

Regular Board of Directors Meeting
Monday, December 9, 2019 1:30 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

6.A.2. MEETINGS

6.A.2.a. Pending

6.A.2.a.1. NARD Legislative Conference

The NARD Legislative Conference is scheduled for January 27 - 29 at the Embassy Suites in Lincoln. (See Attachment) If you are interested in attending the Legislative Conference let Breunig know.

6.A.2.b. Reports

6.A.3. MANAGEMENT ITEMS

6.A.3.a. Directors Absence

6.A.3.b. Monthly Education Program

Jim Cannia - Discus AEM flights, process and data collected

6.A.3.c. Annual Director Retreat

We normally hold our Annual Director Retreat in February. The Executive Committee suggested Wednesday, February 19th at the Lake Wanahoo Education Building.

6.A.3.d. Memorandum of Agreement and 1619 Privacy Attachment with NRCS

Craig Derickson will be present out our December Board Meeting to sign the updated Memorandum of Agreement. (see attachment)

6.A.3.e. 2020 Election Certificaton

Attached find 2020 Election certification information. All candidates must file with the Secretary of State - Lincoln. Deadline for Incumbents is February 18th and Non-incumbent is March 2nd.

6.A.3.f. 2020 Board Meeting and Committee Meeting Schedule

Attached find the 2020 Board and Committee Meeting Schedules. Please note that Committee Meeting Dates and Times are subject to change.

6.A.4. EQUIPMENT

6.A.5. PERSONNEL

6.A.5.a. I&E Coordinator Position

Personnel Sub-Committee met on Monday morning to discuss the I&E position that will be open after Desirae leaves January 3, 2020. The following recommendations were moved to the Exec. Committee:

- Change current I&E position requirements to include "Associates degree and NRD related experience" as a requirement in lieu of bachelors degree.
- To promote Lacey Sabatka from part-time I&E Assistant/Receptionist position to I&E Coordinator effective January 4, 2020 at the starting salary of \$40,000 per year with full benefits.
- To advertise part-time I&E position (30 hours per week) with goal to have individual hired by the first of January 2020.
- To approve Desirae TePoel for contract work with I&E department not to exceed \$ 500.00 per month. This work will be reviewed after 3 months to determine feasibility and need.

6.A.6. FINANCE

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

Grant will be available for a conference call to review the October Financial Statement.

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

Attached find Manager Gottschalk's time and expense sheets.

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

6.A.6.d. Financial Review of 2019 Wanahoo Recreation Season

The 2019 Wanahoo Recreation season turned out to be very successful. Staff will distribute expense and revenue information and answer any questions.

6.B. Operations Committee - Action as Required

6.B.1. UNFINISHED BUSINESS

We have no unfinished business.

6.B.2. WILD NE AND OTHER PROGRAMS

Nothing to report.

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

The O & M crew hauled broken concrete (as rip-rap) to Cottonwood 42-A for an eroded area on the face of the dam. Hauled dirt to fix a breach hole in a berm in the wetland area of Wanahoo. Also, hauled dirt to culverts in a road to Sand/Duck Creek dam 24.

6.B.3.a. Czechland Camping Revenue

The District received \$13,050 in revenue from camping at Czechland Lake for the year.

6.B.3.b. Swedeburg (Thorston) Dam Renovation

M.E. Collins proposes to start Tuesday, November 26th on the Swedeburg Dam repair, weather permitting.

6.B.3.c. Clear Creek Levee Repairs by Corps of Engineers

The Corps of Engineers had their contractors walk through on Friday, November 8th. Bid opening was Thursday, November 21st, the low bid was from Young's General Contracting at \$9.199 M. See attached bid abstract.

The COE received a protest for the Clear Creek Levee contract. This may delay any construction for 30-60 days.

6.B.3.d. Rawhide Ditch 8 Repair - (FEMA)

Heimann met with JEO and Gana Trucking & Excavating on Friday, November 15th to look at closing the two breach holes before Spring. JEO will design it as permanent except for the last 1 foot. This was requested by the two landowners because they don't want Spring flooding to occupy their fields. Gana Trucking has submitted a price of \$61,942.00. (see attached) Gana will start work the week of Dec. 9th weather permitting. JEO is working on access and work area surveys so we can establish temporary construction easements.

