**Budget Summary**

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**EOR AIS Program Management Costs**

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**Budget Notes**

*District-wide budget line items include General Program Mgmt, Comprehensive Plan & Policy Development, Early Detection & Rapid Response, and AIS Prevention at Boat Launch Sites*
Moody Lake
Management Narrative

**Aeration system**: The winter aerator was activated for the season on January 8, 2018 and will remain active until all ice has melted on the lake. After deactivating the system, District and EOR staff will canoe around Moody Lake and collect each of the thin ice signs. The purpose of the aeration system is to keep Moody Lake’s dissolved oxygen levels above the thresholds needed to support game fish species over the winter, which will help keep rough fish populations in check.

**Curly-leaf pondweed (CLP)**: The District has not budgeted for curly-leaf pondweed management on Moody Lake in 2018. In 2015 the District was notified by the DNR that the external phosphorus load to Moody Lake should be addressed before internal loading from CLP is managed via chemical treatment. This is largely due to the fact that Moody Lake is classified as a Natural Environment Lake (this is unlike most other District lakes which are classified as Recreational Development or General Development). District staff plan to resume conversations with the DNR about managing Moody Lake curly-leaf pondweed now that the Moody Lake Wetland Rehabilitation project is nearing completion and the alum treatment will likely occur in the next year.
## Moody Lake Management

### Moody Lake 2018 Activities

<table>
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<tr>
<th>Curly-Leaf Pondweed</th>
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<th>Total Expense</th>
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<th>May</th>
<th>June</th>
<th>July</th>
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<table>
<thead>
<tr>
<th>Rough Fish Management</th>
<th>Work Task</th>
<th>2017 Budget</th>
<th>Grants</th>
<th>BWS</th>
<th>Other</th>
<th>Total Expense</th>
<th>Timeline</th>
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### 2018 Work Plan and Budgeting

*Note: Aeration system dollars removed because not under AIS Program in budget (under 3010 - Operations and Maintenance)*

#### Moody Lake Water Quality Goals

<table>
<thead>
<tr>
<th>Water quality rating at or above</th>
<th>2020 Goal</th>
<th>2030 Goal</th>
<th>2040 Goal</th>
<th>Preliminary 2017 Data</th>
<th>5-Year Average</th>
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<tr>
<td>Comfort Lake - Forest Lake Watershed District</td>
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<td></td>
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</table>

| Mean summer phosphorus concentration below (µg/L) | 60 | 40 | 40 | 86 | 102 |
| Mean summer secchi depth at or above (ft)       | 3.3 | 4.6 | 4.6 | 1.9 | 2.6 |
Curly-leaf pondweed (CLP): The 2018 budget contains $5,000 for AIS Management on Bone Lake including invasive plant surveys and treatment. Factoring in the cost of the Eurasian watermilfoil surveys, $2,800 is left for surveys and management of curly-leaf pondweed on Bone Lake. This will cover the expense of Blue Water Science performing delineation and assessment surveys ($2,100) and provide a remaining $700 for public notice and herbicide management. Staff received 2018 herbicide application cost quotes from applicators, and estimates that the remaining budget would be sufficient to fund chemical management of up to two acres of CLP. For reference, 3.89 acres of CLP were treated in 2017 and zero acres were treated in 2016. Blue Water Science plans to perform a delineation survey after spring ice-off.

Eurasian watermilfoil (EWM): As with all other District lakes, the 2018 budget does not contain any funding for Eurasian watermilfoil treatment. The District will still pay for Blue Water Science to conduct delineation and assessment surveys. In 2017, the District did not treat any EWM on Bone Lake. In 2016, the District treated 0.69 acres of EWM.

Fish barriers: Since November 14th, the Bone Lake fish barriers have been completely opened in anticipation of spring snow runoff. The barriers will start to be actively managed once the surface water temperature of Bone Lake is 55 degrees F or higher and the lake level is less than 908.6 feet. The latest stop log information can be found using this link: Bone Lake Fish Barrier Operations Log.

