TODD COUNTY SWCD BOARD MEETING AGENDA

There will be a meeting of the Todd Soil and Water Conservation District Board of Supervisors on **Thursday, June 8, 2017 beginning at 8:30 a.m.** The meeting will take place at the Todd County Historic Courthouse (Prairie Conference Room), 215 1st Ave South, Long Prairie, MN 56347.

**Call to Order**

Kenny Pesta

**Pledge of Allegiance**

**Act on Approving Agenda**

**Secretary’s Report (Minutes)**

Norman Krause

**Treasurer’s Report (Financial)**

Tom Williamson

**Introduction of Intern**

1. **Decisions Needed**

1.1. Approve “other” waters list for the Buffer Program  
Tim

1.2. Approve additional Feedlot Donations  
Tim

2. **Discussion**

2.1. Local Work Group—November 15, 2017  
Tim/Russell

2.2. Annual Tree & Plant sale summary  
Sarah

2.3. 2017 River and Lake Day Event  
Shannon

2.4. Grant application window  
Tim

2.5. Groundwater Coordination Resolution-Benton SWCD  
Tim

2.6. 2017 Conservationist Award  
Tim

2.7. 2017 Land Stewardship Award  
Tim

2.8. MOU with NRCS  
Russell

2.9. Cooperative and Operational Agreement  
Tim/Russell

3. **Reports**

3.1. Commissioner’s Report  
Randy & Gary

3.2. Staff Reports  
SWCD Staff

3.3. Pheasants Forever Report  
Sabin

3.4. NRCS Report  
Russell

4. **Informational**

4.1. Breakfast on the Farm—June 24, 2017  
Tim

4.2. Todd County Fair—July 13-16, 2017  
Tim

4.3. Wellhead Protection Plan, Part 1, for Grey Eagle  
Shannon

**Adjourn**

The next regular SWCD board meeting will be July 13, 2017 beginning at 8:30 a.m. at the Historic Courthouse, (Prairie Conference Room), 215 1st Ave South, Long Prairie, MN 56347.

*To Meet the Public’s Needs by Protecting the Land and Safeguarding the Water*
MINUTES FROM THE MAY 4, 2017 REGULAR BOARD MEETING

Chairman Pesta called the Thursday, March 4, 2017 meeting to order at 8:35 a.m.

The meeting was held at the Historic Courthouse, 215 1st Ave South, Long Prairie, MN 56347. Board members present were: Kenny Pesta, Norman Krause, Tom Williamson and Leland Buchholz. Others present were: Tim Stieber, Division Director, Sarah Katterhagen, Program Coordinator, and Randy Neumann, County Commissioner.

Board Member Absent: Dale Katterhagen

The Pledge of Allegiance was recited.

Pesta asked if there were any additions to the agenda. Williamson made a motion, seconded by Krause to accept the agenda for the regular May 4, 2017 with the additions of: Encumbering FY16 State Cost Share funds, FY16 Local Capacity cost share funds, and FY17 Local Capacity cost share funds for Marcus Meiners; payment of FY16 State Cost share funds for Aaron Wendel, contract #6-16, and payment of FY16 State Cost Share funds for Aaron Wendel, contract #7-16, approve board members attending AREA II meeting for June 15, 2017, and an update on the Planning & Zoning case for Blake Elliot. Affirmative: Pesta, Krause, Williamson and Buchholz. Motion Carried.

Pesta asked if there were any additions or corrections to the minutes from the April 13, 2017 regular board meeting. Krause made a motion, seconded by Buchholz to approve the minutes as distributed from the April 13, 2017 regular board meeting. Affirmative: Pesta, Krause, Williamson and Buchholz. Motion Carried.

No financial reported was given as month end for April was not finalized.

Buchholz made a motion, seconded by Williamson to approve encumbering FY14-17 Long Prairie cost share funds for Marcus Meiners, contract #12-14/319 in the amount of $72,537.79 for Ag Waste practice. Affirmative: Pesta, Krause, Williamson and Buchholz. Motion Carried.

