



Mission: To protect and enhance the quality of water in the lakes within its jurisdiction....ensure wise decisions are made concerning the management and related land resources which impact these lakes.

**PELICAN RIVER WATERSHED DISTRICT
MEETING ANNOUNCEMENT
Regular MONTHLY MANAGERS' MEETING
Thursday, March 15, 2018**

6:15 PM

**WATERSHED DISTRICT OFFICE
Wells Fargo Bank, 2nd Floor Conference Room
211 Holmes Street West, Detroit Lakes, MN
(218) 846-0436 www.prwd.org**

AGENDA

6:15 PM

1. Call To Order

2. Approval of Agenda and Consent Agenda (Administrator's Report; Secretary's Report –February 14, 2018 Regular Meeting Minutes; Rules/Permitting Report; Ditch Inspector's Report)

6:25 PM

3. Committee Updates

- a. Personnel, RMP/Rules, Citizen Advisory

6:30 PM

4. Old Business

- a. Rice Lake Project Progress - see New Business

6:35 PM

5. Treasurer's Report

- a. **Approve March 2018 Bills**
- b. **Approve Fund transfer**
- c. **District Fund – American National Bank CD**
- d. **Review January-February 2018 Revenue & Expenses – to be filed and subject to audit.**

6:55 PM

6. New Business

- a. **Pelican River Watershed District Petition to impound water on Becker County Drainage System 13**
- b. **Becker County Drainage System 13 Rice Lake Impoundment – Appointment of Engineer.**
- c. **Set a date for a public hearing to consider the anticipated Engineer's Report of Findings for the Becker County Drainage System 13 Rice Lake Impoundment**

7:55 PM

7. Public Forum (5 minutes)

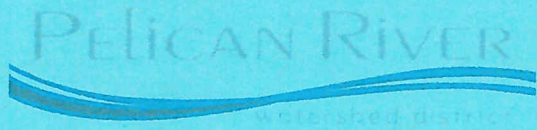
8:00 PM

- 8. Attorney's Report
- 9. Engineer's Report
- 10. Pulled Consent Agenda Items

8:15 PM

11. Meeting Adjournment

(action items in bold face)



THE PELICAN RIVER WATERSHED
DISTRICT OF
BECKER AND OTTERTAIL
COUNTIES

MINUTES OF THE REGULAR MEETING

February 14, 2018

Managers Present: Kral, Michaelson, Imholte, Deede, Haggart

Managers Absent: Okeson, Refsland

Staff: Administrator Guetter, Alcott, Moses

Consultants: Engineer Mackowick

Advisory Committee: John Okeson, Becker County Commissioner **Others:** None

The Regular Managers' meeting was called to order by President Kral at 3:03 PM.

CONSENT AGENDA. The consent agenda including the February 2018 Administrator Report; Secretary's Report –January 18, 2018 Regular Managers' Meeting Minutes; February 2018 Rules/Permitting Report and February 2018 Ditch Inspector's Report (Michaelson, Haggart), carried unanimously.

PROGRESS REPORTS.

Personnel Committee – nothing to report

Rules/Revised Management Plan (RMP)- nothing to report

Citizen Advisory Committee –nothing to report

OLD BUSINESS.

- a. **Rice Lake Progress.** Over the next month, staff will be working with Houston Engineering (HEI) and Tami Norgard, Vogel Law to prepare the required documents and reports for the project, including engineer appointment, engineer report findings of fact, PRWD Manager Becker County Ditch 13 petition to impound water, and public hearing notice. The public hearing is scheduled for March 15th. Manager Michaelson inquired if Houston Engineering was in communication with Commissioner Okeson regarding Anchor Road design and construction specifications. Okeson will send Guetter an email outlining his questions/comments and she will forward them on to HEI.

TREASURER'S REPORT

- a. **Approval of February 2018 Claims.** Manager Michaelson reviewed the monthly bills. **Motion to pay February 2018 claims (Checks #14423-14434 and EFT 633-639) in the amount of \$51,759.34 (Michaelson, Imholte), carried unanimously.**
- b. **February 2018 Fund Transfers.** Treasurer Michaelson recommended transferring \$70,000 to cover monthly expenses. **Motion to transfer \$70,000 from Bremer Bank savings account to the checking account (Michaelson, Deede), carried unanimously.**
- c. **Financial Report.** The January 2018 Revenues and Expenses Report was reviewed by the managers. **Motion to approve the January 2018 R & E Report (Michaelson, Haggart), carried unanimously.** The report will be filed for audit.

NEW BUSINESS.

