

The background of the slide is a light gray gradient with several realistic water droplets of various sizes scattered across it. The droplets have highlights and shadows, giving them a three-dimensional appearance. The text is centered in the middle of the slide.

LAKE REDSTONE PROTECTION DISTRICT ANNUAL MEETING

AUGUST 5, 2023

The background is a light gray gradient with several realistic water droplets of various sizes scattered around the edges. In the center, there is a faint, circular, textured pattern that resembles a ripple or a watermark.

**Please silence
your cellphone**

AGENDA

- WELCOME 5 MITTELSTADT
- ELECTION OF 2 COMMISSIONERS 5 MITTELSTADT
- MINUTES 2022 ANNUAL MEETING 5 KEEGSTRA
- SECRETARY'S REPORT 5 KEEGSTRA
- TREASURER'S REPORT 5 BURKE
- PROPOSED 2024 OPERATING BUDGET 10 BURKE

AGENDA (CONTINUED)

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• WATER QUALITY ISSUES	10	KEEGSTRA
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• QUESTION AND ANSWERS	15	LRPD BOARD



ELECTION OF 2 COMMISSIONERS

MIKE MITTELSTADT



LRPD BOARD

MIKE MITTELSTADT(2024) – CHAIRMAN; PLAN INTEGRATION COMMITTEE CHAIR

PAUL BURKE(2023) – TREASURER; FINANCE COMMITTEE CHAIR

BRAD HORNER(2023) – EDUCATION AND OUTREACH CHAIR

KEN KEEGSTRA(2025) – SECRETARY; WATER QUALITY COMMITTEE CHAIR

PAT SULLIVAN(2025) – ASSISTANT TREASURER; SEDIMENT CONTROL COMMITTEE CHAIR

RAY DEMANSKI – TOWN OF LA VALLE REPRESENTATIVE

PETER KINSMAN – SAUK COUNTY REPRESENTATIVE

2023 CANDIDATES FOR LRPD COMMISSIONER

BRAD HORNER

I have been heavily involved in Lake Redstone matters since moving full time from Madison with my wife Kim to Lake Redstone in 2012.

I have served three years on the LRPD Board. Currently I chair the Education and Outreach Committee.

I have also served 10 years on the Lake Redstone Property Owners Association (LRPOA) Board. I co-wrote the book Lake Redstone the First 50 Years in 2014. I also conceptualized and led the "Lake Redstone 50th Anniversary Celebration" held in June of 2016. Three years ago I started the Adopt a Road program for the roads around Lake Redstone.

I would like another 3 year term on the LRPD Board to continue to contribute.

DAVE CROCKETT

My wife, Jeannine and I purchased a home on Lake Redstone in 2012. Our permanent residence is in Davenport Iowa. We are members of the Lake Redstone Property Owners Association and have performed annual reviews of their financial reports the past several years. I am a member of the Lake Redstone Fishing Club.

My working life included auditing, accounting, bank administration and financial planning. I retired in 2015. I have served on our church finance committee and investment committee. I currently volunteer with the food pantry.

The Protection District has worked hard to protect and rehabilitate Lake Redstone. There has been great progress made through the efforts of many. I would love to join the Board and contribute to the efforts.

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2022 ANNUAL MEETING MINUTES

KEN KEEGSTRA



SECRETARY'S REPORT

KEN KEEGSTRA





TREASURER'S REPORT

PAUL BURKE



MEADOWLARK WEIR PROJECT

Item	Amount
Wisconsin DNR	\$56,811.40
Sauk County	\$8,137.50
LRPD	\$24,086.10
Total Cost	\$89,035.00

TRIBUTARY SAMPLING PROJECT

Item	Amount
USGS	\$11,000
Sauk County	\$16,275
LRPD	\$16,725
Total Cost	\$44,000

BALANCE SHEET AS OF 07/11/2023

ASSETS

Cash and Bank Accounts

Checking LRPD	89,102.92
Clearing Account	0.00
Dredging Savings	94,514.80
LGIP - Maint	80,877.17
Accounts Receivable	0.00
TOTAL Cash and Bank Accounts	264,494.89

Other Assets

Accounts Receivable Grant 1064	0.00
Accounts Receivable Grant 1065	0.00
Real Estate	233,946.00
TOTAL Other Assets	233,946.00

TOTAL ASSETS 498,440.89

LIABILITIES

Other Liabilities

Accounts Payable	0.00
Dredging Loan - Royal Bank	2,172,990.10
Fund Balance	0.00
LPL 1064 - 06 Grant	0.00
LPL 1065 - 06 Grant	0.00
Meronek Meadows Draw	0.00
Meronek Meadows Loan	8,493.06
TOTAL Other Liabilities	2,181,483.16

TOTAL LIABILITIES 2,181,483.16

PROPOSED INCOME 2024

	2022 Jan. - Dec. Actual	2023 Approved Budget	2023 Jan. - June Actual	2023 July - Dec. Estimated	2023 Jan. - Dec. Estimated	2024 Proposed Budget
Revenue & Reimbursement for Grants						
DNR Grant Funding (see below)						
- Aquatic Plant Management Plan	\$7,500	\$2,500			\$0	\$2,500
- Clean Boats/Clean Water Grant	\$2,613	\$4,000	\$1,000	\$3,000	\$4,000	\$4,000
- Lake Management Planning Grant	\$17,029				\$0	
- Surface Water Grant - Martin Meadowlark Weir		\$37,500	\$14,202		\$14,202	\$42,609
- Surface Water Grant - South Chickadee Repair		\$37,500	\$10,875		\$10,875	
Sauk County Grant Funding (see below)						
- Martin Meadowlark Weir	\$3,750	\$0		\$4,069	\$4,069	\$4,069
- Stream Sampling	\$10,000				\$0	
- Swallow Bay Weir	\$2,000	\$0			\$0	
- Tributary Stream Sampling				\$8,138	\$8,138	\$8,138
FEMA Funds for Meronek Meadows Repair	\$16,329	\$0			\$0	
Interest Income	\$1,026	\$100	\$1,593	\$1,000	\$2,593	\$1,000
General Tax Levy	\$84,399	\$105,800	\$70,492	\$35,347	\$105,839	\$110,936
Draw from Maintenance Fund	\$0	\$33,000			\$0	\$21,500
Grant Advance Payment from previous year					\$0	\$37,283
Total Revenue:	\$144,647	\$220,400	\$98,162	\$51,553	\$149,716	\$232,035
Tax Levy						
- General	\$84,399	\$105,800	\$70,492	\$35,308	\$105,800	\$110,936
- Dredging	\$351,001	\$351,000	\$250,609	\$100,391	\$351,000	\$351,000
Total Tax Levy	\$435,400	\$456,800	\$321,101	\$135,699	\$456,800	\$461,936

