



Dosage Study Big Eagle Lake July 10th 2025

EAGLE LAKE IMPROVEMENT DISTRICT ELID

****Please be sure you signed in on our member list to verify voter eligibility.**

Thank you for attending our second annual ELID meeting.

2025 ANNUAL MEETING 8/2/2025

AGENDA

- | | |
|--|-------------------|
| 1. Introduction of Board members and current terms: | (Ken Andreen) |
| 2. Election of Board Members | (Ken Andreen) |
| 3. ELID updates | (Ken Andreen) |
| 4. Alum Treatment Timelines | (Brian Moriarity) |
| 5. Annual Budget plus 2026-2029 Projected Budgets | (Brian Moriarity) |
| 6. \$250 annual assessment for years 2026-2029 | (Brian Moriarity) |
| 7. Approval of Annual Budget/Project Budget/ and Assessments | (Ken Andreen) |
| 8. Other Business | (Ken Andreen) |
| Adjourn | |

ELID BOARD MEMBERS

		Current Term	Additional
		Expires	Years Qualified
Ken Andreen	Chairman	2027	5
Mike Donnelly	Vice Chairman	2026	7
Brian Moriarity	Treasurer	2026	7
Sandy McClurg	Secretary	2025*	6
Julie Fossum	Director	2025*	6

***Sandy McClurg and Julie Fossum up for reelection in 2025 Annual Meeting.**

BOARD MEMBER ELECTIONS

Up for Reelection

- **Sandy McClurg** **Secretary**
- **Julie Fossum** **Board Member**

***ELID IS REQUESTING A MOTION AND VOTE FOR**
SANDY MCCLURG 3 YEAR TERM SECRETARY
JULIE FOSSUM 3 YEAR TERM BOARD MEMBER

ELID BOARD MEMBER TEAM

**ELID is reviewing if the number of directors can be increased. i
Currently we are required to maintain 5 members. In 2026
there will be 2 board members whose terms will be up plus
we may be able to add additional members.**

**If you are interested, please let any of the board members
know and feel free to submit your name to be added to the
ballot for vote in 2026 Annual meeting.**

**A letter requesting candidates will be sent out prior to the
2026 annual meeting**

ELID updates

2025 ANNUAL MEETING 8/2/2025

ALUM

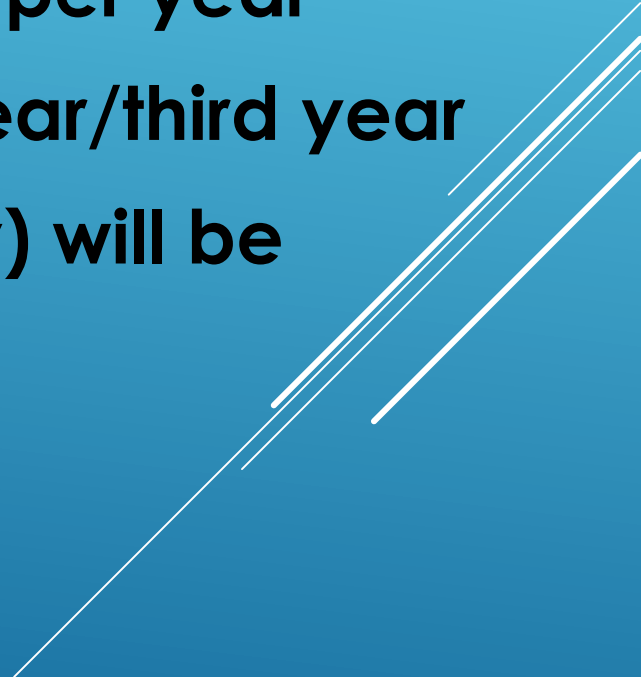
GREAT NEWS!!!

- Alum is the most cost effective method to reduce phosphorous
-  Initial Estimates for ALUM treatment costs was up to \$1,000,000
- Last year the BSWR match was 25% or \$250,000 ELIDs costs.
- The match has been changed to 10% or \$100,000😊



Future treatment costs will be determined when dosage study is complete and material costs are factored in.

WHERE WILL THE FUNDING COME FROM?