- a. **Donation Request – City of Detroit Lakes – Water Festival.** Water Festival is an annual event the City of Detroit Lakes sponsors at the Kent Freeman Sports Arena for area school fourth graders, involving approximately 400 students. The District staff assists with this event and recommends District sponsorship. **Motion to donate \$225 to the City of Detroit Lakes to sponsor Water Festival (Kral, Imholte) carried unanimously.**
- b. **Donation Request – Becker SWCD – Sr. & Jr. Envirothon.** The Envirothon events include schools from multiple counties and will be held in Fergus Falls in 2018. There have been years when no schools (Detroit Lakes or other private schools) from within the watershed district participate, with no schools participating in 2017. After discussion, the managers generally agreed to decline the request because of lack of participation, but would consider future requests.
- c. **2018 Work Plan.** Administrator Guetter reviewed all items in the 2018 District Work Plan. Manager's discussed and gave feedback throughout the presentation. **Motion to approve the 2018 Work Plan as presented (Imholte, Michaelson) carried unanimously (attached hereto).**



THE PELICAN RIVER WATERSHED
DISTRICT OF
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MINUTES OF THE REGULAR MEETING

- d. **2018 Monitoring Plan.** Assistant Administrator Alcott reviewed monitoring points, zebra mussel monitoring, and Rice Lake monitoring. He also presented and explained the monitoring equipment used by the staff and interns. **Motion to approve the 2018 Monitoring Plan (Michaelson, Deede), carried unanimously (attached hereto).**
- e. **PUBLIC FORUM** – None

ATTORNEY REPORT. Nothing further to report.

ENGINEER REPORT. The City of Detroit Lakes approved an impervious surface variance at 412 South Shore Drive (Scallon) and Mackowick is reviewing the stormwater management plan.

ANNOUNCEMENTS. Alcott will be attending the AIS Summit, Feb 28 -March 1 in Minneapolis. Kral and Guetter will be attending the MAWD legislative meeting, March 7-8, in St. Paul.

ADJOURNMENT. Motion to adjourn the meeting at 5:12 PM (Kral, Haggart), carried unanimously.

Meeting Approved: _____

Respectfully Submitted,
Secretary Janice Haggart

Pelican River Watershed District

Claims Paid

February 2018

	<u>Date</u>	<u>Num</u>	<u>Amount</u>
<u>Employee ACH</u>			
*Alcott, Brent	02/16/2018	EFT-633	40.00
*Guetter, Tera	02/16/2018	EFT-634	79.02
*Moses, Brenda	02/16/2018	EFT-635	552.82
			671.84
<u>Vendor ACH</u>			
Lakes Computer Repair & Consulting	02/16/2018	EFT-636	200.00
Wells Fargo-Office Lease	02/16/2018	EFT-637	1,299.58
Wenck Associates, Inc	02/16/2018	EFT-638	3,860.55
Xerox Corporation	02/16/2018	EFT-639	251.97
			5,612.10
<u>Vendor Checks</u>			
Arvig	02/16/2018	14423	51.90
VOID	02/16/2018	14424	0.00
Bank of America	02/20/2018	14434	840.38
Berkley Risk Administrators Company	02/16/2018	14425	3,181.00
Central Market	02/16/2018	14426	52.12
Holiday/gas	02/16/2018	14427	70.99
L & M Supply	02/16/2018	14428	12.87
MAWD	02/16/2018	14429	4,308.00
Mississippi State University	02/16/2018	14430	7,500.00
Office of Enterprise Technology	02/16/2018	14433	90.27
Verizon	02/16/2018	14431	39.52
			16,147.05
<u>Rice Lake Project</u>			
Houston Engineering Inc.	02/16/2018	14432	29,328.35
			29,328.35
<u>Payroll Expenses</u>			
Employee Payroll	2/8/2018	EFT 627-629	4399.01
Supplemental Benefits	2/13/2018	EFT 630-632	2393.70
Federal Withholding	2/13/2018		1998.56
Employee Payroll	2/22/2018	EFT 640-642	4380.03
Federal Withholding	2/28/2018		1496.92
MN HCSP	2/28/2018		400.00
MN Revenue	2/28/2018		543.00
NACO	2/28/2018		1884.00
PERA	2/28/2018		2012.24
			\$ 19,507.46
Total February Expenses			<u>\$ 71,266.80</u>

2018 Water Quality Monitoring Plan

Lakes

Big Floyd	North Floyd	Little Floyd	Big Detroit
Little Detroit	Sallie	Melissa	St. Clair
Abbey	Brandy	Pearl	Lind

The lakes listed in the table above will be monitored bi-weekly from May through September as part of the PRWD routine monitoring network. They will all be sampled for Total Phosphorus (TP), Orthophosphate (OP), and Chlorophyll-a (Chl-a). In addition to chemistry sampling, the following parameters will be recorded:

- Water Clarity (Secchi)
- Environmental Conditions (Air temperature, wind speed, cloud cover)
- Water Temperature (surface and at each meter depth)
- Dissolved Oxygen (surface and at each meter depth)
- pH (surface and at each meter depth)
- Specific Conductivity (surface and at each meter depth)

Results from the analysis will be entered into the District's database. Mean summer averages will be compared to historical data and the District's water quality goals to determine trends and target areas for potential nutrient reduction projects.

