



LAKE ROESIGER PUBLIC MEETING INVASIVE PLANT SERVICE CHARGE

August 25, 2022



Snohomish County
Conservation &
Natural Resources
Surface Water Management

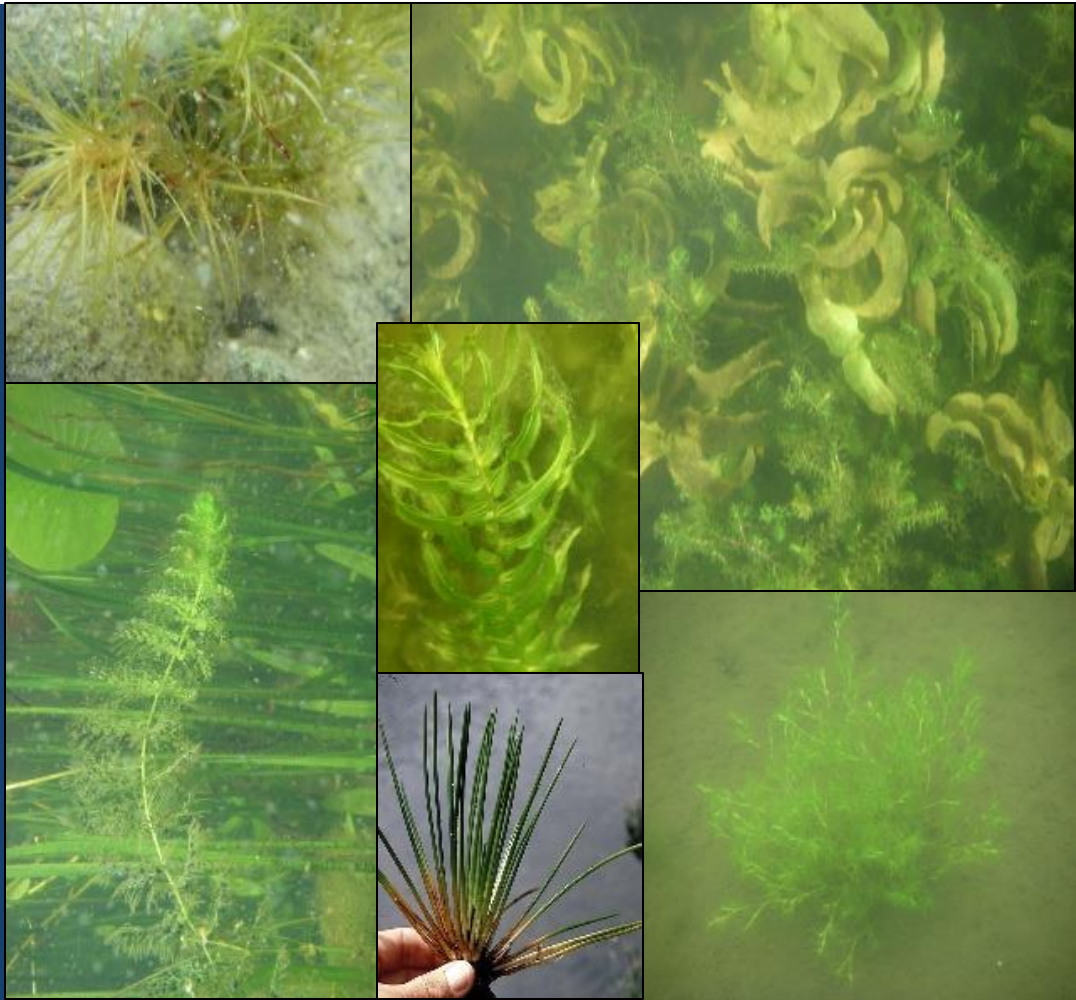


NOTICE OF MEETING RECORDING

AGENDA

- Welcome & Introductions (15 minutes)
- Invasive Plant Management Plan Overview (15 minutes)
- Funding proposal – Lake Roesiger Community and Boat Club Funding Committee (15 minutes)
- Questions & Discussion (40 minutes)
- Next Steps (5 minutes)

BENEFITS OF NATIVE AQUATIC PLANTS



Fit well into lake ecosystem

Good for fish - act as nursery

Filter out pollution & protect water quality

Habitat for other aquatic life – birds, turtles etc.

Have natural controls



THE PROBLEM - INVASIVE AQUATIC PLANTS



WHY ARE INVASIVE SPECIES A PROBLEM?



Creates nuisance conditions for recreation

Harms navigation

Causes filling in (mud islands)

Displaces native plants; harms lake ecology

Reduces water quality

TABLE -1 NOXIOUS WEED DESIGNATIONS

In-Lake Plants	Class	Distribution	Shoreline Plants	Class	Distribution
Eurasian watermilfoil	B	Scattered patches	Invasive Knotweed	B	11 properties
Slender arrowhead	B	39.8 acres ¹	Purple Loosestrife	B	24 properties
Fragrant waterlily	C	30.1 acres	Yellow-flag iris	C	Widespread

¹The 39.8 acres are areas of dense coverage with an additional 5.5 acres of sparse coverage

