

Regular Board of Directors Meeting  
Monday, November 12, 2018 3:45 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 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

### 6.A.1.a. Off Site Water Table Concerns Near Sand Creek

Jovan reports that no filings or mediation dates have been set yet by the attorneys. Jovan will keep the board updated as new information is available.

## 6.A.2. MEETINGS

### 6.A.2.a. Pending

#### 6.A.2.a.1. GMDA Winter Meeting

The GMDA Winter Conference is scheduled for January 7-9, 2019 in Phoenix, Arizona. The registration information and tentative agenda are attached for your review.

#### 6.A.2.a.2. NACD Annual Meeting

The 2019 NACD Annual Meeting will be held in San Antonio February 2 - 6, 2019. Attached find registration and tentative agenda.

The Lake Wanahoo Disc Golf Course as an education component for the park was chosen to give a breakout session for this year's conference. With the selection there will need to be discussion whether to send Desirae and Bret to the conference as well.

### 6.A.2.b. Reports

#### 6.A.2.b.1. NARD Benefits Committee Report

## 6.A.3. MANAGEMENT ITEMS

### 6.A.3.a. Directors Absence

Attached find Director Thompson's excuse of absence from the September Board Meeting and Director Olson's and Sabatka's excuse from the October Board Meeting.

### 6.A.3.b. Monthly Education Program

The Newman Grove Science Club will give an update on the status of Shell Creek just prior to our November Board Meeting in Newman Grove.

### 6.A.3.c. Dodge County Tax Roll Correction

The Dodge County Treasurer notified us that the Dodge County Board of Equalization approved a Tax Roll Correction for Gene Ruzicka. The total amount due from the NRD is \$310.21. 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.d. Ne Game and Parks Permit Agent Agreement

It is time to renew our Electronic Permitting Agent Agreement with Game and Parks Commission. Discussion is requested.

#### 6.A.3.e. NRD Owned Property - Discussion

Discussion regarding LPNNRD owned property and potential sales. The District owns the following:

1. Sand Creek Site #15
2. Pheasant Forever Wetland
3. Wahoo Air Park
4. Thomas Lakes Lots

#### 6.A.3.f. 2019 Board Meeting Dates

Looking forward to 2019 Board Meeting Dates and our normally scheduled (second Monday) November Board meeting would fall on Veteran's Day November 11th. Do we want to consider moving the Board Meeting or leave on the regularly scheduled date?

#### 6.A.3.g. Lake Wanahoo Park Permit Rules

Discussion regarding the inclusion of all Saunders County residents as "resident" permit holders for Lake Wanahoo park permit fees.

#### 6.A.3.h. NRD Recreation/Education Building Update

McAtee Concrete Construction has completed all their work on the project except for the box-out portion (18'x8') that will allow for plumbing rough-in installation. Once initial plumbing work is complete, McAtee will return to complete their work.

After discussion with contractors and others with knowledge of the concrete needs of the building, the decision was made to increase initial 4" concrete thickness to 5.5" for the pad of the building. The additional cost for this additional concrete will be \$ 1,700.00. All building materials have been delivered and erection is scheduled to begin late next week.

Plumbing bids are being requested with a deadline of 9:00 am, Monday November 12. We will be moving forward in the next few weeks to gather needed information to request electrical, geo-thermal, solar and other needed bid requests.

##### 6.A.3.h.1. Building funding update

In June, Schomer and Poole addressed the Wahoo Community Foundation informing them of our plans to develop the East side of Lake Wanahoo and specifically our Education building.

A funding request was submitted to the Foundation and Schomer and Gottschalk attended the October 26th Foundation meeting to present and answer any questions they had regarding our project. After a very positive meeting, we were informed our request for \$ 30,000 was approved and will be delivered to us when requested. This funding will provide an amazing jump start to our fundraising

efforts. In the months to come, we will be contacting local businesses, community groups and organizations requesting their financial support to help us meet our targeted goal of approximately \$ 100,000 of local share contribution.