Buchholz made a motion, seconded by Williamson to approve encumbering FY16 state cost share funds in the amount of $148.82 for Marcus Meiners, contract #8-16 for the Ag Waste practice. Affirmative: Pesta, Krause, Williamson and Buchholz. Motion Carried.

Krause made a motion, seconded by Buchholz to approve encumbering FY16 Local Capacity cost share funds in the amount of $880.01 for Marcus Meiners, contract #3-16LC for the Ag Waste practice. Affirmative: Pesta, Krause, Williamson and Buchholz. Motion Carried.

Williamson made a motion, seconded by Krause to approve encumbering FY17 local capacity funds in the amount of $5,716.48 for Marcus Meiners, contract #1-17LC for the Ag Waste practice. Affirmative: Pesta, Krause, Williamson and Buchholz. Motion Carried.

Discussion: Marcus Meiners will get a total of $79,283.10 cost share funds which is 65% of the total cost estimate. Meiners has a deadline of August 1, 2017 to get the project completed.
Buchholz made a motion, seconded by Williamson to approve payment of FY17 state cost share funds for Norman Krause, contract #4-17 in the amount of $197.50 for the well sealing practice. Affirmative: Pesta, Williamson and Buchholz. Abstained: Krause. Motion Carried.

Krause made a motion, seconded by Buchholz to approve payment of FY16 state cost share funds for Aaron Wendel, contract #6-16 in the amount of $187.50 for the well sealing practice. Affirmative: Pesta, Krause, Williamson and Buchholz. Motion Carried.

Williamson made a motion, seconded by Krause to approve payment of FY16 state cost share funds for Aaron Wendel, contract #7-16 in the amount of $242.50 for the well sealing practice. Affirmative: Pesta, Krause, Williamson and Buchholz. Motion Carried.

Williamson made a motion seconded by Krause to approve the State of MN logo as the official logo for Todd SWCD.

Discussion: The board recommended making the SWCD bigger. The logo should be used on letterhead, envelopes, newsletter, shirts, and on advertisements. **Affirmative: Pesta, Krause, Williamson and Buchholz. Motion Carried.**

Krause made a motion, seconded by Williamson to approve board members attending the AREA II meeting on June 15, 2017 in Willmar. **Affirmative: Pesta, Krause, Williamson and Buchholz. Motion Carried.**

**REVIEW OF 1ST DRAFT OF “OTHER WATERS” DESIGNATED FOR BUFFER ESTABLISHMENT:** Stieber presented the proposed list of the additional waters. Stieber reported that the list would be provided to the DNR, so they add the waters to the map. Supervisor’s commented that they thought “Other Waters” list was just for the County if they wanted additional waters to have the buffer requirement. Stieber said that he would do some checking and bring back the final list for approval at the June board meeting and clarification what the “Other Waters” list means.

**UPDATE ON PLANNING & ZONING BLAKE ELLIOT CASE:** Stieber reported that he will asking the County Board of Commissioners to sign a letter asking for assistance from the DNR. A Planning and Zoning staff member and the Wetland Coordinator will be working with the DNR. The project has a deadline of June 30, 2017.

Board members were provided a copy of the 2016 Soil and Water audit report.

**COMMISSIONER REPORT:** No report

**STAFF REPORTS:** No reports.

Chairman Pesta adjourned the meeting at 9:30 a.m.

The next meeting of the Todd SWCD Board of Supervisors will be **held on Thursday, June 8, 2017 beginning at 8:30 a.m. at the Todd County Historic Courthouse (Prairie Conference room), Long Prairie, MN 56347.**

Sarah Katterhagen, Minute Preparer

Norman Krause, Secretary
Resolution No. 2017-06-08
Local Water Resources Riparian Protection in Todd County

Whereas, Minnesota statutes 103F.48 requires Soil and Water Conservation Districts (SWCDs) in consultation with local water management authorities, to develop, adopt, and submit to each local water management authority within its boundary a summary of watercourses for inclusion in the local water management plan.

