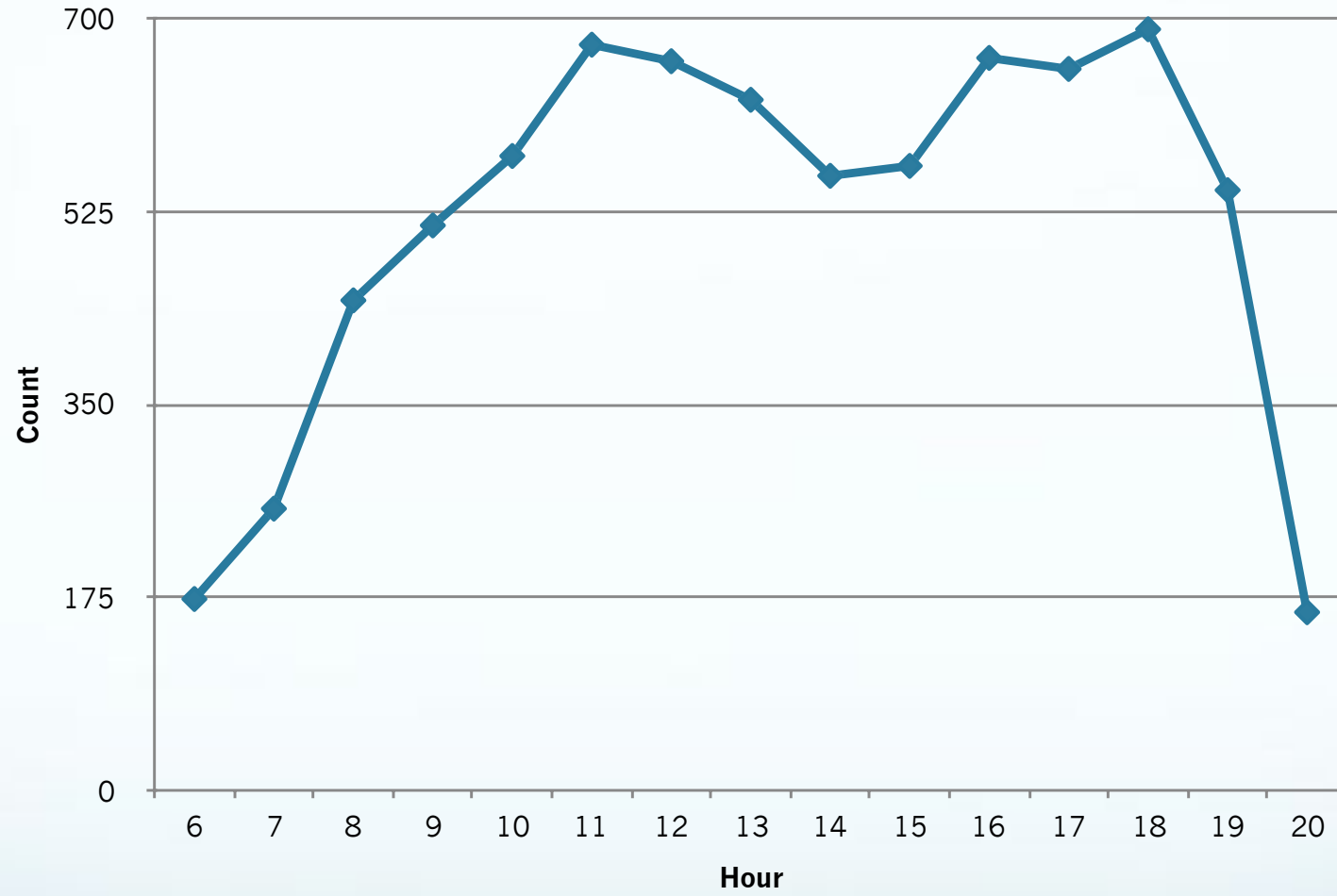


- **Expanded Watercraft Inspections** fully funded by the Stearns County AIS funds (\$8400.00)
 - Increased weekend and holiday inspections to 10 hours per day.
 - Added Friday inspection beginning July and ending August
- **Zebra Mussel Inspection Plates** are monitored by LID board members
- Continued **treatment of Curley Leaf Pondweed** partially funding by DNR Grant. (\$2800.00 DNR grant plus \$12,000.00 LID funds)
- Stearns County Soil and Water has offered consultation and assistance to Eddie's on Grand for any future **Shoreline restoration projects.**
- Monitoring of Access by **ILID Video Camera and Audio Message**