Rough fish management: The 2018 budget does not contain any funding for rough fish management on Bone Lake. Observations of staff and lake homeowners have indicated that the carp population appears to be declining since the installation of the inlet and outlet fish barriers. Staff has been in communication with the DNR East Metro Fisheries Supervisor in order to coordinate fish survey scheduling and efforts. The DNR typically performs fish surveys on a 5-6 year rotation (except for Forest Lake which is on a 2-year rotation). The upcoming survey schedule for Bone Lake is as follows: June 2018 – standard survey, June 2021 – gill net only survey, June 2024 – standard survey, June 2027 – gill net only survey. Surveys are performed more frequently on Bone Lake than many other District lakes since the DNR stocks Bone Lake with walleye.

Zebra mussels: A zebra mussel sampling plate will be deployed at one private dock on Bone Lake in 2018. No zebra mussels have been detected in Bone Lake to date.

Watercraft inspections: An estimated total of $9,000 is available from the CLFLWD budget and project partners to support the 2018 watercraft inspection program on Bone Lake. This would support up to 450 hours of inspections, which can be compared to last year’s total of 315 paid inspection hours. Inspector shifts will prioritize weekend and holiday hours to ensure that program funds are being spent efficiently. The inspection program will run from mid-May to mid-October.

3/15/2018
## Bone Lake Management

### Bone Lake 2018 Activities

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<thead>
<tr>
<th>Work Task</th>
<th>CLFLWD Local Grants</th>
<th>BWS</th>
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<th>Total Expense</th>
<th>Timeline</th>
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### 2018 Work Plan and Budgeting

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### Bone Lake Water Quality Goals

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### 2017 Work and Status
- CLP delin & assessment: Final report received (Not approved yet)
- CLP treatment: 3.89 acres treated on May 12, 2017
- EWM delin & assessment: Final report received (Not approved yet)
- EWM treatment: No treatment occurred in 2017
- Watercraft inspections: 315 hours and 277 inspections in 2017
- Zebra mussel early detection: No zebra mussel sightings in 2017
- Common carp: Little spawning activity observed in 2017

### 2018 Work and Status
- CLP delin & assessment: Plan for Blue Water Science (BWS) to perform
- EWM delin & assessment: Plan for BWS to perform
- Watercraft inspections: Goal for 450 inspection hours in 2018
- Zebra mussel early detection: Work with volunteer to monitor
- Common carp: Monitor for spawning activity; initiate harvest if feasible

*Figures in italics are cost estimates/haven't been invoiced yet

*Estimate can treat approx. 2 acres of CLP with current budget breakdown*
Curly-leaf pondweed (CLP): The 2018 budget does not contain any funding for curly-leaf pondweed management in Little Comfort Lake. As in 2017, staff will perform a CLP survey in May to confirm that it continues to grow at primarily light densities and that chemical management is not needed.

Zebra mussels: A zebra mussel sampling plate will be deployed at one private dock on Little Comfort Lake in 2018. Staff have not heard any reports of zebra mussels in Little Comfort Lake yet, although it is listed as infested by the DNR due to its connectivity with Comfort Lake.
## Little Comfort Lake Management

### Little Comfort Lake 2018 Activities

<table>
<thead>
<tr>
<th>Curly-Leaf Pondweed</th>
<th>Work Task</th>
<th>2018 Budget</th>
<th>Grants</th>
<th>BWS</th>
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### Sub Totals

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<tr>
<td>Annual</td>
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<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
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</table>

### Timeline

- April
- May
- June
- July
- August
- September
- October
- November
- December
- January
- February

### 2018 Work Plan and Budgeting

<table>
<thead>
<tr>
<th>2017 Work</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLP survey</td>
<td>Survey performed by staff. Treatment not recommended</td>
</tr>
<tr>
<td>Zebra mussel early detection</td>
<td>Plate sampling did not occur. Will occur in 2018</td>
</tr>
</tbody>
</table>