Zebra Mussel Effects Monitoring

Zebra Mussels feed by filtering particles out of the water and have a very high filtering capacity. Studies have shown that Zebra Mussel infestations have effects on chlorophyll-a and total phosphorus concentrations. Additionally, the nutrient distribution may be affected within a lake depending on the mussel population density at a specific site. In some lakes, shifts in phytoplankton populations have caused increases in filamentous algae and cyanobacteria (blue-green algae) blooms.

District staff will begin monitoring these shifts with two methods. First, lakes infested with zebra mussels will be monitored mid-late summer for nuisance filamentous algae and cyanobacteria blooms. If observed, these blooms will be documented and mapped. Second, additional chemistry samples will be taken near shore in areas of dense zebra mussel growth to investigate differences in nutrient distribution between near shore (high zebra mussel density) and open water areas where zebra mussels are not present.

Zebra Mussel samplers will be placed in strategic locations on Melissa, Sallie, Detroit, and Curfman Lakes. The goal of the samplers will be to quantify and compare population densities between the infested lakes. Multiple samplers will be placed in each lake to investigate population distribution within each lake.

Shoreline Surveys

The survey and assessment of shoreline development conditions will be done on Long Lake, Pearl Lake, and Detroit Lake. If time allows, Curfman may also be included. During the survey, each parcel will be photographed and the level of shoreline alteration, number of boats, number of docks, and number of boat lifts will be quantified. The surveys will be compared to past surveys to analyze trends in shoreline development, land use, and lake use.

Lake Vegetation Survey

A point-intercept survey will be conducted within the littoral area of Long Lake. The species type and abundance of the plants will be mapped and reported. Additionally, the survey will investigate and report any occurrence of invasive plants.

Streams

Routine monitoring will be conducted on 21 stream sites throughout the district on a bi-weekly basis beginning at spring ice break up through October. Stream gages at each location will record water level. The parameters that are sampled/measured vary depending on the location and the specific monitoring goals of each location. Continuous water level loggers will be installed to monitor daily flows. The Flux32 computer model will be used to calculate annual phosphorus and sediment loads at each of the key monitoring locations.

Campbell Creek Ditch 11/12

Three key monitoring locations will be sampled. The location at the 230th street crossing, and the site approximately ¼ miles downstream, will be sampled for Total Phosphorous (TP), Orthophosphate (OP), and Total Suspended solids (TSS). This information will be utilized to assess the effectiveness of the agricultural best management practices (BMPs) that were installed in 2013 and 2014.

To determine the amount of sediment and phosphorus that is generated through the steep, highly erodible section, the County Road 149 crossing location will be monitored in comparison to the upstream location. The difference between the two locations will give sediment and nutrient loads. This monitoring site is also used to calculate the annual sediment and nutrient load to North Floyd.

Pelican River (Ditch 13)

There are 8 monitoring locations between Little Floyd Lake and Detroit Lake along Pelican River (Ditch 13). Key areas that will be monitored are within the Rice Lake Wetland area, and the Industrial Park (Snappy Park).

Locations at the inlet to Rice Lake (Anchor road crossing) and the outlet of Rice Lake (approximately 1.2 miles downstream) will be sampled to determine the amount of nutrients that are released from the wetland complex. These nutrient loads will be compared to loads measured after the completion of the water control structures to monitor the effectiveness of the Rice Lake Project.

The difference in the samples and nutrient loads in the Pelican River between the 8th street crossing and the Randolph Road crossing will be used to quantify the amount of nutrients and sediment that enter the Pelican River from the Industrial Park. This information will be valuable for future grant applications for stormwater improvements for this area, which currently receive little to no stormwater treatment prior to discharge into the river.

Ditch 14 (St. Clair outlet)

Two sampling locations will be monitored at the outlet from Lake St. Clair (Highway 59 crossing) and the outlet of the downstream wetland complex. Nutrient loads will be calculated to determine the total nutrient load from Lake St. Clair and the load to the Pelican River. The difference between those two will show the contributing load from the wetland complex between St. Clair and the Pelican River.