6.B.3.e. Clear Creek Fuse Plug at Camp Ashland (FEMA)

Clark Construction placed the sand in three days, the membrane arrived Friday, November 22 and was installed on Monday and Tuesday morning and 6" of top soil was added as installation of the membrane moved along. (See attached photo) Not all of the top soil was in place because of the weather.

There will be a change order because the contractor had to provide security at the construction entrance.

The National Guard will fill the Fuse Plug opening when the project is complete.

6.B.3.f. Wanahoo Dam Stilling Basin (FEMA)

FYRA reviewed the initial FEMA damage assessment and repair estimate, it was drastically underestimated. FEMA and NEMA need a new estimate for mitigation funding. FEMA's original estimate was \$85,772. FYRA's new estimate is \$529,438, this figure is to improve the Stilling Basin area. We believe FEMA wants a high estimate rather than be surprised later and funding not be available.

FEMA or NEMA has not commented.

6.B.3.g. Platte River Ice Monitoring with Camera's

Rich Tesar, Director from Papio NRD initiated the idea of using cameras on Platte River

bridges to monitor ice conditions. Mountford and Anderson have been meeting with a group in the Fremont area. The group consist of Papio, Lower Platte North, Dodge Co., Fremont, Inglewood, Emergency Management, OPPD, National Weather Service and there may be more. The thought is to place up to 5 cameras on the Platte River from Columbus to Hwy 92. The cost for the current cameras is \$1,080.00. These cameras are not infrared which should be strongly considered. Currently, there may be enough sponsors to place 2 or 3 cameras in the Dodge/Saunders/Douglas County area, it is uncertain upstream. The group is also looking at Hazard Mitigation as a funding source. There will be more to come because they would like to potentially install cameras this December/January. More information will be available by December board meeting with potential motion at that time.

6.B.3.h. Bobcat Rental Rate

The NRD's Bobcat T770 is used by Rural Water, we are suggesting that a rental rate be established for the purpose to share maintenance/repair cost.

If you rent a Bobcat from Bobcat of Omaha it will cost \$310/day, Hamilton's Rental in Lincoln charges \$325 for half day and \$475/day. Clark Construction has a rate of \$130/hr.

We would like to establish a reasonable rate for policy.

6.B.4. ROCK AND JETTY

Nothing new to report.

6.B.5. LAKE WANAHOO

6.B.5.a. Lake Wanahoo Permit Sales

The District received \$115 in park permit revenue for November as of 11/26.

2020 annual Lake Wanahoo permits have been delivered and pre-sale is scheduled to begin December 1, 2019. All 2020 permits sold in December 2019 will be valid from date of sale.

6.B.5.b. Lake Wanahoo Camping Revenue

The District received \$821 in camping revenue for November as of 11/26.

6.B.5.c. Financial Review of 2019 Wanahoo Recreation Season

The 2019 Wanahoo Recreation season turned out to be very successful. Staff will distribute expense and revenue information and answer any questions.

6.B.5.d. 2020 Wanahoo Park Improvements:

- Mow two toboggan runs north of entrance to provide winter recreation opportunity

- Add rock to 24 existing grass camping pads.
- Addition of fish cleaning station
- Build and place up to 10, primitive cabins within the south, upper tent camping area. These approx. 10'x12' cabins would have 30 amp power, window air conditioner, table and bunks/sleeping loft and would be built on concrete slab without plumbing.

6.B.5.e. Wanahoo Education Building Cleaning

Staff is planning to go to bid for biweekly cleaning of the education building. This cleaning will be scheduled on a regular basis in order to keep up with windows, surfaces and toilet cleaning and would be in addition to general sweeping and cleaning required after each rental. Plans are to have bids ready for approval at the December board meeting. No motion is needed, just direction of the committee.

6.B.5.f. Wanahoo Education Building Floor

At the last board meeting staining and sealing the concrete floor was voted down. Staff is asking for discussion on how to proceed as something needs to be done to finish the floor so it can be included with our 60% cost-share from DNR.

6.B.5.g. Potential Wanahoo Dog Training Site

Elbert Traylor and Jeff Bundy, representing a group of Nebraska Dog Hunting Clubs has interest in developing a public training site on the Wanahoo Property. They are initially thinking of an area in the 3rd mile along the dirt borrow area and west towards the creek. Tom and I have spoken with Elbert and a formal request will be coming early next year.

6.B.6. INFORMATION AND EDUCATION

6.B.6.a. Information

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

The current KTIC radio ad and Wahoo Newspaper eAd promote the December 15th deadline for Water Use Reports and Fertilizer Application Reports in Phases 2 & 3. These ads will run from November 1st to December 15th. The ads are attached.