#### 6.A.4. EQUIPMENT

##### 6.A.4.a. October Wanahoo shed break-in

Sometime between 5:00 pm Friday, October 26th and 4:00 pm Saturday October 27th, our Wanahoo shed located at the top of the hill at Lake Wanahoo was broken into. Small hand tools, Dewalt power tools, chain saw, pressure washer, air compressor and a can of gasoline were some of the items stolen. A report has been filed with Saunders County Sheriff's department, LARM has been notified and a complete list of items lost is being generated. It appears a crowbar was used to pry open the south walk-in door to gain access. We are in the process of replacing the door and installing dead bolts on both walk ins.

#### 6.A.5. PERSONNEL

##### 6.A.5.a. Proposed change in staff recognition

Each year we get less and less staff involvement in our current process in nominating and selecting our NRD staff recognition awards. My plans are to institute a new "District First" award. My management philosophy is to recognize and acknowledge outstanding employee attitude and performance in an immediate and effective manner. I believe praising an employee in a timely manner, of a "job well done" helps create a more productive and positive working environment.

I would like to utilize our existing budget of \$ 1,300 to purchase 26, \$ 50.00 gift cards to be given out to employees in recognition of "District First" actions and attitudes. I intend to utilize direct knowledge, fellow staff recommendations and public input to determine award recipients.

##### 6.A.5.b. Other potential staff issues

Discussion on recent opportunities for current NRD staff.

#### 6.A.6. FINANCE

##### 6.A.6.a. Approval of Financial Reports

Grant Nuttelmann, HBE will be available at 10:15 a.m. to review the September Financial Statements with the Executive Committee.

##### 6.A.6.b. Approval of Managers Time and Expense Sheets

#### 6.A.6.c. Accounts over 90 Days

#### 6.A.6.d. Union Bank Line of Credit

Each November we renew our \$400,000 "Line of Credit" with Union Bank. Attached find the renewal paperwork.

#### 6.A.7. Other

Gottschalk will update the committee on his recent personal business developments.

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

#### 6.B.1. UNFINISHED BUSINESS

There is nothing to consider.

#### 6.B.2. WILD NE/CREP REPORT

There is nothing to report on Wild NE or CREP.

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

The O & M crew continues to monitor beaver dam problems on Rawhide Ditch, the silt dam at Czechalnd Lake and Cottonwood 6-E. We used the Bobcat to remove two large dams at Rawhide and Czechland. We assisted with the Regional and State Land Judging, mowing, digging & refilling pits. We did some fall spraying for thistle and problem weeds. Continue to cut and treat volunteer trees in many locations. Keeping up with vehicle and equipment maintenance.

##### 6.B.3.a. Lake Wanahoo Recreation Area

October 15th the NE Game & Parks Commission moved out from the Lake Wanahoo area. They took all their equipment and emptied the south side of the Wanahoo building. They removed all signage with the Game & Parks name and/or logo from the area, took 3 of the 4 iron rangers and will take the 4th after the first of the year. They did winterize the shower building.

The Wanahoo building was broke into late October 26th or early morning October 27th. They pried open and damaged a walk in door and stole varies cordless tools, a power washer, air compressor and a container of gas. The door will be replaced and dead bolts installed. The sheriffs department is investigating.

##### 6.B.3.b. Fremont 205 Update

Here's an update from Chris Fassero, COE Project Manager on the Fremont 205 Non-Structural Study, received October 5, 2018.

Frankly, we haven't made a whole lot of progress since spring time when we executed the FCSA amendment. At that time, we were working with our division and USACE headquarters to try to get some clarification of the USACE policies for formulating nonstructural flood risk reduction plans. Because USACE hasn't implemented very

many nonstructural plans, the policies regarding them aren't very clear or well established. As a result, we've been trying to learn from the few nonstructural plans that have been implemented, as well as several currently ongoing nonstructural studies, what criteria will be important for plan approval. In that effort, we've developed five different nonstructural plans that are really just different permutations of the plan we had developed in the spring time. Each one is based on slightly different criteria - two are based on the individual benefit-cost ratios of the included structures, and three are based on floodplain boundaries.

We have an internal meeting next week to discuss these five plans and decide which one to recommend to our division. My plan was to update you on the recommended plan once we discuss it with our division, but it has taken me longer than expected to get to this point. After our internal meeting next week, I expect us to have a meeting with our division sometime before the middle of November. If it's okay with you, I'll still plan to update you on the recommended plan, as well as the expected study completion and approval schedule, after that division meeting.