Whereas, the Board of Water and Soil Resources (BWSR) has adopted the Local Water Resources Riparian Protection (“Other Watercourses”) Policy, dated August 25, 2016, which identifies steps SWCDs are required to take in developing said inventory.

Whereas, Todd SWCD has reviewed numerous watercourses and produced a map of watercourses meeting the eligibility criteria of watercourses where water quality would benefit from the installation of a buffer or filter strip. This map is not exclusive.

Whereas, the Todd SWCD determined that the rational for inclusion of “other watercourses” is to be inclusive of all watercourses where water quality would benefit from the installation of a buffer or filter strip. Also to fill in any “gaps” in the Public Water Inventory and Todd County ditch systems.

Therefore be it resolved that, the summary of watercourses or “other watercourses” for Todd County shall be descriptive in format along with a map of detailed watercourses.

Be it further resolved that, to comply with MS 103F.48, the following shall describe “other watercourses” in Todd County for the purpose of inclusion in future local water management authorities updates within Todd County and to guide Todd SWCD decision making in order to further the goal of protecting riparian areas:

1. Those watercourses defined by M.S. 103F. 48 consisting of public waters and public ditches identified on the Minnesota Department of Natural Resources Buffer Protection Map and requiring a vegetative buffer or alternative riparian water quality practice; and

2. Any area where water flow concentrates (permanent or intermittent flows) and water quality from the contributing watershed would benefit from a vegetative buffer or alternative riparian water quality practice installed voluntarily by the landowner and for which the Todd SWCD will seek incentives to assist the landowner(s) to install and maintain a vegetative buffer in order to:
   a. slow the rate of water runoff and overland flows in order to maintain the stability and environmental integrity of the watercourse,
   b. sustain the existing land use of the contributing drainage area by maintaining or improving water quality,
   c. reduce water runoff by encouraging infiltration,
   d. reduce the rate of soil loss from the contributing watershed to the rate of tolerable soil loss (“T” rate) or below,
   e. provide complementary values of water quality, hydrologic stability, soil conservation, fish and wildlife habitat, and ecological protection,
   f. improve the quality of downstream receiving waters, and
   g. other values as may be mutually determined by the SWCD and the landowner.

Be it further resolved that, it is the policy of the Todd SWCD that watercourses may be identified by a variety of mapping and remote sensing methods which may change over time but must be verified by on site field investigation conducted by the SWCD in cooperation with the landowner.
Examples of other watercourses mapped:

*There are no implications on waterways designated as an “Other Water” and we have been told that there will not be any in the future. These waterways can be used in future grants as areas of concern in the county and also qualify for CREP.

**Designating Other Waters is a requirement set forth by the buffer law. Our selections must be submitted to BWSR by July 1, 2017.
Event Budget for 2017 Annual Feedlot Meeting

Income

<table>
<thead>
<tr>
<th>Vendor</th>
<th>Date Received</th>
<th>Actual</th>
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</thead>
<tbody>
<tr>
<td>Livestock Board</td>
<td>1/20/2017</td>
<td>$250.00</td>
</tr>
<tr>
<td>Central MN Credit Union</td>
<td>1/24/2017</td>
<td>$250.00</td>
</tr>
<tr>
<td>First International Bank &amp; Trust</td>
<td>1/26/2017</td>
<td>$250.00</td>
</tr>
<tr>
<td>MN National Bank</td>
<td>1/30/2017</td>
<td>$250.00</td>
</tr>
<tr>
<td>American Heritage Bank</td>
<td>1/30/2017</td>
<td>$250.00</td>
</tr>
<tr>
<td>Ag Star Bank</td>
<td>2/21/2017</td>
<td>$250.00</td>
</tr>
<tr>
<td>Unity Bank</td>
<td>2/21/2017</td>
<td>$250.00</td>
</tr>
<tr>
<td>MN Corn &amp; Soybean Growers</td>
<td>3/9/2017</td>
<td>$250.00</td>
</tr>
<tr>
<td>MN Farmer's Union</td>
<td>4/24/2017</td>
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</tr>
<tr>
<td>MACFO</td>
<td>5/15/2017</td>
<td>$800.00</td>
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<tr>
<td>Total</td>
<td></td>
<td>$3,050.00</td>
</tr>
</tbody>
</table>