Note: Special dredging levy approved on May 18th 2019

PROPOSED EXPENSES 2024

Budget Category	2022 Jan. - Dec. Actual	2023 Approved Budget	2023 Jan. - June Actual	2023 July - Dec. Estimated	2023 Jan. - Dec. Estimated	2024 Proposed Budget
General						
- Buoys	\$886	\$500	\$821		\$821	\$1,000
- Commissioner per diem and consulting fees	\$11,124	\$14,000	\$2,682	\$8,047	\$10,730	\$14,000
- Insurance	\$1,565	\$2,000	\$1,562		\$1,562	\$2,000
- Financial Review	\$4,000	\$6,000	\$2,000	\$4,000	\$6,000	\$1,000
- Legal Fees	\$80	\$3,500	\$1,368	\$1,500	\$2,868	\$3,500
- Meronek Meadows Loan Payment	\$32,122	\$16,400	\$8,169	\$8,500	\$16,669	
- Office, Administration, and Mailing	\$4,757	\$3,000	\$1,821	\$1,200	\$3,021	\$3,000
- Wisconsin Association of Lakes Convetnion	\$3,305	\$3,000	\$1,877		\$1,877	\$3,000
Education and Outreach Funding		\$2,000		\$500	\$500	
- Newsletter	\$3,385	\$4,000	\$3,996		\$3,996	\$4,000
- PLRW Field Day					\$0	\$1,000
- Property owners for shoreline improvement incentive					\$0	\$10,000
- Sauk county lakes meeting					\$0	\$1,000
Plan Integration					\$0	
- Lake Mgt. Plan Sauk Cty. Yearly Employee Support					\$0	\$1,000
- Lake Mgt. Plan Consultant					\$0	\$20,000
- Producer Conservation Practices Incentives					\$0	\$2,000
Sediment Control					\$0	
- Design & Repair of Martin Meadowlark Weir		\$54,000			\$0	\$89,035
- Design & Repair of South Chickadee Bay		\$54,000	\$9,262	\$10,875	\$20,137	
- Lake Maintenance and Erosion Control	\$6,035	\$10,000	\$47	\$3,000	\$3,047	\$8,000
- Swallow Bay Repair	\$8,114				\$0	
- Watershed Improvement Funding	\$3,841	\$12,000		\$1,000	\$1,000	\$10,000
Water Quality					\$0	
- Aquatic Plant Management	\$19,178	\$15,000		\$10,000	\$10,000	\$15,000
- DNR Grant Clean Boats/Clean Water	\$3,342	\$4,000	\$615	\$3,885	\$4,500	\$4,500
- DNR Grant Lake Management Planing Grant	\$0	\$0			\$0	
- DNR Grant Aquatic Plant Management Plan	\$8,443	\$5,000	\$3,500	\$1,500	\$5,000	
- Stream/Lake Monitoring, Sampling	\$36,400	\$12,000	\$20	\$11,000	\$11,020	\$6,000
- Tributary Stream Sampling					\$0	\$33,000
Grant Advance Payment Carryover				\$37,283	\$37,283	
Total Budget	\$146,577	\$220,400	\$37,740	\$102,291	\$140,030	\$232,035

BUDGET MOTION

I MOVE THAT WE APPROVE THE PROPOSED 2024 BUDGET WITH OPERATING EXPENSES OF \$232,035 AND AN OPERATING EXPENSE LEVY OF \$110,936.

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HIGH LEVEL OVERVIEW

MIKE MITTELSTADT

LAKE MANAGEMENT PLAN HIGH LEVEL OVERVIEW

- **IMPLEMENT BEST MANAGEMENT PRACTICES(BMP) THROUGHOUT THE WATERSHED TO REDUCE SEDIMENT AND PHOSPHORUS LOADING INTO LAKE REDSTONE**
- **IMPROVE THE RIPARIAN AREA BY IMPLEMENTING BMPS TO INCREASE QUALITY HABITAT FOR WILDLIFE AND MITIGATE THE EFFECTS OF DEVELOPMENT ON LAKE REDSTONE**
- **USE BMPS WITHIN LAKE REDSTONE TO REDUCE NEGATIVE IMPACTS FROM POLLUTION, AQUATIC INVASIVE SPECIES, AND SHORELINE EROSION**
- **BUILD AND MAINTAIN PARTNERSHIPS WITH OUTSIDE RESOURCE, STATE, UNIVERSITY, COUNTY, LAKE GROUPS, AND OTHER LOCAL ENTITIES TO GUIDE THE IMPLEMENTATION OF BMPS**