You haven't received a report on the previous GI study regarding levee feasibility. Our plan is to incorporate the findings of the GI study, as well as the previous work done under the CAP study, into the final report of the current CAP study. That way we'll document everything in one report.

#### 6.B.3.c. Clear Creek Levee & Thomas Lakes

Heimann is still working with the Corps of Engineers on issues brought up during a Clear Creek Levee inspection. A Corps representative has stated that we need the O & M Manual to address specific items and hopes a draft of the O & M Manual will be available in the next couple weeks.

At Thomas Lakes, representatives of the Home Owners Assoc. have concerns regarding erosion that is occurring on a trail along the north shore of the lake and of which a "Gray Water Line" lies under the trail. They insist that since the Corps completed the Clear Creek Levee renovation and elevated the adjoining ground, more water from heavy rainfall comes onto their trail and causes more erosion. The Corps visited the site on April 20, 2018 and in a report declared that the erosion was occurring before the project and the renovations have minimal effect on the trail. This item will also be revisited after the O & M Manual is published and reviewed.

#### 6.B.3.d. Rawhide Ditch 8 Easements

Heimann sent letters to three landowners regarding their farming practices encroaching onto and over the District's easement area adjacent to Rawhide Ditch 8. We have not received any comments. Staff will mark the easement area boundary after harvest and the landowners were asked to reseed the area they have been farming.

#### 6.B.3.e. Wahoo Chapter Duck Unlimited

The Wahoo Chapter Ducks Unlimited added a third duck blind on the Wanahoo Path Program area. There are now blinds on Path areas 3, 6 and 7 for youth mentor hunting. The agreement we have with the Wahoo Chapter was amended to state "three blinds".

#### 6.B.3.f. Swedeburg B-2 Thorston Dam

The Face or the upstream slope of the Swedeburg B-2 dam has some severe erosion. Heimann assisted Ken Kotera in taking survey shots on the dam. Ken will figure what needs to be done to renovate the face of the dam. This work will likely take place next summer because the lake needs to be partially drained and potentially some drying time in this area.

#### 6.B.3.g. Wanahoo Dirt/Sand Sales

For 2018 M.E. Collins has paid the District \$10,280. They will reshape and reseed some or all of the Phase I area this Fall.

#### 6.B.3.h. Czechland and Recreation Areas

To date we have received \$9,906 from RV camping at Czechland Lake.

Last month the District Park Regulations were attached for review and comments. Staff has been reviewing the regulations and need to put together a draft revision.

#### 6.B.4. ROCK AND JETTY

We have nothing to consider at this time.

#### 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 will promote the availability for grass drill rentals. The ad will run through November 30<sup>th</sup>. The ads are attached.

##### 6.B.5.a.2. FY2019 Long Range Plan

Staff is currently making updates and providing additions to the FY2019 Long Range Plan. The final draft will be available prior to the November 12<sup>th</sup> Board of Directors meeting.

A motion will be needed at Board Meeting to approve and adopt the FY 2019 Long Range Plan.

##### 6.B.5.a.3. Guest Presentation

Dr. Jodi Sangster will be in attendance to present information on the citizen scientist water testing program.

## 6.B.5.b. Education

### 6.B.5.b.1. Land Judging

The East Central Region Land Judging Competition was held on October 10<sup>th</sup> at the ENREC Facility. 197 students from 12 different FFA Chapters participated in the event. The State Land Judging Competition was held on October 17<sup>th</sup> at the Lake Wanahoo NRD Recreation Area. 151 students from 39 different FFA chapters from across the state participated in the event.

The top 5 teams from the state contest advance to the national competition in Oklahoma next Spring. A team from the Crete FFA Chapter placed 5<sup>th</sup> at the state competition and advances to the national contest. Crete is part of the East Central Region.

We are very appreciative to all of the volunteers, staff, & directors that assisted with both events.

### 6.B.5.b.2. New Education Programs

LPNNRD has partnered with Wahoo Public Schools to create a year-long outdoor skills education program for 8<sup>th</sup> grade students called "Survival Club". TePoel and Gottschalk will meet with the students once a month and coordinate/present a program on a variety of topics. The program will end with an overnight camping experience at the Lake Wanahoo NRD Recreation Area at the end of the school year.

