

Regular Board of Directors Meeting
Monday, August 10, 2020 6:00 PM
Lower Platte North NRD Office
P.O. Box 126
Wahoo, NE 68066

1. Call to Order

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

3.

A. Meeting Notice

B. Inform Public on Location of Copy of “Open Meeting Act”

C. Pledge of Allegiance

4. Roll Call

A. Introductions

5. Approval of Agenda

Are there any additions or corrections to the agenda?

6. Comments - Advisors/Guests

A. Guest Comments

B. NRCS Report

C. NARD Report

D. NRC Report

E. Managers Report

F. Education Program

7. Approval of Minutes

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

8. Report of Standing Committees

A. Executive Committee - Action as Required

1. UNFINISHED BUSINESS

a. Off Site Water Table Concerns Near Sand Creek

1. LARM Attorney e-mail

The latest communication with our LARM attorney will be handed out.

2. MEETINGS

a. Pending

1. NRCS Chief Matthew Lohr Visit to Lower Platte North NRD

Our office was notified last week and confirmed on Tuesday of the NRCS Chief's visit to Nebraska on August 5th and 6th. While in the State, the Chief will be visiting one NRD and he has chosen Lower Platte North. The State NRCS office is excited to have the Chief visit and has scheduled a busy day beginning with a visit to LPNNRD and Lake Wanahoo. The draft itinerary is attached which has the Chief scheduled to be at the Wanahoo Education Building from 8:30 am - 12:30 pm on the 5th. While the NRCS would like to keep the attendance at a manageable number, they are extending an invitation to LPNNRD Directors and staff. Please let me know as soon as possible if you are interested in attending.

b. Reports

3. MANAGEMENT ITEMS

a. Directors Absence

Attached find the following Director Absence Requests:

February - Thompson, Yosten

April - Sabatka

May - Yosten

June - Birkel - Meduna

All were work related.

b. Monthly Education Program

c. LARM 2020-2021 Renewal Proposal

Our LARM Insurance renews each year on October 1st. Attached is the renewal proposal for Lower Platte North NRD. This proposal includes a 2% discount for a 1 year commitment. Payment will not be made until October 1st.

4. EQUIPMENT

5. PERSONNEL

a. Compensation For Staff at Salary Lid

Discussion regarding compensation for employees sitting at salary ceiling for position.

6. FINANCE

a. Approval of Financial Reports

Grant will be available to discuss the June Financial Statements with the Executive Committee.

b. Approval of Managers Time and Expense Sheets

Attached find Gottschalk's time and expense sheets.

c. Accounts over 90 Days

d. Review of FY '21 Budget

Each Committee has reviewed their portion of the budget with Executive Committee charged with review of the Administrative and Personnel Expenses.

The Budget Workshop will be held Wednesday, August 5th at 5:00 p.m.

Our Budget Hearing will be held on August 10th beginning at 5:00 p.m., just prior to our August Board Meeting. It is anticipated that we will approve our FY21 Budget that evening.

To approve the Fiscal Year 2021 Budget with total expenditures of \$ _____. (motion to be made at 8-10-20 Board Meeting)

At the September 14th Board Meeting we will set our FY 21 Levy.

B. Operations Committee - Action as Required

1. UNFINISHED BUSINESS

Nothing to consider for unfinished business.

2. WILD NE AND OTHER PROGRAMS

Nothing to consider for Wildlife Programs.

3. OPERATION & MAINTENANCE & OTHER ITEMS

The O & M Crew is finishing watershed dam maintenance and inspections in the Bellwood Watershed. Started our mowing circuit, we began on Rawhide Ditch, moved to Ames and Cotteral Levee's and are now at Czechland Lake. Unplugged two Cottonwood Dam risers.

a. Clear Creek Levee Repair by Corps of Engineers

The repairs by the contractor under the Corps of Engineers is near 100%. A Pre-final inspection was conducted on Tuesday, July 28th. There will be a "Hit List" of items published after the inspection. Some final items to be accomplished are ROW markers, fencing and seeding.

This project repair has gone very well in working with the Contractor (Youngs) and the Corps of Engineers.

b. Wanahoo Stilling Basin - (FEMA)

The District needs to approve the Construction Observation portion of FYRA's contract. A previous Board motion approved FYRA to do Project

Management, Final Design, Permitting and Bidding which totaled \$73,021.00. The Construction Observation cost is \$62,524.00, (see attachment).

The District advertised for repairs to the Wanahoo Stilling Basin for three consecutive weeks. Bids were due by 2:00 pm on Tuesday, July 28th and opened. We received two bids, Valley Corporation \$1,452,069.27 and M.E. Collins \$1,475,330.80 a difference of \$23,261.53. See Mike Sotak's letter of recommendation and bid tabulation attached.

The process moving forward;

1. Committee make recommendation to Board to accept low bid from Valley Corporation,
2. Committee makes recommendation to Board to approve construction observation under FYRA's contract.
3. Board accepts low bid, approves FYRA contact item for construction observation and authorizes FYRA to issue Notice of Award,
4. Contractor begins to acquire insurance, bonds, etc. and processes contract,
5. Board authorizes FYRA to work w/ contractor on cost saving ideas, Once signed contract and required bonds/insurance are received, Board issues Notice to Proceed,
6. Contractor begins work.

Chris Poole has notified FEMA regarding the bids coming in higher than our Engineers Estimate, approximately \$472,000. FEMA told us it will be covered at 75% of actual cost but we must work closely with NEMA when we close out the project. We must take this information somewhat cautiously. If we can't obtain 75%, we can possibly use other FEMA Funding from other Project repairs that we didn't use.

The District's cost if FEMA/NEMA fund 75% of Engineering and Construction would be approximately \$396,904.

c. Cottonwood 21-A Emergency Spillway

Heimann met with Saunders Co. Highway representatives and Mark Mainelli, P.E. to discuss the potential solutions in addressing the elevation problems on this road structure dam. Mainelli will design solutions and forward them to NDNR Dam Safety. He will also develop an interlocal agreement for the District and Saunders County.

Saunders County will provide engineering services and construction over site and the District may have to solicit bids for the construction work if the County declines.

d. Community Forestry - Roll Call Veterans Memorial Newman Grove

Newman Grove American Legion Post 73 is requesting cost-share assistant for tree planting around their Roll Call Veteran's Memorial (see attachment). They would like to plant 8 six foot conifers around the memorial at an

approximate cost of \$2,400. The District's Community Forestry policy for cost share is 50% up to \$1,000.

e. Fremont Non-Structural 205 Study Update

From Chris Fassero Lead Planner/Project Manager COE. A draft report should begin the review process around 01 August, so we're about two months behind schedule however, we were able to put together a review team that has nonstructural experience, so we're hopeful that the review process will be streamlined by that. I'll send you another update once we're in review and we establish some review milestones.

The structures included in the final recommended nonstructural plan is summarized as follows:

Structures in Plan: 127
Average Annual Benefits: \$585,040
Average Annual Cost: \$463,546
Flood proofing Cost: \$12,514,441
Benefit-Cost Ratio: 1.26
Total Net Benefits: \$121,494

f. Grass Drill Revenue Saunders County

Rezac Seed sent in revenue of \$2,053.75 for the first half of 2020. Seventeen cooperators used the drill.

g. Wanahoo Property Dirt Sales

Calender year 2020, M.E. Collins has sent the District \$4,957.90. Since 2012 the District has received \$258,643.90.

4. ROCK AND JETTY

Don Medinger has requested cost-share assistance for repairs to his jetty system in Butler County on the Platte River. His invoice for work completed is \$6,000.

5. LAKE WANAHOO

a. Lake Wanahoo Permit Sales

As of 7/29/2020, the District received \$6,102.50 in annual permit sales revenue for the month of July. In 2019 the District received \$7925.00.

YTD Totals:
2019: \$75,310.00
2020: \$86,215.00

b. Lake Wanahoo Camping Revenue

As of July 29, 2020, the District has generated appx. \$10,166.09 in gross

camping revenue. The new cabins opened the first week of July and have already generated \$1000 in camping revenue.

6. INFORMATION AND EDUCATION

a. Information

1. Radio & eAds

We featured the recreation areas for our KTIC Radio ad and Wahoo Newspaper eAds during July. This week, the ad will be switched out with variance request information - see attached.

2. Lake Wanhoo Advertisement with News Channel Nebraska

LPNNRD purchased the "News Sponsorship" package with News Channel Nebraska for our Lake Wanhoo commercial. The commercial spot was a 30-second spot, with a 5-second spot showing the LPNNRD logo. During the month of June, the 30-second commercial was shown 12 times, with the 5-second spot showing LPNNRD logo shown 30. I have attached the time slots for all of June.

3. Analytics

Lake Wanhoo continues to remain the most viewed page of the website for 4 months now. The top 5 pages being viewed remains the same this month. We had a total of 1,489 users view the website which slowly continues to decline. We continue to see an increase of viewers using phones to view the website more than a desktop or laptop browser.

4. Month	5. #	6. Top Pages/Views	7. Viewing Device

<p>8. October 2019</p>	<p>9. 71</p>	<p>10. Home 543 Lake Wana hoo 355 Staff 121 Czech land Lake 100 Contact 95</p>	<p>11. Des k t o p 5 8 .7 3 % M o b i l e 3 4 .4 8 % T a b l e t 4 .7 9 %</p>
<p>12. June 2020</p>	<p>13. 2,</p>	<p>14. Lake Wana hoo 1,992 Home 1,008</p>	<p>15. Mo b i l e 5 1 .7 %</p>

		Czechland Lake 574 Outdoor Recreation 344 Downloads 251	Desktop 44.4% Tablets 3.9%
16. July 1 - 28 2020	17. 1,	18. Lake Wahoo 1,549 Home 712 Czechland Lake 281 Outdoor Recreation 218 Downloads	19. Mobile 54.4% Desktop 38.9% 2

		oad s 132	% T a b l e t 6 . 4 4 %
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20.

Our Facebook page continues to grow with followers. This month our top post was a couple photos of the new cabins and that they were open to rent (total views of 6,844). Other top posts included a promotional picture for Pork Chop Island (total views of 1,775) and a drought conditions map of Nebraska during mid-July from UNL (total views of 532).

21.	22	23	24.	25. F
26.	27	28	29.	30. 8

31.	32	33	34.	35. 1
36.	37	38	39.	40. 1

41.

Our Twitter page dropped one follower since last month. Our top posts for Twitter included the UNL drought conditions map (335 total views, 18 reactions), 4th of July post/office closed (199 total views) and reminder about irrigation sample kits (183 total views).

42. M	43. Impr es si o ns	44. Engag em en ts	45. Foll c v e r s
46. Oc	47. 3,707	48. 61	49. 300

50. Ju	51. 3,029	52. 118	53. 331
54. Jul	55. 1,976	56. 100	57. 330

b. Education

1. Education Programs

We were informed earlier this week that Schuyler's Middle School Outdoor day scheduled for September will be postponed with hopes to reschedule in the spring.

The education flyer will be going out in the next few weeks to area schools. I am not sure how this year's education programs will look, but we will look into options of creating videos, activities or materials that teachers can use in the classroom if visiting schools is not an option.

2. Wachiska Audobon Society

Tim Knott with the Wachiska Audubon Society will available by Zoom to discuss an upcoming proposal for a Prairie Habitat Manager. The Lower Platte North NRD helped the Wachiska Audubon Society

support the purchase of the 45-acre Fertig Prairie near Richland in 2016.
The LPNNRD contributed 8,839.50.

7. RURAL WATER SYSTEMS

a. Colon System

Results from the lead and copper testing were distributed to participating residents and required reporting was sent to DHHS. No samples were above action levels.

Monthly testing completed and bills will be mailed out 7/30.

b. Bruno System

Monthly testing completed and bills will be mailed out 7/30.

c. Other

1. NRCS Chief Matthew Lohr Visit to Nebraska

Our office was notified last week and confirmed on Tuesday of the NRCS Chief's visit to Nebraska on August 5th and 6th. While in the State, the Chief will be visiting one NRD and he has chosen Lower Platte North. The State NRCS office is excited to have the Chief visit and has scheduled a busy day beginning with a visit to LPNNRD and Lake Wanahoo. The draft itinerary is attached which has the Chief scheduled to be at the Wanahoo Education Building from 8:30 am - 12:30 pm on the 5th. While the NRCS would like to keep the attendance at a manageable number, they are extending an invitation to LPNNRD Directors and staff. Please let me know as soon as possible if you are interested in attending.