EXTENT OF PROBLEM

INITIAL CONTROL EFFORTS

Eurasian watermilfoil

- Decades of diver surveys & hand-pulling
 - County (1998 - 2017)
 - Community (2019 – present)

Invasive Lilies

- Chemical control – reports of lily treatment 1970's (individuals?)
- Manual Control – cutting, pulling out
- Failed Attempt for Chemical Control by Landowners (~2018/2019)
- Community Club & Individual Efforts (2019 – 2021)
 - Purchased Removal equipment
 - Bottom Barriers (including HPA permit)
 - Other creative innovations by landowners
- 2020 - Request for Snohomish County Assistance
- 2021 – Grant to develop plan

THE SOLUTION – DEVELOP A PLAN

INTEGRATED AQUATIC VEGETATION MANAGEMENT PLAN - DRAFT

Lake Roesiger



Map Invasive Species



Develop Draft Plan



Community Outreach



Vote to Finalize Plan

THE PLAN



Priority 1 - Eurasian Watermilfoil

5 Year Cost - \$110K

- **5 Year Goal:** Eradication
- **Control Method**
 - Annual diver surveys and hand-pulling
 - Chemical Treatment with Procellacor (only if density greatly increases)



Priority 2 - Fragrant water

5 Year Cost - \$136K

- **5 Year Goal:** North and South – Eradication; Middle - 40 to 50% reduction
- **Control Method**
 - Chemical control with use of imazapyr or imazamox
 - Mechanical harvesting - use as possible especially if costs decrease
 - Individual landowners - repeated lily cutting and/or bottom barriers

THE PLAN



Priority 3 – Invasive Species Prevention

5 Year Cost - \$7K

- **5 Year Goal:** Prevent spread of invasives to and from lake
- **Control Method**
 - Education campaign to lake residents
 - Volunteer outreach at boat launch



Priority 4 – Knotweed, Purple Loosestrife, Yellow-Flag Iris

5 Year Cost - \$30K

- **5 Year Goal:** Prevent further spread and reduce coverage
- **Control Method**
 - Individual landowner control
 - Workshops on plant identification and control methods
 - Outreach campaign



Priority 5 – Slender Arrowhead

5 Year Cost - \$110K

- **5 Year Goal:** Prevent further spread and reduce coverage
(Initial Target of 20% per year that would be scaled based on funding)
- **Control Method**
 - Diver-Assisted Suction Harvesting (DASH)
 - Continue researching control methods as they emerge

INITIAL 5 YEAR INVASIVE PLANT CONTROL COSTS

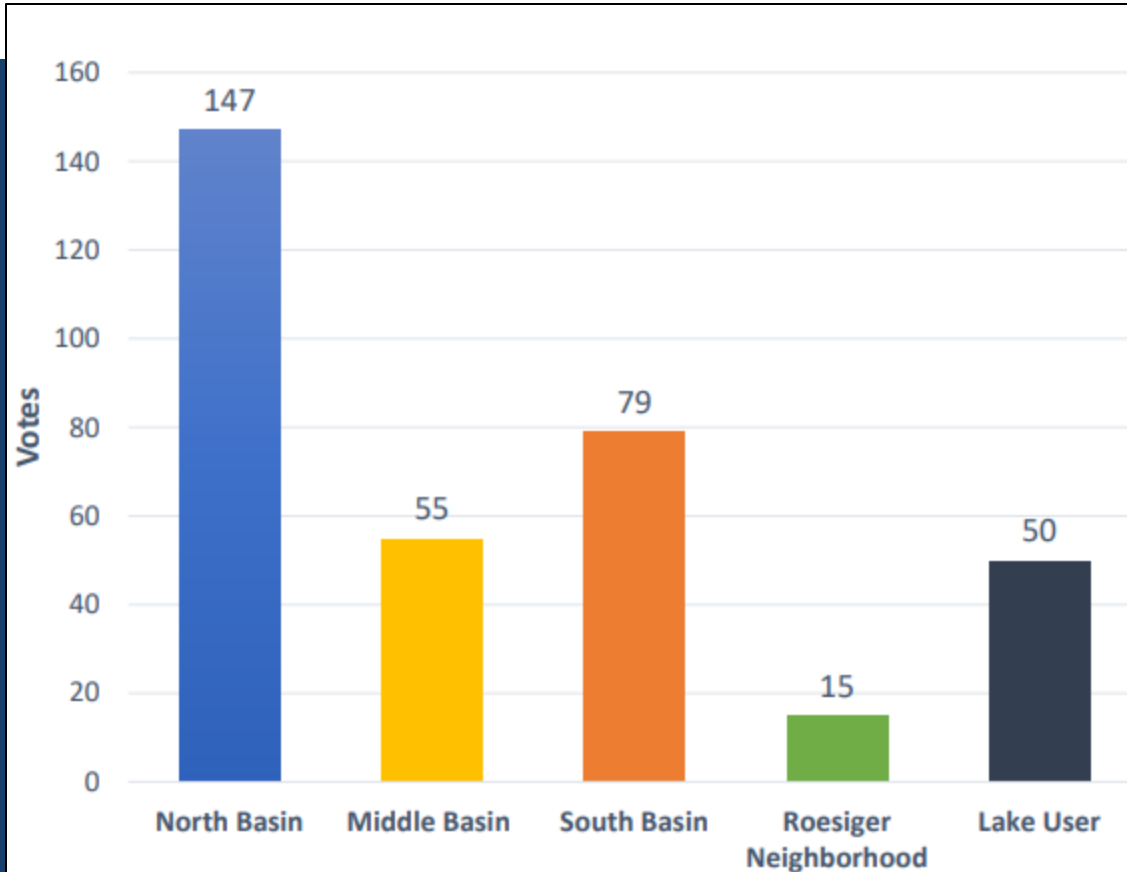
(WORK WILL EXTEND BEYOND 5 YEARS)