6.B.6.a.2. Analytics

An update on analytics for our website and social media pages will be available prior to the December Board of Directors meeting. (In order to gather data through November 30.)

▪

| Dates | Users | Sessions | Traffic Channel 1 | Traffic Channel 2 | Traffic Channel 3 | Traffic Channel 4 | Top Page | Views | Devices | Percent |
|----------------------|-------|----------|-------------------|-------------------|-------------------|-------------------|----------------|-------|---------|---------|
| October 1-30 | 710 | 904 | Organic 58.4% | Direct 25% | Referral 13.3% | Social 3.3% | Home | 543 | Desktop | 58.73% |
| | | | | | | | Lake Wanahoo | 355 | Mobile | 36.48% |
| | | | | | | | Staff | 121 | Tablet | 4.79% |
| | | | | | | | Czechland Lake | 100 | | |
| | | | | | | | Contact | 95 | | |
| | | | | | | | | | | |
| November 1-30 | 535 | 637 | Organic 62.4% | Direct 21.5% | Referral 14.1% | Social 2% | Home | 424 | Desktop | 51.3% |
| | | | | | | | Lake Wanahoo | 266 | Mobile | 42.5% |
| | | | | | | | Downloads | 97 | Tablet | 6.10% |
| | | | | | | | Staff | 93 | | |
| | | | | | | | Contacts | 77 | | |

| Facebook Data | | | | |
|---|-------------------------|-------------|---------------------|-----------|
| Date/Post | Total Views/Impressions | Total Reach | Total Engaged Users | Followers |
| October 2019 | 9446 | 6772 | 1273 | 873 |
| Top Post: Wanahoo Ed Building Available | 6732 | 4,551 | 1150 | |
| Top Post: Shared picture from Pork Chop Island | 538 | 434 | 36 | |
| Top Post: Area Land Judging NARD article | 529 | 407 | 24 | |
| November 2019 | 5341 | 5174 | 324 | 885 |
| Top Post: Wahoo Public Survival Club Presentation | 1076 | 1018 | 145 | |
| Top Post: Progress on Clear Creek Levee | 540 | 531 | 40 | |
| Top Post: Daryl presentation-East Butler | 394 | 380 | 41 | |

| Twitter Data | | | |
|---------------------|---|--|-----------|
| Date/Post | Impressions (# of times users saw tweet) | Engagements (# of times users interacted) | Followers |
| October 2019 | 2,643 | | 300 |

| | | | |
|---|--------------|------------|------------|
| Top Post: order trees | 507 | 5 | |
| Top Post: image from Wanahoo/nature quote | 248 | 8 | |
| Top Post: PCI shared picture | 199 | 4 | |
| November 2019 | 4,931 | 104 | 302 |
| Top Post: Tree Planting Program | 1355 | 26 | |
| Top Post: Progress on Clear Creek Levee | 390 | 24 | |
| Top Post: Daryl Presentation- East Butler | 244 | 16 | |

6.B.6.a.3. Master Plan 2019-2029

The final draft of the 2019-2029 Master Plan is attached.

6.B.6.b. Education

6.B.6.b.1. November-December Education Programs

| Date | School/Group | Grade/Age | # of students | Topic | Staff |
|------------------------|---------------------------|------------------------------------|---------------|--|-------------------------|
| Monday, November 4 | Butler Co. Government Day | High School | 25 | LPNNRD | TePoel |
| Tuesday, November 5 | St. Wenceslaus | Pre-K | 18 | Trees | TePoel/Sabatka |
| Wednesday, November 5 | St. Wenceslaus | Pre-K | 12 | Trees | TePoel |
| Tuesday, November 19 | East Butler | 11 th -12 th | 10 | Water Quality-point and non-point source pollution | Andersen/TePoel/Sabatka |
| Wednesday, November 20 | Wahoo Public | High School | 2 | Mock interviews-careers | TePoel |
| Monday, November 25 | Survival Club (WPS) | 8 th | 16 | Outdoor recreation: knot-tying | Gottschalk/TePoel |
| Tuesday, December 10 | Survival Club (WPS) | 8 th | | TBD | Gottschalk/TePoel |
| Monday, December 16 | St. Wenceslaus | Pre-K | 18 | TBD | TePoel |
| Tuesday, December 17 | St. Wenceslaus | Pre-K | 12 | TBD | TePoel |

6.B.7. RURAL WATER SYSTEMS

6.B.7.a. Colon System

Notification was sent to all Colon RWD customers regarding rate increase that will take effect in February 2020.