C. Water Committee - Action as Required

1. UNFINISHED BUSINESS

2. REGULATORY

a. GROUND WATER MANAGEMENT AREA

1. Variances

Christa Martin has a middle quarter on the N1/2 of Section 3-17N-7E (map attached). This tract is a couple miles north of Ames and the new Hwy 30 is going to split the property in half. She was wondering if

irrigation would still be possible. This tract of land is dryland but was irrigated at one time. She would potentially need 2 wells and looking into what would be the most cost-efficient, a pivot or sub-surface drip. The well shown by DNR records was drilled in 1957 with static water level at 5 feet. She was wondering if she should apply for a variance this year or next as timetable will be decided by the DOT. Staff is wanting some thoughts from the Committee. Is this one or two variances? Allowing some leeway on the time that the wells are drilled and equipment installed? Allowing the old well to be treated as a replacement well (assuming it is actually there)?

The Committee felt if there will be potentially 2 wells on different tract, then 2 variances are needed, Each variance will be scored separately and ranked on their own merits with no guarantees of approval. If an extension is needed, it will be treated accordingly. Staff will investigate further if the original well is still there.

2. Variance Request in the Hydrologically Connected Area (Limited Development Area)

Ray Lindhorst contacted the office regarding a well he owns in Platte County near Lindsay. The well is in the LPNNRD but irrigates ground in both LPNNRD and LLNRD. He would like to expand his system in LLNRD. Staff is asking for direction with how to proceed. LLNRD is still using acres as their method of determining water use, while we use the well.

The Committee asked staff to get a better understanding on what Lower Loup is needing to complete this transfer.

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

Variances are due August 15.

4. Variance Requests in the Restricted Development Areas

The Committee would like to view any AEM flights for the variance in section 23-14N-6E for the August Committee Meeting..

5. Well Permit Program

Staff has been handling numerous replacement well permits.

6. Municipal Well Permit

Platte Center has applied for a well permit to add an additional well. This community is struggling with high nitrates in the community wells.

7. Irrigation Runoff Complaint

Russ has handled a couple of pivot endguns watering the road plus water running into Linwood.

8. Nitrogen Management Areas Update

Staff gave an update at the Committee meeting on the equipment and data from the demonstration fields.

Staff has started the process for applying for a NET grant. Staff is still looking at a Source Water Grant through the NRCS for other projects. As one grant is federal funds and the other state, these grants working in conjunction could potentially help with the local match.

The following are the projects included the grant:

Cover Crops - \$160,000 (40 producer, maximin 80 acres, \$50/acre)

Tissue Sampling - \$2,000 (200 samples at \$10/sample)

Flow Meters - \$350,000 (350 meters at \$1000/meter)

Monitoring wells - \$100,000 (2 nested sites with 4 inch casing for sampling)

Field Mapping - \$10,000 (10 producers at \$1000/field)

High End Soil Moisture Sensors - \$20,000 (20 producers at \$1000/field)

The total amount of a NET grant would be \$642,000, which would be over 2 years and normally be about 25 percent for the LPNNRD. The LPNNRD requirement would be \$160,500 over a 2 year period.

9. Cost Share Programs

A. Irrigation Well Sample Kits

Staff has been sending out kits and received number of them back already.

b. CHEMIGATION

c. For 2020 we have 695 renewals and 52 new permit applications for a current total of 747. Inspections for 215 renewal permits have been completed.

d. LIVESTOCK WASTE PERMITS

e. The LPNNRD has received no livestock permit applications from NDEE since the last Water Committee meeting.

The Board did past a motion to stay neutral on livestock facilities and the NRD responsibility is with the permitting of high capacity wells. Manure

application is usually treated as any commercial fertilizer, which soil sampling and manure analysis should be conducted and handled by NDEE.

f. Name	g. Livestock	h. Type of Permit	i. Le
k.	l.	m.	
p.	q.	r.	
u.	v.	w.	
z.	aa.	bb.	

ee.

ff.

gg. Description of permit application

hh.

3. GROUND WATER PROGRAMS

a. DECOMMISSIONED WELL PROGRAM

1. Well Estimates

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

3. Well Owner	4. Type of Well	5. Cost Share Estimate	
7. Mark B Gall	8. Irrigation	9. \$1,000	
11. Matthew R Hilger	12. Irrigation	13. \$1,000	
15.	16.	17.	

19.

20. Plugged Wells

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

22. Well Owner	23. Type of Well	24. Cost Share Estimate
26.	27.	28.
30.	31.	32.
34.	35.	36.

38.

4. LOWER PLATTE NORTH NRD GROUND WATER STUDIES

a. Tile Drains

Other discussion?

b. Eastern Nebraska Water Resources Assessment (ENWRA)

Attached is a presentation given to the technical group on July 23. An update was given on current and potential future projects. Katie is planning on an update to the Committee/Board next year.

5. GROUND WATER QUALITY SAMPLING

Staff has been collecting water samples from the 53 statewide networks wells along with doing extra water sampling in Dodge County and the Phase areas. This year staff is assisting with a project for UNL. Staff just collects water in an additional bottle at a site that the NRD is already sampling.

Project information:

An irrigation water quality survey for NRDs of Nebraska

Charles Wortmann, Soil Fertility Specialist, Department of Agronomy and Horticulture, UNL cwortmann2@unl.edu

Substantial amounts of nutrients essential for crop growth are applied through irrigation in Nebraska. With the exception of nitrate-N, irrigation-applied nutrients have not been directly credited in fertilizer use decisions but some may be credited through the interpretation of soil test results. Information for some nutrients applied in irrigation water has been reported by county based on a survey of irrigation water quality done in the 1960's which presents the case for the need for a new survey and for analysis of all irrigation water sources <https://cropwatch.unl.edu/2019/crediting-essential-nutrients-applied-irrigation-water>. This article addressed only phosphorus (P), potassium (K), calcium (Ca),

magnesium (Mg), sulfur (S), boron (B), and chloride (Cl). I propose that we conduct a new survey that addresses these nutrients and zinc (Zn), iron (Fe), copper (Cu), manganese (Mn), and molybdenum (Mo), as well as nitrate-N, ammonium-N, sodium adsorption ratio (SAR), electrical conductivity, pH, and bicarbonate concentration. Concentrations are not expected to change much over years and survey results will be valid for years. The objective is generate a database and a report similar to the attached but with sample results mapped by latitude and longitude with interpolation for 17 water properties.

6. Drought Map

A drought map for the week of July 28 with some information from NeDNR

According to the July 25th Palmer Drought Severity Index (Att 2), conditions in the Nebraska panhandle are -3.0 to -3.9, which indicate that the area is currently experiencing a "severe drought." But directly adjacent and east of the panhandle are areas in north and central Nebraska that are experiencing +3.0 to +3.9 PDSI, indicating a "very moist spell." Minimum stream flows on the Platte River at Ashland (Att 3), according to gage 0680100 are hovering above 3,000 cfs, with a maximum of up to 9,500 cfs, so drought conditions have not been met in eastern Nebraska at this time according to the drought triggers.

7. Also, the [Nebraska Climate Assessment Response Committee \(CARC\)](https://carc.nebraska.gov) met today. Presentations given at that meeting can be found at this link: <https://carc.nebraska.gov/minutes.html>

8. Key points were:

- Warmer than normal conditions have dominated the state and region recently with regional temperatures averaging about 2-4 degrees F above normal the last 60 days.
- Almost the entire state of Nebraska has recorded below normal precipitation for 2020 so far with areas of northcentral Nebraska the anomaly with areas 4 inches above normal.
- Nebraska is currently showing 22.92 percent of the state in drought and this has been trending upwards over the last 3 months. Most of the drought is moderate (D1) with some pockets of severe in the Panhandle.
- The seasonal drought outlook has drought persisting in Nebraska through the end of October in the areas that are currently in drought. Some improvements could be seen in the far northwest part of the state as well as the extreme northeast.

9. SURFACE WATER PROGRAMS

a. STATE LAKES, FOR THE WEEK OF

Week of July 20th, 2020

This week's beach Bacteria and Harmful Algal Bloom results are now

posted on the NDEE web page ([Current Health Alerts and Sampling Results For This Week](#)).

We have a larger number of Health Alerts than usual this week. Why, you may ask. Last year the EPA recommended lowering the concentration limit for Health Alerts associated with Harmful Algal Blooms (HABs). Over the past few years states, universities, and researchers have been working with the EPA to determine if the older criteria in place since the late 1990's was still a good benchmark for Health Advisories for beaches and other recreational waters. A lot of research has been conducted since the first criteria was issued. Using this newly gained knowledge about HABs and their affects on human health it was found that a lower human health criteria was needed. We have read the new recommendations as well as the associated research and believe the new human health criteria of 8 ppb is based on very good science. As such we adopted the new lower criteria of 8 ppb for this year. This means we have a few more lakes listed this week than we would have in years past. This certainly does not mean that the lakes are more dangerous than years past it is just science doing what science does, constantly testing what we know and making the necessary changes as we learn more

b. USGS STREAM FLOW GAUGING SITES

An invoice is attached for the annual payment on stream gauges and groundwater monitoring wells per agreement 20NRJFA00170. Some information is shown from the gauges.

The data is available at this website:
<https://waterdata.usgs.gov/ne/nwis/rt>

10. OTHER

Budget

a. NRCS Chief Matthew Lohr Visit to Nebraska

Our office was notified last week and confirmed on Tuesday of the NRCS Chief's visit to Nebraska on August 5th and 6th. While in the State, the Chief will be visiting one NRD and he has chosen Lower Platte North. The State NRCS office is excited to have the Chief visit and has scheduled a busy day beginning with a visit to LPNNRD and Lake Wanahoo. The draft itinerary is attached which has the Chief scheduled to be at the Wanahoo Education Building from 8:30 am - 12:30 pm on the 5th. While the NRCS would like to keep the attendance at a manageable number, they are extending an invitation to LPNNRD Directors and staff. Please let me know as soon as possible if you are interested in attending.

b. COMMENTS FROM THE PUBLIC

D. Projects Committee - Action as Required

1. UNFINISHED BUSINESS

No unfinished business to address.

2. SWCP

DNR contacted the NRD and informed us of the FY21 SWCP state allocation. We were allocated \$83,029.00, the same amount as last year. We are budgeting \$50,000 of local funds (also the same as last year) but we will be able to utilize NDEE grant funds for a number of our approvals within the Shell Creek watershed, as well as, the Cottonwood/Wahoo Creek. Those approvals are designated with an asterisk (*) on the attached spreadsheet.

a. SWCP Application Approvals

Below are the applications for fall SWCP.

<p>b. 2</p>	<p>c.</p>	<p>d. Jos e r r H e r i s</p>	<p>e. \$ 1 2 , 5 0 0 0 . 0 0</p>	<p>f. WASCO B w/ TO</p>
<p>g. 2</p>	<p>h.</p>	<p>i. Dw e y r e L e r c</p>	<p>j. \$ 1 2 , 5 0 0 0 . 0 0</p>	<p>k. TOT/WA SC OB w/T O</p>

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<p>q. 2</p>	<p>r.</p>	<p>S. Dav</p>	<p>t. \$</p> <p>3 , 2 1 0 . 0 0</p>	<p>u. Terrace enl arg em ent</p>
<p>v. 2</p>	<p>w.</p>	<p>X. Rob</p>	<p>y. \$</p> <p>1 0 , 0 0 0 . 0 0</p>	<p>Z. TOT/WA SC OB w/T O</p>
<p>aa. 2</p>	<p>bb.</p>	<p>CC. Den</p>	<p>dd. \$</p>	<p>EE. Grassed Wat erw ay</p>

million bridge replacement project at least started later this year with the intent to have the bridge completed replaced by the spring of 2021.