Approved Invasive Plant Control Methods

Target Plant	Action	Expected Outcomes	Estimated Cost for First 5 Years of Control					
			Year 1	Year 2	Year 3	Year 4	Year 5	Total
Eurasian watermilfoil	Diver hand-pulling; chemical control only if needed	Eradication within 5 years followed by annual monitoring	\$22K	\$22K	\$22K	\$22K	\$22K	\$110K
Fragrant waterlily - Middle Basin ¹	Chemical treatment (imazapyr/imazamox)	40-50% reduction in lily coverage (12-15 acres)	\$34K	\$34K	\$34K	\$17K	\$17K	\$136K
Fragrant waterlily -North & South Basin ¹	Chemical treatment (imazapyr/imazamox)	Eradication of existing patches	\$3.3K	\$3.3K	\$1.1K	\$1.1K	\$1.1K	\$9.9K
Invasive Shoreline Plants ²	Workshops & outreach on plant ID and control methods	Prevention of new areas; reduce existing areas	\$15K	\$15K	-	-	-	\$30K
Slender Arrowhead ³	Incremental removal by DASH	20% removal per year ⁴	\$22K	\$22K	\$22K	\$22K	\$22K	\$110K
Invasive Species Prevention	Outreach to lake users & residents	Lower risk of spread & intro of new invasive species	\$3.5K	\$3.5K	-	-	-	\$7K
Total			\$99.8K	\$99.8K	\$79.1K	\$62.1K	\$62.1K	\$402.9K

5 Year Total - \$402.9 K (annual average of \$80.6K)

PLAN VOTE (SEE FULL RESULTS ONLINE)



Response rates and locations

- There were 346 total valid votes
- There were 274 Roesiger shoreline votes (middle, north and south)
- Shoreline vote represents approximately 59% of the estimated 464 shoreline parcels

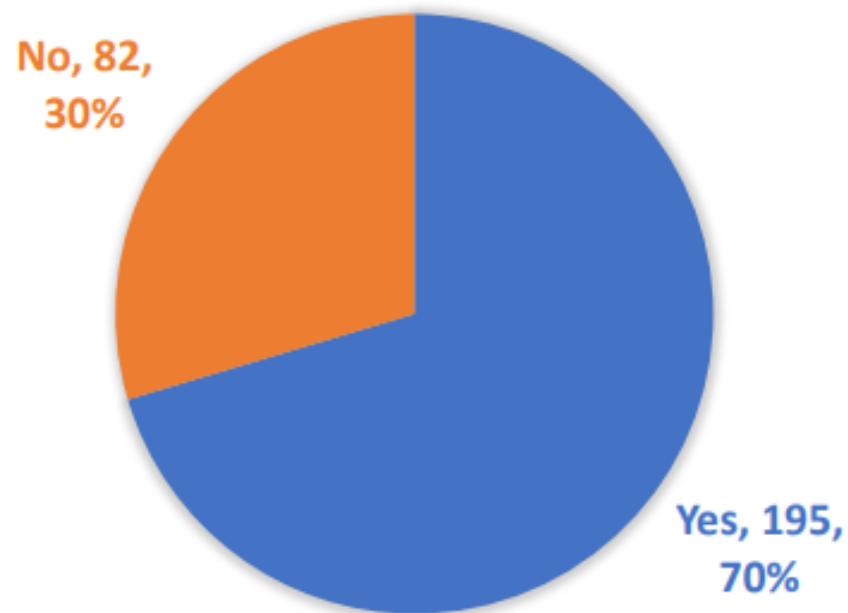
Roesiger Neighborhood = respondents that don't live on the lake shoreline but live near the lake (see previous map)

Lake User = respondents who don't live near Lake Roesiger, but use the lake for recreation