LPNNRD has partnered with the St. Wenceslaus Pre-Kindergarten Class to provide a year-long environmental education program. TePoel will visit the class every other month and provide a presentation on a variety of topics. The program will end with a field trip to Lake Wanahoo NRD Recreation Area at the end of the school year.

### 6.B.5.b.3. November Education Programs

- Monday, November 12<sup>th</sup>: TePoel will present a wildlife program to Humphrey Public School's 6<sup>th</sup> Grade Class
- Survival Club (Wahoo Public Schools): Tentative plans include a presentation on hiking/backpacking.

## 6.B.6. RURAL WATER SYSTEMS

Elliott met with Neil Johnson of Phoenix Web Group (PWG) to discuss his proposal for remote reading of meters and software package. This proposal includes installation of three remote reading antennas (two for Colon RWD and one for Bruno RWD), billing/monitoring software and continued support.

This system would allow for a seamless transition of acquiring meter readings in house (fuel saving) and uploading into billing software. Currently we have to manually enter all readings into our billing software.

The remote reading software will also continuously monitor the system and alarm if it detects any leaks.

For FY19 the RWD has \$12,500.00 budgeted for meter reader/software and \$1200.00 for billing software.

The total package bid from PWG is \$14,000.00 (bid is attached).

#### 6.B.6.a. Colon System

Meters read with bills going out 10/31.

Monthly testing completed as normal.

#### 6.B.6.b. Bruno System

On 10/3 Elliott accompanied Bob Byrkit of Nebraska Dept. Health and Human Services for the mandatory Sanitary Survey of the Bruno RWD. It was noted that two of the air relief valve vents had cracked and needed repair. Elliott repaired vents as needed.

Elliott completed yearly testing of backflow devices. Everything checked out normal and reports will be filed with DHHS.

Meters read and bills will go out 10/31.

Monthly testing completed.

#### 6.B.6.c. Other

### 6.C. Water Committee - Action as Required

#### 6.C.1. UNFINISHED BUSINESS

A motion was made in the Water Committee to table putting the Sparling Bluewater Electromagnetic Flow Meter on the LPN approved meter list until more information can be obtained on the maintenance of electromagnetic flow meters.

Conversations with Tri-City Meters informed staff that maintenance on Mag meters is not as much of a issue than with the older versions of the meters. Knowing what the quality of water being pumped is critical in placement of certain meters. Groundwater high in iron may not be the best place for a mag meter or a well that pumps a lot of gravel might not be a good place for a propellor meter as rocks or pebbles can get caught in the prop.

Sparling commented that mag meters are used a lot with waste water treatment plants.

#### 6.C.2. Lower Platte River Consortium

John Engel rom HDR made a presentation on the draft drought plan being developed for the Lower Platte Basin.

Attached is a DRAFT copy of the plan along with some itemized cost of projects that were reviewed in the process. The second public open house is planned for Wednesday, December 5th at LPS starting at 5 pm.

### 6.C.3. REGULATORY

#### 6.C.3.a. GROUND WATER MANAGEMENT AREA

##### 6.C.3.a.1. Excess Water Complaint

Norm Kavan Jr, Chad Wehrbein and Roger Koerfner addressed the Water Committee on excess water east of Fremont preventing them from harvesting. Tom Mountford discussed the history of the drainage systems east of Fremont and the proposal that was presented in the mid 1990s to the constituents. It was explained that this drainage issue should be begin with a discussion between Dodge County and the City of Fremont. If a proposal is designed by these entities, they could approach the NRD Board for potential assistance.

##### 6.C.3.a.2. Well Permit Program

###### 6.C.3.a.2.A. Well Permits Approved

Wells Permits Approved: #

Landowner	Number of Wells	Number of New Irrigated Acres	Type of Well	County	Subarea
Eldon Theilen	1	0	Irrigation (Replacement)	Colfax	Schuyler
City of North Bend	1	0	Public Water Supply	Dodge	North Bend

The total number of approved permits for 2018 is 20

Location of Approved Well Permits for 2017: Correct as of 10/30/2018

County	Irrigation - New	Irrigation - Replacement	Stock	Commercial	Municipal	Other	Total
Butler	1	0	1	0	0	0	2
Colfax	0	2	0	0	0	0	2
Dodge	1	1	0	0	1	0	3
Boone	1	0	0	0	0	0	1

<b>Madison</b>	2	0	0	0	0	0	2
<b>Platte</b>	2	1	1	0	0	0	4
<b>Saunders</b>	2	3	0	0	0	1	6
<b>Total</b>	9	7	2	0	1	1	20

#### 6.C.3.a.2.B. Hynek Farms LLC Supplemental Well Application

The District has received a well permit application from Hynek Farms LLC, located in the SE 1/4 SW 1/4 S5-T16N-R6E Saunders County Morse Bluff Subarea. The new well will irrigate 74 acres previously serviced by well G-053940 located in the SW 1/4 SE 1/4 of the same section. The current well services 4 small pivots and the new well will allow for better management decisions.