While LPNNRD is not directly involved with the U.P. Railroad bridge replacement at Colfax County Road 14, that project is moving forward to be completed this year.

b. Wahoo Creek Watershed

1. Wahoo Creek Dam Site Planning Update & FYRA Invoice - FYRA & NRCS at 8:30 a.m.

On July 24th, Gottschalk, Elliott and Mountford joined a TEAM conference with NRCS and FYRA representatives to discuss moving forward with complete the Wahoo Creek Watershed Plan. Allen Gerhing, NRCS, and Mike Sotak, FYRA, joined the Projects Committee Meeting to give an update as to where things are at moving forward. As mentioned last month, more work, especially with the economics, is being required by the NRCS review group in Little Rock, AR. This will require a contract amendment with FYRA to cover the additional work and an agreement addendum with NRCS to reimburse us for the additional expense. Both Mike Sotak and Allen Gerhing will join the August 10th Board Meeting to discuss this topic as there will be potential Board motions to approve a FYRA contract amendment that is anticipated to be presented. Their will also be discussion about and a future NRCS agreement amendment that would cover this additional expense.

2. Wahoo Creek Watershed Water Quality Plan Phase II

No new information at this time.

3. Olsson Design Update and Invoice

Attached is the July 22, 2020, invoice from Olsson totaling \$14,258.05 for work completed for the Wahoo Creek Watershed Sites 26a, 26b and 27 as attached. Of the total contract amount of \$583,825 for those three sites, \$259,541.16 (44.5%) will have been expended after this payment, of which most was for geotechnical engineering. Dam design and permitting activities will continue to be on hold until NRCS approves the Wahoo Creek Watershed Plan.

4. JOINT WATER MANAGEMENT ADVISORY BOARD

a. North Bend Drainage District Improvement Project Update

LPNNRD continues to assist Dodge County, Fremont and the North Bend Drainage District (NBDD), with submitting a Hazard Mitigation grant application for 75% assistance on what is estimated to be a \$1.7 million

project, to repair and improve four miles of the NBDD drainage system (attachment). Dodge County Emergency Manager Tom Smith has been working on a preliminary cost benefit ratio for the project application which is calculated at .64 to 1.0 and work is underway with FYRA looking for ways to improve that ratio. There is also a very good chance to receive a Community Block Grant (CBG) for the project as well. Dodge County will be the fiscal agent for the project and LPNNRD has offered to help the County with project administration.

To help move things forward, Brian Newton, Fremont City Administrator, sent out an RFP to engineering firms for needed assistance on the proposed project. Two proposals (attached) were received, from JEO and FYRA, that were reviewed by NBDD, Fremont, Dodge County and LPNNRD representatives on July 21st. After discussion, the review group is recommending FYRA to be the consulting engineering firm for the North Bend Drainage District Improvement Project. This will be reported at the August 4, 2020, JWMAB agenda (attachment).

FYRA has offered to provide assistance on the FEMA grant application at no fee. Their fees will be contingent of receiving grant approvals. There was also discussion on the amount of local commitment Fremont, Dodge County and LPNNRD should prepare for in our upcoming FY2021 budgets. It was discussed that Dodge County, Fremont and LPNNRD should each budget \$100,000 of local funding for potential local assistance needed toward the project. The NBDD will also contribute financially, however it will likely be \$10,000 or less due to limited available funds they can provide. NBDD has expenditures for other ditch repairs and continual future operation and maintenance of the project.

Dodge County is requesting letters of support/commitment from the partners (Dodge County, Fremont, NBDD and LPNNRD) to include with the FEMA application. An Interlocal Agreement between the partners is also being drafted for potential LPNNRD Board approval on September August 10th.

The committee discussed the following motions for the Board review and approval consideration at our August 10, 2020 Meeting:

1. To budget up to a maximum \$100,000 for the North Bend Drainage District Improvement Project in FY 2021, with LPNNRD's final contribution being contingent on the amount of grant assistance and other partner financial contributions secured for the project.

2. To send letters of support for FEMA/NEMA and CBG grant applications as needed for the North Bend Drainage District Improvement Project.

3. To endorse the JWMAB review group's recommendation to select FYRA Engineering for assisting with the North Bend Drainage District Improvement Project subject to approval by the North Bend Drainage District, Dodge County and the City of Fremont.

Larry Ruzicha, NBDD, and Mike Sotak, FYRA, have been invited to be present or join (Zoom) the Board Meeting to answer questions.

5. HAZARD MITIGATION PLAN UPDATE

As part of our approved contract amendment with JEO, we have contacted Saunders County Zoning to give a briefing on August 3 about an opportunity for the county to move forward with a dam breach overlay for 15 of our existing structures in Saunders County. The breach areas were mapped a few years ago and including them in an overlay district would require regulations for inhabitable dwellings that are constructed below these dams. If the County expresses an interest to proceed, they will move forward with public hearings for expanding the dam breach overlay to include those dams. Likewise, the communities of Wahoo, Yutan and Prague are also being contacted to offer this opportunity to them as well.

Also, attached are comments from FEMA on our Hazard Mitigation Plan that JEO is addressing. Attached is a July 30th invoice from JEO totaling \$4,659.88 for work completed under contract.

It should be mentioned that we need shape files that accompany the breach inundation maps provided by the USACE for the seven dams above Lake Wanahoo. If we are unable to obtain those in a timely manner from USACE, JEO can produce shape files at a cost of \$1000 - \$2,000. If needed, a contract addendum on JEO's contract will be presented at the August 10th Board meeting for approval. If we need to have JEO produce shape files, 75% of this cost will be covered by our FEMA/NEMA grant.

6. EROSION AND SEDIMENT RULES AND REGULATIONS

No new information was presented.

7. OTHER

a. Draft FY21 Projects Budget Review (handouts)

The committee reviewed and gave input to the projects portions of LPNNRD's FY 2021 Budget.

b. NRCS Chief Matthew Lohr's Visit to Nebraska

Our office was notified last week and confirmed on Tuesday of the NRCS

Chief's visit to Nebraska on August 5th and 6th. While in the State, the Chief will be visiting one NRD and he has chosen Lower Platte North. The State NRCS office is excited to have the Chief visit and has scheduled a busy day beginning with a visit to LPNNRD and Lake Wanahoo. The draft itinerary is attached which has the Chief scheduled to be at the Wanahoo Education Building from 8:30 am - 12:30 pm on the 5th. While the NRCS would like to keep the attendance at a manageable number, they are extending an invitation to LPNNRD Directors and staff. Please let me know as soon as possible if you are interested in attending.

9. Additional Action Items

10. Approval of Bills Pending

11. Consent Agenda Adoption

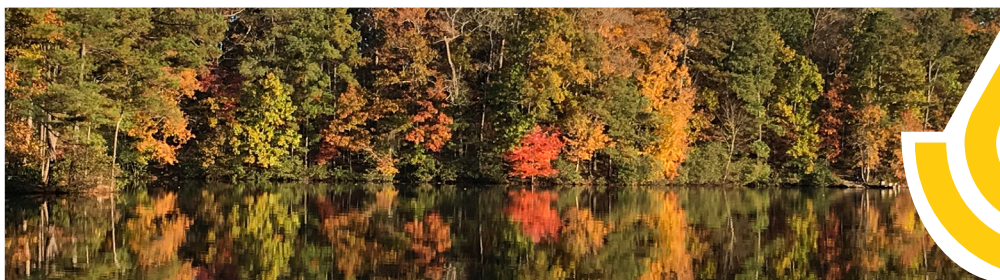
12. Comments from Directors/Guests

13. Meeting Establishment/Adjournment

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

Conservation Update

Report to LPNNRD Manager



Field Office Staff's Wahoo, Columbus, Schuyler, David City and Fremont
District Conservationist: Mark Walkenhorst

Columbus: District Secretary, Jeri Rosno
Resource Conservationist: Eric Smith
Program Assistant: Melissa Foreman
WRP team 6 coordinator: David Bichlmeier
Soil Conservation technician: Cameron Schwarting
LPNNRD Technician: Bill Bos

David City: District Secretary, Kim Piitz
Resource Conservationist: Thomas Cowan
Soil Conservation Technician: Greg Havlovic
Contract Technician, Ben Barlean

Wahoo: District Secretary, Marla Milliken
Resource Conservationist, Jami Thoene
Soil Conservationist, Sydney Abbott
Soil Conservation Technician, Joshua Charles
Contract Technician, Megan Pernicek
Compliance Specialist, Becky Pieper
Pheasants Forever Farm Bill Biologist, Jacob Koenig
Nickolas Sanders, Pathway Student

Schuyler: District Secretary, Kristin Miller
Resource Conservationist, Brach Johnson
Soil Conservationist, Jenna Kampschnieder

Fremont: District Secretary, Ashley Keeler
Resource Conservationist, Kari Littrel
Soil Conservationist, Ryan Jenkins
Soil Conservation Technician, Brian Hagerbaumer

PROGRAM DEADLINES DATES

2021 EQIP Ephemeral Erosion Signup	Ongoing
2021 NRD PROGRAMS LPNNRD	Ongoing
2021 NRD PROGRAMS LPSNRD	Ongoing
2021 EQIP APPLICATIONS (for most fund pools)	Ongoing
2021 EQIP for NWQI	Ongoing
2021 ACEP (WRP, GRP)	Ongoing
2021 CSP program (new applications)	Ongoing

"CAMP" as an employee development tool

NRCS is looking for experienced, conservationist producers who love to teach others to volunteer to be mentors to new and newly relocated field employees

The Natural Resources Conservation Service (NRCS) created "CAMP" as an employee development tool to help us accomplish our mission of delivering conservation solutions to support producers as they protect natural resources and feed a growing world, and fulfill our vision of a world of clean and abundant water, healthy soils, resilient landscapes and thriving agricultural communities through voluntary conservation. Our service model hinges upon field-based conservation experts who are highly knowledgeable about local production agriculture and natural resources and who work closely with myriad community stakeholders, including producers, conservation districts and others.

We believe CAMP will help our new and recently relocated employees strengthen their knowledge, skills and abilities by learning from producers in the community, which will help us enhance our customer service and grow our community relationships—key components of delivering on our mission and vision.

Through this program, we will match customer-facing professional and technical employees new to a local area or who have been working with NRCS for fewer than 36 months with experienced, producer volunteers who are passionate about conservation and teaching. These producers would serve as mentors to participating NRCS employees, who focus on learning from their mentor(s) through conversation and observation. At this time, NRD Board Members will be approached as being the producers serving as mentors. The target employees that can participate in this program, for 1-1.5 years, will go out on the land with their mentor producer(s) 6-12 times per year, based on their mentor's availability and at times that are convenient for them.

What is your Commitment

- ① Provide feedback to your local District Conservationist about your mentee's growth and development over the course of the program.
- ② Engage on your operation with the participating employee(s) 6-12 times per year, for up to 1.5 years. This timeline is a starting point and can be modified based on your availability.
- ③ Help your mentee improve their knowledge and awareness of production agriculture and conservation in your area, based on their needs and interests, and what you think is important for them to know.

If you are interested or would like to get additional information about this program, you can contact me at 402-443-41406 or at Mark.Walkenhorst@usda.gov

Programs Updates

- 82 Contracts are being finalized using the EQIP (Environmental Quality Incentive Program). Contracts with participants range from Soil Erosion and Soil improvement practices, such as cover crops, grass waterways, terraces, water and sediment control basins and underground outlets. In addition, contracts will be established for improvement wildlife areas, better irrigation water management, animal facility operation controls, improve pasture and grassland resources and planning purposes dealing with comprehensive nutrient plans
- 4 Conservation Stewardship Program (CSTP) contracts are being established with area producers. Most agriculture producers that participate in the CSP have already implemented conservation practices on their land. CSP offers additional opportunities to expand on existing conservation efforts by offering conservation practices, enhancements, bundles, and other conservation activities. For example, if you have been planting a cover crop, you may decide to try an enhancement for multi-species cover crop or implement a deep-rooted cover crop to break up soil compaction.
- LPNNRD applications have been submitted for the fall construction season
- 26 LPSNRD applications have been submitted for fall of 2020 construction season.