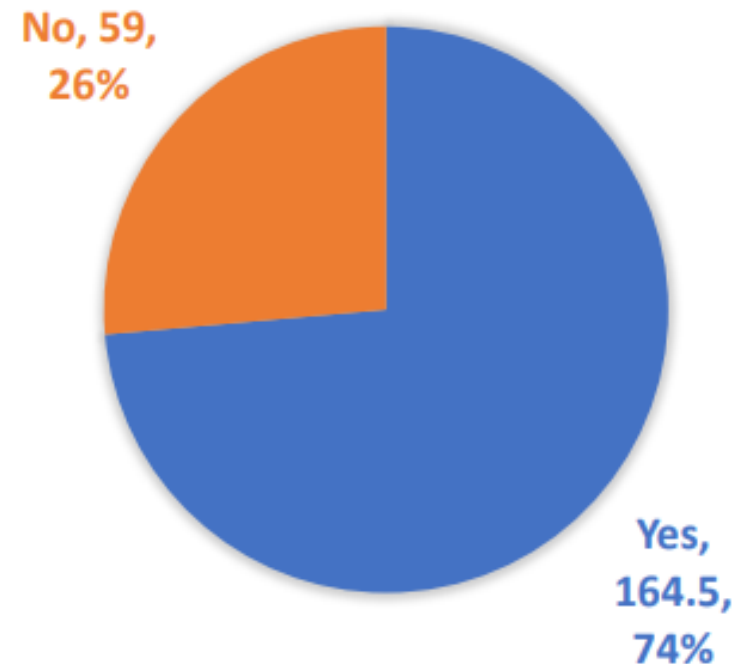
PLAN VOTE

Question 1 Results Continued: Do you approve the proposed Lake Roesiger Integrated Aquatic Vegetation Management Plan as described in the revised Lake Roesiger IAVMP Executive Summary?

2. Lake Roesiger shoreline & neighborhood residents



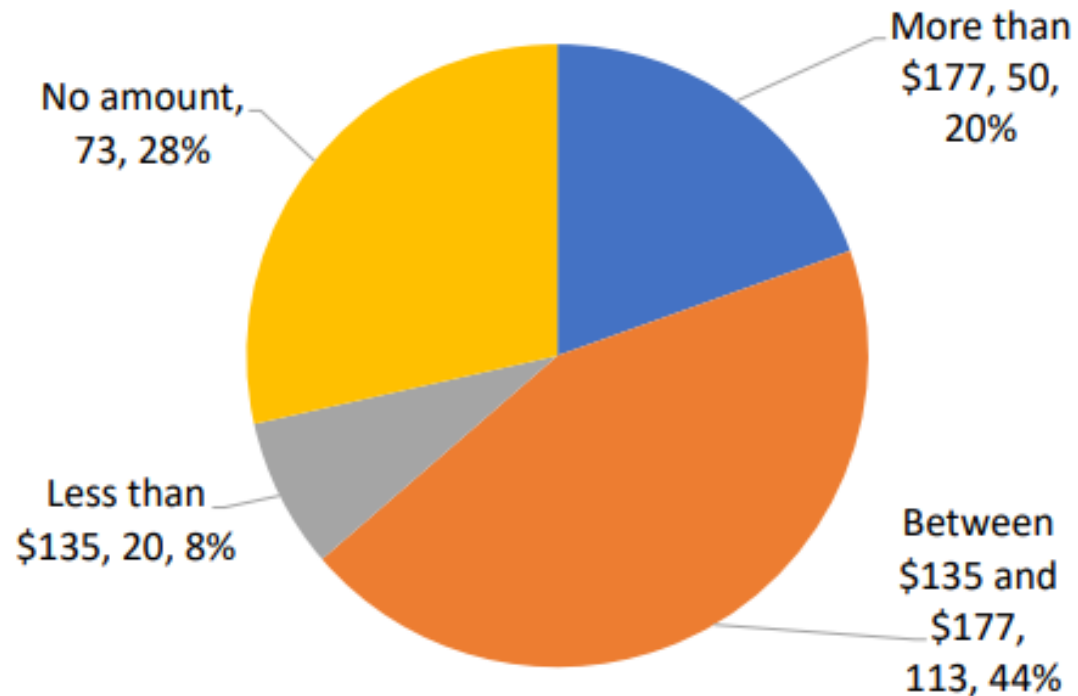
3. Lake Roesiger Community and Boat Club Members



