



# 2025 Monitoring Work Plan

**Josh Beranek**

***Water Resource Coordinator***

*Pelican River Watershed District*

PELICAN RIVER

watershed district



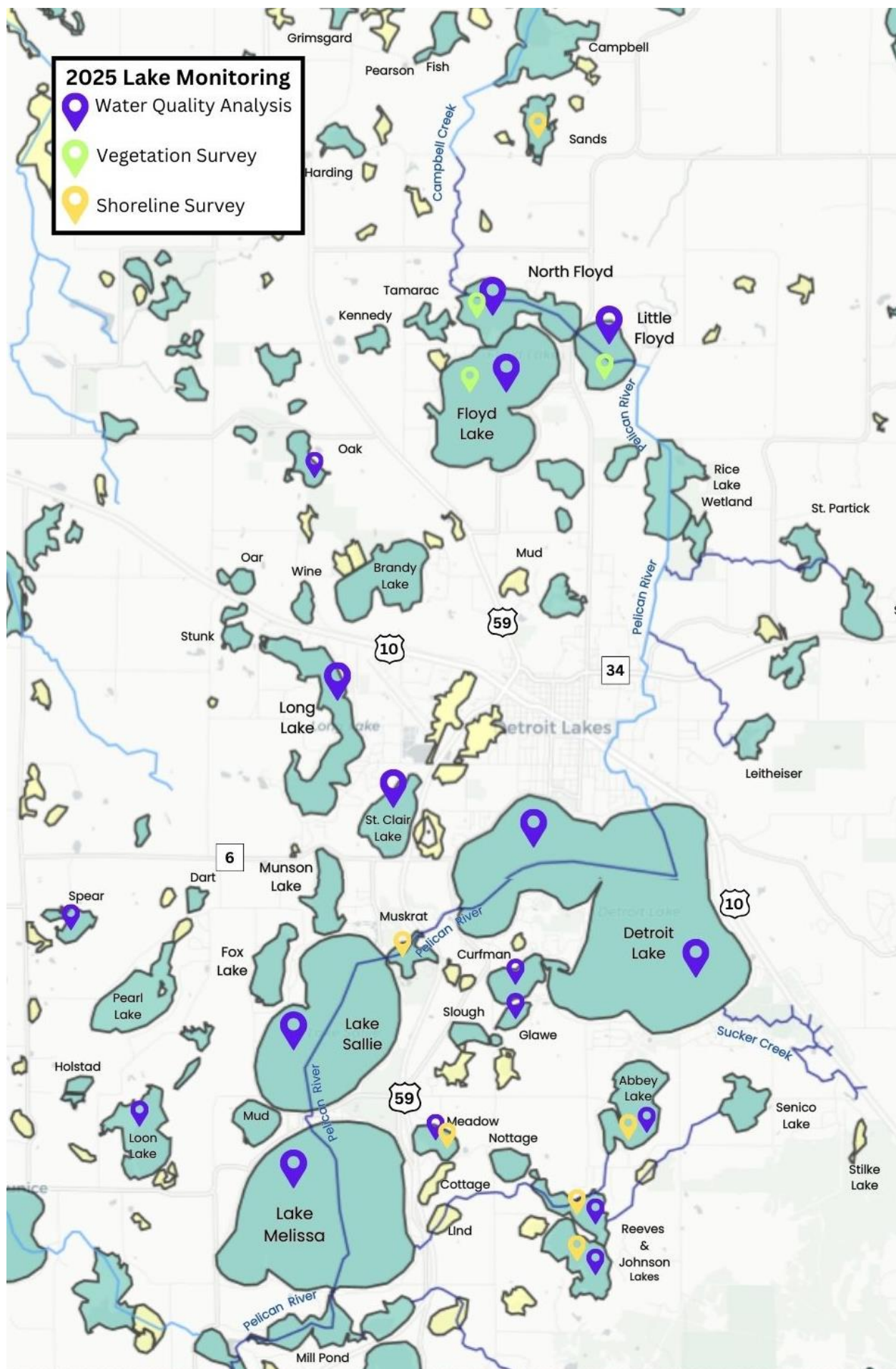
2025 Lake Sites				Water Quality	Ecological Integrity	
EQuIS ID	Lake Name	LWQMA	Monitoring	Water Chemistry/Clarity	Vegetation Survey	Shoreline Survey
03-0387-02-206	Big Floyd Lake	Floyd/Campbell	Major	X	X	
03-0387-01-207	North Floyd Lake	Floyd/Campbell	Major	X	X	
03-0386-00-201	Little Floyd Lake	Floyd/Campbell	Major	X	X	
03-0419-00-100	Campbell Lake	Floyd_Campbell	Minor	X		
03-0381-00-204	Big Detroit Lake	Detroit/Rice	Major	X		
03-0381-00-207	Little Detroit Lake	Detroit/Rice	Major	X		
03-0363-00-202	Curfman Lake	Detroit_Rice	Minor	X		
03-0382-00-202	Saint Clair Lake	Sallie/Melissa	Major	X		
03-0359-00-201	Lake Sallie	Sallie/Melissa	Major	X		
03-0475-00-202	Lake Melissa	Sallie/Melissa	Major	X		
03-0489-00-201	Loon Lake	Pearl	Minor	X		
03-0485-00-201	Spear Lake	Pearl	Minor	X		
03-0392-00-201	Oak Lake	Brandy	Minor	X		
03-0371-00-201	Meadow Lake	Small lakes	Minor	X		X
03-0358-00-201	Fox Lake	Fox_Munson	Minor			X
03-0360-00-201	Muskrat Lake	Sallie_Melissa	Minor			X