### Little Comfort Lake Water Quality Goals

<table>
<thead>
<tr>
<th></th>
<th>2020 Goal</th>
<th>2030 Goal</th>
<th>2040 Goal</th>
<th>Preliminary 2017 Data</th>
<th>5-Year Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water quality rating at or above</td>
<td>C</td>
<td>C</td>
<td>B</td>
<td>C</td>
<td>C</td>
</tr>
<tr>
<td>Mean summer phosphorus concentration below (µg/L)</td>
<td>40</td>
<td>40</td>
<td>30</td>
<td>43</td>
<td>64</td>
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<tr>
<td>Mean summer secchi depth at or above (ft)</td>
<td>5</td>
<td>5</td>
<td>7</td>
<td>3.6</td>
<td>4.5</td>
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</table>

### Little Comfort Lake - Forest Lake Watershed District
Fish barrier: The project ordering for the Shields Lake passive fish barrier is scheduled for the April 19th regular board meeting. Construction for this project will be performed by Peterson Excavating and will likely occur in late-summer or fall of this year. At the August 24th, 2017 meeting the board moved to not approve further contracting with Smith-Root, Inc. for services provided to the electric fish barrier. District staff will to continue to operate the electric fish barrier as is, pursuant to Administrator discretion.

Curly-leaf pondweed (CLP): The 2018 budget does not contain any funding for Shields Lake curly-leaf pondweed management. Staff recommend that the external phosphorus load to the lake be addressed first via the Shields Lake Stormwater Harvest and Irrigation Reuse project before looking at the internal load.

Rough Fish Management: Given unofficial reports of common carp activity in Shields Lake, staff is considering options for rough fish monitoring and potential removal in Shields Lake. With the upcoming whole-lake alum treatment on Shields Lake, it would be beneficial to ensure that rough fish populations are as low as possible in order to reduce sediment disturbance after the alum treatment is completed. The 2018 budget contains $3,500 for rough fish management on Shields Lake, so staff has contacted St. Mary’s University and is awaiting a quote for a rough fish survey be performed this summer. The last rough fish survey of Shields Lake was performed by St. Mary’s University on behalf of the CLFLWD in 2015 and cost $1,128. That survey indicated that the Shields Lake fish community was dominated by bluegill and black crappie, which together comprised 76.6% of the caught fish biomass. Common carp were not detected in the 2015 survey, although there is a possibility that they existed in the lake at that time and simply avoided the trap nets that were used.

Zebra mussels: A zebra mussel sampling plate will be deployed at either a private or public dock on Shields Lake in 2018. Staff have not received any reports of zebra mussels in Shields Lake to date.
Shields Lake Management

Shields Lake 2018 Activities

<table>
<thead>
<tr>
<th>Work Task</th>
<th>2018 Budget</th>
<th>Grants</th>
<th>BWS</th>
<th>Contractor</th>
<th>Total Expense</th>
<th>Timeline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish Barrier</td>
<td>$3,500</td>
<td>$-</td>
<td>$-</td>
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<tr>
<td>Planning/Inspections/Oversight</td>
<td>$-</td>
<td>$-</td>
<td>$-</td>
<td>$-</td>
<td>$-</td>
<td>WD/EOR</td>
</tr>
<tr>
<td>Zebra Mussels</td>
<td>$-</td>
<td>$-</td>
<td>$-</td>
<td>$-</td>
<td>$-</td>
<td>WD</td>
</tr>
<tr>
<td>Curly-Leaf Pondweed</td>
<td>$-</td>
<td>$-</td>
<td>$-</td>
<td>$-</td>
<td>$-</td>
<td>WD</td>
</tr>
<tr>
<td>Rough Fish Management</td>
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<td>$-</td>
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<td>WD/EOR</td>
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</table>

2018 Work Plan and Budgeting

Figures in italics are cost estimates

<table>
<thead>
<tr>
<th>Sub Totals</th>
<th>Annual</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Shields Lake Water Quality Goals