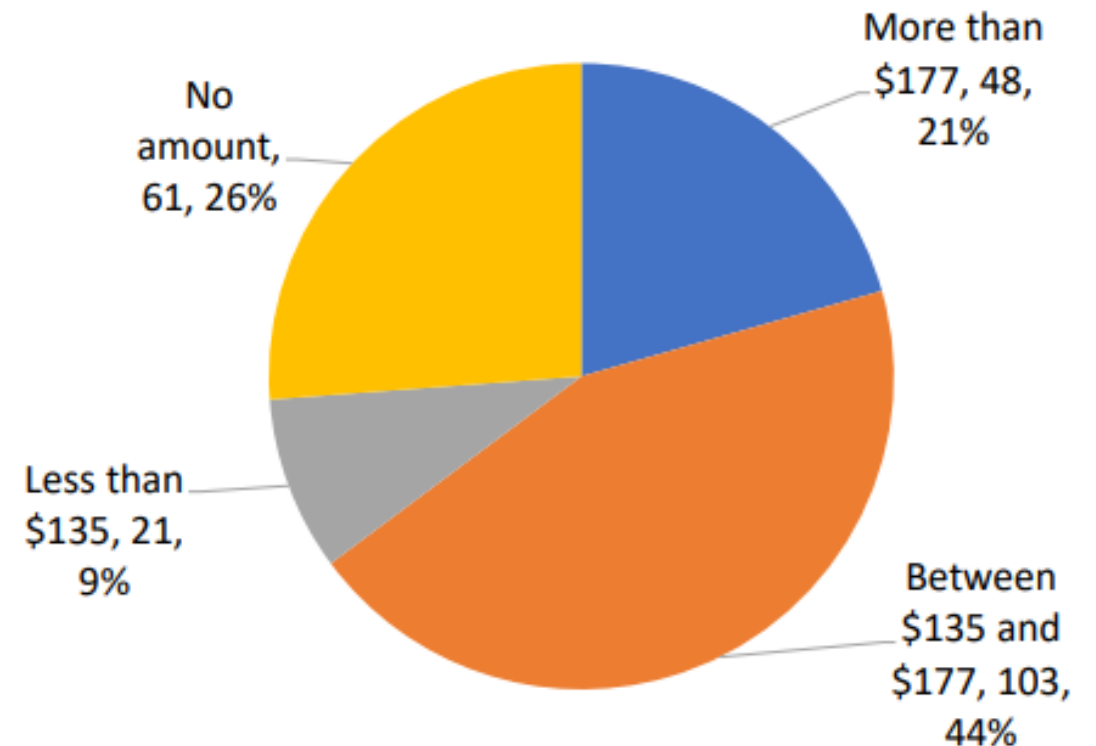
PLAN VOTE

Question 3 Results Continued – If the plan is approved, would you support the Lake Roesiger area community paying an annual fee charged on a per parcel basis to implement the final plan?*

2. Lake Roesiger Shoreline & Neighborhood Residents



3. Lake Roesiger Community and Boat Club Members



VISIT WEBSITE TO LEARN MORE

WWW.SNOHOMISHCOUNTYWA.GOV/ROESIGER



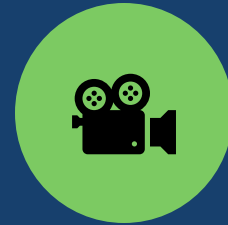
FULL PLAN



EXECUTIVE
SUMMARY



SURVEY &
VOTING RESULTS



VIDEOS OF ALL
MEETINGS



SIGN UP FOR
EMAIL UPDATES

GRANT PROJECT CONCLUDED



- Plan finalized and approved by Department of Ecology
- Plan makes community eligible to apply for state implementation grant
- Community and Boat Club 2021 Decisions
 - Decided not to pursue implementation grant for 2022 due to lack of 5-year funding plan
 - Chose to form a funding Committee
 - Committee goal was to find options for sustainable long-term funding and bring recommendations to the Lake Roesiger community

A photograph of a pond with large green water lily leaves and a white water lily flower in bloom. A dark blue horizontal band is overlaid across the middle of the image, containing white text.

WHERE WE ARE NOW? FUNDING COMMITTEE WORK

COMMITTEE RESEARCHED AND DEVELOPED OPTIONS FOR FUNDING BY COMMUNITY

Funding
Mechanisms

How much
to raise

Who to
include

Duration



FUNDING MECHANISMS - APPLY FOR GRANTS



- Department of Ecology Invasive Aquatic Plant Management Grant
- \$75,000 award
 - Requires a 25% match
- 2-year grant based on 5-year project
- Paid for by Boat Tab Fees
- Applications are due in Nov/Dec
- No other known sources of grants at this time

FUNDING MECHANISMS - IMPLEMENT A SURFACE WATER MANAGEMENT FEE SURCHARGE

Established by County Council in Snohomish County Code - SCC 25.20

Funds can only be used for Roesiger plan implementation

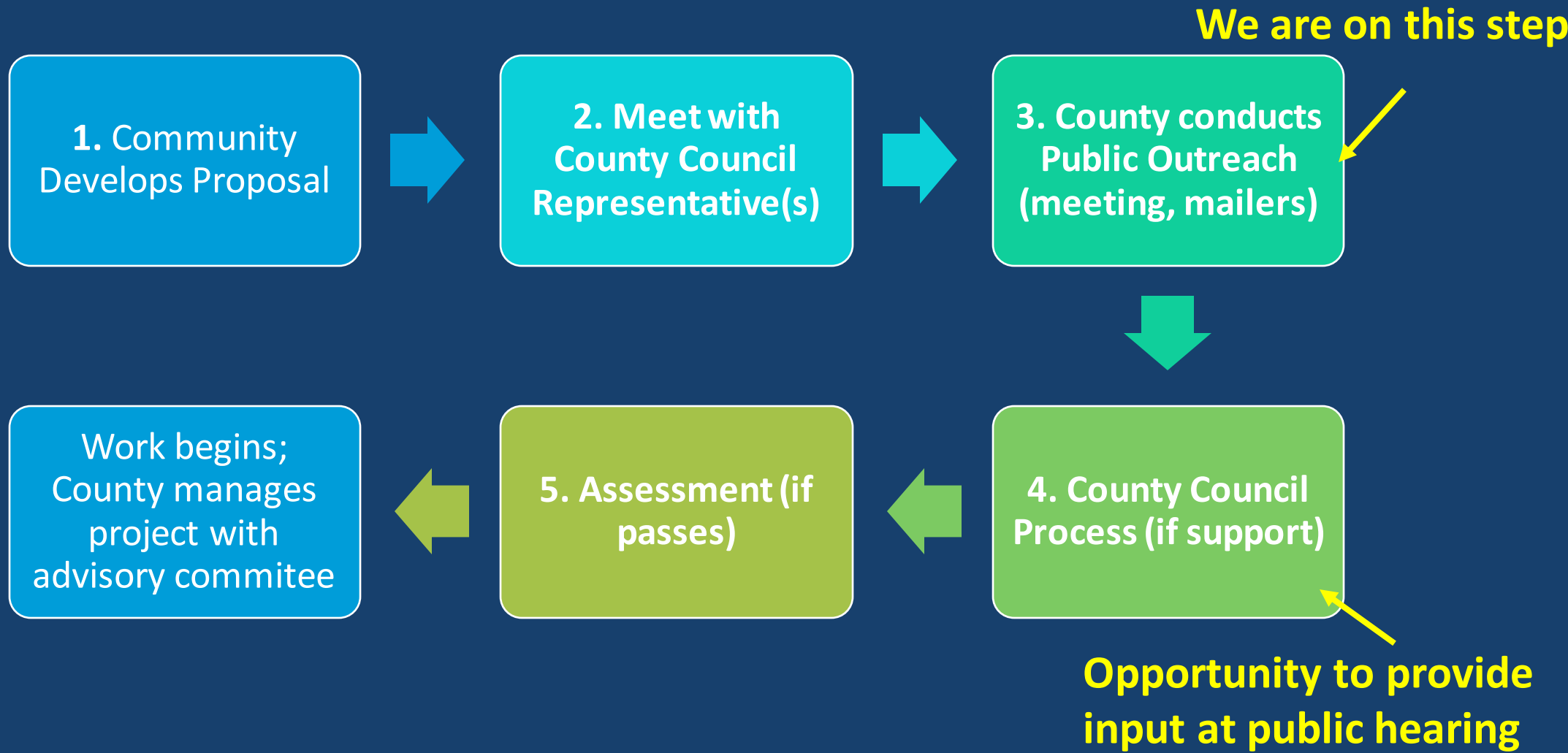
Work managed by county with community oversight