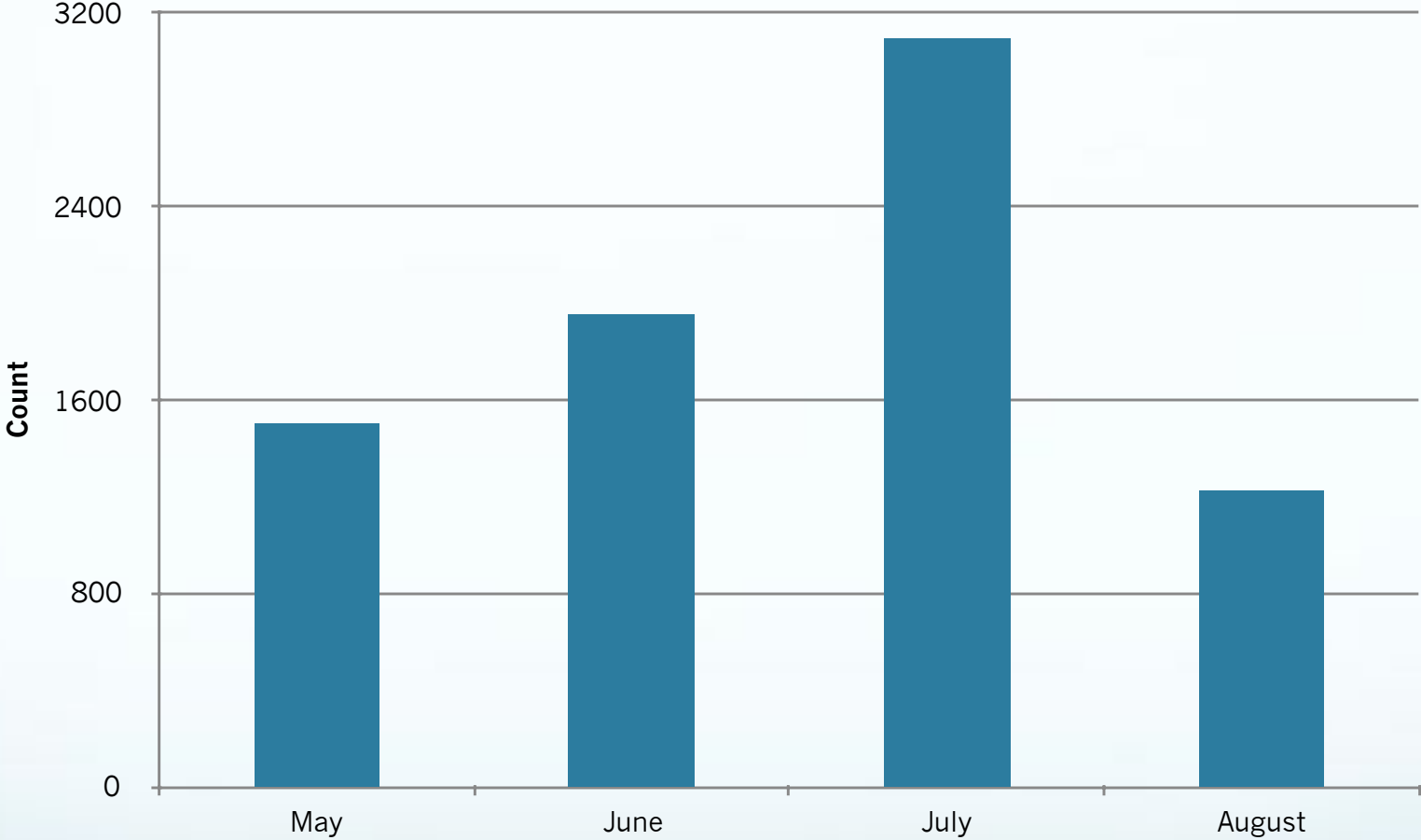
Grand Lake ILID Data

- Date Installed = 5/7/2017
- Videos Captured Through 8/21 = 7773
- Videos Reviewed = 729
- % of Videos that were launches = 23.7%
- Estimated Total Launches = 1844 through 8/21

