

Regular Board of Directors Meeting
Monday, October 8, 2018 6:00 PM
Lower Platte North NRD Office
P.O. Box 126
Wahoo, NE 68066

1. Call to Order

NOTE: The agenda is on file at the LPNNRD office and may be changed up to 24 hours prior to the meeting as scheduled.

1.A. Meeting Notice

1.B. Inform Public on Location of Copy of "Open Meeting Act"

1.C. Pledge of Allegiance

2. Roll Call

2.A. Introductions

3. Approval of Agenda

Are there any additions or corrections to the agenda?

4. Comments - Advisors/Guests

4.A. Guest Comments

4.B. NRCS Report

4.C. NARD Report

4.D. NRC Report

4.E. Managers Report

4.F. Education Program

5. Approval of Minutes

Are there any additions or corrections to the Board Meeting Minutes? If not they will be approved on the consent agenda.

6. Report of Standing Committees

6.A. Executive Committee - Action as Required

6.A.1. UNFINISHED BUSINESS - None

6.A.2. MEETINGS

6.A.2.a. Pending

6.A.2.b. Reports

6.A.2.b.1. NARD Fall Conference

6.A.3. MANAGEMENT ITEMS

6.A.3.a. Directors Absence

6.A.3.b. Monthly Education Program

Kyle Overturf will be present at the October Board Meeting to give the audit report.

6.A.3.c. LARM Insurance Payment

Attached find our 2018-2019 Renewal Invoice from LARM for our Commercial Insurance in the amount of \$61,804.28.

6.A.3.d. Dodge County Tax Roll Correction

The Dodge County Treasurer notified us that the Dodge County Board of Equalization approved a Tax Roll Correction for Deer Pointe Corporation. The total amount due from NRD is \$222.76. The County Treasurer is requesting the Board to send a letter allowing them to deduct these funds from our account. See attached documents for details.

6.A.3.e. November Board Meeting

Reminder our November Board Meeting will be held at the Newman Grove High School and we will follow the schedule below.

3:15 p.m. Presentation from High School Students

3:45 p.m. Board Meeting followed by Dinner

6.A.3.f. RFP Engineering Firm Interviews

6.A.3.g. Reserve America - Camping Reservations

Attached find the software contract from Aspira for taking campground reservations online. The initial setup is \$1,600 and a monthly maintenance fee of \$50 the first full month following the Go Live Date.

6.A.3.h. NRD Recreation Building Update

The NRD Recreation/Education building is scheduled to be delivered October 12th. A payment of \$50,000 is due at the time of delivery.

6.A.3.i. Wanahoo Recreation Area

Staff has been working with Nebraska Game and Parks to ensure a smooth and seamless transition of management. We met with representatives from the Commission and have developed an informational tool to answer questions and be utilized as a press release.

A promotional Wanahoo video is in the early stages and footage is being shot today.

Gottschlak with our District Commissioner and our local Game Warden separately last week and had a very good conversations. We are all committed to providing an NRD Recreation Area that will continue to provide outstanding recreation opportunities to the public.

Dirt Work will begin next week in preparation for concrete work on the education building site.

6.A.3.j. Wanahoo Education building bids

Bids for the building erection were due by Friday 9-28-18.

Management recommendation is to accept bid from Robert Hedges Construction in the amount of \$ 26,000 for the erection of the Wanahoo Education/Recreation building. Mr. Hedges has been notified and will be on-site at time of delivery for unloading and securing all materials.

A motion will be needed at Board Meeting to approve erection bid from Robert Hedges Construction in the amount of \$26,000.

6.A.4. EQUIPMENT

6.A.5. PERSONNEL

6.A.5.a. Operation and Maintenance Technician

David Moore has accepted the Operation and Maintenance Technician position and will start on Monday, October 1st.

6.A.6. FINANCE

6.A.6.a. Fiscal Year 2018 Audit

Attached find the Annual Audit. Kyle Overturf was available at Executive Committee to

discuss the Annual Audit and will be present at Board Meeting.

A motion will be needed at Board Meeting to accept and place on file the 2018 Audit Report as prepared and presented by Almquist, Maltzahn, Galloway and Luth.

6.A.6.b. Approval of Financial Reports

Attached find the July and August Financial Reports. Grant reviewed the Financial Reports with the Executive Committee.

6.A.6.c. Approval of Managers Time and Expense Sheets

Attached find Gottschalk's time and expense sheets.

6.A.6.d. Accounts over 90 Days

6.B. Education, Operations & Rural Water Systems Committee - Action as Required

6.B.1. UNFINISHED BUSINESS

Nothing to consider.