Pelican River Watershed District 2018 Monitoring Budget

Routine Lake Monitoring

Big Floyd, North Floyd, Little Floyd, Big Detroit, Little Detroit, Sallie, Melissa, St. Clair, Abbey, Brandy, Pearl, Lind

Lake Site Analysis	Sites	Samples	\$/sample	Total
Total Phosphorous	12	9	14	1512
Orthophosphate	12	9	12	1296
Chlorophyll-a	12	9	20	2160
			Total	4968

Routine Stream Monitoring

Pelican River and Ditch 14 (St. Clair)

Note: Additional samples obtained for Campbell Creek and Rice Lake Project Effectiveness Monitoring

Stream Site Analysis	Sites	Samples	\$/sample	Total
Total Phosphorous	6	13	14	1092
Orthophosphate	6	13	12	936
TSS	6	13	9	702
			Total	2730

Storm Event Monitoring

Campbell Creek (CC2, CC2a, CC1), Rice Lake (PR2, PR2a), Industrial Park (IPa, IPb)

Storm Event Analysis	Sites	Est. Samples	\$/sample	
Total Phosphorous	7	5	14	490
Orthophosphate	7	5	12	420
TSS	7	5	9	315
			Total	1225

Total – \$8,923

Campbell Creek project effectiveness monitoring

CC2, CC2a, CC1

Stream Site Analysis	Sites	Samples	\$/sample	Total
Total Phosphorous	3	13	14	546
Orthophosphate	3	13	12	468
TSS	3	13	9	351
			Total	1365

Rice Lake Project Effectiveness

PR2, PR2a, PR3

Stream Site Analysis	Sites	Samples	\$/sample	Total
Total Phosphorous	3	13	14	546
Orthophosphate	3	13	12	468
Chlorophyll-a		0	20	0
TSS	3	13	9	351
			Total	1365

Total - \$2,730

To: Board of Managers

From: Tera Guetter, Administrator

Subject: **TOWARDS A 2018 WORKPLAN**

In the attached proposed 2018 Work plan, the two RMP approaches are highlighted:

- o District-Wide Activities; and
- o Lake Water Quality Management Area Activities.

This a working document, and it will serve as a start for 2018 proposed activities.