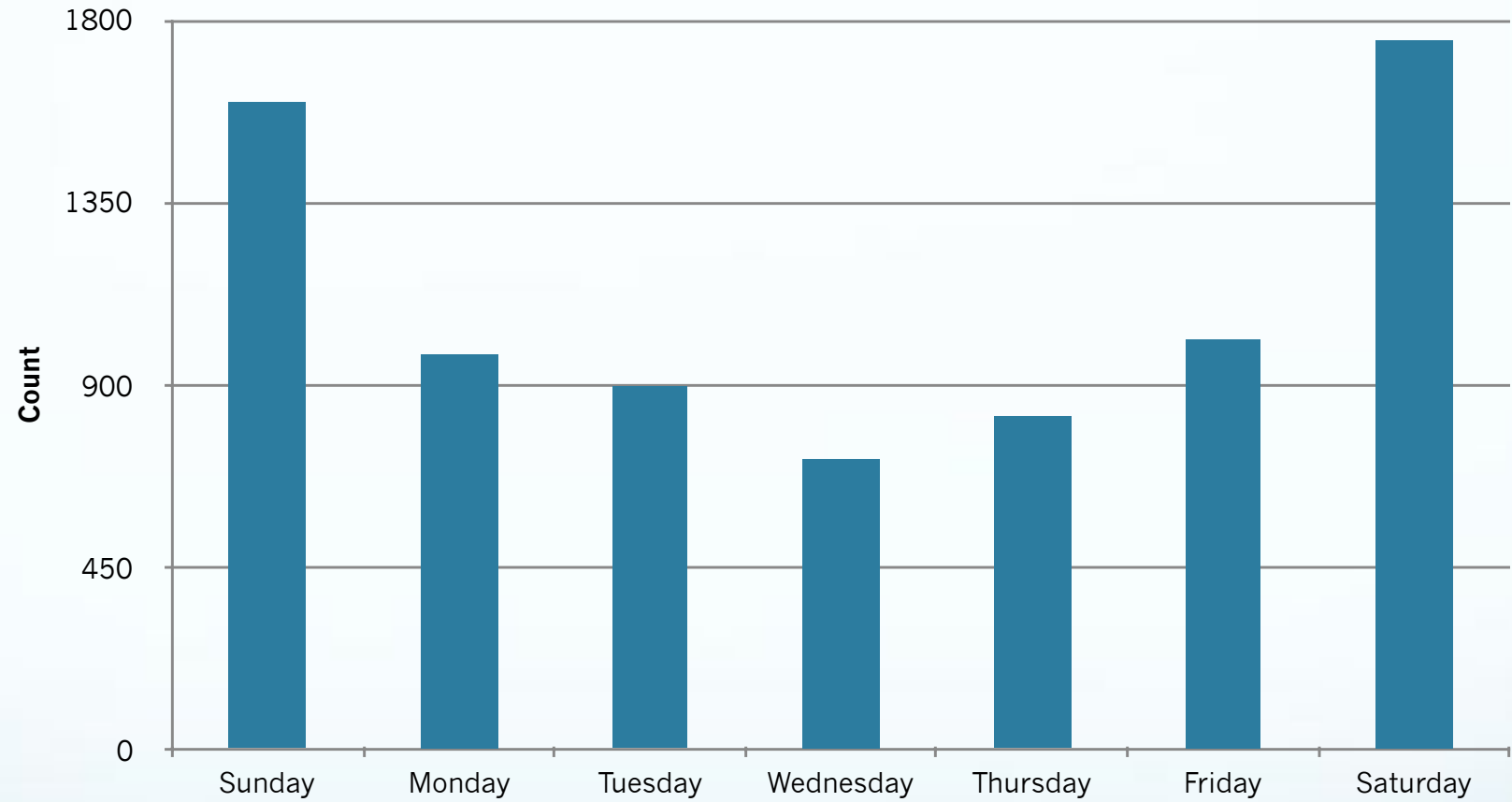
2017 Grand Lake Launch Activity



2017 Grand Lake Launch Activity



2017 Grand Lake Launch Activity



Grand Lake Water Quality Measurements

- Paul Ludwig





COLA & AIS Committee Update

- Hosted Stearns County Committee **AIS RFP** meeting to educate lake associations on how to apply for AIS grants.
- AIS Committee evaluated and awarded Grants to 24 lake associations to fight AIS (Grand Lake Received \$8,400)
- Expanded memberships **to private resorts**
 - 24 resorts identified and invited to the meeting **March 25th meeting** at Bug Bee's Resort for AIS Training.
 - 12 resorts had private lake accesses
 - DNR Clean Drain Dry signage provided for each access
- Participated in **MNCOLA** meetings, activities, and provided input to legislative agenda through paid MNCOLA lobbyists.
- Printing 7000 **Shoreland Homeowner's Guide to Lake Stewardship** that will be distributed to all Grand Lake Residents & COLA members.
- Continue to communicate to all members pertinent Information from the **DNR, Legislature, best practices**.
- Coordinated **Starry Trek** Activity that resulted in discovery in Grand Lake

Discovery of Starry Stonewort

- Statewide Starry Trek August 5th
 - Stearns County Participation Coordinated by Stearns County COLA
 - 13 lakes surveyed
 - Big Fish
 - Horseshoe Lake
 - Cedar Island Lake
 - Sauk River Lions Park
 - Big Lake
 - Big Watab
 - Grand Lake
 - Clearwater Lake-Bob Bay
 - Clearwater Lake – Black Pool
 - Goodners Lake
 - Kraemer Lake
 - 13 Volunteers Participated divided into 5 groups