6.B.2. WILD NE/CREP REPORT

Nothing to report for Wild NE or CREP.

6.B.3. OPERATION & MAINTENANCE & OTHER ITEMS

We continue to monitor beaver problems at Cottonwood 6-E and on the Rawhide Diagonal ditch culverts. We did dam maintenance on Bellwood 4-L, 5-K and 5-J, access to 5-J is a problem and the landowner has been contacted. Sprayed trees below the Wanahoo dam and cut and treated trees at Czechland. Repaired a standing grill and reestablished it at Czechland. Vehicle oil changes and brake replacement on one truck.

We finished mowing at Rawhide Ditch but, had oil consumption issues with the tractor. Dinkel was notified after we added almost 5 gallons over a short period of time. They determined the turbo stopped working and took 2 weeks to repair it. They have reimburse for the oil purchases.

6.B.3.a. Wanahoo Dam

The Dept. of Natural Resources Dam inspectors will be out for inspection and measure water flow in the relief wells on Tuesday, October 2. DOT also wants to inspect the spillway tunnels at the same time. A gate may have to be opened temporarily to lower the lake if water is above the weir for inspection.

At the Dam Safety Conference in Seattle there was a presentation on Spillway Condition Assessment, Doug Johnson showed similar pictures of joint compound coming out and not adhering in the joint. The question was asked "what's the solution"? His response "It's very difficult to find a good solution and more research is needed". An exhibitor, Engineering firm suggested using three different products in our three tunnels, as we have

discussed. Heimann will be contacting other exhibitors he made contact with at the conference.

6.B.3.b. Fremont 205 Study

There's nothing to report. We have not received any updates from the Corps of Engineers.

6.B.3.c. Clear Creek Levee

The mile stretch of trees/woody vegetation in the jetties and armoring on the Clear Creek Levee was sprayed by the helicopter. (see attached aerial)

Heimann sent a list of concerns to the Corps of Engineers regarding the August 28th inspection on the levee pertaining to the current deficiencies. These deficiencies are there now because the COE didn't take care of them while the project was under their control and the Sponsors (NRD's) don't have an O & M Manual for guidance. They have promised us an O & M Manual by the end of September or October.

6.B.3.d. Czechland Lake/Recreation Areas

Current RV camping revenue at Czechland is \$8,946. This past month we have had two non-paying occurrences of which one has paid and we are waiting on the other.

This summer we have had issues with less fortunate, low income people camping and leaving our camp sites trashed and misusing the area (see picture of current example). Another couple leaves behind house hold items filling four trash barrels, burned electronic components and other items in the fire pits leaving behind buckets of burned materials to dispose of, multiple times. The County Sheriff and Conservation Officer have been notified and investigated both groups. Heimann has discussed this with Legal Counsel, Lausterer. Lausterer developed the attached three templates that could be used as a warning, first violation and revocation for campers misusing District property. He also developed this regulation for this purpose; [The Lower Platte North Natural Resources District \("District"\) expects all patrons to use the recreational areas in a responsible manner so as to show respect for nature, the facilities themselves and other users. It is the policy of the District to provide a system of progressive discipline which allows an opportunity for the resolution of improper conduct. However, while it is the policy of the District to employ a system of progressive discipline, anytime District staff deems an action of a patron requires additional disciplinary action which may not fall within the scope of progressive discipline, said action may be taken. No form of discipline is a prerequisite for other forms of discipline. Progressive discipline is the successive application of increasingly severe disciplinary actions. These actions, in order of severity, are written warning, suspension of use for twelve months and permanent revocation. If a patron feels they have received an improper suspension and/or revocation then they shall deliver a written request for an administration hearing before the General Manager of the District who shall serve as the hearing officer. Such request shall be in writing and delivered to the General Manager. Upon receipt of the request for hearing, the General Manager shall within five \(5\) working days set a time and place for the hearing. The hearing shall be held within fifteen \(15\) working days after receipt of the request for hearing. The District staff that issued the notice shall present an oral or written statement of the information and reasons supporting suspension or revocation. The patron may present an oral or written statement or](#)

statements in response. Upon conclusion of the hearing, the General Manager shall make a determination to overturn the action, modify the action or impose the action. The General Manager shall notify the patron of its decision within three (3) working days after the hearing is concluded. Appeals thereafter shall be to the District Court of Saunders County, Nebraska pursuant to the terms of the Administrative Procedures Act. Provided, however, the above procedure is not exclusive in that the District may instead choose to prosecute criminal offenses pursuant to process set forth by the Nebraska Revised Statutes which shall then have jurisdiction over the dispute.

Also find attached the Districts current Park Regulations for your review. Regulations need to be update by adding Lake Wanahoo, disciplinary actions for the misuse of District property and any other items.