#### 6.C.3.a.3. Cost Share Programs

##### 6.C.3.a.3.A. Irrigation Well Sample Kits

313 irrigation kits have been mailed out this year. 281 samples have been received and the results for these have been mailed to producers.

##### 6.C.3.a.3.B. Flow Meter Cost Share in SQS #2

The final reimbursement was sent to WSF for \$1,059 which leaves about \$120,000 of the original grant being unused. Is it OK for staff to send a email to DNR to release the remaining balance for other projects? The Committee did not see any issues on staff sending an email to DNR to release the funds.

At the June 28, 2017 Water Committee, motion (1) offer cost-share for flow meters to producers within 2 miles of the SQS #2 Boundary with-in LPNNRD and (2)to offer cost-share within the SQS #2 area to convert gallons reading registers to acre-inches. Cost-share for registers conversion will be \$225 with producer paying the labor cost. Deadline for invoices will be by March 1.

At the November 30, 2016 Water Committee, motion was made to fund GWEL cooperator wells at \$1,000 per 8 inch meters (\$770 from WSF and \$230 from LPNNRD = \$1,000) and at \$749 per 6 inch meters (\$577 from WSF and \$172 from LPNNRD = \$749)

Water Sustainability Fund (WSF)	
8 inch meters	XX x 8" meters or XX x \$770 = \$0
6 inch meters	XX x 6" meters or XX x \$577 = \$0
WSF Total	\$0
	So Running Total WSF Grant = \$79,459 of \$200,000 grant
	So Remaining Total of WSF Grant = \$120,541

LPNNRD For GWEL Cooperators	
8 inch meter	0 x 8" meters or 1 x \$230 = \$0
6 inch meter	0 x 6" meters or 0 x \$172 = \$0
Carry over (8 inch meter)	0 x 8" meter or 0 x \$230= \$0
LPNNRD Total	\$0

Total For Flow Meter Cost Share Program	
WSF & LPNNRD	For approval at September 9, 2017 Board Meeting = \$0

#### 6.C.3.a.4. Bellwood Phase 2 Area

2018 is the sixteenth year for this Phase 2 Area. Ten water samples were received in October.

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 23.5 ppm	36% (27 of 74)	15% (11 of 74)	49% (36 of 74)
2018	0 to 30.9 ppm	39% (24 of 62)	11% (7 of 62)	50% (31 of 62)

#### 6.C.3.a.5. 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. No change from last month.

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 25.4 ppm	23% (8 of 35)	(0 of 35)	77% (27 of 35)
2018	1.75 to 29.3 ppm	26% (5 of 19)	11% (2 of 19)	63% (12 of 19)

#### 6.C.3.a.6. 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. No changes from last month.

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	25% (60 of 238)	6% (14 of 238)	69% (164 of 238)
2018	0 to 56.9	25% (46 of 182)	7% (12 of 182)	68% (124 of 182)

#### 6.C.3.a.7. LPNNRD Operator Certification

No online test requests have been received in October. Oaklund is coordinating with Melissa Bartels, the new Extension Educator for Butler (and Polk) county, and Mandi Topil for use of the Butler County Events Center for two classes. The 2019 classes will start with a test allowing any attendee who passes the test to leave and be certified.

### 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

##### 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.b. LOWER PLATTE NORTH NRD GROUND WATER STUDIES

6.C.4.b.1. Soil Moisture Cost-Share Policy

The Committee agreed to offer cost-share for capacitance soil moisture probes and remote sensing. An initial draft cost-share policy is attached for Committee Review.

6.C.4.b.2. Remote Sensing Equipment

Staff has set up a demonstration site north of Columbus with equipment to get water levels and rainfall amounts directly into the NRD office. The equipment from ADCON was put in one of the NRD dedicated monitoring wells.