$0.00

4/13/2017--$2,000.00 was accepted by Todd SWCD Board of Supervisors
S&W Board needs to accept $1,050.00 (Farmer's Union and MACFO)
2017 Tree & Plant Sale Financial Summary

**Income**

<table>
<thead>
<tr>
<th>Period</th>
<th>Revenue</th>
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<tbody>
<tr>
<td>September 2016-May 2017</td>
<td>$21,746.14</td>
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</tbody>
</table>

**Expense**

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>September 2016-May 2017</td>
<td></td>
</tr>
<tr>
<td>2017 1st QRT Wages (not on books yet)</td>
<td>$1,205.49</td>
</tr>
<tr>
<td>2017 2nd QRT Tax (not on books yet)</td>
<td>$131.00</td>
</tr>
<tr>
<td>2017 2nd QRT Wages (not on books yet)</td>
<td>$5,526.44</td>
</tr>
</tbody>
</table>

**Expense** $21,746.14

**NET** $-
Groundwater Task Force

WHEREAS, MASWCD Groundwater Guiding Principles, adopted September 9, 2014, include “Engage stakeholders: Challenges involving groundwater quality, quantity, and/or surface water interaction should fully engage all stakeholders in devising appropriate solutions that will be supported locally.” and “Funding: Federal, state, and local resources for funding best management practices associated with groundwater management shall be supported along with the potential for direct partnering.” and “Innovation: Wise use and conservation of water will be encouraged. Shared, integrated, and mutually supporting systems should be developed. Leak detection and infrastructure management needs must be addressed. Stormwater management, re-use, and promotion of infiltration practices in recharge areas should be assessed. Rainwater harvest and water re-use systems should be implemented where possible. Management practices for agriculture should be encouraged such as irrigation management, nutrient management, soil health, and crop rotation.” and;

WHEREAS, SWCDs act as a primary technical advisor to stakeholders in Minnesota for the voluntary adoption of Best Management Practices related to groundwater quality and groundwater consumption; and

WHEREAS, There are numerous planning efforts in progress related to conservation of groundwater, for example GRAPS and DNR Groundwater Management Areas. However statewide coordinated planning for groundwater conservation is less effective than it should be, including stakeholder engagement, funding and innovation. SWCDs, irrigators and voluntary adoption of BMPs are not represented properly on a region wide and statewide level; and

WHEREAS, Initiating and coordinating projects of region wide or statewide significance by an SWCD has been demonstrated to be very difficult by multiple SWCDs.

THEREFORE, BE IT RESOLVED, the MASWCD shall develop a statewide groundwater/irrigation task force whose purpose shall be to coordinate stakeholder engagement, funding and innovation of groundwater and irrigation related activities that have a region wide or statewide significance. Membership goals for the task force will include MASWCD, SWCD staff, Irrigators, Irrigators Association of Minnesota, BWSR, MDH, MDA, DNR, MPCA and the University of Minnesota; and

BE IT FURTHER RESOLVED, the MASWCD shall work with the task force to identify or develop reliable funding for activities of regional or statewide significance, including the expansion of an on-line irrigation scheduling assistant to agriculturally irrigated areas in Minnesota.

FISCAL IMPACT STATEMENT: Estimated cost to MASWCD to implement is medium to high, $1,000 to $2,000 in staff time.