District-Wide Goals	Continuing	2017 New Activities	Staff/Time	New Resources Required
Education <ul style="list-style-type: none"> Publications, support of organizations, etc Recruit more volunteers Upgrade website Awards/Demo Projects Contractor Seminar 	(see also Water Management, and BMP's) <ul style="list-style-type: none"> Tours for Managers and Citizen Advisors Presentations for service groups, lake associations, classes, fair booth, water festival, City, County Assistance to educational programs Publish annual summaries, lake info sheets Website/Facebook Continuing education for managers and staff – workshops, conferences (GF); Support of LA's and COLA News articles/Monthly Hodge Podge radio 	<ul style="list-style-type: none"> Collaborate with City of DL and Becker County – Shoreland, stormwater, trainings/seminars Revitalize PRWD Citizen Advisory Committee; Work/engage with organizations such as Becker COLA, Rotary, etc. Create new suite of Storm water management information (BMPs, Maintenance Guides, etc) Present to more Community and Lake Association groups 	Guetter – 15% (Full time) Moses – 20% (Full time) Alcott -5% (Full time)	<ul style="list-style-type: none"> \$ 500 – Shoreland Ordinance/Rules Seminar- (UTY) \$1,000 Educational material costs (printing, signage) (GEN) \$500 – Update displays board (GEN) \$ 1,000 – stormwater management material development and printing (GEN)
Data Collection (monitoring) <ul style="list-style-type: none"> Maintain monitoring program Upgrade monitoring equipment Prepare lake-specific evaluations Integrate monitoring and GIS citizen volunteers, agency coordination 	<ul style="list-style-type: none"> Update & implement monitoring plan and data Recruit additional monitoring volunteers Employ two summer interns for lake/stream monitoring Training/seminars/conferences/courses 	<ul style="list-style-type: none"> Industrial Park – monitoring for CW Grant/City (Shoreline surveys- Sallie, Melissa 1-seasonal intern for stormwater practice inspection; database, RMP assistance 	<ul style="list-style-type: none"> Guetter – 5% (Full Time) Alcott -20% (Full Time) Interns – seasonal Moses – 5% (Full Time) 	<ul style="list-style-type: none"> \$ 1,000 – Industrial Park sampling – UTY \$ 4,500 - \$5,500 – Intern for Permit/inspection
BMP's to Reduce Phos and Sediment <ul style="list-style-type: none"> Promote BMP's Promote, acquire buffer zones 	(see also Water Mgmt Reg and Educ sections) Encourage vegetative buffer easements along riparian areas <ul style="list-style-type: none"> Encourage other BMP's Restore-the-shore – HWY 10 overlook maint. 	<ul style="list-style-type: none"> Assist MN DNR with buffer enforcement (waterways) CW Grant Funding for West Lake Drive & Industrial Park improvements (stormwater innovation; buffers) - July Hangarden in City of DL; Overlook Area Cost Share Assistance for Shoreland Buffers Develop GIS based database for BMPs Review areas from Drainage Inventory for potential projects 	Guetter – 20% (Full Time) Alcott – 15% (Full Time) Moses – 5% (Full Time)	<ul style="list-style-type: none"> \$ 151,000 - Rice Lake, Easement (UTY- Grant Match) – balance of 25% grant match \$ 5,000 - \$20,000 -Cost share for shoreland, rain gardens, other special projects within District – (UTY)
Water Mgmt. Regulation (incl permitting) <ul style="list-style-type: none"> Advocate regulations to promote water quality Advocate rigorous and consistent enforcement of District and other rules Coordinate with other units of government 	Continuous rigorous and consistent enforcement of Rules <ul style="list-style-type: none"> practice oversight on County and City activities relating to water quality Advocate for City, County and State water quality enhancement Serve on inter-agency committees and panels Update Website - Permit information/location links 	<ul style="list-style-type: none"> Explore rule revision process with RMP Revised Management Plan (Wenck) Ottertail Basin WRAPS Permit Application Software – County BWSR grant; Work with county & city on streamlined permitting City of DL Shoreland Ordinance Update 	Guetter – 20% (Full Time) Alcott – 30 % (Full Time) Moses – 15% (Full-time) Becker SWCD	<ul style="list-style-type: none"> \$20,000 – Revised Management Plan consulting – GEN/UTY \$5,000 – RMP meetings, reviews – GEN/UTY \$3,000 BWSR County grant match - UTY \$500 GIS online training – Alcott – GEN \$3,000-4,000 Manager per diem/expenses meetings/public input/hearing (GEN)
Lake Management Planning <ul style="list-style-type: none"> Promote LMP concept; encourage adoption of special protection zones 	<ul style="list-style-type: none"> Continue to motivate and assist lake associations to become proactive in promoting planning Encourage the adoption of special protection zones (see also Water Management Reg) Project 1B/1C Aquatic Vegetation Management AIS prevention, rapid response, control 	<ul style="list-style-type: none"> Manage AIS infestations Encourage continued inspection program at public and private accesses 	Guetter – 25% (Full Time) Alcott – 20% (Full Time) Moses – 15% (Full Time)	<ul style="list-style-type: none"> \$ 65,000 CLP & FR treatments – 1C - Detroit \$ 35,000 CLP & FR treatments – 1B-Sal/Mel Starry Stonewort Rapid Response Plan FR River/onshore emergent treatment research \$ 15,000 -mid August Treatment (LMP) \$5,000-\$10,000 Access inspection - cost share match for LA? (LMP)
Septic System Management <ul style="list-style-type: none"> Encourage septic BMP's, and rigorous enforcement of regulations 	<ul style="list-style-type: none"> Monitor permits for installation of ISP's Support BC Septic inspection program Encourage cluster systems (Sallie/Melissa) Promote alternative approaches Work with landowner groups and local govts. 	<ul style="list-style-type: none"> Work with City of DL – Wastewater treatment plant upgrade; assist with grant funding opportunities 	Guetter - N/A	
Ditch Management	Ensure proper ditch management – (Beaver)	<ul style="list-style-type: none"> Rice Lake Project Requirements Buffer compliance 	Guetter - 5% (full Time) Alcott - 5% (Full time)	