6.B.3.e. Rawhide Ditch 8 Easement

Over the years some landowners have encroached on the Districts O & M easement along Rawhide Ditch 8 preventing even a pick-up from driving along the ditch. Most areas have a 50' easement area from centerline of the ditch on both sides, in limited areas it may be 35'. Two landowners have been sent letters in the past and a third was sent a letter and called this season stating they are farming in our easement area not allowing access for maintenance purposes. (See attached diagram.) Committee members directed staff to write letters and send the blueprint diagram asking these individuals to back their farming practices off of the Districts easement area and have the area reseeded. Staff will mark the easement boundary after harvest. If compliance is not met legal counsel will then be advised to write a letter.

6.B.3.f. NRS's/NARD Tree Interlocal Agreement W/ U.S. Forest Service

Attached is an interlocal agreement between the NRD's/NARD and the U.S. Forest Service Bessey Nursery. NARD is the purchasing agent for the NRD's tree planting programs. NARD purchases the tree seedlings for the Districts and the District's pay NARD after the planting season. This new agreement is for 3 years.

6.B.3.g. Grass Drill Revenue

Schuyler Coop has been notified again on submitting grass drill revenue to the District, they were called three weeks or more ago.

We received a revenue report and check on Oct. 1. The grass drill was rented to 20 cooperators for a revenue of \$2,262.30 in which the District received 50% or \$1,131.15. This is for the first half of the year.

6.B.4. ROCK AND JETTY

Nothing to report.

6.B.5. INFORMATION AND EDUCATION

6.B.5.a. Information

6.B.5.a.1. Radio & eAds

The current KTIC radio ad and Wahoo Newspaper eAd promote the recreation areas and will continue through October 31

6.B.5.a.2. Long Range Plan

Staff are currently making updates and providing additions to the FY2019 Long Range Plan.

Staff will begin to provide content and updates to the Master Plan, which is completed every 10 years.

6.B.5.a.3. Lake Wanahoo Promotional Video

The Lower Platte North NRD is currently working with redthread on creating a promotional video for Lake Wanahoo Recreation Area. We hope to have this completed and begin promotion by mid-fall. The contract has been approved and will be under the budgeted amount.

6.B.5.a.4. NACD Annual Conference

We were recently notified that a proposal TePoel submitted for the NACD Annual Conference was selected for a session presentation. The conference is February 2-6 in San Antonio, TX.

6.B.5.b. Education

6.B.5.b.1. East Central Region Land Judging

The Lower Platte North NRD will be hosting the East Central Region Land Judging Contest on Wednesday, October 10th. Registrations are due September 28th. Check-in begins at 9 am and the contest officially begins at 10 am. Student check-in and scoring will take place at the ENREC Facility near Ithaca.

6.B.5.b.2. State Land Judging

The Lower Platte North NRD will be hosting the State Land Judging Contest on Wednesday, October 17th. Check-in begins at 9 am and the contest officially begins at 10 am. Students will check-in at the Saunders County Fairgrounds. Scoring will take place at the LPNNRD Office.

6.B.5.b.3. October Education Programs

- Tuesday, October 2nd: TePoel will host a booth at the Wahoo High School Career Fair

- Wednesday, October 10th: East Central Region Land Judging
- Wednesday, October 17th: State Land Judging
- Thursday, October 18th: TePoel will present an environmental education program to St. Wenceslaus Pre-K (20 students)
- Monday, October 22nd: TePoel will present an environmental education program to St. Wenceslaus Pre-K (18 students)

6.B.6. RURAL WATER SYSTEMS

6.B.6.a. Colon System

Elliott, Benal and Doukulil relocated portion of Coufal service line that was outside easement. About 200' of the 425' service line was encroaching on the lot to the North of Malousek's and the new owners requested the line be placed within the easement due to fact that they were installing a geothermal heating/cooling system and feared that they would have a conflict with the water line.

Bills will go out Monday 10/1.

Testing was conducted 9/18.

6.B.6.b. Bruno System

Elliott emailed Jim Novacek of Butler County highway department on 9/19 about addressing the cover issue we have west of the landfill over our water line. As a reminder: Elliott was locating the line for a gas line install and detected portions of the line that were ~3' below the surface according to the electronic locator. There was very noticeable gully erosion within the ditch over the pipe.

Bills will go out 10/1.

Testing was conducted 9/18.