- **Property assessments – approximately \$38,000 per year**
 - **The treatment will likely be – first year/skip a year/third year**
 - **Thus, no loan or conduit bond (from the county) will be required**
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- Three white diagonal lines of varying lengths and thicknesses are positioned in the bottom right corner of the slide, extending from the right edge towards the center.

BSWR ALUM GRANT TIMING

- **ELID's plan was to apply for the BSWR grant in August 2025 and treat in 2026**
- **BSWR grant system was changed in June 2025**
- **Now BSWR is not accepting grants applications in 2025**
- **We will submit the Alum grant application in August, 2026**

WHAT IS THE SCHEDULE FOR THE ALUM TREATMENT?

- | | |
|--------------------------------------|-----------------|
| • Dosage Study | In progress |
| • Apply for a BSWR grant | August – 2026 |
| • Receive the BSWR grant | Nov/Dec – 2026 |
| • Prepare bids package | Jan/Feb - 2027 |
| • Receive bids from ALUM contractors | Mar – 2027 |
| • First ALUM treatment | May/Sept – 2027 |

NOTE: This schedule is based on obtaining the BSWR grant

Dosage Study

2025 ANNUAL MEETING 8/2/2025

FALL OF 2024 FUNDRAISING EFFORT

- The dosage study fundraising effort collected approximately \$14,000
- ELID learned there was a grant for such a study
- We applied for the grant and it was awarded to us.
- The grant was for approx. \$44,000
- ELID's share of the cost is 10% or \$4,400
- Thank you to all that allowed ELID to retain their donation and allow us to use your donation for other lake quality improvement efforts

LAKE BOTTOM CORE SAMPLES

- Field work for Dosage Study was completed July 10th 2025.
- Number of bottom core samples taken =14
- Samples sent to Stout University = 14
- Water samples taken = 2
- Temperature and oxygen readings – top to bottom @ 1 location



CARP REMOVAL

- The 2nd highest internal contributor to algae in our lake is carp
 - We applied for a grant to remove carp in 2023 and did not receive one
 - The state has changed the way grants are distributed
 - There is a good chance we might be able to obtain a grant in July of 2026 to remove carp
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- Three parallel white lines of varying lengths are positioned diagonally in the bottom right corner of the slide, pointing towards the top right.

COST FOR CARP REMOVAL

- **The estimated cost is \$60,000**
- **If a grant is received, ELID would have to pay 25% or \$15,000**
- **Advantages of removing carp**
 - 1. Reduces the amount of phosphorous freed from the bottom by carp disturbance**
 - 2. Increases the longevity of the Alum treatment**
 - 3. Puts ELID in better standing with BSWR to obtain the Alum grant**

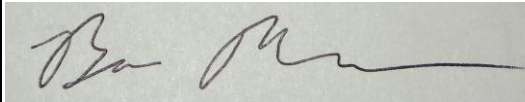
2026 ELID Budget Review

- July 2025 Treasurer's Report (Brian Moriarity)
- Alum Treatment Timelines. (Brian Moriarity)
- 2026 Budget (Brian Moriarity)
- 2026 Project Budget (Brian Moriarity)
- \$250 Annual Assessment for Years 2026-2029 (Brian Moriarity)

Budget and Assessment Approvals

- Approval of 2026 Budget (Ken Andreen)
- Approval of 2026 Project Budget (Ken Andreen)
- Approval of Assessments for 2026-2029 (Ken Andreen)