<table>
<thead>
<tr>
<th>Water quality rating at or above</th>
<th>2020 Goal</th>
<th>2030 Goal</th>
<th>2040 Goal</th>
<th>Preliminary 2017 Data</th>
<th>5-Year Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td>100</td>
<td>60</td>
<td>60</td>
<td>191</td>
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<tr>
<td>C</td>
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<td>2.2</td>
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2017 Work

<table>
<thead>
<tr>
<th>Zebra mussel early detection</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plate sampling did not occur.</td>
<td>Work with volunteer to monitor a sampler</td>
</tr>
</tbody>
</table>

2018 Work

<table>
<thead>
<tr>
<th>Zebra mussel early detection</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>No CLP survey/management proposed until watershed phosphorus load is addressed</td>
<td>Construction to begin in fall 2018</td>
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</table>

<table>
<thead>
<tr>
<th>Curly-leaf pondweed</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Staff plans to start conversations with the Minnesota DNR about managing CLP in Shields Lake after the watershed P load is addressed</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Rough fish management</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Staff plan to obtain quote for rough fish survey from St. Mary's University. Last survey performed in 2015.</td>
<td></td>
</tr>
</tbody>
</table>
AIS early detection survey: Staff plan to perform an early detection survey at Lake Keewahtin in June or early-July. During this survey, staff will look for new invasive species such as Eurasian watermilfoil, flowering rush, or starry stonewort and monitoring the distribution of the existing invasive species, purple loosestrife and curly-leaf pondweed.

Purple loosestrife: Locations of purple loosestrife will be documented in the 2018 AIS early detection survey. Biocontrol insects may be collected and released to supplement existing populations if that is deemed necessary during the early detection survey.

Zebra mussels: A zebra mussel sampling plate will be deployed at one private dock on Lake Keewahtin in 2018. No zebra mussels have been detected in Lake Keewahtin to date.

Curly-leaf pondweed (CLP): As in 2017, staff will likely conduct a minor amount of curly-leaf pondweed hand pulling in 2018. In previous years, there has not been enough growth of curly-leaf pondweed to warrant chemical treatment.
Lake Keewahtin (Sylvan Lake) Management

Lake Keewahtin 2018 Activities

<table>
<thead>
<tr>
<th>Work Task</th>
<th>2018 Budget</th>
<th>Grants</th>
<th>EOR</th>
<th>Contractor</th>
<th>Total Expense</th>
<th>Timeline</th>
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</thead>
<tbody>
<tr>
<td>Purple Loosestrife</td>
<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
<td>WD</td>
</tr>
<tr>
<td>Check-Up Assessment</td>
<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
<td>WD</td>
<td></td>
</tr>
<tr>
<td>Biocontrol Collection and Release</td>
<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
<td>WD</td>
<td></td>
</tr>
<tr>
<td>Total</td>
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<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
<td>WD</td>
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</tr>
<tr>
<td>AIS Detection Survey</td>
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<td>$ -</td>
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<td>$ -</td>
<td>WD</td>
<td></td>
</tr>
<tr>
<td>Survey</td>
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<td>$ -</td>
<td>WD</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
<td>WD</td>
<td></td>
</tr>
<tr>
<td>Zebra Mussels</td>
<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
<td>WD/EOR</td>
<td></td>
</tr>
<tr>
<td>Samplers</td>
<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
<td>WD</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
<td>WD/EOR</td>
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2018 Work Plan and Budgeting