Submitted by: Benton SWCD Area Association: II
Date Adopted: ________________

Reviewed by: MASWCD Board of Directors MASWCD Annual Convention
Date: ________________ Action: ________________
Date: ________________

For additional information contact: Gerry Maciej, Benton SWCD District Manager
Phone: 320-968-5300x3, email: Gerry@Soilandwater.org
April and May 2017 Staff Report

Tim Stieber, Division Director

Meetings & Coordination
- Participated in SWCD staff meetings as needed – generally 1X per week.
- Prepared for and presented at 3 BOC meetings with action forms and associated follow up.
- Prepared for and participated in a SWCD board meetings.
- Prepared presentation and presented at annual township meeting.
- Participated in TEP meetings April and May and discussed cases with Lew as needed.
- Attended area II meeting with supervisors and prepared 2 resolutions.
- Attended Todd County Development annual meeting.

Operations
- Worked with Sarah on reviewing work hours on reporting sheets submitted by staff.
- Attended active shooter training.
- Attended 2 Department Head meeting.
- Presented on radio with Loren Miller.
- Prepared Division COOP plan outlining how division would respond to a disaster.

Field Projects and Activities
- Contributed to annual tree and shrub sale event.
- Helped arrange a pollinator planting event for Battle Point Park using Long Prairie students.

Planning & Zoning
- Attended Land Use Training.
- Worked with two townships with road issues related to PZ permitting.
- Researched various methods used to issue bonds for mining permits.
- Worked with multiple landowners on land use cases and applications.
- Prepared materials, presentations, and follow-up for cases for Planning Commission and Board of Adjustment meeting. Particularly heavy workload – 20 cases in two months.

Staff Management
- Scheduled team building exercise for SWCD staff and other departments (June 6th).
- Met with staff one-on-one as needed during the past 2 months.
- Completed 3 month evaluation for WCA position.
- Reviewed, commented on, and submitted two position classification appeals.
- Prepared and distributed staff expectations and supporting information.
- Made arrangements for Conservation Corps intern who started in May.

Signatures
- Signed vouchers for SWCD and P&Z Expenses during the month.
- Signed WCA decisions for the month.
- Signed Planning and Zoning permits and decisions.
- Prepared and submitted request for continued funding for FBAP program.
Meetings, Training, Events & Outreach

- Planning meeting with SRWD 4/5/17
- NRCS & SWCD Meetings 4/5/17 & 5/10/17
- Osakis Watershed Landowner Meeting – Presentation 4/10/17
- Division Meetings 4/12/17 & 5/12/17
- Annual Township Meeting – Presentation 4/13/17
- Nutrient Management Training 5/4/17
- Filterstrip Webinar 5/11/17
- Radio Show – Open Mike 5/19/17
- MinnFARM Training 5/23/17 – 5/24/17

Buffers

- Analyzing data and compliance
- Working with landowners to identify buffer needs
- Working in BWSR’s BuffCAT (Buffer Compliance and Tracking Tool)
- Working with Shannon on identifying and defining “Other Waters” – SWCD must pass list before July 1, 2017
- Assist at counter
- Alternative Practices released by BWSR
- 60 reminder letters sent in May to landowners who may not be in compliance
- Site visits/buffer flagging – 7

MAWQCP

- 13 applications being processed
- Danny Peyton installed 2 water tanks to help keep cattle out of Latimer Lake. He received C/S from the MDA through his MAWQCP certification 😊
- Site visits/meetings – 10

Feedlots

- Assisting Deja with Registrations and Site Visits
- Site visits – 4

Trees

- Assist with tree selection for specific sites/conditions
- Updated plant vendor list to hand out to landowners
- Site visits – 2