Program Operations

- All NRCS offices continue to provide a full suite of financial and technical resources to help our customers conserve soil, protect water and provide wildlife habitat. Including support related to FSA's recent Conservation Reserve Program signup. NRCS will continue to complete field work associated with program applications and conservation practice implementation and certification. However, they will be completing this work without direct, face-to-face, contact with the customers. The USDA-Natural Resources Conservation Service offers customers several alternatives to face-to-face meetings when applying for conservation program assistance or inquiring about natural resource concerns.
- NRCS offers year-round continuous sign up for its Farm Bill programs such as the Environmental Quality Incentives Program, Conservation Stewardship Program and the Agricultural Conservation Easement Program. Call respective NRCS field offices about sign up and application submission options. NRCS continues projects with partners, including universities, local and state governments, tribes, nonprofits, and others. NRCS will continue to award projects and to call for proposals for the Regional Conservation Partnership Program, Conservation Innovation Grants and the Voluntary Public Access and Habitat Incentive Program.

Partners

- Many conservation partners, like Natural Resource Districts and Pheasants Forever, are co-located within local USDA Service Center offices. Even during social distancing, NRCS staff continues to coordinate with our partners to implement soil and water conservation. During this time, customers can still reach NRCS partners through email, by calling your local Service Center or through their websites.

Online Options

- Online NRCS services are available to customers with a Level 2 eAuthentication (eAuth) account, through the Conservation Client Gateway. Customers can track payments, report completed practices, request conservation assistance, and electronically sign documents.
- Customers may access Conservation Client Gateway at <https://www.farmers.gov/sign-in>. Customers can also create a Level 2 eAuth account by selecting the "Sign In | Sign Up" option at the top of the page. This provides step-by-step instructions for creating an account.
- Information about NRCS programs can be found at www.nrcs.usda.gov or farmers.gov.

Natural Resources Conservation Service

ne.nrcs.usda.gov/



Conservation Agricultural Mentoring Program (CAMP)

Natural Resources Conservation Service

Producer Volunteer Mentor Guide

Thank you for your interest in participating in the Conservation Agricultural Mentoring Program (CAMP).

We created CAMP as an employee development tool to help us accomplish our mission of delivering conservation solutions to support producers as they protect natural resources and feed a growing world, and fulfill our vision of a world of clean and abundant water, healthy soils, resilient landscapes and thriving agricultural communities through voluntary conservation.

We are excited to partner with you through CAMP and know that your valuable knowledge and insights related to production agricultural and natural resources will strengthen our employees' knowledge, skills and abilities, helping us to improve our customer engagement and service to producers in the community.

This document is intended to be a brief, handy program user-guide. Please let your state point of contact or local District Conservationist know if you have any questions.

Contacts and Communications

NRCS District Conservationist or State Point of Contact

- The person you should contact to express interest in participating in the program.
- May match you with a participating NRCS employee.

Participating NRCS Employee/Mentee

- The NRCS employee(s) whom you will mentor.
- Once the District Conservationist or state point of contact has matched you with a participating NRCS employee, the employee will be your main point of contact.
- The employee is responsible for driving the mentoring relationship and communicating with you to arrange convenient meeting times.

Your Commitment

- Provide feedback to your local District Conservationist about your mentee's growth and development over the course of the program.
- Engage on your operation with the participating employee(s) 6-12 times per year, for up to 1.5 years. This timeline is a starting point and can be modified based on your availability.
- Help your mentee improve their knowledge and awareness of production agriculture and conservation in your area, based on their needs and interests, and what you think is important for them to know.
- Adhere to the principles in the "Mentor Personal Conduct Agreement" (on p.4).

Broad Program Learning Goals

We designed this program to give our employees an opportunity to grow their expertise, gain valuable additional experience engaging with producers, and expand their knowledge of production agriculture, all the while enhancing their capacity to provide excellent customer service. With these goals in mind, we identified a set of broad learning and knowledge objectives for this program, which are listed in the table below.

Please note, these objectives are guidelines and not prescriptive: we want to give mentors and employees some areas to focus on, while recognizing that each mentoring relationship is unique and will naturally feature the particular interests and passions of the people involved.

Production agriculture in their local areas

- Crops and why they're grown there
- Seasonality of crop and livestock production cycles and forest management cycles (e.g., planting, harvesting, etc.)
- Equipment and machinery
- Cultural factors and influences
- Inputs (e.g., chemicals, fertilizers, seed, irrigation, etc.)
- Labor and labor issues
- Cost considerations (e.g., inputs, leases, loans, equipment, contractors, etc.)
- Customer markets and price trends
- Risks (e.g., weather, financial, etc.)
- Environmental policies and regulations
- Stakeholders (e.g., NRCS, FSA, districts, insurance companies, landlords, etc.)

Local resource concerns

- On-land soil, water, air, plant, animal, human and energy problems (declining ground water, salinity, etc.)
- Causes of on-land problems/resource concerns
- Emerging trends and resource issues

How NRCS and producers address local resource concerns

- Appropriate practices for the local area and why those practices are used
- Basic costs and benefits of conservation practices
- See existing conservation practices on the land and understand the "story" of the practices
- Ways NRCS employees can help producers overcome barriers to participating in NRCS conservation programs

Suggested List of Activities

We suggest a list of activities you can do with your mentee to get you started with CAMP. While these activities are basic, we hope they are helpful.

Please note, this program is designed for participating employees to safely and actively learn from producers, like you, through conversation and observation. To help ensure safety, mentees should not actively operate or physically get on equipment or other heavy machinery in the course of their participation in the program. In addition, mentees should not perform physical labor or provide conservation planning services.

Ask your mentee about...

- Where they're from
- How long they've been working with NRCS
- Where else they have worked
- What their goals are for the program
- Specific things they'd like to learn about
- What questions they have for you

Tell your mentee about...

- What you produce on your operation and why
- How long you've been operating your business
- Your current and future goals for your operation
- How your work changes from season to season
- Production practices you use and why you use some practices instead of others
- Equipment you use, why you use it and when you use it
- How you've adapted to changing technologies and tools
- Conservation practices you use and have used in the past
- Conservation practices you have planned
- Some challenges you're currently facing
- Some challenges you anticipate facing in the future
- Some challenges you've overcome in the past and how you overcame them
- Conservation programs you've participated in

Show your mentee...

- The layout of your operation
- Agricultural practices you use
- Equipment you use
- Conservation practices you've implemented
- Places you plan to implement conservation practices

Consider reviewing the program learning goals on the previous page for additional ideas for what you could talk about and do with your mentee.

You might also consider connecting with the local District Conservationist or state point of contact to identify particular things they may want your mentee to learn or do.

CAMP Mentor Personal Conduct Agreement

Volunteer mentors agree to do the following for the duration of their program participation:

- Adhere to the program purpose and guidelines.
- Seek advance District Conservationist or state point of contact advice or approval related to any activities about which they are unsure fall within the scope of the program. Mentee learning activities should focus on conversation and observation. Activities that are specifically out of scope for the program include any activities in which the mentee would be operating heavy machinery, performing physical labor, or providing technical assistance.
- Ensure the safety of their NRCS mentees while they are on their operation or property.
- Not discriminate against any mentee because of race, color, national origin, sex, gender, age, religion, marital status, handicap or sexual preference.
- Not engage in any form of sexual harassment, including making deliberate or repeated unsolicited comments, gestures or physical contact of a sexual nature.
- Not make statements that inherently promote any political party or any candidate for federal, state or local office.
- Conduct themselves professionally and in such a manner as not to discredit themselves or NRCS.
- Communicate to the local District Conservationist any concerns related to NRCS mentee conduct observed while participating in the program.
- Inform the local District Conservationist when no longer willing or able to participate in the program.

Conservation Agricultural Mentoring Program (CAMP) Lifecycle for Producer Volunteer Mentors



Manager's Report – August 10, 2020

- Our NRD office remains closed to the public without an appointment. As of 6-8-20 our entire staff has returned to a regular work schedule with the exception of scheduling two employees out of the office each day. I believe this will be beneficial in the event our office has an outbreak or an individual testing positive for COVID-19.
- Tonight, is marking our second, in-person, board meeting since March. We have offered a Zoom meeting link to all directors and guests interested in attending electronically. Please keep in mind, directors attending via Zoom are allowed to participate in discussions but will not be able to vote on any items. We are attempting to keep directors as separated as possible tonight and I believe this venue provides our best option to do so. Please, if you have any suggestions or concerns regarding our current process, let me know.
- I have been busy these past weeks developing and updating our fiscal year 2021 budget. Department managers and I continue review to insure all fiscal year '21 needs are being addressed. While there have been a few new budget hearing requirements this year, our system of conducting our budget hearing prior to our regular meeting meets these new requirements.
- This year's audit date has been set for August 17. The auditors will coordinate in person or online meetings with HBE and will contact our office with any needed information. We have also informed HBE and our auditors it appears we will be exceeding our maximum threshold for federal revenue during this current fiscal year and will most likely be required to conduct a single audit next August.
- The Clear Creek Levee repairs are nearly complete. Bob, Tom and I participated in a pre-final walk-through which allowed us to raise any questions and/or concerns we have with the repairs. The final walk-through will be scheduled soon.
- I have been in communications with USACE regarding upgraded repairs the National Guard Camp would like to construct on our portion of the levee, just north of their breach repairs. The issue I raised was how military funding to enhance a civil portion of the levee may affect our 84-99 repair funding after future levee damages. While not settled yet, it appears a modification to the final O&M document will need to be created which will place responsibility for future O&M and repairs on the U.S. Army National Guard.
- On the morning of August 5th we were happy to welcome NRCS Chief Matthew Lohr to Nebraska and Lower Platte North NRD. While here our staff presented to the Chief on Nebraska's NRD system history and how we all conduct business. Local NRCS also presented on how cutting-edge technology is being used in the field to further conservation while becoming more and more productive. Tom and I both had an opportunity to discuss our Wahoo Creek Watershed Plan and the issues we are having with NRCS – Little Rock. While not making any promises, Chief Lohr said he will look into and do what he can to assist.
- This past month has been very busy for rentals of the Wanahoo Education Building. We continue to have renters clean prior to leaving and staff makes a point of cleaning again prior to new rentals arriving.

Have a great month and STAY SAFE!

-Eric Gottschalk – General Manager, Lower Platte North NRD

**LOWER PLATTE NORTH NRD MINUTES
BOARD MEETING
July 13, 2020**

The regular monthly meeting of the Lower Platte North NRD Board of Directors was called to order at 6:00 p.m. at the Lake Wanahoo Education Building, Wahoo, NE on Monday, July 8, 2020.

1. NOTICE OF MEETING

The advanced notice of our July 13, 2020 board meeting was posted on the Lower Platte North NRD website.

Chair Ruzicka informed those present that a copy of the "Open Meetings Act" is posted for public viewing.

Pledge of Allegiance

2. ROLL CALL - INTRODUCTIONS

DIRECTORS PRESENT AND CONSTITUTING A QUORUM:

Bailey	Birkel	Feala
Hilger	Johnson	Meduna (arrived 6:06)
Meyer	Olson	Pollard
Saalfeld	Saeger	Seier
Thompson	Veskerna	Yosten
Ruzicka		

DIRECTORS ABSENT

Hannah	Kavan
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STAFF AND GUESTS:

Gottschalk	Breunig	Mountford
Andersen	Sabatka	Heimann

3. APPROVAL OF AGENDA

4. COMMENTS - ADVISORS/GUESTS/DIRECTORS

a. Guest Comments

b. NRCS Report – Attached

c. NARD Report

Bob Hilger gave the NARD Report.

d. NRC Report - None

e. Manager Report

Gottschalk reviewed is written report.

f. Education Program – None

5. APPROVAL OF MINUTES

Johnson made the motion, seconded by Olson, to approve the minutes from the June 8, 2020 Board Meeting. Motion carried on consent agenda.