<table>
<thead>
<tr>
<th>Work Task</th>
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<th>Grants</th>
<th>EOR</th>
<th>Contractor</th>
<th>Total Expense</th>
<th>Timeline</th>
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<tbody>
<tr>
<td>Purple Loosestrife</td>
<td>$ -</td>
<td>$ -</td>
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<td>$ -</td>
<td>$ -</td>
<td>WD</td>
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<tr>
<td>Check-Up Assessment</td>
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<td>$ -</td>
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<td>$ -</td>
<td>WD</td>
<td></td>
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<tr>
<td>Biocontrol Collection and Release</td>
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<td>$ -</td>
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<td>$ -</td>
<td>WD</td>
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<td>Total</td>
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<td>$ -</td>
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<td>WD</td>
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<tr>
<td>AIS Detection Survey</td>
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<td>$ -</td>
<td>$ -</td>
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<tr>
<td>Zebra Mussels</td>
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<td>WD/EOR</td>
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<tr>
<td>Samplers</td>
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<td>$ -</td>
<td>WD</td>
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<td>$ -</td>
<td>WD/EOR</td>
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2018 Work Plan and Budgeting

<table>
<thead>
<tr>
<th>Work Task</th>
<th>2018 Budget</th>
<th>Grants</th>
<th>EOR</th>
<th>Contractor</th>
<th>Total Expense</th>
<th>Timeline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purple Loosestrife</td>
<td>$ -</td>
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<td>WD</td>
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<tr>
<td>Check-Up Assessment</td>
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<td>$ -</td>
<td>WD</td>
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<tr>
<td>Biocontrol Collection and Release</td>
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<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
<td>WD</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
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<tr>
<td>AIS Detection Survey</td>
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<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
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<tr>
<td>Survey</td>
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<td>$ -</td>
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<td>$ -</td>
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<td>Total</td>
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<td>$ -</td>
<td>$ -</td>
<td>WD</td>
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<tr>
<td>Zebra Mussels</td>
<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
<td>WD/EOR</td>
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<td>WD</td>
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Lake Keewahtin Water Quality Goals

<table>
<thead>
<tr>
<th>Water Quality Rating at or Above</th>
<th>2020 Goal</th>
<th>2030 Goal</th>
<th>2040 Goal</th>
<th>Preliminary 2017 Data</th>
<th>5-Year Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purple Loosestrife</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>14</td>
<td>15</td>
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<tr>
<td>Mean Summer Phosphorus Concentration Below (µg/L)</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>14</td>
<td>15</td>
</tr>
<tr>
<td>Mean Summer Secchi Depth at or Above (ft)</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>14.2</td>
<td>14.8</td>
</tr>
</tbody>
</table>

2017 Work

| AIS Detection Survey           | Completed on 7/27/17. No new AIS found |
| Biocontrol Collection and Release | Collected and released on 5/31/17 |
| Purple Loosestrife Check-up    | Locations documented on 7/27/17 |
| Zebra Mussel Early Detection   | Volunteer observed no ZM in 2017 |

2018 Work

| AIS Early Detection Survey     | Will be conducted by staff in June or July |
| Biocontrol Collection and Release | Will be conducted by staff in June or July |
| Purple Loosestrife Check-up    | Will be conducted by staff in June or July |
| Zebra Mussel Early Detection   | Work with volunteer to monitor a sampler |

Comfort Lake - Forest Lake Watershed District
**Curly-leaf pondweed (CLP):** Blue Water Science is planning to perform a delineation survey of curly-leaf pondweed in Forest Lake shortly after the ice has melted from the lake. In 2017, the District treated 169 acres of CLP on Forest Lake. This can be compared to 114 acres that were treated in 2016. Blue Water Science performed calculations in 2017 which showed that whole lake control of curly-leaf pondweed can be achieved when 131 acres are treated. This means that the concentration of chemical in the water throughout the entire lake is high enough to control CLP if 131 acres are treated. For this reason, staff recommends that the CLFLWD does not treat more than 131 acres of CLP in years going forward unless extenuating circumstances present themselves. Staff expect that approximately 110 acres will be treated in 2018, based on available funding and projected growth.

**Eurasian watermilfoil (EWM):** As with all other District lakes, the 2018 budget does not contain any funding for Eurasian watermilfoil treatment. The District will still pay for Blue Water Science to conduct delineation and assessment surveys. The Forest Lake Lake Association has been awarded a $7,000 grant from Washington County to help fund their 2018 EWM management activities. In 2017, the District treated a total of 33.4 acres of EWM. In 2016, the District treated a total of 13.9 acres of EWM.