Cost Share

Potential Project Site Visits
- Ag Waste –
- Stream Erosion – 1

Projects
- Tree Plan – Moberg

Spot Checks
- Tree Plantings – 2

Other Activities

- Lake Sampling with Shannon
Training
- None

Projects
- Current/Recently Completed Projects/Upcoming projects for approval
  - None
- Visited Cost Share Spot Checks
  - Krauel, Long Lake
  - Long Lake Association
- Provided Technical Assistance & Potential projects for Shore Land / River Restoration / Erosion *
  - Long, Latimer, Little Birch and Big Birch Lake Association
  - Sara and Dylan Fletchers, Long Prairie River
  - Skuza, Long *
  - Theilen, Ward Township*
  - Bitz, Little Birch
  - Bristlin, Osakis
  - Disher, Sauk*
  - Mosby and Hillman, Charlotte
  - Sinnen and Wolters, Big Swan
  - Shriver, Big Birch
  - City of Swanville, Pillsbury
  - Bauer, Ashley Creek*
- Aquatic Invasive Species (AIS)
  - Training lined up for Level 1 Watercraft Inspectors, 21 Inspections Certified
  - Relaying “Buddy Program” with Sherriff’s Department and AIS Inspectors
  - Middle Sauk River Watershed AIS Food Web Crashers to 4th graders (w/Lew Noska)
- RIM/WRP
  - None
- Mississippi River Brainerd Watershed
  - Civic Engagement started, Press Release to papers in May
  - Lake sampling started in 11 lakes
- Outreach
  - Latimer Lake Association Meeting
  - Planning for River and Lake Day – Aquatic Plant ID and Zebra Mussel Veliger Sampling
  - Osakis Lake Producers Meeting (w/SRWD)
  - Kids Water Festival, Douglas County SWCD
  - Dairy Ridge and Lake Latimer Meeting
- Meetings
  - NRCS/SWCD Meeting
  - SWCD Staff Meeting
  - Camp Ripley SL Practices/Restoration Team Meeting
- Funding
  - Meeting to discuss grant ideas (w/Tim Stieber)
  - Reporting to MPCA for SWAG
  - MPCA Work Plan for 319 Funding
- Other
  - Observation Wells (w/Lew Noska)
  - Tree Program, set-up, take-down and sale day
  - MN Conservation Corp prep and shadowin
Reporting Dates: April-May 2017

**Trainings attended:** MN Public Drainage Workshop

**Upcoming trainings to attend:** September, Wetland Delineation

**WCA:**

New Applications received:
- Mark Millerbernd – Leslie Twp.
- Trent Anderson – Stowe Prairie Twp.
- Stowe Prairie Twp. - ROW
- Jerry Haugen – Reynolds Twp.
- Joe Kauffman – Eagle Valley Twp.
- Pete Bosl – Reynolds TWP

Notice of Decisions:
- Michael Ebnet – Reynolds Twp.
- Roxane Lindberg – Fawn Lake Twp.
- Joe Kauffman – Eagle Valley Twp.
- Jerry Haugen – Reynolds Twp.
- Stowe Prairie Twp. - ROW
- Trent Anderson – Stowe Prairie Twp.
- Mark Millerbernd – Leslie Twp.
- CD 18
Ongoing cases and Violations:
  o Mose Miller – Eagle Valley Twp.
  o Olaf Dahlgren C/O Josh Discher – Germania Twp.
  o Eric Denny – Reynolds Twp.
  o Dennis Thiel – Germania Twp.

Other:
  o Certificate of Satisfactory Restoration Sent to Ron Hengemuhle

Customer outreach:
  o 34 Site visits
  o 81 Phone calls, office visits, etc.

SWCD:
  o Walk-In-Access with MNDNR
  o DNR OB Wells
  o Lake Water Monitoring
  o Tree Sales
  o Middle Sauk Water Festival AIS

County:
  o Attended Union Meeting
Financial/Administrative:
- Demo new changes in the e link program
- Assisted in Tree Week & Pick Up (all trees were sold)
- Grant tracking
- Invoiced for MPCA 319 Grant
- Prepared spot checks for 2017 for staff

Feedlot Program:
*(have been averaging 4+ hours/day on the Feedlot Program)*
- Assisted in feedlot registrations at the front counter
- Did 2nd mass mailing (265+ Registrations went out)
- 80+ 2nd Notice for registrations went out
- Reviewing Feedlot registration forms, and feedlot file information

Funding:
- Mailed out cost share approval letters
- Entered funding information into E link

Meetings/Trainings:
- Attended staff meetings
- Attended NRCS staff meeting
- Attended Division Meeting
- Met with Director (average 3x a week)

Upcoming Meeting/Trainings:
- AREA II Meeting
- Admin Training-Walker

County Programs:
- AIS: Submitted Vouchers
- P&Z: Deposits & Vouchers. Assisted with Inventory and cost share applications for septics
- GIS: Deposits.