6. REPORT OF STANDING COMMITTEES

A. EXECUTIVE COMMITTEE REPORT

1. UNFINISHED BUSINESS

a. Off Site Water Table Concerns Near Sand Creek – Update Given

2. Meetings

a. Pending - None

b. Reports – None

3. Management Items

a. Director Absences – None

b. Monthly Education Program – None

4. Equipment - None

5. Personnel

a. Personnel Sub-Committee Meeting - Update Give

b. Staff Evaluations and Reviews –Update Given

6. Finance

a. Approval of Financial Reports

Johnson made the motion, seconded by Olson, to approve the May Financial Reports as presented. Motion carried on consent agenda.

b. Approval of Managers Expenses

Johnson made the motion, seconded by Olson, to approve Manager Gottschalk’s time and expense sheets as attached to the Executive Committee Minutes. Motion carried on consent agenda.

c. Accounts Over 90 Days - Update Given

d. Budget Workshop

Johnson made the motion, seconded by Olson, to hold the Budget Workshop on Wednesday, August 5th at 5:00 p.m. Motion carried on consent agenda.

e. Budget Hearing and Levy Hearing

Johnson made the motion, seconded by Olson, to hold our FY21 Budget Hearing on August 10th at 5:00 p.m. and our Levy Hearing on September 14th at 5:00 p.m. Motion carried on consent agenda.

f. Preliminary '21 LPNRRD Draft Budget – Update Given

Johnson made the motion, seconded by Olson, that the July LPNRRD Executive Committee Minutes be received and placed on file. Motion carried on consent agenda.

B. OPERATIONS COMMITTEE REPORT

1. UNFINISHED BUSINESS - None

2. WILD NE AND OTHER PROGRAMS - None

3. OPERATION AND MAINTENANCE & OTHER ITEMS

- a. Clear Creek Levee Repairs by Corps of Engineers – Update Given**
- b. Rawhide Ditch 8 Repair – Update Given**
- c. Wanahoo Dam Stilling Basin (FEMA) – Update Given**
- d. Wanahoo Auxiliary Spillway RCC Repair Quotes – Update Given**
- e. Cottonwood 21-A – Emergency Spillway – Update Given**
- f. Czechland Lake Camping Revenue – Update Given**
- g. Operations Budget – Update Given**

4. ROCK AND JETTY – None

5. LAKE WANAHOO

- a. Lake Wanahoo Permit Sales - Update Given**
- b. Lake Wanahoo Primitive Cabins – Update Given**

6. INFORMATION & EDUCATION

- a. Information**
 - 1. Radio and eAds – Update Given**
 - 2. Analytics – Update Given**
 - 3. Lake Wanahoo Advertisement with News Channel Nebraska – Update Given**
- b. Education – Update Given**

7. RURAL WATER SYSTEMS

- a. Colon – Update Given**
- b. Bruno – Update Given**
- c. Other – None**

Johnson made the motion, seconded by Olson, that the July LPNRRD Operations Committee Minutes be received and placed on file. Motion carried on consent agenda.

C. WATER COMMITTEE REPORT

1. UNFINISHED BUSINESS - NONE

2. REGULATORY

a. GROUNDWATER MANGEMENT AREA

1. Variance Expanded Water Use with Allocation

Pollard made the motion, seconded by Meduna, to approve the changes to the Variance Expanded Water Use with Allocation by making the variance a 3-year commitment and no approval after March 15th. Motion carried all members present voting aye.

2. Well Permit Program

Birkel made the motion, seconded by Pollard, to approve the well permit for Larry Kaspar (Kaspar Tree Farms) on Section 34-T16N-R8E, Yutan Subarea. Motion carried all members present voting aye.

a. Well Permits Approved – Update Given

3. Nitrogen Management Areas

Johnson made the motion, seconded by Olson, to authorize Chairman Ruzicka to sign the contract from EA Engineering for \$4,300 to conduct soil coring within the nitrogen test strips. Motion carried on consent agenda.

4. Nitrogen Management Grant – Update Given

5. NRD Framework Project – Update Given

6. Cost-Share Programs

1. Irrigation Well Sample Kits – Update Given

2. Flow Meter Maintenance Program – Update Given

b. Chemigation – Update Given

3. GROUND WATER BUDGET – Update Given

4. SURFACE WATER PROGRAMS

a. State Lakes – Update Given

5. GROUND WATER PROGRAMS

a. Decommissioned Well Program

1. Well Estimates – Update Given

2. Plugged Wells

Johnson made the motion, seconded by Olson, to approve payments for well decommissioning to Marvin Kasik for \$647.94; David Grotelueschen for \$1,000; Reznicek Farms GP – 2 Wells for \$1,204.06 and Tommy E. King for \$343.35. Motion carried on consent agenda.

6. LOWER PLATTE NORTH NRD GROUND WATER STUDIES

a. Lower Platte River Basin Water Management Plan Coalition (LPRBC) – Update Given

b. Lower Platte River Consortium

Johnson made the motion, seconded by Olson, to approve LPNNRD's Share of \$2,849 for desktop exercise to evaluation the projects identified in the Lower Platte River Drought Contingency Plan. Motion carried on consent agenda.

c. Tile Drains – Update Given

d. Voluntary Integrated Water Management Plan – Update Given

7. OTHER

a. Comments from the Public – None

Johnson made the motion, seconded by Olson, that the July LPNNRD Water Committee Minutes be received and placed on file. Motion carried on consent agenda.

D. PROJECTS COMMITTEE REPORT

1. UNFINISHED BUSINESS – NONE

2. SWCP

a. SWCP Application Approvals

Johnson made the motion, seconded by Olson, to approve Diers Family Farm SWCP application for livestock well, pumping plant and stock tank for up to 75% state reimbursement and balance covered by NRD funds. Motion carried on consent agenda. Motion carried on consent agenda.

b. SWCP Payments

Johnson made the motion, seconded by Olson, to approve SWCP Payment to Terry and Spring Wendt - \$7,464.60 for the completed Planned Grazing System Project. Motion carried on consent agenda. Motion carried all members present voting aye.

c. SWCP Cancellations – None

d. Wahoo Creek Cost-Share Payment Approvals – None

3. WATERSHEDS

a. Shell Creek Watershed

1. Shell Creek Environmental Enhancement Plan Implementation

a. Shell Creek Channel Improvement/Benching Project – Update Given

b. Tom Sprunk Bank Stabilization/Wetlands Project – Update Given

c. Shell Creek Grant Funding Update

Johnson made the motion, seconded by Olson, to ratify General Manager, Eric Gottschalk's signing of the NDEE Interlocal Governmental Grant Agreement for the Shell Creek Corridor Enhancement and Conservation Implementation Project as attached to the Projects Committee Minutes. Motion carried on consent agenda

b. Wahoo Creek Watershed

1. Wahoo Creek Dam Site Planning Update FYRA Invoices – Update Given

2. Wahoo Creek Watershed Water Quality Plan Phase II – Update Given

3. Olsson Design Update and Invoice – Update Given

4. JOINT WATER MANAGEMENT ADVISORY BOARD

a. Platte River Camera/Sensor Project

Saalfeld made the motion, seconded by Saeger, to approve and authorize the Board Chair to sign the Interlocal cooperation Act Agreement for Platte River Cameras and Sensors as attached to the Projects Committee Minutes. Motion carried all members present voting aye.

Johnson made the motion, seconded by Olson, to approve the partnership letter of support, as attached, for the Platte River Cameras/Sensors Project. Motion carried on consent agenda.

b. North Bend Drainage District Project – FEMA/NEMA Grant Fiscal Agent – Update Given

c. Dodge County Platte River Breach Repair – Fremont Rod and Gun Club

Birkel made the motion, seconded by Saalfeld, to approve and authorize the Board Chairman to sign the Dodge County Platte River Breach Repair (Fremont Rod & Gun Club) Project Interlocal Agreement as attached to the Projects Committee Minutes. Motion carried.

AYE: Bailey, Birkel, Feala, Hilger, Johnson, Meduna, Olson, Pollard, Saalfeld, Sabatka, Saeger, Seier, Thompson, Veskerna, Yosten, Ruzicka

ABSTAIN: Meyer

d. Fremont East Drainage Ditch Improvement Project Grant Application – Update Given

5. HAZARD MITIGATION PLAN UPDATE

Johnson made the motion, seconded by Olson, to have JEO present a scope of work for expanding our Dam Breach Overlay District in Saunders County for 15 existing dams and for conducting a future Levee Failure Tabletop Exercise. Motion carried on consent agenda.

Birkel made the motion, seconded by Thompson, to approve and authorize Board Chairman to sign Hazard Mitigation Plan Agreement/Dam Breach Amendment #3 with JEO total cost of \$8,100 for expanding our Dam Breach Overlay District in Saunders County. Motion carried all members present voting aye.

6. MIKE CHVATAL DAM

Meduna made the motion, seconded by Sabatka, to increase the maximum 75% cost-share on the Mike Chvatal Dam from \$32,297 to \$46,356. Motion carried on consent agenda.

7. NEBRASKA BUFFER STRIP PROGRAM

Johnson made the motion, seconded by Olson, to approve the four Nebraska Buffer Strip applications submitted by Mary Theresa Norton and Sheryl Hansen totaling \$9,330.08. Motion carried on consent agenda.

8. EROSION AND SEDIMENT RULES AND REGULATIONS - None

9. OTHER

a. Fremont/Johnson Lake Aeration Project

Johnson made the motion, seconded by Olson, to approve 50% up to \$5,000 maximum assistance,

toward the City of Fremont's aeration system for Johnson Lake. Motion carried on consent agenda.

Johnson made the motion, seconded by Olson, that the July LPNNRD Projects Committee Minutes be received and placed on file. Motion carried on consent agenda.

7. ADDITIONAL ACTION ITEMS

a. Data Loggers on Monitoring Wells

Meduna made the motion, seconded by Johnson, to authorize staff to order the data loggers from in-Situ as outlined in the quote at an estimated cost of \$18,565.27. Motion carried all members present voting aye.

8. BILLS TO BE APPROVED

Pollard made the motion, seconded by Thompson, that all bills be approved, and warrants be drawn in payment of the same. Motion carried all members present voting aye.

9. CONSENT AGENDA ADOPTION

Johnson made the motion, seconded by Olson, to approve the July Consent Agenda. Motion carried all members present voting aye.

10. COMMENTS FROM DIRECTORS/GUESTS

11. MEETING ESTABLISHMENT AND ADJOURNMENT

The August Board of Directors Meeting will be held on Monday, August 10, 2020, 6:00 p.m. Meeting adjourned at 7:58 p.m.

Discussion on all agenda items that have "Update Given" can be found in corresponding Committee Minutes.

The undersigned, the duly elected and acting Secretary of the Lower Platte North Natural Resources District (the "District"), hereby certifies that the foregoing is a true and correct copy of the minutes of the Meeting of the Board of Directors of the District held on July 13, 2020, that all of the matters and subjects discussed at the meeting were contained in the agenda for the meeting, kept continually current and readily available for public inspection at the principal office of the District during normal business hours, and except for items of emergency nature, the agenda was not altered later than twenty-four (24) hours before the scheduled commencement of the meeting; that at least one copy of all reproducible material discussed at the meeting was available at the meeting for examination and copying by members of the public; that the above minutes were in written form and available for public inspection within ten working days or prior to the next convened meeting, whichever occurred earlier; and, that reasonable efforts were made to provide all news media requesting notification of the meeting and of the time and place of said meeting and the subjects to be discussed at said meeting.

Larry Feala, Secretary

Itinerary of Chief Lohr's Visit to Nebraska

Tuesday, August 4

- **9:30 p.m.** Craig will pick up Chief Lohr at the Lincoln airport from United flight #5535 and take him to his hotel.

Wednesday, August 5

- **7:30 a.m.** Craig will pick up Chief Lohr at the hotel. They will ride together to [Lake Wanahoo Education Building](#).
- **8:30 a.m.** Arrive Lake Wanahoo

Meet with Lower Platte North Natural Resources District staff/board members, Wahoo NRCS field office staff and other staff/partners including: Brad Soncksen, NRCS Assistant State Conservationist for Programs; Joanna Pope, NRCS State Public Affairs Officer; Steve Nelson, President of the Nebraska Farm Bureau; Ralph Pieke, former NRD board member; Dean Edson, Executive Director of the Nebraska Association of Resources Districts; and Kent Zimmerman, president of the National Association of State Conservation Agencies (others?)

* Brad and Joanna can travel to Wahoo together in a vehicle. Brad can ride back to Lincoln with Jim Reedy and Brian Baskerville (check out van or larger GOV to spread out) to keep numbers low for Rogers Memorial Farm visit since they are asking for small number of visitors.