Estimated cost to establish is \$13K (cost absorbed by County)

Similar charges established at four other county lakes

SURFACE WATER FEE SURCHARGE PROCESS

Community requests Snohomish County Council to enact higher surface water charges in a defined area





DURATION - SURFACE WATER FEE SURCHARGE

- Charge is for five years
- After 5 years - option to renew
 - Can request new charge at the same or different rate.
 - Requires public input and approval by County Council

HOW MUCH TO RAISE - SURFACE WATER FEE SURCHARGE

- Used plan estimate of **\$402.9 K**,
- Assumed successful grant of \$75,000 over 2 years
- Added in inflation for total of **\$403.4 K (average \$80.7K per year)**
 - Opted for a 7% annual increase
 - Added to year 1 (since plan year old)

	Est Y1 cost	Est Y2 cost	Est Y3 cost	Est Y4 cost	Est Y5 cost	Est 5yr cost
Totals after Grant deduct	\$62,300	\$62,300	\$79,100	\$62,100	\$62,100	\$327,900
Adding Inflation	\$66,661	\$71,327	\$96,901	\$81,400	\$87,098	\$403,388
Averaged after inflation	\$80,678	\$80,678	\$80,678	\$80,678	\$80,678	\$403,388

SURFACE WATER MANAGEMENT FEE SURCHARGE - SPECIAL CONSIDERATIONS

- **Multiple Parcels:**
 - If you own multiple parcels that are in the proposed area, you would be charged for each parcel.
 - If you are interested in merging your parcels to avoid paying multiple assessments, you can contact the Snohomish County Assessor's office for more information.
- **Exemptions**
 - County approved senior citizen or disabled person exemptions already in place for Snohomish County property taxes would also apply to the proposed surcharge.

WHO TO INCLUDE – OPTION 1 AS PRESENTED TO CLUB: SHORELINE PARCELS ONLY



Parcel Type	# of Parcels	Parcel Rate	Total
Lakefront (including split lots)	454	\$175	\$ 79,450
Lake Front Shared Interest	74	\$45	\$ 3,330
Total	528		\$ 82,780