**Flowering rush (FR):** The flowering rush management program that has been implemented by the CLFLWD since 2014 has been successful and will continue in 2018. The only difference between the 2017 and 2018 management programs will be that the 2018 herbicide treatments will occur in the June-July timeframe, rather than last years’ August-September timeframe. This change was suggested by PLM Lake and Land Management Corp. and the Pelican River Watershed District based on the results of the extensive research they have performed on flowering rush management.

**Zebra mussels:** Zebra mussels have now been detected throughout all of 1st, 2nd, and 3rd Lakes, but the sampling plate program will continue in 2018 in order to provide information about zebra mussel population densities post-colonization.

**Watercraft inspections:** An estimated total of $50,000 is available from the CLFLWD budget and project partners to support the 2018 watercraft inspection program on Forest Lake. This would support up to 2,250 hours of inspections, which can be compared to last year’s total of 2,752 paid inspection hours. The decrease in funded inspection hours is due to reduced contributions from program partners. Inspector shifts will prioritize weekend and holiday hours. The inspection program will run from mid-May to mid-October.

**Plant Harvester:** The City of Forest Lake plans to operate the plant harvester similarly to how it was operated last year. Staff have worked with the City and the Forest Lake Lake Association to develop a harvesting map that avoids all Eurasian watermilfoil and flowering rush beds. Curly-leaf pondweed beds are not avoided, because harvesting occurs in mid-late summer after the curly-leaf pondweed has died back.
### Forest Lake Management

#### Forest Lake 2018 Activities

<table>
<thead>
<tr>
<th>Work Task</th>
<th>CLFLWD Local</th>
<th>Grants/Cont.</th>
<th>BWS</th>
<th>Contractor</th>
<th>Total Expense</th>
<th>Delin-Report</th>
<th>Contractor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curly-Leaf Pondweed</td>
<td>79,000</td>
<td>58,500</td>
<td>(11,400)</td>
<td>(125,708)</td>
<td>392</td>
<td>BWS</td>
<td>BWS</td>
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<tr>
<td>Flowering Rush</td>
<td>28,800</td>
<td>(2,800)</td>
<td></td>
<td></td>
<td>(28,800)</td>
<td>BWS</td>
<td>BWS</td>
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<tr>
<td>Eurasian Watermilfoil</td>
<td>28,800</td>
<td>(5,200)</td>
<td></td>
<td></td>
<td>(5,200)</td>
<td>BWS</td>
<td>BWS</td>
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<td>Zebra Mussels</td>
<td>3,400</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>WD/Chisago Co.</td>
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<tr>
<td>Boat Launches</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>WD/EOR</td>
</tr>
</tbody>
</table>

### 2018 Work Plan and Budgeting

**Figures in italics are cost estimates/haven’t been invoiced yet**

*Estimate can treat approx. 110 acres of CLP with current budget breakdown*

### Forest Lake Water Quality Goals

<table>
<thead>
<tr>
<th>Water quality rating at or above</th>
<th>2020 Goal</th>
<th>2030 Goal</th>
<th>2040 Goal</th>
<th>Preliminary 2017 Data</th>
<th>5-Year Average</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>C</td>
<td>C</td>
<td>B</td>
<td>37</td>
<td>54</td>
</tr>
<tr>
<td>Mean summer phosphorus concentration below (µg/L)</td>
<td>37</td>
<td>37</td>
<td>30</td>
<td>35</td>
<td>35</td>
</tr>
<tr>
<td>Mean summer secchi depth at or above (ft)</td>
<td>5</td>
<td>5</td>
<td>7</td>
<td>7.5</td>
<td>6.0</td>
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### 2017 Work