Elliott, Doukulil and Benal replaced a leaky gate valve in Colon.

Virgil Blum, Colon American Legion, contacted the RWD about stopping service to their post; they have declining membership and are running low on funds. The Legion's service was shut off 11/13.

Fire departments 2" meter was installed 11/14.

Normal monthly quality testing completed and meters read 11/26.

6.B.7.b. Bruno System

Normal monthly quality testing completed and meters read 11/26.

6.B.7.c. Other

6.C. Water Committee - Action as Required

6.C.1. UNFINISHED BUSINESS

6.C.2. REGULATORY

6.C.2.a. GROUND WATER MANAGEMENT AREA

6.C.2.a.1. Variance Request in the Hydrologically Connected Area (Limited Development Area)

Attached are information on the 2 variances (LPN-V-013-0351, LPN-V-013-0314) that were postponed until the November Water Committee Meeting. Staff has met with Kenny Pestal and Gary Meister in the last couple of weeks. As Kenny Pestal is an expansion of acres with not slope issue, the only conditions is the location of the pivot because of Dam Site 77 potential location. Gary Meister variance involved slopes greater than the 20% allowances. Staff has done a site visit and felt that with some conditions and movement of the pivot this variance could be considered. Conditions recommended for Gary Meister are:

1. Flow Meter Installed and Water Use Report needed annually.
2. Terraces needs to be maintained with additional grassed water ways as necessary.
3. Soil Moisture Sensors installed and reported annually to assist in irrigation management.
4. If more than 1 Irrigation runoff complaints, the variance could be revoked.
5. Cover Crop implemented when possible. (Didn't discuss this but open to your thoughts)
6. No till needs to be continually implemented.

Committee felt that as the Pestal Pivot will be right next to a stream, filter strips should be required.

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

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

Wells Permits Approved: #

| Landowner | Number of Wells | Number of New Irrigated Acres | Type of Well | County | Subarea |
|-------------------------------|-----------------|-------------------------------|--------------|----------|--------------------|
| Rainier Resource Holdings LLC | 1 | 0 | Livestock | Saunders | Todd Valley |
| Jim and John Stock | 1 | 135 | Irrigation | Platte | Middle Shell Creek |
| Sweetwater Inc | 1 | 47 | Irrigation | Dodge | Fremont East |

The total number of approved permits for 2019 is 26

Location of Approved Well Permits for 2019: Correct as of 11/25/2019

| County | Irrigation - New | Irrigation - Replacement | Stock | Commercial | Municipal | Other | Total |
|--------------|------------------|--------------------------|-------|------------|-----------|-------|-------|
| Butler | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| Colfax | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| Dodge | 2 | 1 | 0 | 0 | 0 | 1 | 4 |
| Boone | 6 | 0 | 0 | 0 | 0 | 0 | 6 |
| Madison | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Platte | 1 | 4 | 0 | 0 | 0 | 0 | 5 |
| Saunders | 2 | 1 | 2 | 0 | 1 | 1 | 7 |
| Total | 12 | 9 | 2 | 0 | 1 | 2 | 26 |

6.C.2.a.3. Livestock Well Permits

The LPN has received 2 livestock well permits for poultry operations. They are located in SW¼ NW¼ Section 33-17N-6E, Saunders County and NW¼ SW¼ Section 27-18N-1W, Platte County. Attached are maps of GWEL wells along with their water level graphs within the area UNL provided some detailed information on the AEM flights in these locations.

The depletion for for Platte County Operation - 9.82 acre feet depletion (0.84 Stream Depletion Factor, 168,000 birds)

The depletion for the Saunders County Operation - 28.77 acre feet depletion (0.82 Stream Depletion Factor, 504,000)

The LPNNRD has approved 4 other Poultry Operations in 2019 for a total of 87.7 Acre Feet of Depletion.

Calculations are assuming 90 gallons of water per 1000 birds ~ 252 operational days.

Committee reviewed staff's data and the letter from Linsee Schoenherr. As NRD responsibility is groundwater and not surface water, they felt sampling of the creek might be out of direct responsibility of the NRD. The Committee felt the comments should be forward to DEE after a livestock permit is received.