- **8:30 – 8:45 a.m.** Welcome Chief Lohr to Nebraska and provide introductions – Craig Derickson, Nebraska NRCS State Conservationist
- **8:45 – 9:00 a.m.** NRCS employees introduce themselves and briefly share about the work they're doing
- **9:00 – 9:45 a.m.** NRD Discussion – Eric Gottschalk, Lower Platte North NRD General Manager and Tom Mountford, Lower Platte North NRD Assistant Manager
 - Overview/history of the NRD system and its roles and responsibilities
 - Lake Wanahoo
 - Important conservation field work in the Lower Platte North NRD
 - Shell Creek (Ralph Pieke)
 - History of PL-566 dams in the Lower Platte North NRD
 - Wahoo Creek Watershed
- **9:45 – 10:00 a.m.** Overview of the Nebraska Association of Resources Districts roll – Dean Edson, Executive Director of NACD
- **10:00 – 10:15 a.m.** Nebraska Department of Natural Resources/National Association of State Conservation Agencies update - Kent Zimmerman, NASCA President
- **10:15 – 10:30 a.m.** Break

- **10:30 – 11:15 a.m.** Demo of LIDAR and survey equipment – Jim Reedy, NRCS State Technology Engineer & Josh Charles, Soil Conservation Technician
- **11:15 – 11:45 a.m.** Demo of GIS tools used for wetland determinations – Brian Baskerville, NRCS Area Technology Specialist
- **11:45 – 12:30 p.m.** Lunch (Eric offered to purchase lunches from Subway. We can eat at the Wahoo Environmental Education Center or if we're running behind, we can eat on the road)
- **12:30 – 12:45 p.m.** Travel to Beginning Farmer site
- **12:45 – 1:30 p.m.** Tour/visit with beginning farmer Joe Petersen about how he's worked with NRCS to make conservation improvements on his farm – Jami Thoene, NRCS Resource Conservationist and State Beginning Farmer/Rancher Coordinator will facilitate
- **1:30 – 2:00 p.m.** Travel to [Rogers Memorial Farm](#) – 18630 Adams Street, Lincoln NE (Invited in addition to those presenting on site: Corey Schmidt, NRCS District Conservationist; Mike Bergert, NRCS Resource Conservationist, Steve Wellman, Nebraska Department of Agriculture Director, Orval Gigstadt. We have been requested by the Rogers Farm staff to keep attendee size small due to COVID. All attendees will need to mask up. If raining, will only have access to bldg. the size of a 2-stall garage. No rest rooms available. Will make pit stop in Waverly).
- **2:00 – 3:00 p.m.** Tour farm and cover crop plots, followed by a presentation about the tillage study - Paul Jasa, Extension Engineer
- **3:00 – 3:30 p.m.** Soil Health Demonstration – Aaron Hird, NRCS State Soil Health Specialist
- **3:30 – 4:00 p.m.** Travel to Mike McDonald's field near Douglas, NE (Invite: Britt Weiser, NRCS State Resource Conservationist; Neil Dominy, NRCS Assistant State Conservationist for Partnerships and Initiatives, Doug Wagner, NRCS Area Conservationist)
- **4:00 – 4:30 p.m.** View Mike's cover crop field and learn about his role in the Soil Health Taskforce
- **4:30 – 5:15 p.m.** Travel back to the hotel
- **6:30 – 8:30 p.m.** Dinner with Chief (10-12 maximum, outdoors if possible)

Thursday August 6

- **7:00 a.m.** - Craig and Allen Gehring will pick up Chief Lohr at his hotel. (Chief will need to check out of hotel.) During the drive Allen Gehring, NRCS State Engineer will provide an overview of EWP and watershed projects in Nebraska.
- **7:00 - 8:00 a.m.** Travel to Kirkpatrick Wildlife Management Area just west York (*NRD could be rain alternative site*) Invite: Andy Bishop, Rainwater Basin Joint Venture Coordinator; Kim Siebert, area landowner; Dave Eigenberg, Upper Big Blue Natural Resources District General Manager; Roric Pallman, Rainwater Basin Joint Venture board member; Brad Dunbar, Lindsay Cooperation; Gayle Marsh, landowner; James Huntwork, NRCS Area Conservationist; Josh Bowers and the York NRCS field office staff. (**Should make a rest room stop at rest area along I-80 just before York.*)
- **8:00 - 8:15 a.m.** Introductions and History of RWBs the JV and partnership – Andy Bishop, RWBJV Coordinator

- **8:15 – 8:35 a.m.** Kim Siebert will talk about how he's using his cattle to graze Kirkpatrick WMA through public/private partnership between NRDs/RWBJV/NRCS to help manage wetland and provide forage for his cattle. [See story here](#)
- **8:35 – 9:15 a.m.** Irrigation Innovation
 - "Divots in the Pivots" RCPP - Gayle Marsh and Brad Dunbar
 - NRD Irrigation projects - Dave Eigenberg
 - NRD water programs in the Platte Valley for the past 30 years - James Huntwork
- **9:15 – 10:30 a.m.** Travel back to the Federal Building
- **10:30 a.m. – 10:45 a.m.** Break
- **10:45 – 11:15 a.m.** Meet with NRCS employees in Room 397 A&B include field staff via Teams
- **11:15 a.m.** Lunch brought into 397 A&B for Chief and combined Nebraska state office and National Soil Survey Center (NSSC) leadership staffs
- **11:30 a.m.** Begin discussion on NSSC operations via Teams for offsite National Leaders – Nebraska state office leadership staff invited to stay. Each National Leader will have 10 minutes to highlight what their branch is doing for NRCS and the conservation partnership
- **12:50 p.m.** Kellogg Soil Survey Lab tour including processing, archive, and lab
- **1:30 p.m.** Return to 372 or Nebraska NRCS state office for wrap up.
- **1:45 p.m.** Head to Lincoln airport
- **3:16 p.m.** Chief Lohr's flight leaves Lincoln

NRCS Staff should make every attempt to carpool to keep number of GOVs low at each site. Should also try to reserve larger GOVs and spread out within the vehicle, masks on, windows cracked. Masks will be required at indoor locations and at Rogers Memorial Farm – even while outside. Remember to social distance at all tour sites, including for photos. Other partner agencies may have different COVID-19 safety protocol, but we need to follow NRCS policy and do everything we can to keep the Chief safe and comfortable while traveling.



WATER STRATEGIES LLC

4 E Street SE, Washington, DC 20003 ▪ (202) 698-0690 phone ▪ (202) 698-0694 fax

MEMORANDUM

TO: Lower Platte North NRD
FROM: Water Strategies, LLC
SUBJECT: Monthly Federal Update
DATE: August 10, 2020

WRDA

On July 13th Representative Defazio (D-OR) introduced HR. 7575 the Water Resources Development Act. Subsequently, the legislation was voted on favorably by the House of Representatives on July 29th. The bill focuses most of the resources on Army Corps projects and does not include a Reclamation Title.

As previously noted, the Senate Environment and Public Works Committee (EPW) passed its version of WRDA (S. 3591 the America's Water Infrastructure Act of 2020) out of Committee on May 6, 2020. It is anticipated that if a Reclamation Title were to be included in WRDA 2020, it will have to be attached to the Senate version.

The Senate is expected to take up S.3591, the EPW passed version of the bill, and work to reconcile it with the H.R.7575 in an eventual conference.

Water-Energy Technology Demonstration and Deployment Act

On July 20, Senator McSally introduced S. 4228, the Water-Energy Technology Demonstration and Deployment Act. The legislation would leverage water-energy advancements made at the Department of Energy (DOE) by putting the latest technology in the hands of local water managers working with the Bureau of Reclamation. This bill would also establish a "Western Water Resiliency Center" designed to partner with DOE and Department of the Interior researchers and one or more innovative research universities in the West.

S. 4228 was referred to the Senate Energy and Natural Resources Committee where it was included in a Subcommittee on Water and Power hearing. The bill awaits further consideration before the full Committee and Senate.

Stimulus Legislation

On July 27, 2020, Senator Richard Shelby (R-Ala) introduced the Coronavirus Response Additional Supplemental Appropriations Act, 2020. The legislation provides \$306.066 billion in additional spending to address the economic impact the coronavirus has had on American families and businesses, invest in testing and vaccine development, and help schools re-open safely.

The legislation provides:

- \$20.457 billion to Agriculture, Rural Development, Food and Drug Administration, and Related Agencies. Specifically, it provides \$20 billion in additional funding to support agricultural producers, growers, and processors impacted by coronavirus.
- \$226.202 billion to Labor, Health and Human Services, Education, and Related Agencies. Specifically, \$2.5 billion to the Department of Labor to address the nation's rising unemployment rates.
- \$1.605 billion to Indian Health Services.
- \$105.1 billion to the Department of Education to help get students in elementary, secondary, and higher education back to school.

Regarding infrastructure, sec. 1201 of the measure would allow for any amount of the \$1,500,000,000 in the Consolidated Appropriations Act of 2018 that has been unobligated to be used for completing the funding of awards made pursuant to the 2018 National Infrastructure Investment grants better known as Better Utilizing Investments to Leverage Development, or BUILD grants through September 30, 2021. This money was set to become unavailable on September 30, 2020. The projects that are eligible for funding under this program include highway or bridge projects, public transportation projects, passenger and freight rail transportation projects, and port infrastructure investments (including inland port infrastructure and land ports of entry).

The stimulus proposal does not include specific funding for the Bureau of Reclamation or the Army Corps of Engineers.

The legislation awaits further consideration before the Senate. It is unclear when or if the package will be enacted as Democrats in both chambers oppose it.

Should you have any questions or want additional information, please feel free to contact our office by phoning (202) 698-0690 or Kris Polly directly at (703) 517-3962.

Thompson

REQUEST FOR EXCUSE OF
ABSENCE FROM MEETING
(LB 569, 1985 LEGISLATURE)

Chairman, Board of Directors
Lower Platte North NRD
PO Box 126
Wahoo, NE 68066

I hereby request that the Board of Directors excuse my
absence at the Regular Meeting of the Board scheduled on
10 day of February, 2020, for
the following reason:

Work trip with Omaha Bobcat
TO TUCSON.

Dated this 5TH day of March, 2020.

Board Member
Lower Platte North NRD

Vosten

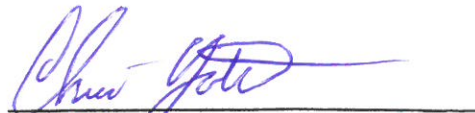
REQUEST FOR EXCUSE OF
ABSENCE FROM MEETING
(LB 569, 1985 LEGISLATURE)

Chairman, Board of Directors
Lower Platte North NRD
PO Box 126
Wahoo, NE 68066

I hereby request that the Board of Directors excuse my
absence at the Regular Meeting of the Board scheduled on
10 day of February, 2020, for
the following reason:

Moving irrigation pipe off of a piece of
ground the we farm because the ~~landlord~~
landlord sold it and wanted it moved the next
day which was Febr. 10

Dated this 9 day of March, 2020.



Board Member
Lower Platte North NRD

Sabatka

REQUEST FOR EXCUSE OF
ABSENCE FROM MEETING
(LB 569, 1985 LEGISLATURE)

Chairman, Board of Directors
Lower Platte North NRD
PO Box 126
Wahoo, NE 68066

I hereby request that the Board of Directors excuse my
absence at the Regular Meeting of the Board scheduled on
13 day of April, 2020, for
the following reason:

Dated this 2 day of July, 2020.

Ryan Sabatka
Board Member
Lower Platte North NRD

Gosten

REQUEST FOR EXCUSE OF
ABSENCE FROM MEETING
(LB 569, 1985 LEGISLATURE)

Chairman, Board of Directors
Lower Platte North NRD
PO Box 126
Wahoo, NE 68066

I hereby request that the Board of Directors excuse my
absence at the Regular Meeting of the Board scheduled on
11th day of May, 2020, for
the following reason:

Planting spraying

Dated this 13 day of July, 2020.

Chris Gosten
Board Member
Lower Platte North NRD

Birkel

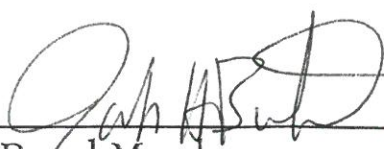
REQUEST FOR EXCUSE OF
ABSENCE FROM MEETING
(LB 569, 1985 LEGISLATURE)

Chairman, Board of Directors
Lower Platte North NRD
PO Box 126
Wahoo, NE 68066

I hereby request that the Board of Directors excuse my
absence at the Regular Meeting of the Board scheduled on
20th day of June, 2020, for
the following reason:

Working

Dated this 2 day of July, 2020.