*\*Dependent on access. Aerial imagery suggest lake may be inaccessible. If staff can not reasonably access, an alternate will be use.*

#### **Notes:**

- **Standard Operating Procedures** – All lakes will be sampled per the 10-year Monitoring Plan adopted in 2020.
- **Water Chemistry (TP, OP, CHL-A)** – Per MPCA Guidance – collected June 1<sup>st</sup> – Sept 30<sup>th</sup> minimum of 8 times throughout the growing season (approx. 2x/month)
- **Water Quantity** – Lake gages will be maintained on Little Floyd, Detroit, Sallie, Melissa Lakes and St. Clair Lakes.
- **Ecological Integrity** – Vegetation Surveys will occur in late July to early August. Shoreline Surveys will occur as opportunity presents.
- **Staffing** – 2 Seasonal Interns will be hired from May to August. These interns will be tasked with collecting most of the data that is in this work plan.
- **Equipment** – All staff will be adequately trained with the field equipment.

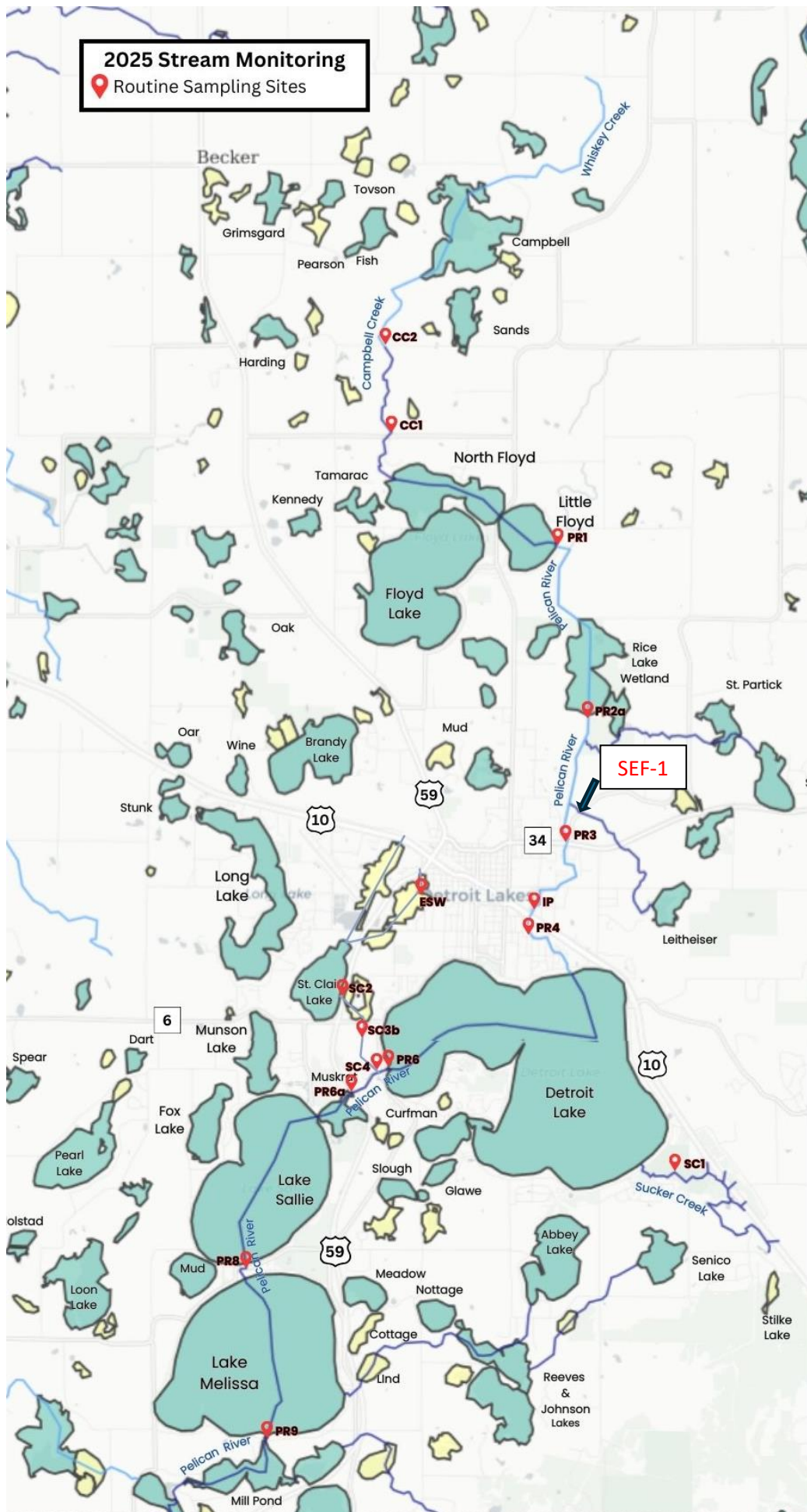






## 2025 Stream Monitoring

📍 Routine Sampling Sites





Site	EquiS Location ID	Stream Site Description	Weekly Visit			Bi-Weekly Event/Storm			2025 NOTES
			Staff Gauge	Chemical	E. Coli	Flow	Chemical	E. Coli	
CC2**	S002-164	Campbell Creek at 230th St	X	X		X	X		
CC1**	S002-163	Campbell Creek at CR-149	X	X		X	X		
PR1	S002-167	Little Floyd Outlet on Little Floyd Rd	X	X					