6.C.2.a.4. Well Interference Complaints

6.C.2.a.5. WaterSmart Grant

Chris and Daryl has been working with the Bureau of Reclamation to get the process moving. The Bureau would like more exact dollar amounts for the equipment that is part of the grant. The grant is for 31 sites within the SQS areas to install remote read transmitters with the objectives of achieving a pro-active approach for water management. Staff would like to send out RFPs in December, so the Water Committee can review and recommend a vendor at the January Board Meeting. The Bureau would like a contract signed the latter part of February.

6.C.2.a.6. Lower Platte River Basin Water Management Plan Coalition (LPRBC)

The technical group is scheduled to meet on December 3rd at Lower Elkhorn NRD in Norfolk.

6.C.2.a.7. Bellwood Phase 2 Area

2019 is the seventeenth 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 23.5 ppm | 36% (27 of 74) | 15% (11 of 74) | 49% (36 of 74) |
| 2018 | 0 to 30.9 ppm | 40% (25 of 63) | 11% (7 of 63) | 49% (31 of 63) |
| 2019 | 0 to 24.5 | 48% (22 of 46) | 9% (4 of 46) | 43% (20 of 46) |

6.C.2.a.8. Richland - Schuyler Phase 2 Area

2019 is the fourth year of this Phase 2 Area. Staff recommends setting a hearing date prior to Water Committee Meeting in January. The hearing will recommend moving this area into a Phase 3 Management Area. The stakeholder group will be meeting December 5 at Bailey's Shop at 9:30 am.

| 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 | 25% (5 of 20) | 10% (2 of 20) | 65% (13 of 20) |
| 2019 | 0.80 to 35.9 | 7% (2 to 30) | 13% (4 of 30) | 80% (24 of 30) |

6.C.2.a.9. Richland - Schuyler Phase 3 Area

2019 is the fourth year of this Phase 3 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 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 ppm | 26.5% (50 of 189) | 6.3% (12 of 189) | 67.2% (127 of 189) |
| 2019 | 0 to 39.4 | 26% (52 of 199) | 11% (22 of 199) | 63% (125 of 199) |

6.C.2.a.10. LPNNRD Operator Certification

Winter Classes:

- Thursday, January 9 - 3:30 pm at Fremont Extension Office
- Wednesday, January 22 - 4:30 pm at ENREC - Mead (in between pesticide classes)
- Wednesday, January 29 - 1 pm at Ag Hall - Columbus (flyer attached)
- Tuesday, February 11 - 9:30 am at Fairgrounds - David City (during Ag Show)
- Tuesday, February 25 - 9 am at Village Hall - Lindsay
- Wednesday, February 26 - 1 pm at Oak Ball Room - Schuyler (flyer attached)
- Tuesday, March 17 - 9 am at Ag Hall - Columbus
- Thursday, March 19 - 6 pm at ENREC - Mead

6.C.2.b. Flow Meter Policy Update

Staff attended a seminar conducted by NRCS on their grant. The first deadline is December 3rd with another planned for June or July 2020. The process would be similar to the EQIP process. Staff also met with the Bureau about water meters and they were receptive in funding flow meters. The deadline for a larger grant is September 2020.

Meter Proposal Policy:

Cost-share

- Year 1 - \$1000 cost-share for the flow meter and extra \$500 for a check valve if needed.
- Year 2 - \$800 cost-share for flow meter and extra \$500 for a check valve if needed.
- Year 3 - \$600 cost-share for flow meter and extra \$500 for a check valve if needed

Installation

- Year 1 - All wells in Nitrate Management Areas
- Year 2 - Dodge, Colfax and Butler County
- Year 3 - Platte, Boone and Madison
- Year 4 - Saunders County

Meter Details

- Meter Installation handled by Private Companies
- Meter Maintenance will be contracted out with about 1000 meters a year.

Committee discuss how Year 1 would work with the funding and the installation areas. It was suggested to go District wide the 1st year with the \$1000 incentive and then Year 2 start installation by areas.

The purpose of installing flow meters for the LPNNRD is to get a better understanding of sustainable aquifers for future generations. This will also allow the LPNNRD to be pro-active instead of re-active if water consumption becomes an issue. A producer can utilize the flow meter on how the well is actually performing and increase irrigation management efficiency. The Committee recommended to start setting aside funding, like \$200,000 a year, into a sinking fund for the purpose of a grant match.