WHO TO INCLUDE – OPTION 2 AS PRESENTED TO CLUB: SHORELINE PARCELS & COMMUNITY PARCELS

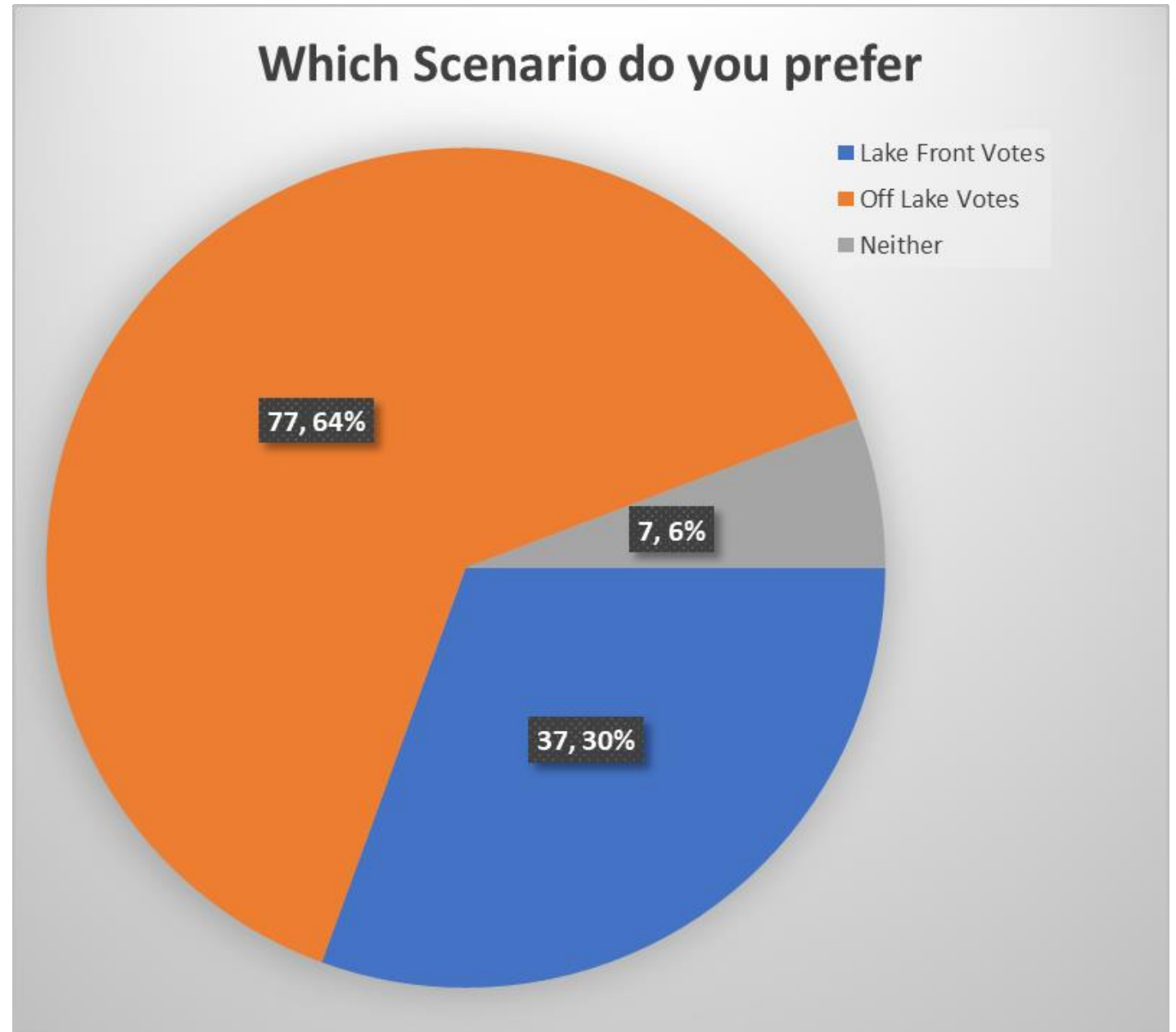
Parcel Type	# of Parcels	Parcel Rate	Total
Lakefront (including split lots)	454	\$170	\$ 77,180
Lake Front Shared Interest	74	\$35	\$ 2,590
Off Lake	150	\$20	\$ 3,000
Total	678		\$ 82,770

<https://snoco-gis.maps.arcgis.com/apps/webappviewer/index.html?id=694975958b624db8b36178b69385ae02>



LAKE ROESIGER COMMUNITY AND BOAT CLUB VOTE RESULTS

- Vote Results (88 total responses)
 - 64% to include off lake.
 - 30% for lakefront only
 - 6% neither (write-ins)
- Voting Membership Details
 - 200 memberships at time of voting
 - 70 validated responses (66 families)
 - Individuals - 1 vote.
 - Family – 2 votes.
 - 18 non-validated responses (17 families) - not current club members



Rate Category	Annual Service Charge
Lake Front	\$170.00 per parcel of real property abutting the shoreline of Lake Roesiger
Shared Lakefront	\$35.00 per parcel of real property with an undivided ownership interest in lake front real property used for common beach access
Off Lake	\$20.00 per parcel of developed real property within the Lake Roesiger lake basin that is not lakefront or shared lakefront

WHO TO INCLUDE - LEGAL LANGUAGE

FINAL SCENARIO – ADJUSTMENTS MADE ON PARCEL DEFINITION

Parcel Type	# of Parcels	Parcel Rate	Total
Lakefront (including split lots)	459	\$170	\$ 78,030
Lake Front Shared Interest	73	\$35	\$ 2,555
Off Lake	64	\$20	\$ 1,280
Total	678		\$ 81,865

<https://snoco-gis.maps.arcgis.com/apps/webappviewer/index.html?id=694975958b624db8b36178b69385ae02>



- Lakefront - \$170
- Shared Lakefront - \$35
- Off Lake - \$20

QUESTIONS & DISCUSSION

- One person speaks at time
- Listen to and respect others point of views
- Stay focused on topic of meeting
- Everyone encouraged to participate
- Limit of 3 minutes per comment
- Raise hand (*9 from phone)
- Unmute when recognized (*6 from phone)



**FEEDBACK FROM
RESIDENTS WHO
COULD NOT ATTEND**



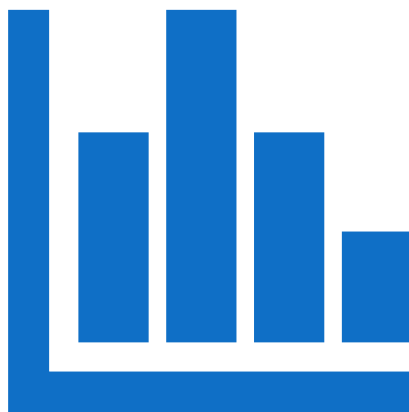
POLL QUESTION

What type of parcel do you own within the Lake Roesiger basin?