6.B.6.c. Other

6.C. Water Committee - Action as Required

6.C.1. UNFINISHED BUSINESS

Received Randy Fendrick letter from David City Zoning Administrator allowing for the drilling of a well for the SW1/4 & NW1/4 17-15-3E

Motion from last Committee Meeting:

To table variances LPN-NDV-018-0046 - Randy Fendrich and LPN-NDV-013-0015 - Lawrence Hynek until more information is obtained from Randy Fendrich..

App Number	Applicant	Type	Location	Subarea	Acres	Ranking Score	Acre Feet	Comments
LPN-NDV-	Kyle Osmera	Expansion	NW 1/4 15-14-5E	Weston	23.0	381.2	5.18	

018-0048							
LPN-NDV-018-0047	Anthony Meister	Expansion	NW 1/4 15-15-1E	David City	67	370	15.08
LPN-NDV-018-0046	Randy Fendrich	New	SW 1/4&NW1/4 17-15-3E	David City	140	318.6	31.5
LPN-NDV-013-0015	Lawrence Hynek	New	NW1/4&NE1/4 3-16-5E	Prague	150	275	33.75

6.C.2. REGULATORY

6.C.3. GROUND WATER MANAGEMENT AREA

6.C.3.a. Variance Request in the Hydrologically Connected Area (Limited Development Area)

The deadline for variances were due September 15. A complete list is attached with rankings.

6.C.3.b. Variance Requests in the Non-Hydrologically Connected Area (Normal Development Area)

6.C.3.c. Variance Requests in the Restricted Development Areas

6.C.3.d. Transferring of acres

Staff has received a couple of calls on producer wanting to transfer acres. Neither of these producers has proceeded on the process but staff is asking for some feedbacks to relay to these producers if they come into the office.

The first scenario involves transferring irrigated acres from our District to an adjoining District. The second is in the SQS area and the irrigated acres are being moved to another tract within the SQS area.

6.C.3.e. Well Permit Program

6.C.3.e.1. Well Permits Approved

Wells Permits Approved: #

Landowner	Number of Wells	Number of New Irrigated Acres	Type of Well	County	Subarea
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The total number of approved permits for 2017 is #

Location of Approved Well Permits for 2017: Correct as of #####

County	Irrigation - New	Irrigation - Replacement	Stock	Commercial	Municipal	Other	Total
Butler							
Colfax							
Dodge							
Boone							
Madison							
Platte							
Saunders							
Total							

6.C.3.f. Cost Share Programs

6.C.3.f.1. Irrigation Well Sample Kits

313 irrigation kits have been mailed out this year. Precipitation slowed the requests as producers have waited to irrigate. 269 samples have been received and the results

for these have been mailed to producers.

6.C.3.g. Bellwood Phase 2 Area

2018 is the sixteenth year for this Phase 2 Area.

Year	Nitrate-nitrogen Range	Percent Nitrate-nitrogen 0 to 8.0 ppm	Percent Nitrate-nitrogen 8.01 to 10.00 ppm	Percent Nitrate-nitrogen greater than 10 ppm
2004	0 to 25 ppm	46.3% (44 of 95)	8.4% (8 of 95)	45.3% (43 of 95)
2005	0 to 25 ppm	47% (44 of 94)	15% (14 of 94)	38% (36 of 94)
2006	0 to 24 ppm	41% (29 of 71)	14% (10 of 71)	45% (32 of 71)
2007	0 to 31 ppm	48% (48 of 100)	9% (9 of 100)	43% (43 of 100)
2008	0 to 28 ppm	53.75% (43 of 80)	7.5% (6 of 80)	38.75% (31 of 80)
2009	0 to 22 ppm	45.5% (41 of 90)	15.5% (14 of 90)	39% (35 of 90)
2010	0 to 35.7 ppm	48.65% (54 of 111)	11.71% (13 of 111)	39.64% (44 of 111)
2011	0 to 26.6 ppm	51% (56 of 110)	6% (7 of 110)	43% (47 of 110)
2012	0 to 28.9 ppm	57% (61 of 107)	9% (10 of 107)	34% (36 of 107)
2013	0 to 25.8 ppm	50% (53 of 107)	9% (10 of 107)	41% (44 of 107)
2014	0 to 22.3 ppm	51% (55 of 108)	13% (14 of 108)	36% (39 of 108)
2015	0 to 32.3 ppm	43% (31 of 72)	8% (6 of 72)	49% (35 of 72)
2016	0 to 35.1 ppm	34% (25 of 74)	11% (8 of 74)	55% (41 of 74)
2017	0 to 19.9 ppm	33% (16 of 49)	12% (6 of 49)	55% (27 of 49)
2018	0 to 28.6 ppm	38.46% (20 of 52)	13.46% (7 of 52)	48.08% (25 of 52)

6.C.3.h. Richland - Schuyler Phase 2 Area

2018 is the third year of this Phase 2 Area. There are 45 registered active irrigation wells in the ten sections of this new area.