6.C.3. GROUND WATER PROGRAMS

6.C.3.a. DECOMMISSIONED WELL PROGRAM

Earlier this month we noticed that we were not getting reimbursed by the the Nebraska Water Well Decommissioning Fund (NWWDF) like we thought we were. For the 2019 Fiscal Year there is currently \$55,000 in the NWWDF fund to be split between 20 NRD's. There are three NRD's that do not cost-share on well decommissions. For the 2019 Fiscal year (current year) the LPNNRD will be reimbursed \$1,439.00. For the 2018 Fiscal year (last year) the LPNNRD was reimbursed \$1,798.00. These figures are predetermined based upon the average amount of well's decommissioned in each district over the last three fiscal years (16,17,18). The attachment is a breakdown on how this is determined.

As of November 20th, 2019 the LPNNRD has cost-shared on 12 wells and have reimbursed those well owner \$7,433.52. For the 2019 Fiscal Year (current year) we have \$12,500 budgeted for well decommissions. Currently there are six additional wells that have been plugged but we are waiting on the well owners to provide copies of their paid invoices to the well contractors for plugging their wells. These six additional well plugs for \$5,187.38 will push us over the budgeted amount. Including those six additional wells we will have cost-shared on 18 wells and reimbursed well owners a total of \$12,620.90.

Three more well owners have applied in the month of November and an estimated \$1,707.86 will be reimbursed for those wells to be properly plugged. We have also had interest from other well owners but have not yet received the necessary paperwork to move forward. It is unknown at the current moment on how many more well owners will apply for cost-share for the remainder of the 2019 Fiscal Year.

It is recommended that we allocate more funds to this budget for the remainder of the 2019 Fiscal Year. This amount is up for discussion but it appears that we will need approximately \$3,500-\$5,000 more in the budget for the remainder of the 2019 Fiscal Year and going forward into the future.

6.C.3.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 |
|--------------------|--------------|---------------------|----------|
| Jamie Schnakenberg | Domestic | \$364.51 | Saunders |
| Tommy E. King | Domestic | \$343.35 | Madison |
| Jeffrey Bauer | Irrigation | \$1,000 | Saunders |

6.C.3.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 |
|-------------------|--------------|---------------------|----------|
| Marvin L. Mueller | Irrigation | \$1,000 | Platte |
| Dorothy A. Kavan | Domestic | \$273.54 | Saunders |

6.C.3.b. LOWER PLATTE NORTH NRD GROUND WATER STUDIES

6.C.3.b.1. Eastern Nebraska Water Resources Assessment (ENWRA)

A meeting is scheduled for December 11.

6.C.3.b.2. AEM (Airborne Electromagnetic) Update

Jim Cannia - AGF will be presenting at the Board Meeting on December 9 on the airborne flights conducted in 2018. If anyone is interested Jim will be giving more details in the morning at 10:30.

6.C.3.b.3. Lower Platte River Consortium

The drought plan has been approved by Bureau of Reclamation. The process now is to get all partners to approve the plan and then move into the next stage looking at specific projects. It would be nice to approve this at the December Board Meeting to keep the process moving. The plan is attached for review.

Highlights from the plan:

Response Actions

- Coordinated Public messaging
- Urban water use restrictions
- Urban water rate pricing
- Shifting water operations
- Groundwater pumping management and administration of surface water
- Groundwater augmentation pumping
- Import water from Missouri River
- Reservoir Releases
- Rapid Response Area

Mitigation Actions

- Surface water storage
- Canal recharge
- Alluvial aquifer recharge
- Water leasing/banking/exchanges

A few of the pages for the the Committee/Board to review are ES-10, ES-11, page 63 - 67, A-1 and A-2. Still great to read the whole document.

6.C.3.c. GROUND WATER ENERGY LEVELS

Staff has completed fall water levels. Graphs are attached for viewing. The NRD uses the fall graphs for a reference on what spring levels might be. Water levels were taken from 199 wells with only 5 fall water levels below their trigger points. Two wells, PV-13 and SC-44A, have been below their triggers for several years.

6.C.3.d. GROUND WATER QUALITY SAMPLING

Staff is planning on collecting water samples for nitrate and bacteria on any well that is available, just north and east of Columbus Lakeview Schools. The plan is to have staff contact these people for a sampling event conducted in the middle of December. Attached is an updated nitrate map for that area.