LAKE MANAGEMENT PLAN

KEY PARTNERSHIPS

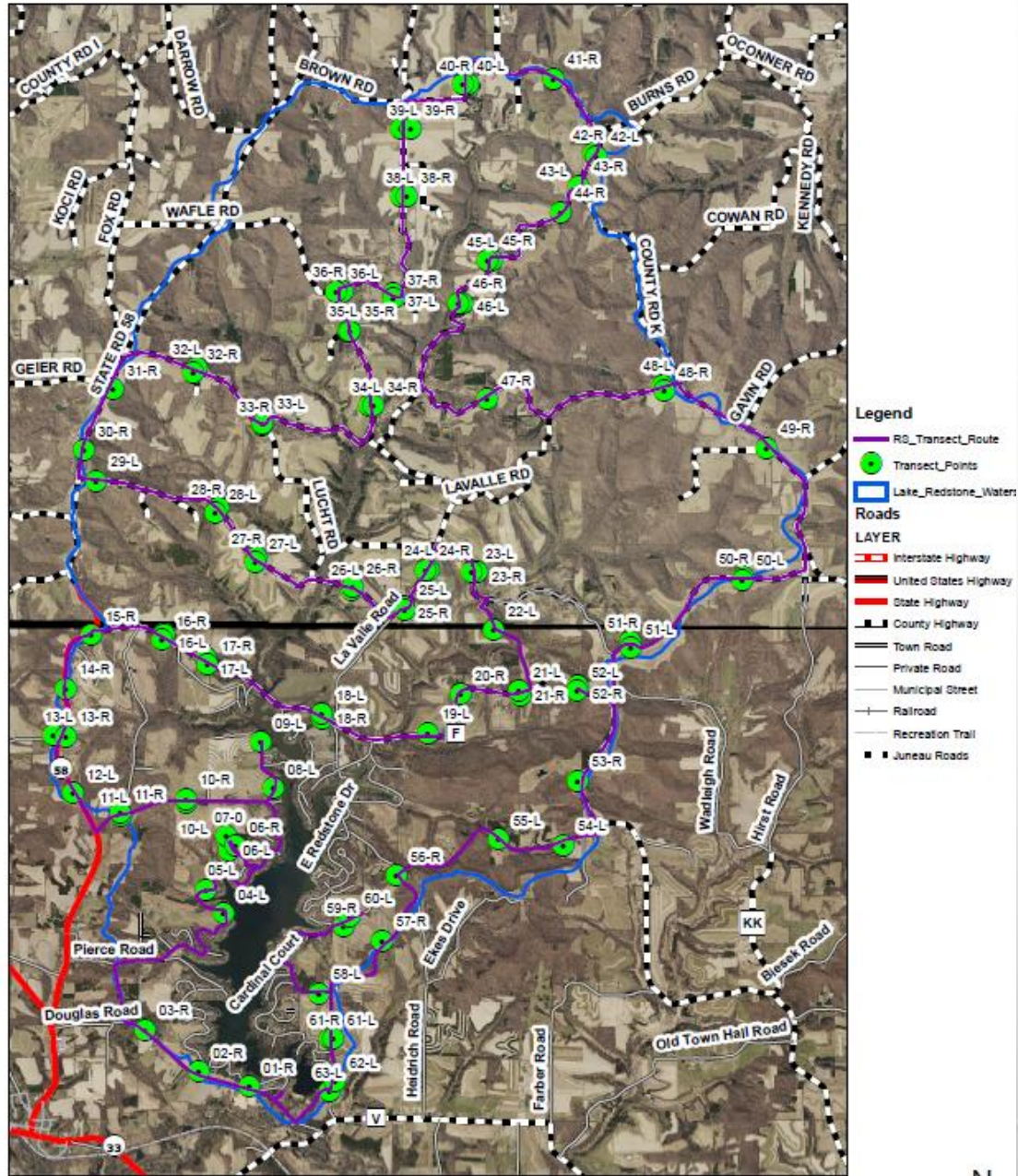
- SAUK COUNTY LAND RESOURCES AND ENVIRONMENT DEPARTMENT
- JUNEAU COUNTY LAND AND WATER RESOURCES DEPARTMENT
- PRODUCERS OF THE LAKE REDSTONE WATERSHED (A PRODUCER LED COOPERATIVE)
- DISCOVERY FARMS (A PROGRAM OF UW-MADISON DIVISION OF EXTENSION)
- LAKE REDSTONE PROPERTY OWNERS' ASSOCIATION
- WISCONSIN DEPARTMENT OF NATURAL RESOURCES
- UNITED STATES GEOLOGICAL SURVEY (USGS)
- TOWN OF LAVALLE
- PROPERTY OWNERS ON LAKE REDSTONE
- GENERAL LAKE USERS

PLAN INTEGRATION COMMITTEE

- MIKE MITTELSTADT, CHAIR
- **VOLUNTEERS:** PAUL BURKE, DON HAASL, MATT MESSMER, JIM OLSON, SHERRYL PERTZBORN, CARY DUDZAK, DICK FISH, KEN KEEGSTRA, KEN KIDD, PAT SULLIVAN

1. Milestone tracking and monitoring
2. Coordinating with partners to report progress
 - A. Sauk County – Producers BMP
 - B. USGS – Stream Monitoring
 - C. Fishing Club – Carp removal
 - D. Sauk County – Transect Survey

Lake Redstone Protection District Transect Survey Route






EDUCATION AND OUTREACH

BRAD HORNER

COMMITTEE MEMBERS SUE WALTERS AND JAY KOLB



ACTIONS SINCE LAST AUGUST

- PRODUCERS FIELD DAY
 - PARTNERS MEETING
 - ANNUAL “PROTECTION CONNECTION” NEWSLETTER
 - WIDESPREAD COMMUNICATION OF 2022 SURVEY RESULTS
 - TAKE A STAKE IN THE LAKE (NEW EVENT!)
 - REGULAR UPDATES TO LRPD WEBSITE AND FACEBOOK
 - MONTHLY LRPD BOARD MEETINGS
 - PARTNERING WITH PROPERTY OWNERS ASSOCIATION FOR COMMUNICATIONS
- 

PLANNED ACTIONS FOR NEXT 12 MONTHS

- CONTINUE THE REGULAR EVENTS/ACTIONS. NO TAKE A STAKE IN THE LAKE
- POTENTIAL FOR A “SHORELINE SHOWCASE” VIRTUAL AND/OR PHYSICAL TOUR OF PROPERTIES.

This lot had massive amounts of runoff into the lake due to a culvert and just grass. Now there is almost zero runoff. Not shown: deflecting berm and rock-embedded gulleys above the shoreline.



- INITIATION OF A “SHORELINE REIMBURSEMENT PROGRAM” IF APPROVED. UP TO \$2000 REIMBURSEMENT TO PROPERTY OWNERS IN ADDITION TO POTENTIAL \$\$ FROM SAUK COUNTY AND DNR



This grass-only lot contributes tons of sediment and an estimated 14 lbs. of phosphorus annually to the lake

The background of the slide is a light gray gradient. In the top-left and bottom-right corners, there are several realistic-looking water droplets of various sizes, some overlapping. The text is centered on the slide.