Upcoming Events:
- Area II Meeting.
Signed 16 CRP conservation plans.
  o Tree buffers-37.46 acres
  o Windbreaks and shelterbelts- 10.25 acres
  o Grass buffers-8.9 acres
  o Grass Upland-47.6 acres
  o Wetlands and associated uplands- 342.8 acres

Flagged 5 CRP fields that will be seeded this spring.

Did 5 site visits.

Signed 2 EQIP honey bee contracts.

Attended SRWD Waterfest day in Sauk Centre.

Conducted WRP monitoring Training in Becker County.

Attended PF Bi-annual all staff meeting in SD.

Met with USFWS to discuss EQIP/CRP wetland restoration partnership.

Attended CREP trainings.
We have signed all the remaining EQIP contracts for this year for a total of 19 contract on 1744.8 acres totaling $724,857.00. This was out of a total of 44 applications. There is a chance additional money may come available, but is limited.

We are working through the CSP CAET Interviews to score and rank the applications. Contracts won’t be obligated until June.

Still no word on hiring another administrative contract employee, but it has been delayed.

Conservation Client Gate (CCG) is still being promoted and we are looking for more folks interested in signing up. Our office can assist producers.

Limited site inspections and preconstruction meetings have occurred since the last Board meeting.

With continued limited staff we are working diligently to maintain and keep up with daily workload along with programs and deadlines. We have continued to manage to complete tasks to meet required deadlines.
APPROVED PART I LETTER TO LGUs/PUBLIC INFORMATION MEETING NOTICE

Date: May 25, 2017

To: Rod Erickson, Chairperson, Todd County Board
Mary Ann Primus, Clerk, Grey Eagle Township Board
Joseph Arnzen, Mayor, City of Grey Eagle
Thomas Williamson Chairperson, Todd Soil and Water Conservation District
Larry Kuseske, President, Sauk River Watershed Dist.
Cheryl Lee Hills, Exec. Director, Region Five Development Commission
George Minerich, Planner, Minnesota Department of Health

From: Lori Hellman, Clerk

Re: Wellhead Protection Plan, Part 1, for the Grey Eagle

The City of Grey Eagle is in the process of developing a wellhead protection plan for its drinking water supply wells. As required by the Minnesota Wellhead Protection Rule (part 4720.5330, subpart 6), the Minnesota Department of Health approved Part 1 of the wellhead protection plan for our system. This portion of the plan includes information pertaining to:

1. The delineation of the wellhead protection area,
2. The drinking water supply management area boundary, and
3. The well and drinking water supply management area vulnerability assessment.

Enclosed please find the items listed above. If you would like a complete copy of the Part 1 plan containing the technical information used to delineate the wellhead protection area, drinking water supply management area, and vulnerability of the wells and aquifer, please contact me at (Your Telephone Number).

Consistent with the Wellhead Protection Rule (part 4720.5330, subpart 7), a Public Information Meeting has been scheduled on June 13, 2017 at 8:00 PM at City Hall, 202 Woodman Street South, Grey Eagle, MN 56336 to discuss issues and concerns with this portion of the plan. We welcome your participation at this event.

If you have any questions concerning this matter, please contact me.

cc: Shannon Haaser, Water Planner, Soil and Water Conservation District
Tim Stieber Manager, Todd Soil and Water Conservation District
Scott Henderson, Administrator Sauk River Watershed Dist.
Trudi Witkowski, Minnesota Department of Health
Grey Eagle Vulnerability Assessments

The Part I wellhead protection plan includes the vulnerability assessments for the city of Grey Eagle’s well and DWSMA. These vulnerability assessments are used to help define potential contamination sources within the DWSMA and select appropriate measures for reducing the risk that they present to the public water supply.