<p>General Administration</p> <ul style="list-style-type: none"> • Project overview, grants, reports, budgets, payroll, etc; office equipment maintenance 	<ul style="list-style-type: none"> • Plan and manage finances; 2016 Audit • Office Equipment Updates • Annual Report 	<ul style="list-style-type: none"> • Office Equipment - Computers – (laptop, reception); Copier. • MAWD strategic plan support 	<p>Guetter –10%(full Time) Abbott – 5% (Full Time) Mosses 40% (full time)</p>	<ul style="list-style-type: none"> • \$6,000 Software, Computers – GEN • \$ 4,800 MAWD Dues (\$2,800 2016) – GEN • Audit Firm charge - \$4,700 - GEN
<p>Lake Water Quality Management Areas <i>Goals</i></p>				
<p>Sallie-Melissa (lower Lake Sallie's TSI to <50)</p> <ul style="list-style-type: none"> • Reduce nutrients from upstream area • Treat Ditch 14 storm water and sewage discharges • Control exotic plants • Investigate groundwater • Control Sallie internal loading 			<p>2017 New Activities</p>	
<p>Detroit/Rice (reduce Big DL TSI by 5%; maintain recent gains for Little Detroit)</p> <ul style="list-style-type: none"> • reduce OP to Big Detroit • study/control BD internal loading • control exotic aquatic plants • reduce untreated storm water discharges • obtain base data on lakes 		<ul style="list-style-type: none"> • Lake-wide herbicide treatment for flowering rush; CLP Treatments • Continue to monitor Airport Expansion --, storm water plan; wetland mitigation (onsite wetland vs credits) • Start to explore second Alum treatment on St. Clair Lake – Joe Bishop – Wenck – get a bid for study and plan • St. Clair TMDL 		
<p>Long (maintain mesotrophy; promote shoreline BMP's)</p> <ul style="list-style-type: none"> • advocate stricter shoreline regulations • minimize impacts from nearby developments 		<ul style="list-style-type: none"> • Rice Lake - Complete engineering and easement acquisition ; construction • Continue lake wide flowering rush herbicide ; CLP treatments • West Lake Drive and Industrial Park – CW grant application - reapply • City of DL Ordinance Update review 		
<p>Floyd/Campbell (lower N Floyd TSI to <50)</p> <ul style="list-style-type: none"> • BMP's to reduce peak flows and sediment from Campbell Creek • BMP's in Floyd basins • monitor and mitigate landfill groundwater migration • obtain base data for other lakes 		<ul style="list-style-type: none"> • Gravel mining expansion; road/infrastructure expansion on west and east sides 		
<p>Pearl/Loon (improve knowledge and citizen interest, address runoff problems)</p> <ul style="list-style-type: none"> • Obtain base data on all lakes • Improve diagnosis of Pearl WQ • Investigate ag runoff issues; prescribe solutions • Encourage citizen involvement 		<ul style="list-style-type: none"> • Monitor DL annexation of Little, North, Big Floyd lakes • Monitor Campbell Creek BMP effectiveness • Grant application for buffers/seawall removal on South Shore of Little Floyd Lake • Investigate bank restoration – Campbell Creek 		
<p>Small Lakes (improve knowledge and citizen interest)</p> <ul style="list-style-type: none"> • Obtain data on 7 additional lakes • Encourage citizen involvement, especially lake associations, and CLMP volunteers • Continue to collect data on Meadow, Johnson, Abbey 		<ul style="list-style-type: none"> • Develop prototype LWQMA plan for Pearl-Loon management area • Have Becker SWCD look at potential BMP's 		
<p>Fox/Munson (promote implementation of aggressive shoreline BMP's)</p>		<ul style="list-style-type: none"> • Recruit/retain volunteer observers (Secchi readings) for Meadow 		
		<ul style="list-style-type: none"> • Advocate for Fox/Munson Lake Association • Recruit/retain volunteer observers (Secchi readings) for Munson 		

<ul style="list-style-type: none">• Advocate for stricter shoreline controls• Minimize impacts from highway, ag, and gravel<ul style="list-style-type: none">• Promote involvement of Munson residents	<ul style="list-style-type: none">• Review data needs for Munson & Fox lakes• Advocate for Munson Lake listing for Becker County ISTS compliance Study• Recommend County ISTS study
<p>Brandy <i>(prevent further degradation, develop options for improved quality)</i></p> <ul style="list-style-type: none">• Obtain base data on Oar, Wine and Oak lakes, complete Brandy baseline study• Coordinate District efforts with MPCA's landfill remediation project<ul style="list-style-type: none">• Identify/address runoff problems• Develop Brandy's WQ improvement plan	<p>Work with MPCA on potential Wine TMDL (MPCA is the lead agency).</p>

Pelican River Watershed District
Administrator Monthly Report
March 9, 2018
www.prwd.org

MAIN DISTRICT WATER QUALITY INITIATIVES

Targeted Watershed Nutrient Reduction Grant/Rice Lake Project. Guetter, Houston Engineering (HEI), Tami Norgard, Vogel Law are working on the draft petition to impound water on Becker County Drainage System 13. In addition, we are working on completing the easements with the City of Detroit Lakes and 4 other parcels in relation with the lower structure. Guetter will be meeting with the City of DL Community Development Committee on April 4th to review the easements.

Ottertail Basin Watershed Restoration and Protection Strategies (WRAPS) Education/Outreach Meeting. Guetter & Alcott met with Ben Underhill of East Otter Tail SWCD on February 21 to review past PRWD technical studies and to discuss future WRAPS outreach/civic engagement opportunities.