SEDIMENT CONTROL

PAT SULLIVAN, CHAIR

VOLUNTEERS: PAUL BURKE, CARY DUDCZAK, DICK, FISH, BRAD HORNER,
MIKE MITTELSTADT, AL JOHNSON(TOWN OF LA VALLE)

SEDIMENT CONTROL COMMITTEE

Status of 2023 DNR Surface Water Grants

- Chickadee South
- Meadowlark Weir

SEDIMENT CONTROL COMMITTEE

Prioritize stream/gully washes for runoff issues

Scale for Points: 1 Low 5 high

	Property Damage	Volume of Water	Ease of Fix (higher means easier fix)	Bad Content of Runoff	TOTAL POINTS (larger # of points indicate higher priority)	Action and Comments
Chickadee South (North end)						2 Clean out ditch .
Chickadee South (South end)						1 Plan already in place . DNR grant approved Mar 23
Chickadee North	1	2	2	4	9	2 Owner on west side of road may want to do something. O'Brien owns property next to his. No LRPD responsibilities. Possible retention pond on west side of road.
Warbler	4	5	4	1	14	3 Get county input. May be a healthy lakes project?
Eagle South/Hopi Ct	4	5	3	2	14	2 and 3 Potential prop owner solution. Gulley of rocks from road culvert to lake. Trees blocking flow. Increase size of culvert. City working with farm owner
Eagle/Timmons Rd	2	4	3	2	11	2 and 3. Upstream, Al is talking with landowner. Clear brush. Possible bridge. Change culvert size.
Cardinal going south.	4	4	2	2	12	2 or 3 Maintenance needed to clear rocks and make deeper (going in to lake). Possible retention pond. Possible LRPD responsibility. Take out concrete bridge.
Little Mourning Dove	2	5	1	2	10	3 Al look at it. Culvert on west side of road has dislocated. Other culvert under driveway appears blocked. May need new culvert under road.
Fox	1	4	4	5	14	3. LRPD have culvert removed @ lake. Review priority
Arapaho Beach Club	2	3	2	2	9	1 Retention pond East of Road.
Tanager	2	3	NA	2	7	2 Sediment pond on opening of culvert? Property owner responsibility. Clear ditch to Lake

Actions:

1= No Action by Committee

2= Suggested Improvements by Owner. Get Back to Owner

3= Next Step Necessary by LRPD.

SEDIMENT CONTROL COMMITTEE

Reduce gully/ravine erosion in riparian zone



Before



After

SEDIMENT CONTROL COMMITTEE

Maintenance review sediment control structures

- Swallow Bay
- Meronak Meadows
- Meadowlark



2021



2022

SEDIMENT CONTROL COMMITTEE

2023 Summer/Fall Projects

- Cardinal Bay
- Eagle Bay
- Chickadee North

The background is a light gray gradient. In the top-left and bottom-right corners, there are several realistic water droplets of various sizes, some overlapping. The droplets have highlights and shadows, giving them a three-dimensional appearance. In the center of the page, there is a faint, circular watermark logo consisting of concentric lines and a central emblem.

WATER QUALITY ISSUES

KEN KEEGSTRA

WATER QUALITY PROJECTS COMMITTEE

- KEN KEEGSTRA, CHAIR

- **VOLUNTEERS:** TOM ALBERT, PAUL BURKE, CHUCK ECKLUND, KEN KIDD, JAY KOLB, PAT SULLIVAN, LAURIE VIDELE, TOM WAGNER, SUE WALTERS, TOM WALTERS

1. Updating of Aquatic Plant Management Plan (APMP)
2. Update on lake water monitoring program
3. Connection to stream monitoring program (USGS)
4. Ideas to lower phosphorus levels in Lake Redstone