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

Last Friday, Oaklund and Jackie Polacek (UNL) began installing cables and loggers in remaining UNL priority sites. The remaining cables and loggers will be installed later this week.

6.C.4.c. DAKOTA MONITORING WELLS

Water samples from these three wells to be collected in November.

6.C.4.d. FALL GROUND WATER ENERGY LEVELS

To take advantage of the favorable weather staff began collection of the Fall water levels in mid-October. With the wet ground conditions and delayed harvest some of the sites aren't yet accessible. Staff has measured in the Uplands and Todd Valley with Platte Valley, including the Wann Basin Day multi-agency collections, to be later this week. Shell Creek water level measurements will then follow in November.

6.C.4.e. USGS STREAM FLOW GAUGING SITES

The Papio NRD is looking to continue operation of the continuous groundwater level recorders operated by USGS from Leshara to Waterloo. Papio NRD is asking if LPNNRD would be able to reimburse Papio NRD the \$2,450 for the LPNNRD-80 groundwater transducer on west side of the river? If the Board decided this is something that they are willing to do, it will require an amendment to the existing agreement. This item was not included in this year's budget but could be put into next fiscal year.

USGS will be at the November 28 Water Committee to address this monitoring well along with showing the results from the the Platte/Elkhorn water study.

#### 6.C.5. OTHER

##### 6.C.5.a. GMDA ANNUAL CONFERENCE

##### 6.C.5.b. 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

###### 6.D.2.c. SWCP Cancellations

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

##### 6.D.3. WATERSHEDS

###### 6.D.3.a. Shell Creek

###### 6.D.3.a.1. Shell Creek Environmental Enhancement Plan Implementation

Work continues to line up new water quality projects in the Shell Creek Watershed.

###### 6.D.3.a.1.A. Vavricek Shell Creek Bank Stabilization Project

Attached is a \$1,484.50 invoice from Mainell Wagner for construction engineering services provided for this project. Colfax County provided the first \$10,000 for engineering services and LPNNRD is responsible for the remainder. Committee recommendation is requested. This expense will be deducted from banked NET grant funds.

Mainelli Wagner reported that the Kramer Stabilization Project extension (Vavircek - approved change order No. 2 - attached) officially begin on October 22nd and is now mostly complete. Only seeding remains which will be completed within the next two weeks. Attached is an Application and Certification for Payment No. 5 totaling \$53,241.08

as attached. This project work will be 100% reimbursed through our EPA/NDEQ 319 grant.

#### 6.D.3.a.1.B. Shell Creek Project Approvals

We are anticipating some project applications for conservation practices that could fall under eligible practices in our approved 319 grant funding. We plan to bring present a detailed list for approval by at the November 12 Board meeting subject to concordance from the Shell Creek Improvement Group.

Also attached is an invoice from Penne Screenprinting for a Polo that Newman Grove needed for one of their WQ students. Committee recommendation for payment is requested

#### 6.D.3.b. Wahoo Creek Watershed

##### 6.D.3.b.1. Firm Selected for Wahoo Creek Engineering Services

The selection committee chose Olsson as the engineering firm to negotiate a contract with to provide engineering services for the Wahoo Creek dams. Gottschalk and Mountford met with Olsson representatives on October 18 to discuss needed changes as suggested by the selection committee, management and legal counsel. We continued negotiations at this meeting with the Projects and Executive Committee members present where several additional changes and clarifications were agreed upon. After favorable review of the final version, Chair Birkel has been given the authority to sign the contract which is anticipated to be at the November 12 Board Meeting. Attached is the latest version of the proposed contract with Olsson's.

##### 6.D.3.b.2. Wahoo Creek Dam Site Planning Update & FYRA Invoices

Attached is FYRA's \$29,943.33 invoice for services on the Wahoo Creek Watershed plan. Since this work fall under an approved contract, no Board motion is required for payment. After this payment, \$309,222.56 will remain on our \$574,990 contract with FYRA. A project report is also attached.

##### 6.D.3.b.3. Wahoo Creek Watershed Water Quality Plan Phase II

Several Lands for Conservation payments have and will be paid for this past summer conservation projects completed in the Wahoo Creek Watershed. We presently have about \$450,000 of available grant funding from NDEQ and NET for water quality projects in this watershed.