POLL QUESTION

Do you support the proposed annual aquatic plant charge on properties around Lake Roesiger for the purpose of controlling invasive aquatic plants in the lake?

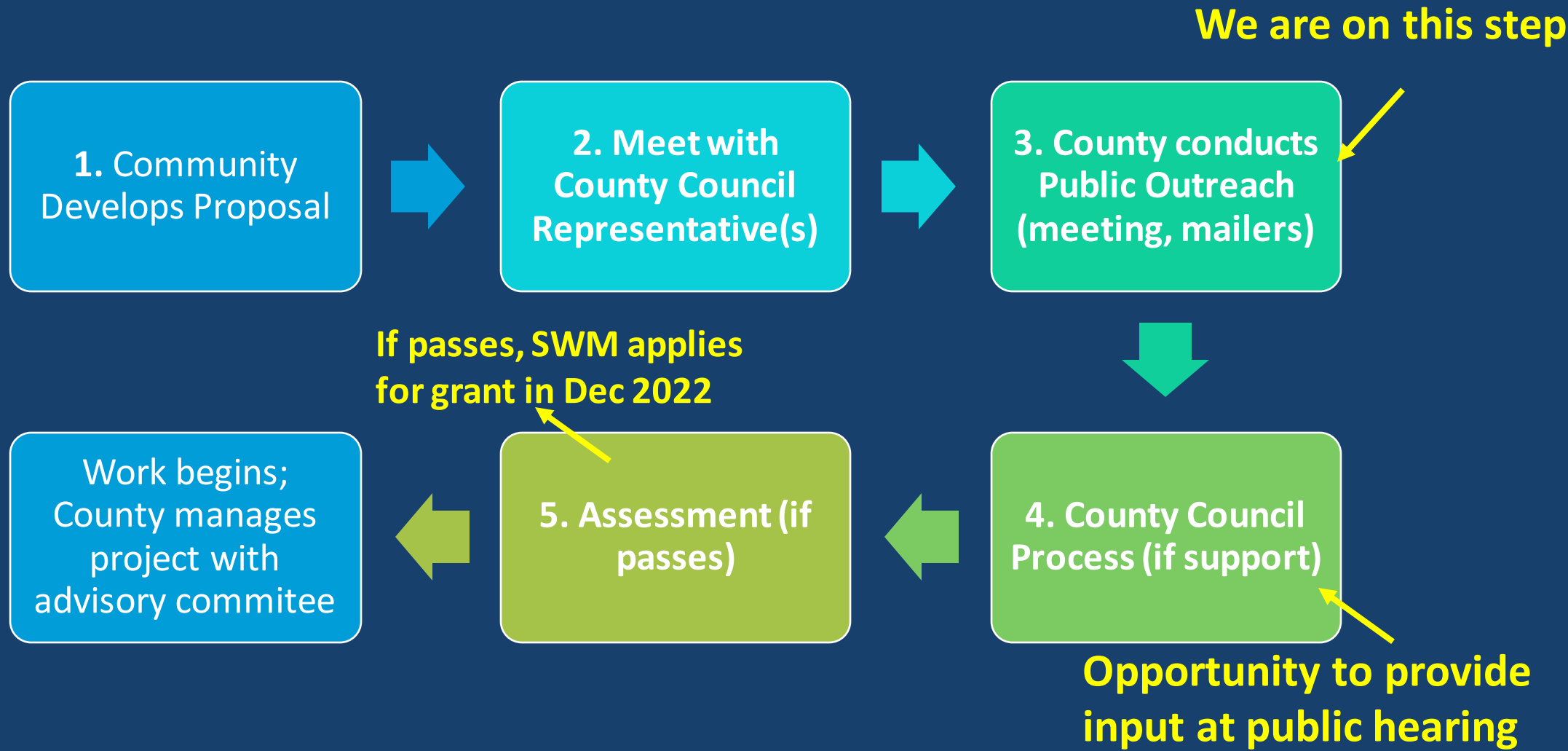
Only people affected by charge may respond



POLL RESULTS DISCUSSION

NEXT STEPS

If there is sufficient community support to move forward



STOP THE SPREAD OF INVASIVE SPECIES

BEFORE LEAVING, TAKE THESE STEPS ON YOUR BOAT, JET SKI OR KAYAK:



Check, remove and throw away mud, plants and aquatic life (milfoil, mussels, etc.).



Drain all water from boat, motor, bilge, ballast, wells and any compartments.



Dry everything fully before going to a different waterbody (air dry 5 days or towel dry).

Check these areas carefully.

Live Well

Transom Well

2022 CONTROL ACTIONS

Knotweed – county control completed

New boat launch sign – installed Aug 10

Community Club volunteer milfoil diving

Community Club training on invasive plants



THANK YOU FOR ATTENDING