Board Member
Lower Platte North NRD

Meduna

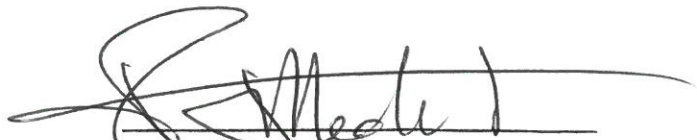
REQUEST FOR EXCUSE OF
ABSENCE FROM MEETING
(LB 569, 1985 LEGISLATURE)

Chairman, Board of Directors
Lower Platte North NRD
PO Box 126
Wahoo, NE 68066

I hereby request that the Board of Directors excuse my
absence at the Regular Meeting of the Board scheduled on
8th day of June, 2020, for
the following reason:

Helping neighbor with
Planting

Dated this 13 day of July, 2020.


Board Member
Lower Platte North NRD

Financial Statements and Accountant's Compilation Report

Lower Platte North Natural Resources District

June 30, 2020

ACCOUNTANT'S COMPILATION REPORT

The Board of Directors
Lower Platte North Natural Resources District
Wahoo, Nebraska

Management is responsible for the accompanying financial statements of the Lower Platte North Natural Resources District, which comprise the Statements of Net Position as of June 30, 2020, and the related Statements of Activities for the month and year then ended in accordance with accounting principles generally accepted in the United States of America. We have performed a compilation engagement in accordance with Statements on Standards for Accounting and Review Services promulgated by the Accounting and Review Services Committee of the AICPA. We did not audit or review the financial statements, nor were we required to perform any procedures to verify the accuracy or the completeness of the information provided by management. We do not express an opinion, a conclusion, nor provide any form of assurance on these financial statements.

Management has elected to omit substantially all of the disclosures and statements of cash flows required by accounting principles generally accepted in the United States of America. If the omitted disclosures were included in the financial statements, they might influence the user's conclusions about the Organization's financial position, results of operations, and cash flows. Accordingly, the financial statements are not designed for those who are not informed about such matters.

The accompanying Statements of Activities – Actual vs. Budget are presented for purposes of additional analysis and is not a required part of the basic financial statements. Such information is the responsibility of management. The supplemental information, except the budget information, was subject to our compilation engagement. We have not audited or reviewed the supplementary information and do not express an opinion, a conclusion, nor provide any assurance on such information. The budget information presented in the Actual vs. Budget is of a nonaccounting nature and has not been subjected to our compilation engagement.

We are not independent with respect to the Lower Platte North Natural Resources District.

Lincoln, Nebraska

July 28, 2020

Lower Platte North NRD Statements of Net Position

	Natural Resources District As of 06/30/2020	Rural Water-Bruno As of 06/30/2020	Rural Water-Colon As of 06/30/2020	All Districts As of 06/30/2020
Assets				
Current Assets				
Cash and Cash Equivalents				
101000 - Change Box	0.00	60.00	90.00	150.00
101200 - Change Box - Game & Parks	150.00	0.00	0.00	150.00
101300 - Change Box - Lake Wanahoo	400.00	0.00	0.00	400.00
102001 - Cash - Union Bank	139,143.53	0.00	0.00	139,143.53
103000 - Cash - County Treasurer	51,126.19	0.00	0.00	51,126.19
104000 - Cash - Education Building Res.	6,470.00	0.00	0.00	6,470.00
111100 - Investments - NRD - NPAIT	2,322.83	0.00	0.00	2,322.83
111105 - Union Bank STFIT	2,668,771.84	0.00	0.00	2,668,771.84
Total Cash and Cash Equivalents	2,868,384.39	60.00	90.00	2,868,534.39
Accounts Receivable, Net				
Accounts Receivable				
105000 - Accounts Receivable	844,170.82	732.71	8,909.39	853,812.92
105060 - Due from Bruno Water Fund	209,757.37	0.00	0.00	209,757.37
105070 - Due from Colon Water Fund	58,820.48	0.00	0.00	58,820.48
109000 - Taxes Receivable	1,189,795.33	0.00	0.00	1,189,795.33
Total Accounts Receivable	2,302,544.00	732.71	8,909.39	2,312,186.10
Total Accounts Receivable, Net	2,302,544.00	732.71	8,909.39	2,312,186.10
Inventory				
165503 - Rural Water Inventory	0.00	6,512.37	9,768.56	16,280.93
Total Inventory	0.00	6,512.37	9,768.56	16,280.93
Prepaid Expenses				
116000 - Prepaid Expenses	39,812.59	0.00	0.00	39,812.59
Total Prepaid Expenses	39,812.59	0.00	0.00	39,812.59
Other Current Assets				
111225 - Investments - Borrow Fund - NPAIT	85,717.39	0.00	0.00	85,717.39
111250 - Investments - Alliance GIS Project	7,553.68	0.00	0.00	7,553.68
111450 - Investments - Elkhorn River Breakout	135,505.87	0.00	0.00	135,505.87
111550 - Investments - Elkhorn Breakout	2,690.50	0.00	0.00	2,690.50
111600 - Investments - Wanahoo SRA	150,217.88	0.00	0.00	150,217.88
111650 - Investments - Colon Reserve NPAIT	0.00	0.00	8,138.72	8,138.72
Total Other Current Assets	381,685.32	0.00	8,138.72	389,824.04
Total Current Assets	5,592,426.30	7,305.08	26,906.67	5,626,638.05
NRD Fixed Assets, Net of Depreciation				
Fixed Assets				
140210 - Water Line Capital Improvement	0.00	726,156.51	1,180,075.05	1,906,231.56
140226 - Colon Water Loan Fees	0.00	0.00	2,000.00	2,000.00
160000 - Conservation Property	123,971.00	0.00	0.00	123,971.00
161000 - Land	9,642,191.58	0.00	0.00	9,642,191.58
162000 - Infrastructure	24,822,040.80	0.00	0.00	24,822,040.80
162500 - Land Improvements	623,922.90	0.00	0.00	623,922.90
163000 - Buildings	1,051,049.14	0.00	0.00	1,051,049.14
165000 - Machinery & Equipment	115,869.51	0.00	0.00	115,869.51
165100 - Machinery & Equipment - O & M	190,238.38	0.00	0.00	190,238.38
165200 - Machinery & Equipment - Water	263,013.18	0.00	0.00	263,013.18
165300 - Machinery & Equipment - Projects	87,917.52	0.00	0.00	87,917.52
165400 - Machinery & Equipment - I & E	2,628.66	0.00	0.00	2,628.66
165505 - Rural Water Equipment	0.00	17,997.98	26,996.98	44,994.96
165507 - Lake Wanahoo Equipment	13,711.14	0.00	0.00	13,711.14
167000 - Auto and Truck	259,441.15	0.00	0.00	259,441.15
169000 - Equipment	5,620.87	0.00	0.00	5,620.87
169100 - Office Equipment	27,895.22	0.00	0.00	27,895.22
169200 - Computer Equipment	56,451.15	0.00	0.00	56,451.15

See Accountant's Compilation Report

Lower Platte North NRD Statements of Net Position

	Natural Resources District As of 06/30/2020	Rural Water-Bruno As of 06/30/2020	Rural Water-Colon As of 06/30/2020	All Districts As of 06/30/2020
169300 - GIS Equipment	13,422.53	0.00	0.00	13,422.53
169400 - Director's Computers	2,903.67	0.00	0.00	2,903.67
169500 - Master Data Base Water	284,700.00	0.00	0.00	284,700.00
169700 - GW Monitoring Equipment	7,500.00	0.00	0.00	7,500.00
Total Fixed Assets	37,594,488.40	744,154.49	1,209,072.03	39,547,714.92
Accumulated Depreciation				
140228 - Accum Depr - Colon Loan Fees	0.00	0.00	604.17	604.17
162900 - Accum Depr - Infra. & Land Imp.	3,079,803.51	0.00	0.00	3,079,803.51
164000 - Accum Depr - Buildings	448,472.77	0.00	0.00	448,472.77
165700 - Accum Depr - Water Line	0.00	119,976.28	219,512.72	339,489.00
166000 - Accum Depr - Machinery & Equipment	470,786.03	12,150.17	18,225.23	501,161.43
168000 - Accum Depr - Auto & Truck	207,659.99	0.00	0.00	207,659.99
169550 - Accum Depr - Master DB Water	33,210.26	0.00	0.00	33,210.26
170000 - Accum Depr - Office Equipment	82,440.20	0.00	0.00	82,440.20
Total Accumulated Depreciation	4,322,372.76	132,126.45	238,342.12	4,692,841.33
Total Property and Equipment	33,272,115.64	612,028.04	970,729.91	34,854,873.59
Other Assets				
Other Assets				
105005 - Accounts Receivable-L/T	4,919,715.87	0.00	0.00	4,919,715.87
Total Other Assets	4,919,715.87	0.00	0.00	4,919,715.87
Total Other Assets	4,919,715.87	0.00	0.00	4,919,715.87
Total Assets	\$ 43,784,257.81	\$ 619,333.12	\$ 997,636.58	\$ 45,401,227.51
Liabilities and Fund Balance				
Liabilities				
Current Liabilities				
Accounts Payable				
201000 - Accounts Payable	88,183.66	3,243.03	3,790.70	95,217.39
201100 - Sewer Collections Payable	0.00	0.00	6,912.00	6,912.00
202060 - Due to General Fund	0.00	209,757.37	58,820.48	268,577.85
Total Accounts Payable	88,183.66	213,000.40	69,523.18	370,707.24
Accrued Liabilities				
200700 - Colon RW Accrued Interest	0.00	0.00	1,045.17	1,045.17
206000 - Accrued Salaries	40,778.39	368.99	549.89	41,697.27
206001 - Accrued Compensated Absences	201,315.07	1,431.10	2,132.80	204,878.97
206002 - Accrued Director Expenses	9,796.15	0.00	0.00	9,796.15
207305 - Lodging Tax Czechland	414.20	0.00	0.00	414.20
207306 - Sales Tax Payable Wanahoo	822.07	0.00	0.00	822.07
207307 - Lodging Tax Wanahoo	747.34	0.00	0.00	747.34
Total Accrued Liabilities	253,873.22	1,800.09	3,727.86	259,401.17
Other Current Liabilities				
204000 - Deposits	0.00	400.00	1,600.00	2,000.00
204500 - Deferred Income	43,487.66	0.00	0.00	43,487.66
204600 - Education Building Deposits	6,470.00	0.00	0.00	6,470.00
207300 - Sales Tax Payable	9.32	27.61	217.03	253.96
207304 - Sales Tax Payable Czechland	442.30	0.00	0.00	442.30
231000 - Permits Liability - DEQ	287.00	0.00	0.00	287.00
231100 - Permits Liability - G&P	700.00	0.00	0.00	700.00
Total Other Current Liabilities	51,396.28	427.61	1,817.03	53,640.92
Total Current Liabilities	393,453.16	215,228.10	75,068.07	683,749.33
Long Term Liabilities				

See Accountant's Compilation Report

Lower Platte North NRD Statements of Net Position

	Natural Resources District As of 06/30/2020	Rural Water-Bruno As of 06/30/2020	Rural Water-Colon As of 06/30/2020	All Districts As of 06/30/2020
Note Payable - Long Term				
200600 - Note Payable - Colon Rural Water	0.00	0.00	32,154.81	32,154.81
Total Long Term Note Payable	0.00	0.00	32,154.81	32,154.81
Other Long Term Liabilities				
201005 - Accounts Payable-Long Term	4,694,072.08	0.00	0.00	4,694,072.08
Total Other Long Term Liabilities	4,694,072.08	0.00	0.00	4,694,072.08
Total Long Term Liabilities	4,694,072.08	0.00	32,154.81	4,726,226.89
Total Liabilities	5,087,525.24	215,228.10	107,222.88	5,409,976.22
Fund Balances				
Net Assets	37,687,378.20	417,394.45	908,374.00	39,013,146.65
Change in Net Position	1,009,354.37	(13,289.43)	(17,960.30)	978,104.64
Total Fund Balances	38,696,732.57	404,105.02	890,413.70	39,991,251.29
Total Liabilities and Fund Balance	\$ 43,784,257.81	\$ 619,333.12	\$ 997,636.58	\$ 45,401,227.51