JULY 2025 TREASURER'S REPORT

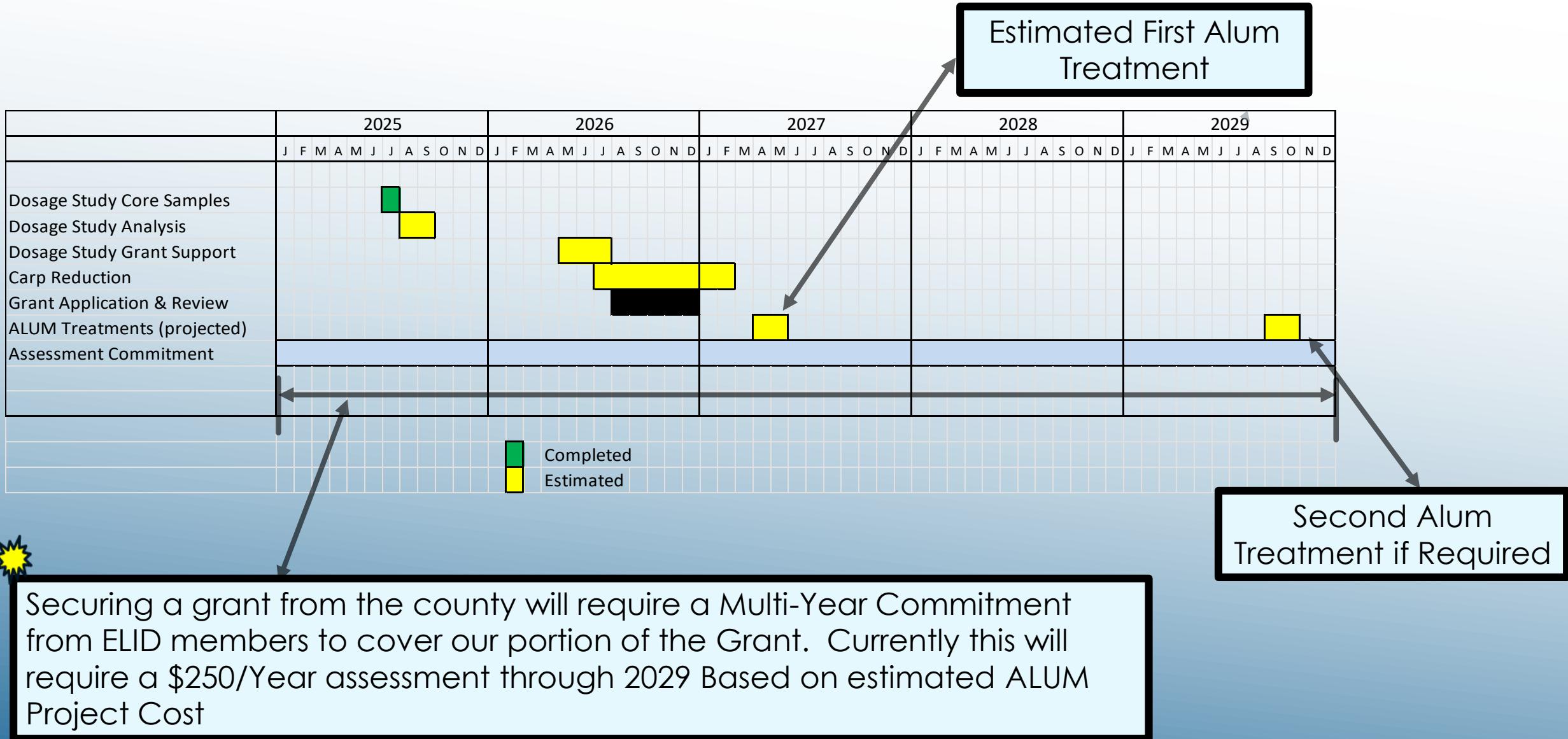
2025 ELID		
July Treasurer's Report		
G/L Code	Account Title	
1010	Income BELIA	\$0.00
1020	Income Assessments	\$20,250.00
1040	Income Other	\$0.00
2010	Insurance	\$0.00
2020	Meeting and Admin	(\$72.00)
2030	Legal	\$0.00
2040	ELID Dosage	\$0.00
2050	ELID ALUM	\$0.00
2060	Sherburne County	\$0.00
2090	Expense Other	\$0.00
Total	Income & Expense	\$20,178.00
	Starting Balance	\$19,103.81
	Ending Balance	\$39,281.81
Notes	July includes first deposit from collected assessments and PO box fee	
		