Year	Nitrate-nitrogen Range	Percent Nitrate-nitrogen 0 to 8.0 ppm	Percent Nitrate-nitrogen 8.01 to 10.00 ppm	Percent Nitrate-nitrogen greater than 10 ppm
2016	1.47 to 41.8 ppm	29% (10 of 34)	9% (3 of 34)	62% (21 of 34)
2017	2.44 to 23.6 ppm	19% (4 of 21)	(0 of 21)	81% (17 of 21)
2018	1.75 to 29.3 ppm	26% (5 of 19)	11% (2 of 19)	63% (12 of 19)

6.C.3.i. Richland - Schuyler Phase 3 Area

2018 is the third year of this Phase 3 Area. This Phase 3 area went into effect September 1, 2015. The 55 sections of this area first went into a Phase 2 Area in 2004.

Year	Nitrate-nitrogen Range	Percent Nitrate-nitrogen 0 to 8.0 ppm	Percent Nitrate-nitrogen 8.01 to 10.00 ppm	Percent Nitrate-nitrogen greater than 10 ppm
2004	0 to 47 ppm	30% (42 of 139)	10% (14 of 139)	60% (83 of 139)
2005	0 to 120 ppm	31.3% (74 of 236)	10.2% (24 of 236)	58.5% (138 of 236)
2006	0 to 53 ppm	28% (50 of 181)	14% (26 of 181)	58% (105 of 181)
2007	0 to 99 ppm	32% (75 of 231)	10% (22 of 231)	58% (134 of 227)
2008	0 to 46 ppm	28% (53 of 190)	12% (23 of 190)	60% (114 of 190)
2009	0 to 57 ppm	33% (72 of 216)	6% (13 of 216)	61% (131 of 216)
2010	0 to 57.5 ppm	31% (70 of 229)	7% (15 of 229)	62% (142 of 229)
2011	0 to 65.8 ppm	28% (67 of 241)	9% (21 of 241)	63% (153 of 241)
2012	0 to 52.6 ppm	29% (70 of 241)	9% (21 of 241)	62% (150 of 241)
2013	0 to 94.0 ppm	25% (63 of 252)	9% (23 of 252)	66% (166 of 252)
2014	0 to 101.0 ppm	27% (68 of 251)	9% (22 of 251)	64% (161 of 251)
2015	0 to 53.3 ppm	23% (55 of 238)	12% (29 of 238)	65% (154 of 238)
2016	0 to 50.5 ppm	25% (58 of 228)	10% (22 of 228)	65% (148 of 228)
2017	0 to 53.4 ppm	27.15% (38 of 140)	6.42% (9 of 140)	66.43% (93 of 140)
2018	0 to 56.9 ppm	25% (46 of 182)	7% (12 of 182)	68% (124 of 182)

6.C.3.j. LPNNRD Operator Certification

No online test requests have been received in September. Meeting with County Extension Educators and staff has been set for next Monday, October 1st, to discuss class content and dates for upcoming Nitrogen & Water Management certification classes. Suggestions from Committee on topics?

6.C.3.k. CHEMIGATION

For 2018 we have 619 renewals and 90 new permit applications for a current total of 709. Inspections for 209 renewal permits have been completed.

The breakdown by County for the Total Number of Renewals within the LPNNRD.

County	Number of Renewals
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Boone	55
Butler	89
Colfax	42
Dodge	96
Madison	7
Platte	102
Saunders	228

The breakdown by county of the number of renewal inspections completed.

County	Number of Renewal Inspections Completed
Boone	11
Butler	20
Colfax	22
Dodge	51
Madison	6
Platte	44
Saunders	55

The breakdown, by county for the 87 new chemigation permit applications, are listed below:

County	New Chemigation Applications
Boone	3
Butler	21
Colfax	17
Dodge	22
Madison	0
Platte	8
Saunders	16

6.C.3.1. LIVESTOCK WASTE PERMITS

The LPNNRD has received # 3 livestock permit applications from DEQ since the last Water Committee meeting.

Name	Livestock	Type of Permit	Legal Description	County
Robert Heying	Cattle	Modification	N½ NW¼ Section 30-22N-5W	Boone
Ross Nelson	Swine	New Construction	NW¼ NE¼ Section 6-20N-4W	Platte
Kobza Poultry	Chickens	New Construction	NW¼ SW¼ Section 13-16N-2E	Butler

Description of permit applications

Robert Heying is adding more pens but not increasing the number of heads. Only concern was if the Buffer strip is wide enough.