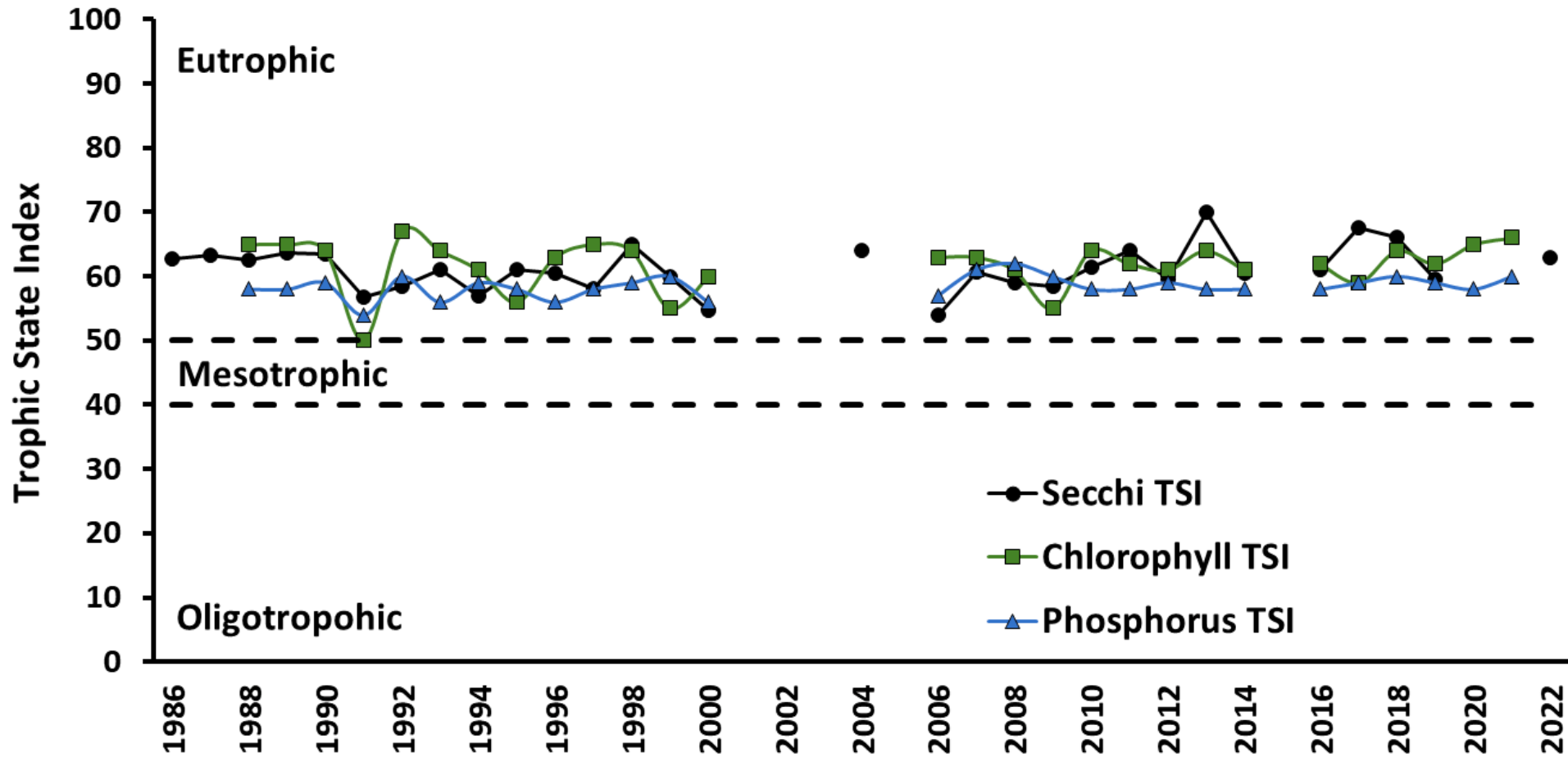
REVISED AQUATIC PLANT MANAGEMENT PLAN

Major points/goals & recommendations

- PLANT POPULATIONS ARE DECLINING IN LAKE REDSTONE
- PROTECT NATIVE AQUATIC PLANTS AND OTHER ORGANISMS
- MONITOR AND MANAGE EURASIAN WATERMILFOIL TO MAINTAIN OCCURRENCE THAT ALIGNS WITH BENEFICIAL USE OF LAKE REDSTONE
- PREVENT INTRODUCTION OF NEW INVASIVE SPECIES
- PROVIDE EDUCATIONAL OPPORTUNITIES PERTAINING TO AQUATIC PLANTS, AQUATIC INVASIVE SPECIES AND MANUAL REMOVAL TECHNIQUES

TROPHIC STATE INDEX IN LAKE REDSTONE

Lake Redstone Average Trophic State Index 1986 - 2022 Summer (July-August)
Deep Hole Monitoring Site

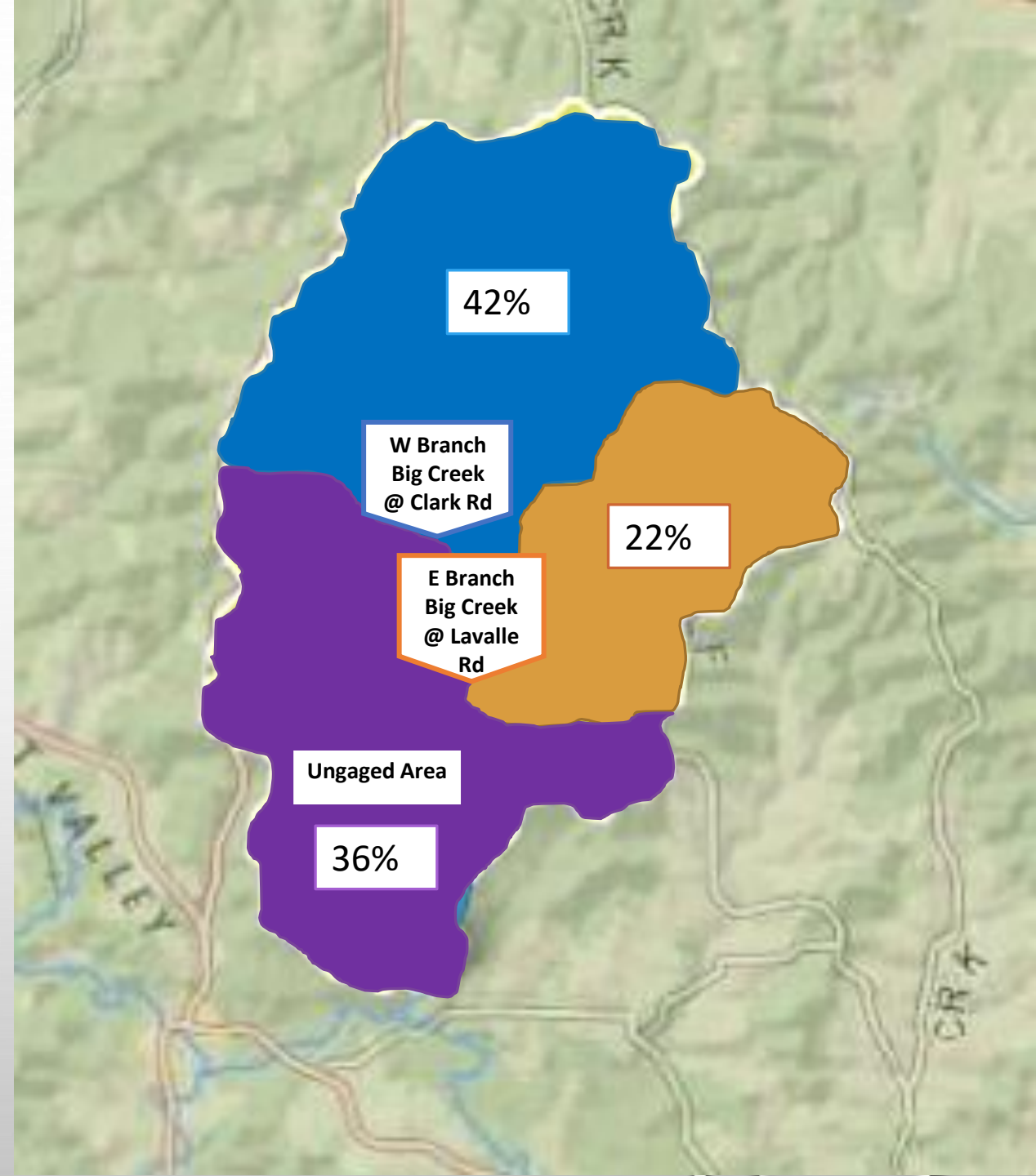


LAKE REDSTONE DRAINAGE AREA-28.8 SQ MILES

W Branch Big Creek @ Clark Rd = 12 mi² = 42%

E Branch Big Creek @ Lavelle Rd= 6.38 mi² = 22%

Ungaged Area = 10.42 mi² = 36%



USGS-LAKE REDSTONE STREAM MONITORING

TWO MAJOR INLET STREAMS AND OUTLET STREAM

Water Year 2021

- October 1, 2020 – September 30, 2021
- Installed auto-samplers to collect TP and SS samples
- Data Collection: Discharge + Concentrations = Loads

Water Year 2022:

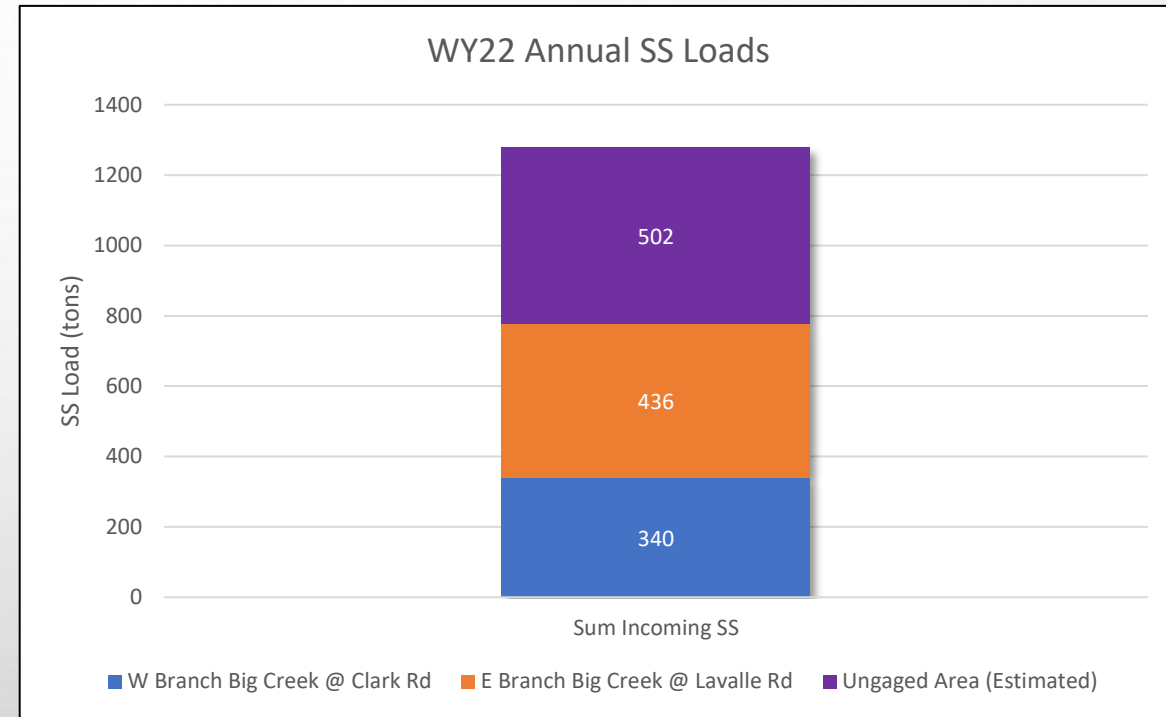
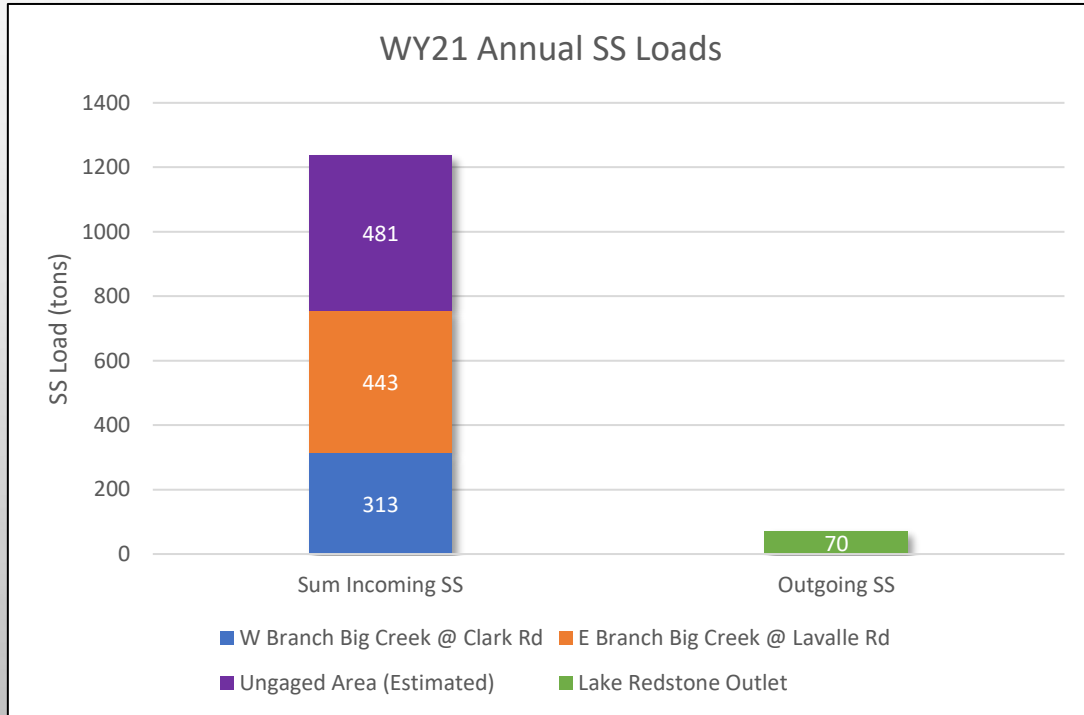
- Completed 2nd year of loading data collection on 9/30/22
- Sampled 24 of the ~30 events this year
- Another dry year -- slightly less precip than last year
- WY22 discharge and loads were similar to WY21 loads
- Most sediment and phosphorus enters the lake during major storms