City of Detroit Lakes Shoreland Ordinance Update – The first reading of the proposed shoreland ordinance revisions scheduled for February 22nd was pulled from the agenda due to receiving MN DNR review comments which raised objections to allowing higher impervious surface coverage with mitigation for undeveloped lots (redeveloped lots would still qualify for mitigation to allow for higher impervious surface coverage); zoning district changes (city is currently changing height from 45 feet to 60 feet) in shoreland district; and commercial non-riparian lots but within 1,000 feet of the lake proposes 58% impervious surface coverage with mitigation.

WATER MANAGEMENT RULES

Permits - see enclosed report.

MONITORING

2018 Summer Interns – We have received only a few applications to date, however the internship job posting is open until March 16th. Please encourage interested students to apply!

PTM App Training – Guetter attended the Prioritize, Target, and Measure Application (PTMApp) training at M-State. The software assists in developing enhanced water quality data products using LiDAR data and innovative terrain analysis methods to prioritize field scale locations for conservation and best management practices. The Ottertail basin received a BWSR grant to enhance the program with priority resource points. Guetter and Alcott will be meeting with the software developers on March 13th to set the priority resource points within PRWD and other Becker County lake areas.

EDUCATION

KDLM Radio – Alcott was the guest on Hodge Podge on Friday, February 16. He discussed the internship openings and their job duties. He also discussed lake ecology including habitat features for a “healthy lake” and what landowners can do to preserve or enhance their nearshore areas.

AIS Research Update Event–The U of MN AIS research staff will hold a one-day, regional workshop on Friday, June 8th at M-STATE, Detroit Lakes to discuss the University's AIS research studies and findings. Guetter and Moses are coordinating event promotion with AIS County Coordinators from Becker, Hubbard and Ottertail Counties as well as the COLA groups. Meanwhile we are working with the U of MN to finalize the speakers and agenda.

Hydraulics Training Workshop – Alcott attended a Hydrology and Hydraulics workshop in Brainerd on February 20th which covered sub-watershed delineation using GIS as well as how to determine storm water discharge rates from the delineated areas.

Aquatic Invaders Summit – Alcott attended the Aquatic Invaders Summit in Minneapolis, from February 28-March 1st. He moderated a session regarding the Impact, Control, and Next Steps for Starry Stonewort. During the session, several examples of management efforts were discussed, including mechanical removal and chemical control. Because there is still little known about the invasive macro-algae, the overall message was that the best method is to be vigilant to keep the invasive from spreading to new lakes. The role of climate change and impacts to invasive species was of great interest. More specifically longer open water periods coupled with warmer water temperatures change the climate zone areas for new species to survive in such as Hydrilla. For example, if trends persist, MN climate would be more similar to Missouri in 80-years. Alcott also attended a session discussing the observed changes in MN Fisheries, caused by both invasive species and fishing pressures which highlighted a case

study on Lake Mille Lacs showing the effects of the Zebra Mussel infestation - the decline in Walleye population and size but an increase in the smallmouth Bass fishery.

Zorbaz “Zcience on Tap” –In February, Ryan Frohling, US Fish and Wildlife, presented on the topic of “Pollinators”. On March 26th, 6 PM, the month’s “**Zcience on Tap**” program is Jamison Wendel, Red River Fisheries Specialist who will present on “The Return of and Ancient Fish: Lake Sturgeon Restoration in the Red River Basin.

DL Morning Rotary – Guetter will present at the March 12th meeting District activities.

Lake Life Expo – Was held at the Fargo Civic Center on Friday and Saturday, Feb. 23-24. The District shared a booth with Becker County AIS Coordinator, Karl Koenig. Alcott was part of discussions held on Friday evening along with MN DNR and RMB Labs staff. Moses and Koenig manned the booth on Saturday. Attendance was disappointing at this event location.

New Educational Materials – Moses has compiled a coloring/activity book for children to be used at the Fair and other outreach events. She is also working on handouts for lakes Detroit, Sallie, Melissa, Floyd and Long. These will be available for lake association meetings this spring and summer.

GENERAL ADMINISTRATION

2017 Annual Report – This report is mostly complete, however, the 2017 audit needs and staff plans to have it complete by the April manager meeting pending the completion of the 2017 audit.

2017 Audit – Moses has compiled and sent the information requested to our Auditors. They will be in our office on April 25 to go through our records.

MAWA– The association of watershed administrators meeting was held on March 7th in St. Paul. The education committee (Guetter, Voit, Kinney) presented the training needs framework (based upon surveys by managers/administrators in 2016/17) and reported on their work with BWSR for sessions at the BWSR Academy in the fall. The framework will be presented to the MAWD board. A suggestion to potentially incorporate at the MAWD conference would be to have concurrent tracks for managers drainage, policies, technical, and they could “move” between the tracks based upon their knowledge and interests. The association heard updates from Emily Javens, MAWD Executive Director, Ray Bohn, MAWD Lobbyist, BWSR – Kevin Bigalke, The summer tour will be held in the Metro – Chanhassen area, June 20-22nd and a legislative update was presented.