Brian Moriarity ELID Treasurer		
Date	8/2/2025	

First Assessments deposited totaling \$20,250.00

Current Balance \$39,281.81



ELID ALUM FUNDING BASED ON CURRENT GRANT DATES



2026 ELID BUDGET

	2026
Description	
Beginning Balance	\$ 47,572.87
Insurance	\$ (600.00)
Meeting/Admin	\$ (600.00)
Legal	\$ (1,000.00)
Sherburne County	\$ (250.00)
10% Alum Treatment Cost (ELID's Portion)	
Dosage Study- (ELID's Portion)	\$ -
25% Carp Treatment Cost (Pending Grant Approval)	\$ (15,000.00)
Monitoring Quality	\$ (500.00)
Assessments \$250,	\$ 38,000.00
Total of Income and Expense for Year	\$ 20,050.00
Year End	\$ 67,622.87

There will likely be some carryover into 2026 for Dosage Study

If we get approval for Carp Grant, ELIDs portion would be an Expense of \$15,000 in 2026

***ELID WILL BE REQUESTING APPROVAL FOR THE PROJECT EXPENSE OF \$15,000 FOR CARP IN 2026**

***ELID WILL BE REQUESTING APPROVAL FOR BUDGET YEAR 2026**

2026-2029 PROJECT BUDGET

	2026	2027	2028	2029
Description				
Beginning Balance	\$ 47,572.87	\$ 67,622.87	\$ 52,672.87	\$ 87,222.87
Insurance	\$ (600.00)	\$ (600.00)	\$ (600.00)	\$ (600.00)
Meeting/Admin	\$ (600.00)	\$ (600.00)	\$ (600.00)	\$ (1,000.00)
Legal	\$ (1,000.00)	\$ (1,000.00)	\$ (1,000.00)	\$ (1,000.00)
Sherburne County	\$ (250.00)	\$ (250.00)	\$ (250.00)	\$ (250.00)
10% Alum Treatment Cost (ELID's Portion)		\$ (50,000.00)		\$ (50,000.00)
Dosage Study- (ELID's Portion)	\$ -			
25% Carp Treatment Cost (Pending Grant Approval)	\$ (15,000.00)			
Monitoring Quality	\$ (500.00)	\$ (500.00)	\$ (1,000.00)	\$ (1,000.00)
Assessments \$250,	\$ 38,000.00	\$ 38,000.00	\$ 38,000.00	\$ 38,000.00
Total of Income and Expense for Year	\$ 20,050.00	\$ (14,950.00)	\$ 34,550.00	\$ (15,850.00)
Year End	\$ 67,622.87	\$ 52,672.87	\$ 87,222.87	\$ 71,372.87

Potential funding available for ELID's 25% portion of Carp Grant.

Potential funding available for ELID's 10% portion of a \$1.0 M ALUM Grant. Treatment Cost has not been established at this time.

***PROJECTED 4 YEAR BUDGET FOR ELID WITH GRANT CO-PAYS**

2026-2029 PROPOSED ASSESSMENTS

	2026	2027	2028	2029
	1 Year	2 Year	3 Year	4 Year
Funding available for 10% of Grant-year end	\$ 67,622.87	\$ 102,672.87	\$ 137,222.87	\$ 171,372.87
Maximum Grant coverage for ALUM treatment	\$ 676,228.70	\$ 1,026,728.70	\$ 1,372,228.70	\$ 1,713,728.70
Total Alum Potential Cost				
Assessment Required for 4 more years	\$ 250.00	\$ 250.00	\$ 250.00	\$ 250.00



COUNTY IS ASKING FOR MULTIPLE YEAR ASSESSMENT APPROVAL TO COVER ELID'S PORTION OF GRANT COST BEFORE GRANT IS AWARDED

THIS APPROVAL WOULD COVER UP TO \$1,700,000 ALUM TREATMENT COSTS. IF COSTS ARE HIGHER WE WILL REVIEW IN OUR 2026 ANNUAL MEETING

***ELID WILL BE REQUESTING APPROVAL FOR 4 YEARS OF ASSESSMENTS TO COVER 10% OF ALUM GRANT WITH CONTINGENCIES.**

ELID VOTING

- ✓ **ELID MEMBERS TO VOTE ON**
 - *ANNUAL BUDGET FOR 2026**
 - *PROJECT BUDGET FOR 2026**
 - *ASSESSMENTS FOR 2026-2029**