COMPARISON OF SEDIMENT ENTRY IN FIRST TWO YEARS

WY2021 = October 1, 2020 thru September 30, 2021

WY2022 = October 2, 2021 thru September 30, 2022

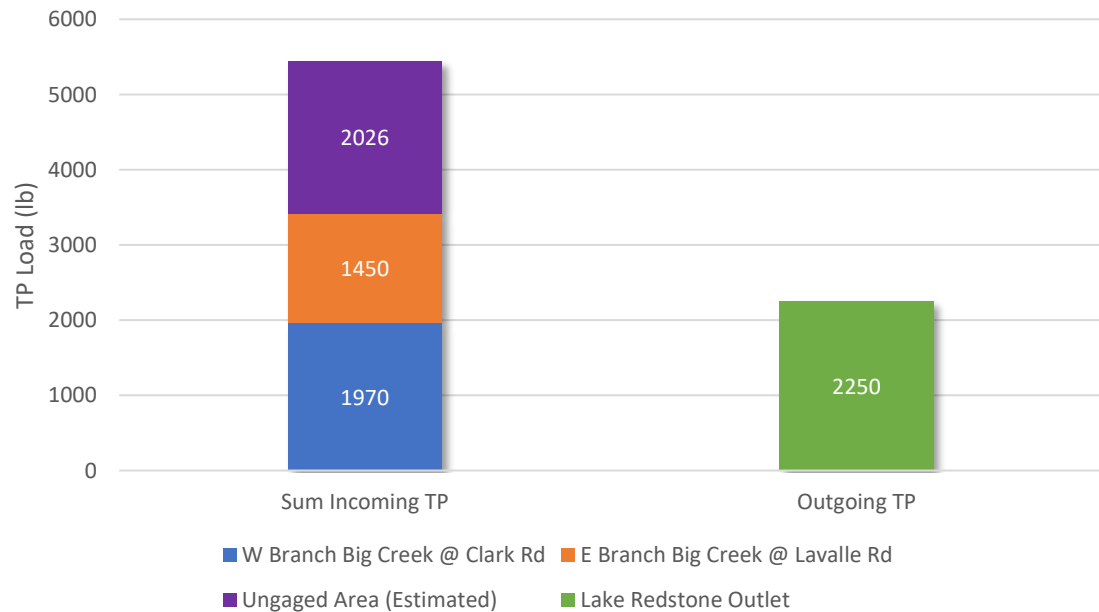


COMPARISON OF PHOSPHORUS ENTRY IN FIRST TWO YEARS

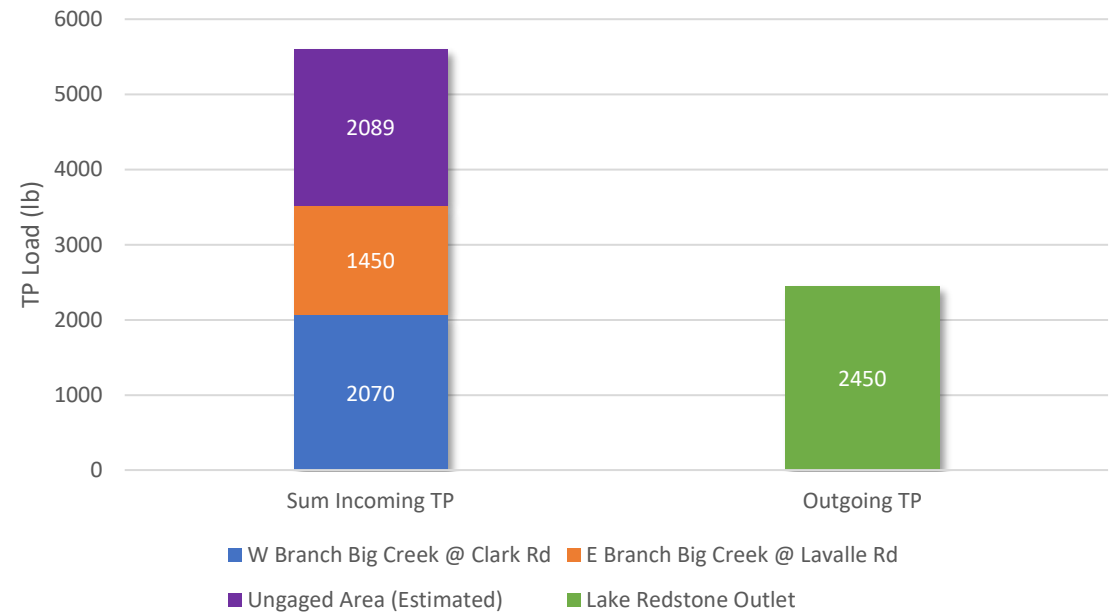
WY2021 = October 1, 2020 thru September 30, 2021