Ross Nelson is adding two more building to finish out an additional 2,499 heads of pigs. Concerns on the location of the building in proximately of water flow during a flood event. Buffers would need to be established.

Kobza Poultry is designing 8 barns to house 380,000 broilers.

6.C.4. GROUND WATER PROGRAMS

6.C.4.a. DECOMMISSIONED WELL PROGRAM

6.C.4.a.1. Well Estimates

new wells has been reviewed and approved for decommissioning since the last Committee meeting.

Well Owner	Type of Well	Cost Share Estimate	County
Mary Morrison	Irrigation	\$ 742.04	Saunders

6.C.4.a.2. Plugged Wells

wells have been plugged, reviewed, and ready for cost share payment approval this month.

Well Owner	Type of Well	Cost Share Estimate	County

6.C.4.a.3. Approved Meter List

Sparling Instruments has introduced a Bluewater Electromagnetic FlowMeter. This meter meets all of the requirements for adding it to the Lower Platte North Approved Meter List. More information is attached.

Committee wanted to make sure that these types of meters will not cause other maintenance issues in the future like iron masking the eye. Staff will be obtaining information from groups that does flow meter maintenance.

6.C.4.b. LOWER PLATTE NORTH NRD GROUND WATER STUDIES

6.C.4.b.1. Lower Platte River Consortium

A meeting was held at LPS to discuss the draft drought mitigation plan for the Platte River. The group gave editorial suggestions along with discussion on the drought response. A draft plan review and presentation will be conducted at the Water Committee on October 31. The plan is to have the Water Committee and NRD Board review the draft plan before an open house is conducted around the first part of December. At this time the plan will emphasis awareness, when a drought is predicted as most projects are still being studied.

Should the LPNNRD consider its own drought response? Committee directed staff to look at other drought plans and start working on a drought response plan for the District.

6.C.4.b.2. Dakota Monitoring Wells

The results for the samples collected in August have been received. These results were given to UNL C&SD staff for evaluation. Downey Irrigation revisited the sites in September for clean-up and for further development of the west well.

6.C.4.b.3. SQS# 2 - UNL collaboration

UNL received their order from In-Situ for ten dataloggers and cables. These will be installed at sites in October. After the end of the irrigation season Polasek and Oaklund downloaded the data file from the seven loggers already installed.

6.C.4.c. NEW MONITORING WELLS

6.C.4.d. GROUND WATER QUALITY SAMPLING

Adequate precipitation has allowed some producers to not have to run their well in 2018. That, coupled with hail events in Platte County, has reduced the number of samples collected this year. 34 of the 53 sites had nitrate samples collected: 22 of 34 were less than 8 ppm (64.7%); 4 of 34 were between 8 and 10 ppm (11.8%); 8 of 34 were greater than 10 ppm (23.5%). The nitrate range was 0 to 28.1 ppm. Pesticide samples were collected at five sites - the results of all 25 constituents at each of these sites were <RL (less than Reporting Limit). QA/QC: Three blank samples - each result was <RL. Four duplicate samples for HHS Lab came back the same as the first sample at these sites. Eight Midwest nitrate samples were collected - the results agreed with the HHS samples at these sites. Two Midwest pesticide samples were collected at two sites - the results of all constituents at both sites were <RL (less than Reporting Limit).

6.C.5. SURFACE WATER PROGRAMS

6.C.5.a. STATE LAKES, FOR THE WEEK OF

No new lakes on the Health Alert List this week and also no Lakes with high *E.coli* Bacteria!!

For complete information go to <http://deq.ne.gov>

6.C.6. OTHER

The Committee requested to move the Water Committee from October 31 to October 30 at 5 pm.

6.C.6.a. Climate and Water Seminar

Some take home points included

Know the difference between weather and climate. Weather is the now while climate is weather measured over a long period of time.

Averages can be mis-interpreted as the average temperature in Nebraska is 51.5 degrees but does not show the extremes. Normal is what happens in the last 30 years in interpreting weather patterns.

Preparation is vital for extremes weather events like flooding and drought. If \$1 is spent

for these events a 4-6 dollars return can be expected.

If anyone would like the handouts or more information just let Daryl know.

6.C.6.b. Project Grow

Staff members Tyler and Will attended the Project Grow Field Day.