##### 6.D.3.b.4. Cultural Resource Investigations

We have executed a contract with Buried Past LLC to complete a cultural

resources survey for the eight of the 11 proposed Wahoo Creek dams. as attached. We will be working with them to complete these surveys this fall. NRCS has already conducted investigates for Sites 26a., 26b. and 27 last Spring.

#### 6.D.4. LOWER PLATTE RIVER CORRIDOR ALLIANCE

##### 6.D.4.a. LPRCA Biannual Meeting

Mountford attended the LPRCA biannual meeting on October 24 at the LPSNRD. While LPNNRD is no longer a LPRCA member, we are still involved with joint projects with LPSNRD & PMRNRD that are being handled under the Alliance. A few updates on things we are involved with:

##### **1. Water Quality Management Plan**

HDR is working of the final plan revision which should be completed within the next 30 days. The extra \$14,643 expense needed for this revision will be taken from LPRCA reserve funds. Completion of this plan will mean that most of LPNNRD will be covered by an EPA/NDEQ Water Quality Management Plan that will hopefully give additional grant opportunities in those new priority areas.

##### **2. Leshara USGS Water Quality Gauges**

In partnership with USGS, LPNNRD, LPSNRD, PMRNRD, Lincoln Well Fields, and MUD have been jointly funding a three year water quality sampling effort on the Platte River near Leshara. Our current agreement will expire in April 2019. USGS and other partners are being asked if we wish to continue on with a new sampling agreement. USGS will present a proposal at our November 28th Water Committee Meeting.

##### **3. Lower Platte River Watershed Restoration Study Update (attachments)**

As has been discussed in the past, LPNNRD has supported asking the USACE to pursue federal assistance for a three year study of the Lower Platte River. The reason LPNNRD has been in support is of the potential opportunity to receive federal funding for future flood reduction projects. USACE has informed us that it looks very likely that federal funding will be made available to move forward with this effort. The latest USACE estimate of the total study cost is \$1.5 million (original estimate was \$3 million) of which 75% would be federally funded. Based on the new estimate, LPNNRD's 1/3 share of the local costs would be approximately \$125,000. While we have budgeted \$83,000 in FY 2019 for this effort, Mountford informed the group that more details will be needed on how this study may lead to flood reduction projects before the Board will consider approving budgeted funding toward this effort. Attached is past information presented to the Board. We plan to have USACE representatives come to future meetings to discuss this study if federal funding becomes available.

#### 6.D.5. NEBRASKA BUFFER STRIP PROGRAM PAYMENTS

Annual payments are due for NBSP:

Ronald Anderson: 6.9ac - \$593.61  
Ronald Anderson: 6ac - \$166.32  
Charles Barjenbruch: 9.5ac - \$229.24  
James Barjenbruch: 4.8ac - \$126.19  
James Barjenbruch: 8.2ac - \$215.58  
Hill Valley Farms Inc c/o William Klug: 16.5ac - \$3,712.50  
Rodney Julsen: 23.1ac - \$5,197.50  
Ed Luetkenhaus: 4ac - \$900.00  
Tom Sprunk: 2.1ac - \$472.50  
Tom Sprunk: 0.8ac - \$180.00  
Tom Sprunk 12.5ac - \$2812.50  
Francis Shanle: 9.5ac - \$247.00  
  
TOTAL: 103.9ac - \$14,852.94

#### 6.D.6. EROSION AND SEDIMENT RULES AND REGULATIONS

#### 6.D.7. OTHER

##### 6.D.7.a. Hazard Mitigation Plan Update

FEMA has approved up to a \$200,038.50 grant (75%) for updating our District-Wide Hazard Mitigation Plan (HMP) and for working with Fremont and Schuyler for non-structural flood risk planning (letter attached). Our HMP update was estimated at \$75,000 and additional funds were requested for flood risk planning for Fremont and Schuyler. District costs for the plan update is estimated at \$18,750. Fremont and Schuyler have indicated a desire to proceed with flood risk planning and our intention would be for each community to reimburse LPNNRD for their 25% of the costs. The Board has previously authorized sending out Requests for Proposals to qualified consultants so staff has begun working on this process with the goal to hire a firm to begin work early next year.

7. Additional Action Items

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.**