PR2a**	S016-453	Pelican River at Rice Lake Outlet (Rice Lake Structure)	X	X		X	X		
PR3	S002-169	Pelican River at State Highway 34	X	X	X	X	X	X	
SEF1	S002-183	North of PR3 SE flowage off County Road 141		X	X		X	X	Investigating E.coli
PR4b	S002-170	Pelican River at Corbett Rd						X	
PR4a**	S002-176	Pelican River at Railroad Trestle	X	X	X	X	X	X	
PR6**	S002-172	Pelican River at Detroit Lake Outlet	X	X		X	X		
PR6a	S009-364	Pelican River at US Highway 59	X	X					
PR8	S002-174	Pelican River at Lake Sallie Outlet	X	X					
PR9	S002-175	Pelican River at Lake Melissa Outlet	X	X					
SC3**	S002-158	Ditch 14 at Lake St. Clair Outlet	X	X		X	X		
SC3b	S005-247	Ditch 14 Between Lake St. Clair and Pelican River	X	X					
SC4	S002-160	Ditch 14 at Outlet to Pelican River	X	X		X	X		
SU1**	S002-162	Sucker Creek at Outlet to Detroit Lake	X	X		X	X		
IP	S015-007	Industrial Park By dog park bridge	X		X		X	X	
PUB	PD00033	Public Water Access Storm Water Outflow (Roosevelt Ave)						X	ONLY IF FLOW
ESW	PS00177	Stormwater pond East of Cheryl Ave.					X	X	ONLY IF FLOW
PR3a	S016-006	8th Street North East of IP North Side of road					X	X	
PR5	S002-171	Pelican River at North Shore Drive (South side)						X	
PAV-E	S002-186	Pavilion East-picnic area- Storm water outflow					X	X	ONLY IF FLOW
PAV-W		Pavilion West-Washington Ave. outflow					X	X	ONLY IF FLOW