6.C.4. SURFACE WATER PROGRAMS

6.C.4.a. STREAM FLOW GAUGING SITES AND CAMERA

Attached is a possibility of a camera along the Platte River. A meeting was held on Monday, November 25 with potential partners. The group consist of Papio, Lower Platte North, Dodge Co., Fremont, Inglewood, Emergency Management, OPPD, National Weather Service and there may be more. The thought is to place up to 5 cameras on the Platte River from Columbus to Hwy 92. The cost for the current cameras is \$1,080.00. These cameras are not infrared which probably should be strongly considered.

Staff has been contacted and continue talking to partners on setting up cameras and equipment along the Platte River. Papio NRD visited with staff and is wanting to proceed with at least 3 sites. These sites would include cameras and water level sensors. The sites initially mentioned were Hwy 92, Fremont and Schuyler Bridges. Colfax County would like us to consider a site around Columbus. The cost for the equipment would be \$1,080 for the camera units and \$1,176 for the water level sensors. The subscription cost for obtaining the information is \$70/site/year through Verizon. So the total cost would be \$2,326.75 per site.

Staff has been in contact with Michael Farrell of the Platte Basin Timelapse. Hopefully a meeting can be arranged to visit with them also. Time is the biggest factor on this pilot project.

Papio NRD has reported to staff that they would be a financial partner. Staff feels other partners will also help financially with this project. The project would be a pilot project to find out if there would be benefits for adding additional sites. Three sites would be \$6,980.25. **Staff would like the Board to consider allowing staff to purchase the equipment with a maximin limit of either \$7,000 or \$9,500. Other partners will be contacted for financial help.**

6.C.4.b. USGS Streamgages

Attached is a contract from USGS for continuing support of the stream gages on Shell Creek, Wahoo Creek and the Mead Groundwater Station Lower Platte North contribution will be \$17,090.

6.C.5. Flow Meter Update

Because of the weather, McCrometer will be coming to the January 2 Water Committee.

McCrometer will be attending the Committee Meeting to update LPN on their meters. At the present time the following are approved meters manufactured by McCrometer:

McPropeller - All propeller models
Magnetic Meters
McMag 3000
Dura Mag

The purpose is to evaluate all current meters on the approved meter list and decide if they should be kept on the list.

6.C.6. OTHER

6.C.6.a. 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

Elliott presented the attached SWCP report to the committee. As of November 27, of our total \$136,599.25 state and local SWCP funds, \$31,370.61 has been spent thus far.

6.D.2.a. SWCP Application Approvals

None

6.D.2.b. SWCP Payments

None

6.D.2.c. SWCP Cancellations

None

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

None

6.D.2.e. Mike Chvatal Dam Approval

The committee discussed the Mike Chvatal small dam application that was approved in 2015. This project was slow to develop initially due to obtaining a project design, but the project wasn't completed the last two years because Mr. Chvatal's desire was to wait until after fall harvest. Dams are typically completed in the summer when there is a longer construction period and when NRCS workload is not as hectic with field layout. The committee discussed the desire to have the project completed during the 2020 summer construction period (Work completed by September 15 with paper work to be submitted by October 15)

6.D.3. WATERSHEDS

6.D.3.a. Shell Creek

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

Bill Bos continues to promote landowner conservation projects as we await NDEE's formal grant agreement for another \$350,000 of 319 grant funding for the Shell Creek Watershed.

6.D.3.a.1.A. Shell Creek Grant Funding Update

No new information.

6.D.3.b. Wahoo Creek Watershed

6.D.3.b.1. Wahoo Creek Dam Site Planning Update & FYRA Invoices

FYRA continues to complete sections of the Wahoo Creek Watershed plan and submitting them to NRCS for review. Janel Kaufman has stated that full plan document is close to completion contingent on final comments on the cultural resource review and obtaining Dam Breach Overlay Districts in Wahoo and Weston. What has been completed on the draft plan can be viewed at the following link: <https://fyraengineering-my.sharepoint.com/:f/p/jkaufman/EmPFEVCbzaNNt6mH2enV1V4B3b5mSEvvioU9XKqmjoW51A?e=5KCqvl>

We been working with JEO for establishing Dam Breach Overlay Districts in the City of Wahoo and the Village of Weston that could be impacted by Dam failures above their communities. A public hearing was held at 7:00 p.m. on Tuesday, November 26 with Wahoo and they approved the proposed Dam Breach Overlay District for the city.

Attached is FYRA's \$7,239 invoice. After this payment, up to \$48,492.61 will remain under contract.