MAWD Legislative Day at the Capitol – Guetter and Kral met with Sen Eken and discussed the MAWD legislative priorities which were established by the general membership at the December 2017 annual meeting of the board of managers.

Tax and Funding Issues– High Priority

- Modify/increase the general fund levy limit for all non-metro watershed districts to \$500,000 (16)
- Advocate for a statutory clarification to allow broader use of levy funds with new state sources of project funding - HF 2456 (16)
- Support increasing the general fund levy limit for the Middle Fork Crow River Watershed District (17)
- Support bonding requests from watershed districts for the Flood Hazard Mitigation Program (16)
- Increase per diems for managers to \$100 per day (15)
- Monitor and act on any changes to enforcement funding for the Buffer Law
- Monitor and support BWSR bonding legislation

Policy Issues– High Priority

- Amend the Open Meeting Law to allow electronic meeting participation by watershed district managers (16)
- Create a Stormwater Reuse Task Force that consists of local and state officials involved in water management (17)
- Protect the integrity of Clean Water Council appointments from undue influence by state agencies (15)
- Advocate for coordination and integration of state watershed programs with local watershed implementation (17)
- Monitor and act on any Buffer Law updates/changes

Tax and Funding Issues– Second Priority

- Support a \$500,000 request for flood water retention engineering in the Lac qui Parle Yellow Bank watershed (13)

- Advocate for allowing more favorable tax treatment of conservations easements (16)
- Support stable funding for the DNR's Flood Damage Reduction Grant Program (17)

Policy Issues – Second Priority

- Support establishment of watershed based water management organizations in the Minnesota River Basin (15)
- Support temporary quarantine authority to control the spread of aquatic invasive species (17)
- Support limited liability protections for certified commercial salt applicators (17)

AQUATIC INVASIVE SPECIES MANAGEMENT

MN DNR AIS Advisory Committee Meeting. The committee met in St. Cloud on Thursday, February 22nd . The committee reviewed priority issues to be covered in 2018, the 2017 committee report, and recommended sending Minnesota US legislators letters urging them to not cut AIS funding for MN and the Great Lake region.

DRAINAGE SYSTEM REPORT – March 9, 2018

Ditch 11/12 – Nothing to report

Ditch 13 – Nothing to report

Ditch 14 – Nothing to report.

RULES OF ENFORCEMENT

March 2018



Permits Issued

<u>No.</u>	<u>Name</u>	<u>Address/Area</u>	<u>Approved Project</u>
18-04	Justin Scallon	412 South Shore Drive Detroit	Impervious Surface—Greater than 25% Site redevelopment

Permit Applications submitted:

City of Detroit Lakes—WWTP—Wenck has reviewed. The City is currently addressing Engineer comments.

MN DOT—Hwy 59—Willow St. to CSAH 20. Road resurface. District Engineer reviewing Erosion Control Plan.

Scot Moores—14874 East Munson Dr., rip rap. District staff waiting for snow melt to review site.

Dallas Nesemeier—24017 County Hwy 22. Application and payment received without site plan on 3/7/18. This property is right on the Pelican River so MN DNR permit is needed. The site is being redeveloped with impervious surface over 25%, retaining wall removal and shoreline restoration.

Permit Applications expected:

Barker Family Trust—24293 County Hwy 6 (Munson Lake). Retaining wall replacement with shoreline restoration and native planting. Plans are being designed by Becker SWCD.

Fireside—Removal of 3-season porch/patio expansion. Permit/Plans have not been received yet.

Swanson's Repair—Staff has met with Swanson's and the City Staff to clarify all requirements. Alcott has contacted owner and they are expecting to have plan submitted by the end of March.

City Park (Boys & Girls Club) - Site to be redeveloped including Building, Parking lot and additional road access. The City Engineer will design storm water management plan to include a portion of the 4 Seasons Carwash property.

Historical Society Museum—Plans are being developed for both building and parking lot redevelopment.

Violations Under Remediation:

BBP Investments/Pro Resources, Scott Busker—1265 W. Hwy 10, New construction, storm water plan needed. Managers requested that Guetter follow up to try and come to a resolution that is acceptable to both parties.

Four Seasons Car Wash—Project completed without stormwater management measures implemented. They will be working with the City Engineer to implement stormwater management plan that will function for both this site and City Park (see above). Guetter & Alcott met with the owner and City Engineer to review site requirements in conjunction with Boys & Girls Club construction project.

Progress Report

Golden Bay Shores—Retaining wall has been constructed, City to verify "as built" condition. The stormwater ponds are scheduled to be reseeding in the spring of 2018.