Project Grow has been an opportunity for the Upper Big Blue NRD and the City of York to strengthen their public relations with one another by creating conservation practices with in the York municipal Wellfield. The wellfield now has cover crops, berry shrubs, a community garden that is sponsored by businesses, and a pollinator habitat area. The goal of this project is to improve the overall soil health, erosion control by allowing infiltration and not allowing the leaching of nitrogen into the groundwater. An example of what will be done in 2019 includes the planting of field peas and then a 16 species cover crop after the harvest of the peas. The one take away from this learning opportunity is that our soils are not as healthy as they should be. After a century of farming we have extracted the essential nutrients by over tilling and since then we have experienced a catastrophic loss of nutrients in heavy rain events. The Hypoxia in the Gulf of Mexico is a prime example of what has occurred through decades of nutrient loss. With cover crops you can keep more rain on your field by allowing more infiltration.

Scott Gonnerman is the local farmer that has partnered with the Upper Big Blue NRD and he will be using his practices on the York Municipal Wellfield through Project Grow. Scott has been farming 250 acres of dryland and irrigated ground that his father and grandfather farmed. About 15 years ago he became interested in no till and in addition to the no till practice he has used cover crops to help enrich the soil and create a rich biological system due to root development that has allowed macro pores to develop through the root zones. The development of macro pores allows the water to infiltrate instead of allowing runoff; especially during large volume rain events. The left-over crop residue and cover crops help create organic matter that wouldn't be allowable by the normal tilling practice and corn/soybean rotation. Tilling and cover crops helped Gonnerman increase water filtration, enrich the soil with essential microbial life and add organic matter that was near inexistent before applying this practice to his own ground.

6.C.6.c. NARD Fall conference

Water Department Staff Daryl, Russ, Tyler and Will attended the Fall conference. The highlight was hearing the Shell Creek presentation given to the whole assembly along with the youth group receiving the 2018 Master Conservationist in the youth category. It was great to see Don Kavan receive the Director of the year award. Some of the sessions that staff attended were Different Water Approaches, Planning, USGS updates, Sub-regional Groundwater Flow Model, Bazile Creek Mgt activities.

6.C.6.d. COMMENTS FROM THE PUBLIC

6.D. Projects Committee - Action as Required

6.D.1. UNFINISHED BUSINESS

No unfinished business to address.

6.D.2. SWCP

6.D.2.a. SWCP Application Approvals

6.D.2.b. SWCP Payments

18-S-1 Hartman Family Irr Trust - TOT/WASCB - \$8960.74

18-S-4 Eric Nelson - TOT - \$9406.72

6.D.2.c. SWCP Cancellations

None this month.

6.D.2.d. Wahoo Creek Cost Share Approvals

None this month.

6.D.2.d.1. Lands For Conservation Payments

Darrell Kubik - 41ac - \$8,118.00

Darrell Kubik - 28ac - \$5,544.00

Marvin Ptacek - 13.0ac - \$2,574.00

6.D.2.e. WATERSHEDS

6.D.2.e.1. Shell Creek

6.D.2.e.1.A. Shell Creek Environmental Enhancement Plan Implementation

Attached are two additional invoices totaling \$1,922.59 for printing and food for the Shell Creek De-listing celebration held in June. While these expenses need to be reimbursed, they happen to exceed the original Board approved guesstimate of \$1,000 for all reimbursable expenses for the event. All expenses are being reimbursed to LPNNRD through the EPA/NDEQ 319 grant.

6.D.2.e.1.A.1. Vavireck Shell Creek Bank Stabilization Project

6.D.2.e.1.A.2. Sprunk Shell Creek Wetland/Grade Stabilization Project Update

Ken Kotera presented designs for the Tom Sprunk Shell Creek Wetland/Grade Stabilization Project in Platte County as attached. Mr. Sprunk is working with the USACE to obtain a 404 permit. This project is planned to be completed next summer.

6.D.2.e.1.B. Platte County Grade Stabilization Project Requests - 9:30 a.m.

Platte County has submitted two grade stabilization project requests as attached. These projects are to stabilize channel erosion and project county infrastructure. Mark Mainelli will be present to discuss these requests with the committee.

1. Columbus North Project C-7 (794)

This grade stabilization (drop inlet) project is located approximately 3 mile north and one mile east of Columbus (on 160 Avenue, 4,140' north of County Road 298) to protect twin 72"x61' corrugated metal pipes that were installed last spring. The pipes replaced an old bridge. The County is asking LPNNRD to cover the costs of the inlet materials (\$4,943.32) and the county would secure easements and provide costs for installation (\$13,137.52).

2. Tarnov Northwest Project C-7 (802)

This grade stabilization (drop inlet) project is located approximately 2 1/2 miles west and one mile north of Tarnov (on County road 400, 2,000' east from 325 Avenue) to protect triple 72"x40' corrugated metal pipes that replaced a single span 17' timber girder bridge. The County is asking LPNNRD to cover the costs of the inlet materials (\$4,522.54) and the county would secure easements and provide costs for installation (\$10,164.73).