6.D.3.b.2. Wahoo Creek Watershed Water Quality Plan Phase II

On November 26th, representatives from NDEE, NRCS, UNL Extension and LPNNRD met at our office to discuss water quality priorities as we move forward with promoting and funding future conservation practices in the Wahoo Creek Watershed. Over the past seven years, we have been targeting special federal EQIP funding (Water Quality Initiative) from NRCS and grant funding from NDEE and NET for landowner water quality practices and programs. Initially, reducing sediment loads, nitrogen and phosphorus were primary focuses along with E-coli. NRCS and NDEE are revaluing this focus to target elevated levels of E-coli and atrazine in the watershed. NRCS would like to partner with LPNNRD and NDEE in promoting and funding other best management practices that will better assist with reducing those contaminants. Renee Hancock, Jeremiah Schutz, Doug Wagner, NRCS and Elber Traylor, NDEE led discussion about our continued partnership to address additional water quality concerns in the Wahoo Creek Watershed.

NRCS suggested a public meeting inviting people to get things rolling in the watershed. If a meal is provided, it could cost up to \$1,500.

6.D.3.b.3. Olsson Design Update and Invoice

We have had discussions with Olsson and NRCS about moving forward with geotech (soil sampling and analysis) for eight of the eleven Wahoo Creek floodwater retention dams. While Olsson has completed field soil sampling for dam sites 26a, 26b and 27, we have stopped additional geotech work for the remaining eight dams (sites 55, 66, 77, 82, 83, 84, 85, 86) until the Wahoo Creek Watershed Plan is complete (as instructed by NRCS). This work falls under a different NRCS Program (WFPO), so we need to be cautious to not move forward without NRCS approval.

Olsson needs to know about scheduling geotech work for Wahoo Creek for this winter, if we can proceed. We have hoped to be able to give them the go-ahead with soil boring over this coming fall/winter, but it is unknown when we will be able to give them notice to proceed. Olsson has provided related costs for geotech work on four sites and also for all eight sites as attached, depending on how we might move ahead in the future. The present total fee for doing all eight sites at once will be \$607,460. By completing the work at two separate periods would be \$668,200. FYRA has submitted their recommended 4-5 top sites if we move ahead with a portion of the sites. FYRA's suggested first sites are: 1. Site 77; 2. Site 84; 3. Site 55; 4. Site 85; and Site 66 as an alternate (FYRA's structural data is attached). Again, NRCS has approved funding to reimburse us for this work, but we first need their approval to move forward. Andrew Philips and Sean Parks with Olsson were present to discuss the situation. It appears likely that we will not be able to complete the geotech soil borings for the remaining eight sites until the fall-winter of 2020-2021.

Attached is Olsson's latest invoice totaling \$4,334.71. This invoice also lists the October 19, 2019 invoice amount of \$2,736.78 which has already been paid.

6.D.4. JOINT WATER MANAGEMENT ADVISORY BOARD

Attached are minutes from the JWMAB meeting held on November 5th. The Board asked that the below recommendations be approved by each partnering entity.

6.D.5. HAZARD MITIGATION PLAN UPDATE

Elliott and Mountford have been working with JEO completing our District Profile and listing and ranking potential hazard mitigation projects for our plan. The second round of public meetings will be held in January/February 2020.

Attached is our latest invoice from JEO totaling \$7,537.50 for work completed on our Hazard Mitigation Plan update and work with Fremont and Schuyler on their flood risk assessments (\$15,212.50 also listed is last month's invoice which has been paid).

FEMA/NEMA will reimburse us 75% of the total invoice and Fremont and Schuyler will reimburse us their 25% share for the work done on their flood risk assessments.

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

No new information.

6.D.7. OTHER

6.D.7.a. NACD Annual Meeting - February 8-12 - Las Vegas

The Annual NACD Meeting will be held in Las Vegas, Nevada on February 8- 12. Please let staff know if you are interested in attending.

7. Additional Action Items

7.A. Decommissioned Well Payment

| | | |
|---------------------|---------------|------------|
| Mitchel Broekemeier | Hand-Dug Well | \$1,500.00 |
|---------------------|---------------|------------|

7.B. LARL-9854A1 Stoeber v Lower Platte North NRD - Coverage Letter

Legal Counsel Lausterer will update the Board.

7.C. Wahoo Creek Amendment with NRCS

An amendment to our NRCS Wahoo Creek Watershed Planning and Design agreement is attached. Our request for an additional \$125,000 has been approved.

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.