Assessment of Well Vulnerability:
The vulnerability assessment for the well used by the city of Grey Eagle is listed in the Table below and is based upon the following conditions:

<table>
<thead>
<tr>
<th>Local Well ID</th>
<th>Unique Number</th>
<th>Use/Status</th>
<th>Casing Diameter (inches)</th>
<th>Casin g Depth (feet)</th>
<th>Well Depth (feet)</th>
<th>Date Constructed/Reconstructed</th>
<th>Aquifer</th>
<th>Well Vulnerability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well #1</td>
<td>241391</td>
<td>Emergency Backup</td>
<td>8</td>
<td>69</td>
<td>72</td>
<td>1957</td>
<td>QBAA</td>
<td>Vulnerable</td>
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<tr>
<td>Well #2</td>
<td>170090</td>
<td>Primary</td>
<td>10</td>
<td>56</td>
<td>76</td>
<td>6/30/1980</td>
<td>QBAA</td>
<td>Vulnerable</td>
</tr>
</tbody>
</table>

Note: 1. QBAA means Quaternary Buried Artesian Aquifer.

1) Well construction appears to not meet current State Well Code specifications (Minnesota Rules, part 4725) because the construction record indicates that the well was not grouted. If the well was not grouted, it has the potential for acting as a conduit for flow of surface water and contaminants to the buried sand aquifer.

2) The geologic conditions at the well site include a cover of clay-rich geologic materials over the aquifer, however it is not sufficient to retard or prevent the vertical movement of contaminants.

3) None of the human-caused contaminants regulated under the federal Safe Drinking Water Act have been detected at levels indicating that the well itself serves to draw contaminants into the aquifer as a result of pumping (Alexander and Alexander, 1989).

4) Water samples were collected from Well #2 (170090) on January 15, 2016, and were analyzed for tritium, nitrate, chloride and bromide. Tritium was detected in the sample, confirming the vulnerable nature of the well (Alexander and Alexander, 1989). In addition, the chloride and bromide results confirm that the well has been impacted by land-use activities (Mullaney, et.al, 2009).

<table>
<thead>
<tr>
<th>Well</th>
<th>Tritium (TU)</th>
<th>Nitrate (mg/L)</th>
<th>Chloride (mg/L)</th>
<th>Bromide (mg/L)</th>
<th>Chloride/Bromide Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well #2</td>
<td>2.6</td>
<td>&lt; 0.5</td>
<td>18.7</td>
<td>0.0527</td>
<td>355</td>
</tr>
<tr>
<td>170090</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Assessment of Drinking Water Supply Management Area Vulnerability:

The vulnerability of the DWSMA is shown in Figure 7 (attached) and is based upon the following information:

1) Isotopic and water chemistry data from wells located within the DWSMA indicate that the aquifer contains water that has detectable levels of tritium indicating that post-1953 water is recharging the aquifer.

2) Review of the geologic logs contained in the CWI database indicates the aquifer exhibits a geologic sensitivity ranging from low to high throughout the DWSMA; the majority of wells exhibit low geologic sensitivities (Figure 7).

3) Arsenic, which is a naturally-occurring contaminant, has been detected in the water from Well #2 (170090) at a concentration of 13.2 ug/l (June 25, 2013). The presence of a naturally-occurring contaminant does not indicate that there is a direct pathway between the aquifer and potential contamination sources that occur at or near the land surface. It is noted that the elevated arsenic level measured in Well #2 (170090) exceeds the MCL for drinking water, however, the water supplied to users meets state and federal drinking water standards. The city currently operates a drinking water treatment plant that is designed to remove iron and manganese levels in the source water. Arsenic removal is a beneficial side effect of the iron and manganese removal system. As a result, more than 50 percent of the arsenic is removed before the water enters the public drinking water distribution system.

Therefore, given the information currently available, it is prudent to assign a moderate vulnerability rating to the DWSMA, in accordance with the Minnesota Wellhead Protection Rule (parts 4720.5100 to 4720.5590).