While these are good stabilization projects, NDEQ has informed us that the location of these projects would not contribute to enough water quality benefits (E-coli reduction) to justify use of EPA 319 grant funding. If approved, our contribution would likely need to come from LPNNRD budgeted or banked local funding. Committee action is requested.

6.D.2.e.2. Wahoo Creek Watershed

6.D.2.e.2.A. Wahoo Creek Dam Site Planning Update & FYRA Invoices

FYRA's contract for planning on sites 26a, 26b & 27 is nearly complete, however planning to include the additional eight flood reduction dams continues as all 11 sites need to fall under one plan. Through the planning process, site 26 has become two sites and site 27 has been moved north to avoid pipeline and mitigation issues. Because of this, we will need to inform the Natural Resources Commission and request this scope change at their December meeting. We discussed these changes with several commissioners at their NRC planning committee meeting on September 25.

Attached are FYRA's latest involves for planning completed on Wahoo Creek.

6.D.2.e.2.B. Wahoo Creek Consulting Firm Interviews

The Wahoo Creek Consulting interviews were held after Projects Committee meeting starting at 12:30 p.m. (FYRA, JEO, EA team), 1:30 p.m. (HDR, E&A team) and 2:30 p.m. (Olsson Associates). Members from the Projects Committee that helped select firms for interviews were Don Veskerna, Kelly Thompson, Matt Bailey and Ryan Sabatka who also were present for the interviews. Along with several staff members, other Board members attending the interviews included Bob Meduna, Alex Kavan and Bob Hilger. Each firm(s) was given 30 minutes to give their presentation, followed by a fifteen minute question/answer period.

After the interviews, the selection committee selected both the FYRA, JEO, EA team and Olsson Associates to provide a detailed scope of work and cost estimates by the October 8th Board meeting. At that time the Board will be asked to review the scopes approve firm(s) for completing design, permitting and construction services needed for completing floodwater reduction dams. After a firm(s) is approved for completing a contract(s), the Board is asked to authorize the Board Chair to sign contract(s) based on their submitted scope of work and after legal counsel review.

There was discussion on what contract work will not be reimbursable from approved federal and state funding. NRCS as said that they will not provide federal funding toward permits, which is estimated to be \$35,000 - \$40,000 per site. With eleven total sites, that could be over \$400,000 total local costs for permitting. For sites 26a., 26b. and 27, our approved state WFS funds could reimburse us for 60% of estimated permitting costs for at least these three sites (60% of \$120,000 = \$72,000). Our hope is that permitting costs could be reduced since the pattern for the each dam permit will be similar, but that will be a USACE decision. Archeology/ Cultural Resources is another local expense on eight sites with an estimated total cost of \$40,000.

6.D.2.e.2.C. Wahoo Creek Cultural Resource Investigations

Unfortunately, we did not receive any RFP's for conducting cultural resource investigations on eight additional Wahoo Creek dam sites that are being planned. These investigations need to be conducted this fall so that the overall Wahoo Creek Watershed plan can be completed. NRCS didn't have staff available for investigating all eleven sites, but did complete investigations for sites 26a, 26b & 27 last spring. The good news is that a couple of firms have expressed interest and may submit proposals by Board meeting. If received, the Board will be asked to consider approving a contract to complete Archeology/Cultural Resource investigations for the remaining eight Wahoo Creek Dam sites at the October 8th meeting. Attached is the RFP that was sent out for Archeology/Cultural Resource investigations.

6.D.2.e.2.D. Wahoo Creek Watershed Water Quality Plan Phase II

There will be several more Lands for Conservation Payments for landowner ground set-a-side for conservation projects later this fall. We continue to work with Saunders County for locating and approving water quality/grade stabilization structures in the Wahoo Creek Watershed.

6.D.2.f. LOWER PLATTE RIVER CORRIDOR ALLIANCE

HDR is working NDEQ, PMRNRD LPSNRD and LPNNRD on completing the LPRCA Watershed Water Quality Plan. It is anticipated that the final version will be submitted to EPA for review this fall.

6.D.2.g. EROSION AND SEDIMENT RULES AND REGULATIONS

No new information to report.

6.D.2.h. OTHER

7. Additional Action Items

7.A. Wahoo Creek Lands for Conservation Approval and Payment

To approve the following Lands for Conservation Payment

Gregg Fujan - 12 Acres - \$2376.00

8. Approval of Bills Pending

9. Consent Agenda Adoption

10. Comments from Directors/Guests

11. Meeting Establishment/Adjournment

NOTE: The agenda is on file at the LPNNRD office and may be changed up to 24 hours prior to the meeting as scheduled.