WY2022 = October 2, 2021 thru September 30, 2022

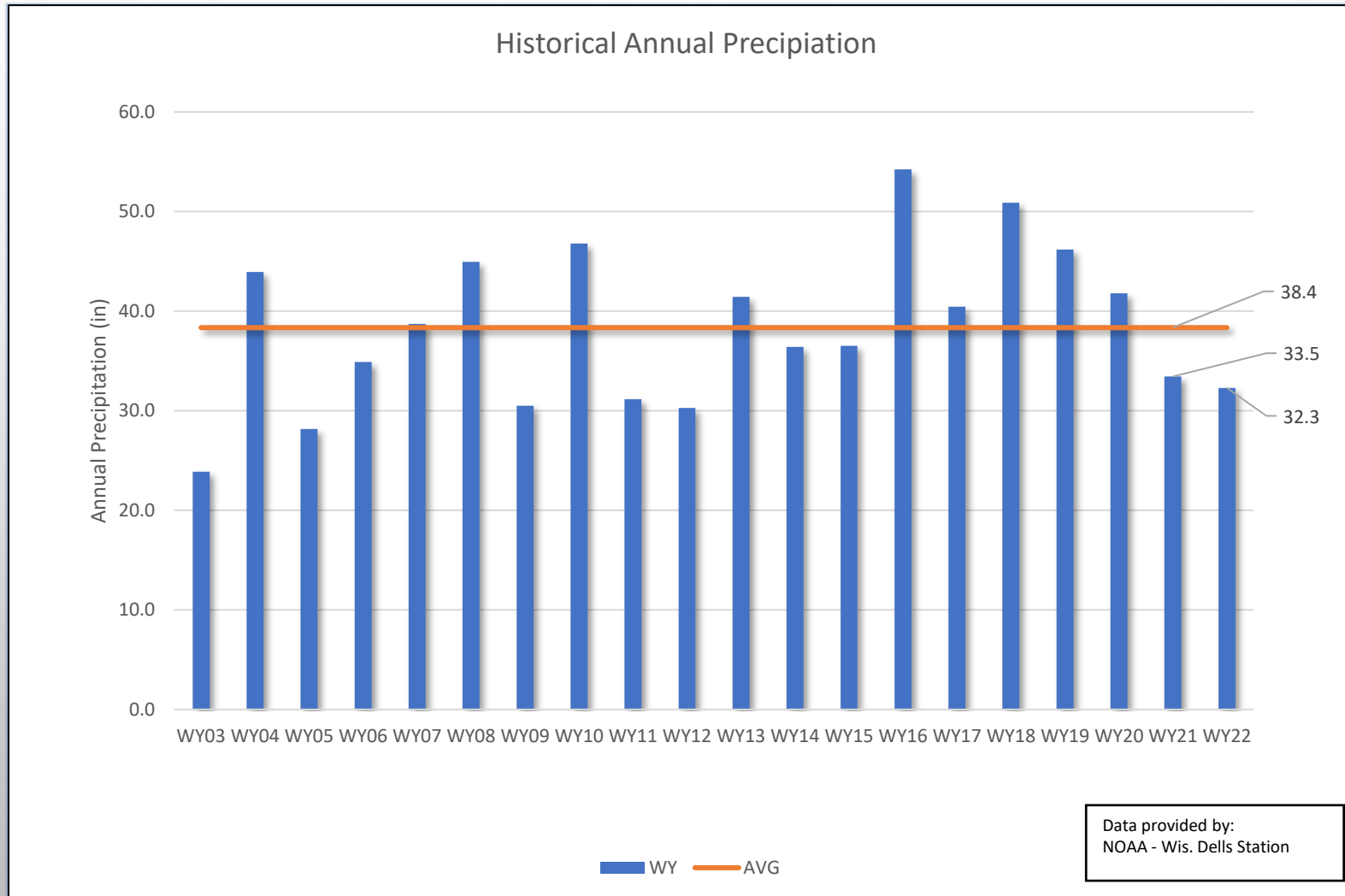
WY21 Annual TP Loads



WY22 Annual TP Loads



WY21 & 22 WERE DRYER THAN AVERAGE





INTRODUCE NEW COMMISSIONERS

MIKE MITTELSTADT



QUESTIONS & COMMENTS

- **LIMITED TO 1 QUESTION/COMMENT PER PERSON AND 3 MINUTES INCLUDING RESPONSE**
- **PLEASE IDENTIFY YOURSELF FOR THE RECORD**



THANK YOU!

FOR MORE INFORMATION:

WWW.LAKEREDSTONEPD.ORG

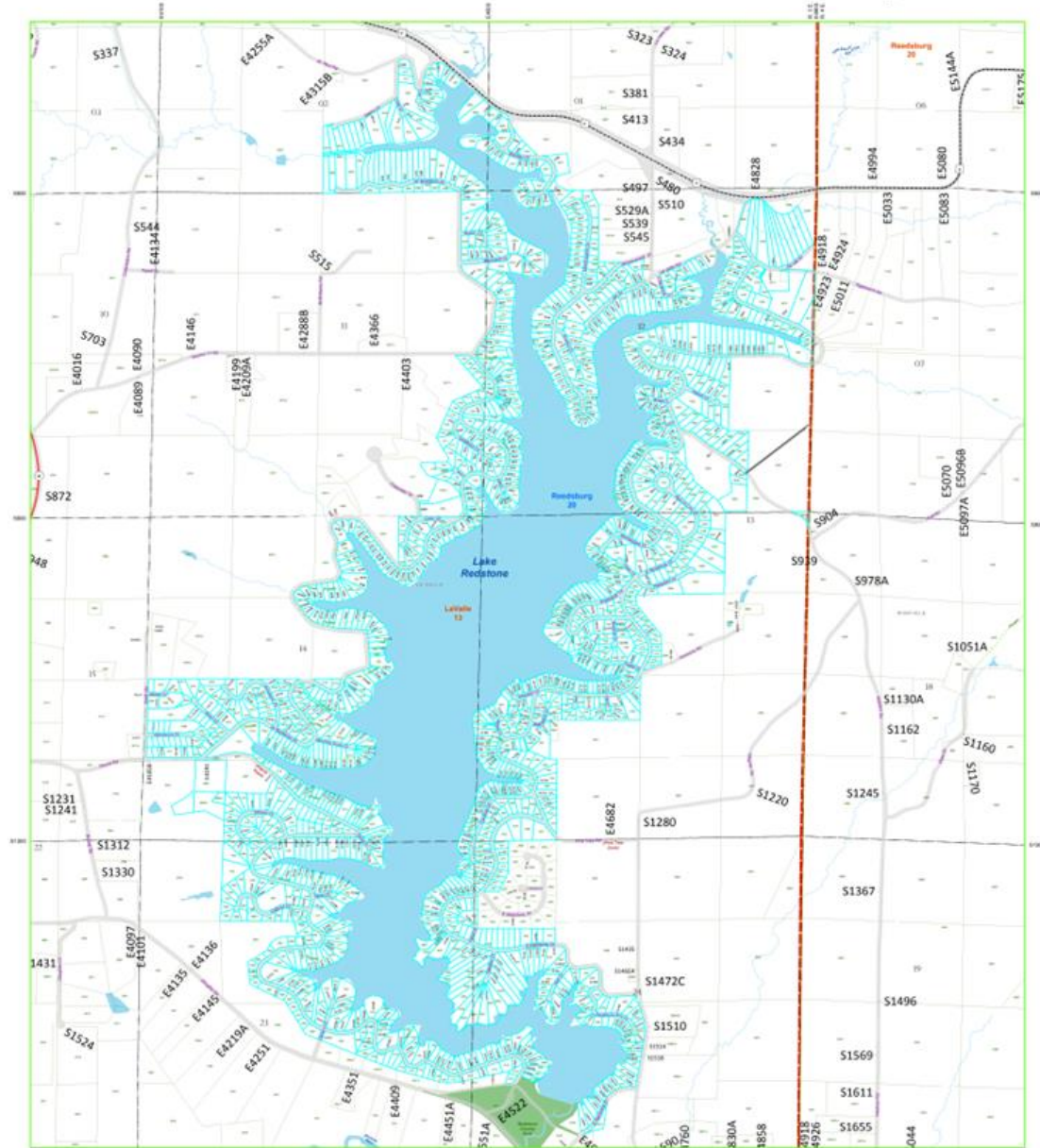
LRPD.BOARD@GMAIL.COM

EXTRAS

Fire Number Map

Lake Redstone Detail

Sauk County, WI T. 13N - R. 3 E.



0 650 1,300 2,600 3,900 5,200 Feet