Other Business

(Ken Andreen)

Adjourn

**THANK YOU for attending
our second annual ELID meeting!**

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BACKUP SLIDES

BUDGET 8/2/2025

Letter From Dan Chibulka Soil and Water Representative

Please see a note below from our area BWSR Board Conservationist regarding Clean Water Fund Projects and Practices Competitive grant program. This program was the one we were aiming for in an alum grant application. Unfortunately, the decision has been made to transition this from an every-year application to every-other-year. **The next application period will be in 2026.**

There is a larger effort on BWSR's end to streamline the grant process so I suspect this decision was a part of this. The amount of funding for this program has decreased over time, and instead of offering a ~\$3 million grant program every year they are shifting to **~\$6 million every-other-year**. This is going to help with administrative costs on BWSR's end. I had heard some rumors of BWSR adjusting the competitive grant program however this change is definitely an unfortunate surprise.

So, we will not be able to submit an alum grant application this year. The good news is that we should have ample time to prepare for a 2026 application. At this point however I'm uncertain on the timeframe of an RFP announcement and application deadline for the 2026 grant.

From my end I'm sorry that this has happened because I knew your group has done so much to prepare for this application. We remain committed to working with the ELID and BELIA on this project and leveraging all the resources we can. In addition to following the updates on this program, I'll be continuing to look at other funding opportunities with this project in mind.

Phosphorus Mitigation

Funding Sources

Clean Water Fund – Competitive Grants

- Offered annually (\$5 - \$6 million) each Aug
- Selections announced Dec
- Funding available Mar/Apr

Clean Water Fund – Watershed Funds

- \$1.27 million available every 2 years
- Funding available late 2026 (was 2025)**
- Non-competitive, but shared amongst watershed

Phosphorus from Sediment:

- Alum = common wastewater treatment tool, now more common for lake management
- Initial study confirmed sediment as a significant source, dosage study required to plan alum application

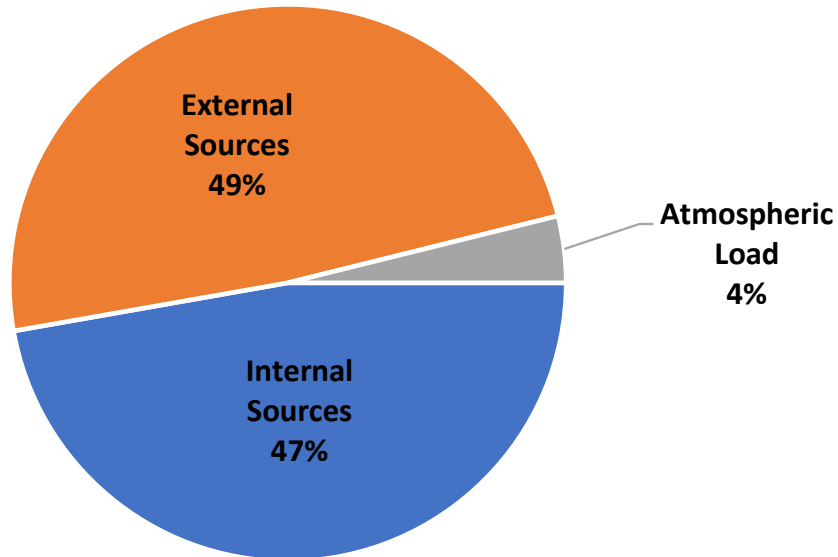
Carp Management:

- Surveys indicate population is 2x the management threshold (water quality benefits with management)
- Two unsuccessful grant applications in Competitive Grant category
- Would be a great fit for the Watershed Funds category



Phosphorus Sources

Big Eagle Lake Phosphorus Sources



2019 Phosphorus Sources

Atmosphere (4% of total)

External (49% of total)

- Shoreland erosion
- Rural area watershed transport
- Stormwater transport

Internal (47% of total)

- Sediment nutrient recycling
- Carp activity
- Septic systems

NOTE: 2019 was a record setting year for precipitation, it is believed external source calculations are higher than in “normal” years.



8/2/2025