<table>
<thead>
<tr>
<th>Status</th>
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</tr>
</thead>
<tbody>
<tr>
<td>CLP delin &amp; assessment</td>
<td>Final report received (Not approved yet)</td>
</tr>
<tr>
<td>EWM delin &amp; assessment</td>
<td>Final report received (Not approved yet)</td>
</tr>
<tr>
<td>EWM treatment</td>
<td>Treated 10 acres in June and 23 acres in August</td>
</tr>
<tr>
<td>ZM delin &amp; assessment</td>
<td>Final report received (Not approved yet)</td>
</tr>
<tr>
<td>ZM population monitoring</td>
<td>Zebra mussels observed in 1st, 2nd, and 3rd Lakes</td>
</tr>
</tbody>
</table>

### 2018 Work

<table>
<thead>
<tr>
<th>Status</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CLP delin &amp; assessment</td>
<td>Plan for Blue Water Science (BWS) to perform</td>
</tr>
<tr>
<td>EWM delin &amp; assessment</td>
<td>Plan for BWS to perform</td>
</tr>
<tr>
<td>ZM population monitoring</td>
<td>Work with volunteers to monitor samplers</td>
</tr>
<tr>
<td>Watercraft inspections</td>
<td>Goal of 2,250 inspection hours in 2018</td>
</tr>
</tbody>
</table>
Curly-leaf pondweed (CLP): The 2018 budget contains $2,700 for the management of curly-leaf pondweed on Comfort Lake. This will cover the expense of Blue Water Science performing delineation and assessment surveys ($1,400) and provide an extra $1,300 for public notice and herbicide management. This would be able to pay for the chemical management of up to four acres of CLP. For reference, zero acres of CLP were treated in Comfort Lake in both 2016 and 2017. Staff propose using the $1,300 to support a volunteer hand pulling effort that could attempt to remove all stems of Comfort Lake this year.

Eurasian watermilfoil (EWM): As with all District lakes, the 2018 budget does not contain any funding for Eurasian watermilfoil treatment. The District will still pay for Blue Water Science to conduct delineation and assessment surveys. In 2017, the District treated a total of 3.2 acres of EWM in Comfort Lake. In 2016, the District treated a total of 7.5 acres of EWM.

Zebra mussels: A zebra mussel infestation in Comfort Lake was confirmed by the Minnesota DNR in July of last year. Zebra mussels were not detected on either of the two volunteer sampling plates that we deployed at Comfort Lake last year. This was expected, as adult mussel densities are still very low. The sampling plate program will continue in 2018 in order to provide information about zebra mussel population densities post-colonization.

Watercraft inspections: An estimated total of $11,500 is available from the CLFLWD budget and project partners to support the 2018 watercraft inspection program on Comfort Lake. This would support up to 575 hours of inspections, which can be compared to last year’s total of 660 paid inspection hours. The decrease in funded inspection hours is due to reduced contributions from program partners. Inspector shifts will prioritize weekend and holiday hours to ensure that program funds are being spent efficiently. The inspection program will run from mid-May to mid-October.
## Comfort Lake Management

### Comfort Lake 2018 Activities

<table>
<thead>
<tr>
<th>Curly-Leaf Pondweed</th>
<th>Work Task</th>
<th>CLFLWD Local</th>
<th>BWS Contractor</th>
<th>Total Expense</th>
<th>April</th>
<th>May</th>
<th>June</th>
<th>July</th>
<th>August</th>
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<th>November</th>
<th>December</th>
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### Comfort Lake Water Quality Goals

**2020 Goal**

- Water quality rating at or above: C
- Mean summer phosphorus concentration below (µg/L): 40
- Mean summer secchi depth at or above (ft): 5

**2030 Goal**

- Water quality rating at or above: C
- Mean summer phosphorus concentration below (µg/L): 40
- Mean summer secchi depth at or above (ft): 5

**Preliminary 2017 Data**

- Water quality rating at or above: C+
- Mean summer phosphorus concentration below (µg/L): 31
- Mean summer secchi depth at or above (ft): 5.8

**5-Year Average**

- Water quality rating at or above: C+
- Mean summer phosphorus concentration below (µg/L): 33
- Mean summer secchi depth at or above (ft): 5.4