#### \*\* HOBO

IF THERE IS NO FLOW DO NOT SAMPLE AT THAT SITE	
TP, OP	2 Bottles
TP, OP, TSS	3 Bottles
Ecoli	1 Bottle

#### Notes:

- HOBO's** – HOBO units will be placed by the water Resource Coordinator as soon as streams open up in the spring. If possible, they will remain in place just prior to freeze up in the fall. While HOBO units are deployed, we will take biweekly samples at those sites.
- Water Quality** – All Samples will be taken per the 10-year Monitoring Plan adopted in 2020 at the locations noted in the chart above.
- Ecological Integrity** – *Campbell Creek* – District staff will continue to cooperate with the MN DNR staff to perform surveys of the channel erosion on Campbell Creek.
- Water Quantity** – Staff will be taking extensive flow readings to improve rating curves at key locations (Minimum of 12 readings). Staff gages will be maintained at all noted sites. Staff gauges will be inspected and cleaned prior to the start of the field season. Gage zero will be surveyed at the beginning and end of the season.
- Staffing** – 2 Seasonal Interns will be hired from May to August. These interns will be tasked with collecting most of the data that is in this work plan. Water Resource Coordinator will be responsible for any other data collection.
- Equipment** – A new staff gauge will be installed at the PR3 (the bottom section has rusted away). All staff will be adequately trained with the field equipment.
- Special Study** – Systematic testing of E. coli in the Pelican River will be performed to locate the source of the E. coli. Staff will use their best judgment to take more samples at key locations when E.coli loads are high.



2025 Water Monitoring Budget				
Routine Sampling Lakes (8 samples/16 lkes) & Stream (18 sites/20 weeks)				
Metric	# of Sites	# of Samples	RMBEL Price	Total
Total Phosphorous	28	488	\$ 24.00	\$ 11,712.00
Orthophosphate	28	488	\$ 29.00	\$ 14,152.00
Chlorophyll-a	16	128	\$ 30.00	\$ 3,840.00
Total Suspended Solids	5	100	\$ 23.00	\$ 2,300.00
E-Coli **	4	80	\$ 30.00	\$ 2,400.00
<b>Total</b>				<b>\$ 34,404.00</b>
Storm Event Sampling Streams -Budget for 5 events				
Metric	# of Sites	# of Samples	RMBEL Price	Total
Total Phosphorous	15	75	\$ 24.00	\$ 1,800.00
Orthophosphate	15	75	\$ 29.00	\$ 2,175.00
Total Suspended Solids	4	20	\$ 23.00	\$ 460.00
E-Coli -Special Project Testing**	11	55	\$ 30.00	\$ 1,650.00
<b>Total</b>				<b>\$ 6,085.00</b>
<b>Total Sampling:</b>				<b>\$ 40,489.00</b>
Seasonal Staff/Wage+Payroll Tax				\$ 20,500.00
Water Resource Coordinator (.25 time; wage, tax, benefit stipend)				\$ 20,500.00
Vehicle and Maintenance				\$ 3,000.00
Equipment Purchase/Repair				\$ 5,000.00
Monitoring Supplies				\$ 3,000.00
Capital Outlay**				\$ 50,000.00

\*\*LMP-01 Fund

\*Added SEf-1 to test for E.coli per board of managers recommendation (March 28,2025 meeting)