(Natural Resources District fund balance reduced by \$620,046.54 for correction of an error in prior year long term accounts receivable and grant income in the statement of changes in net position)

**Lower Platte North NRD
Statements of Activities
For the Month Ended**

	Natural Resources District Month Ending 06/30/2020	Rural Water-Bruno Month Ending 06/30/2020	Rural Water-Colon Month Ending 06/30/2020	All Districts Month Ending 06/30/2020
Income				
Federal Income				
303206 - Wahoo Creek 319 Grant	0.00	0.00	0.00	0.00
303207 - Shell Creek 319 Grant	0.00	0.00	0.00	0.00
303225 - Wahoo Creek WS PL566	0.00	0.00	0.00	0.00
303250 - Water Smart Grant	0.00	0.00	0.00	0.00
303400 - Sand and Duck 319	0.00	0.00	0.00	0.00
303475 - Cottonwood 319	0.00	0.00	0.00	0.00
303960 - Hazard Mitigation - Federal	1,337.73	0.00	0.00	1,337.73
303961 - FEMA - Flood Funds	1,866.56	0.00	0.00	1,866.56
303962 - NEMA - Flood Funds	0.00	0.00	0.00	0.00
303965 - Wahoo Creek - Federal	0.00	0.00	0.00	0.00
Total Federal Income	\$ 3,204.29	\$ 0.00	\$ 0.00	\$ 3,204.29
State Income				
301202 - Decommissioned Wells	1,439.00	0.00	0.00	1,439.00
301303 - Sand Creek NRDF	1,497.00	0.00	0.00	1,497.00
301315 - WSF and EA Application	19,135.22	0.00	0.00	19,135.22
301320 - Water Department - NET	1,224.00	0.00	0.00	1,224.00
303209 - Shell Creek Phase II 319 - NDEE	4,285.77	0.00	0.00	4,285.77
304100 - Lake Wanahoo - Other	160.25	0.00	0.00	160.25
Total State Income	27,741.24	0.00	0.00	27,741.24
Local Income				
304105 - Education Building Rent	1,380.00	0.00	0.00	1,380.00
304112 - Dirt Sales - Wanahoo	1,096.70	0.00	0.00	1,096.70
Total Local Income	2,476.70	0.00	0.00	2,476.70
Rural Water Income				
304240 - Water Sales	0.00	1,105.15	5,304.20	6,409.35
304275 - Colon Hook Up Fees	0.00	0.00	1,400.00	1,400.00
304295 - Colon Sewer Fees	0.00	0.00	2,160.00	2,160.00
304261 - Other Revenue	0.00	0.77	110.54	111.31
Total Rural Water Income	0.00	1,105.92	8,974.74	10,080.66
Property Tax Income				
305100 - General Fund Property Taxes-Boone	12,352.79	0.00	0.00	12,352.79
305200 - General Fund Property Taxes-Butler	(3,446.01)	0.00	0.00	(3,446.01)
305300 - General Fund Property Taxes-Colfax	(4,368.15)	0.00	0.00	(4,368.15)
305400 - General Fund Property Taxes-Dodge	(33,782.27)	0.00	0.00	(33,782.27)
305500 - General Fund Property Taxes-Madison	(577.01)	0.00	0.00	(577.01)
305600 - General Fund Property Taxes-Platte	(1,405.25)	0.00	0.00	(1,405.25)
305700 - General Fund Property Taxes-Saunders	(18,729.00)	0.00	0.00	(18,729.00)
Total Property Tax Income	(49,954.90)	0.00	0.00	(49,954.90)
Investment Income				
311350 - Interest - NPAIT Elkhorn	0.52	0.00	0.00	0.52
311400 - Interest-NPAIT Wanahoo SRA	27.64	0.00	0.00	27.64
311500 - Interest - NPAIT NRD	0.51	0.00	0.00	0.51
311600 - Interest - STFIT NRD	509.42	0.00	0.00	509.42
304350 - Colon RW Interest - NPAIT	0.00	0.00	1.50	1.50
Total Investment Income	538.09	0.00	1.50	539.59
Equipment Rent and Misc				
309350 - Sales - Well Permits	100.00	0.00	0.00	100.00
309360 - Sales - Sample Kits	660.00	0.00	0.00	660.00
309500 - Equipment Rent	2,372.50	0.00	0.00	2,372.50
309600 - Game & Park Permit Sales	51.00	0.00	0.00	51.00
309700 - NRD Farm Revenue	1,951.21	0.00	0.00	1,951.21
310000 - Chemigation Permits	6,291.00	0.00	0.00	6,291.00
310100 - Check Valve Sales	93.04	0.00	0.00	93.04
310200 - Czechland Camping Fees	2,573.08	0.00	0.00	2,573.08
310201 - Wanahoo Park Permits	20,060.89	0.00	0.00	20,060.89
310202 - Lake Wanahoo Camping	20,362.09	0.00	0.00	20,362.09
312000 - Salaries-Other NRD	79,967.75	0.00	0.00	79,967.75
313000 - Miscellaneous Income	1,128.00	0.00	0.00	1,128.00
315000 - RWD Administrative Fees	285.47	0.00	0.00	285.47
316000 - Employee/Director Reimb	50.76	0.00	0.00	50.76
318000 - Special Project Income	265.00	0.00	0.00	265.00
Total Equipment Rent and Misc	136,211.79	0.00	0.00	136,211.79

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**Lower Platte North NRD
Statements of Activities
For the Month Ended**

	Natural Resources District Month Ending 06/30/2020	Rural Water-Bruno Month Ending 06/30/2020	Rural Water-Colon Month Ending 06/30/2020	All Districts Month Ending 06/30/2020
Total Income	120,217.21	1,105.92	8,976.24	130,299.37
Expenses				
Administration Expenses				
Dues & Membership				
410203 - Dues - NARD	2,322.00	0.00	0.00	2,322.00
Total Dues & Membership	2,322.00	0.00	0.00	2,322.00
Fees and Licenses				
410302 - NRD Fees And Licenses	5.00	0.00	0.00	5.00
410304 - NRD Union Bank Fees	33.82	0.00	0.00	33.82
Total Fees and Licenses	38.82	0.00	0.00	38.82
Insurance				
410501 - Insurance-Auto	824.61	0.00	0.00	824.61
410502 - Insurance-Errors & Omissions	411.54	0.00	0.00	411.54
410504 - Insurance-Liability	2,093.14	0.00	0.00	2,093.14
410505 - Insurance-Property	924.55	0.00	0.00	924.55
Total Insurance	4,253.84	0.00	0.00	4,253.84
Interest Expense				
410600 - Interest Expense	20.32	0.00	116.13	136.45
Total Interest Expense	20.32	0.00	116.13	136.45
Legal Notices				
410701 - Legal Notices	47.55	0.00	0.00	47.55
Total Legal Notices	47.55	0.00	0.00	47.55
Maintenance Contracts				
410800 - Maintenance Contracts	377.97	0.00	0.00	377.97
Total Maintenance Contracts	377.97	0.00	0.00	377.97
Office Supply & Expense				
410901 - Copier Supplies	239.95	0.00	0.00	239.95
410906 - Office Expense - Other	137.74	0.00	0.00	137.74
Total Office Supply & Expense	377.69	0.00	0.00	377.69
Computer Supply & Expense				
411002 - Computer Consultant	375.00	0.00	0.00	375.00
411003 - Computer Repairs & Parts	25.27	0.00	0.00	25.27
411004 - Computer Software	1,154.93	0.00	0.00	1,154.93
411006 - Email	126.00	0.00	0.00	126.00
Total Computer Supply & Expense	1,681.20	0.00	0.00	1,681.20
Postage				
411200 - Postage	22.00	0.00	0.00	22.00
Total Postage	22.00	0.00	0.00	22.00
Professional Services				
411301 - Prof Serv-Accounting	6,550.00	0.00	0.00	6,550.00
411304 - Prof Serv-Legal - General	725.00	0.00	0.00	725.00
411311 - Washington Expense	1,800.00	0.00	0.00	1,800.00
Total Professional Services	9,075.00	0.00	0.00	9,075.00
Telephone Expense				
411601 - Telephone - Cellular	786.12	0.00	0.00	786.12
411602 - Local Phone & Internet	353.21	0.00	0.00	353.21
411605 - Director iPad Cell Service	85.62	0.00	0.00	85.62
Total Telephone Expense	1,224.95	0.00	0.00	1,224.95
Utilities				
411700 - Utilities Expense	613.35	0.00	0.00	613.35
Total Utilities	613.35	0.00	0.00	613.35
Total Administration Expenses	20,054.69	0.00	116.13	20,170.82
Information & Education Expenses				
Information				
420209 - Ktic Ad	195.00	0.00	0.00	195.00
420211 - E-Ads	140.00	0.00	0.00	140.00
Total Information	335.00	0.00	0.00	335.00
Total Information & Education Expenses	335.00	0.00	0.00	335.00
Operation & Maintenance				
Auto and Truck				
430101 - Auto & Truck Gas	1,523.01	0.00	0.00	1,523.01
430102 - Auto & Truck R&M	926.99	0.00	0.00	926.99
Total Auto and Truck	2,450.00	0.00	0.00	2,450.00

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**Lower Platte North NRD
Statements of Activities
For the Month Ended**

	Natural Resources District Month Ending 06/30/2020	Rural Water-Bruno Month Ending 06/30/2020	Rural Water-Colon Month Ending 06/30/2020	All Districts Month Ending 06/30/2020
Building Maintenance				
430201 - Bldg Maintenance	388.70	0.00	0.00	388.70
430202 - Office Cleaning	360.00	0.00	0.00	360.00
430203 - Garbage Maintenance	60.00	0.00	0.00	60.00
Total Building Maintenance	808.70	0.00	0.00	808.70
Operation and Maintenance				
430401 - Czechland & Homestead	464.63	0.00	0.00	464.63
430402 - Equipment Upkeep	231.33	0.00	0.00	231.33
430403 - Operation & Maintenance	630.04	0.00	0.00	630.04
430406 - Wanahoo Park Operation	643.90	0.00	0.00	643.90
430408 - Wanahoo Rec Mgmt	6,665.12	0.00	0.00	6,665.12
430409 - Lake Wanahoo Education Building	1,114.88	0.00	0.00	1,114.88
Total Operation and Maintenance	9,749.90	0.00	0.00	9,749.90
Project Repairs				
430504 - Rawhide Channel Maintenance	2,488.75	0.00	0.00	2,488.75
Total Project Repairs	2,488.75	0.00	0.00	2,488.75
Steam Bank Stabilization				
430602 - Stream Bank - Platte/Elkhorn Rivers	1,750.00	0.00	0.00	1,750.00
Total Steam Bank Stabilization	1,750.00	0.00	0.00	1,750.00
Other				
430804 - O&M One-Call Services	0.96	0.00	0.00	0.96
Total Other	0.96	0.00	0.00	0.96
Total Operation & Maintenance	17,248.31	0.00	0.00	17,248.31
Personnel Expenses				
Director Per Diem				
440200 - Director Per Diem	9,796.15	0.00	0.00	9,796.15
Total Director Per Diem	9,796.15	0.00	0.00	9,796.15
Employee Benefits				
440301 - Dental Insurance	1,765.86	0.00	0.00	1,765.86
440302 - Health Insurance	25,604.19	0.00	0.00	25,604.19
440303 - Retirement Benefit - 414H	4,491.06	0.00	0.00	4,491.06
440304 - Retirement Benefit - 457 Plan	0.04	0.00	0.00	0.04
440306 - Workmans Comp Benefit	1,326.35	0.00	0.00	1,326.35
440307 - Employee Benefits - Other	29.99	0.00	0.00	29.99
440309 - Flexible Spending Fee	18.75	0.00	0.00	18.75
440312 - Accrued Compensated Absences	27,601.32	0.00	0.00	27,601.32
Total Employee Benefits	60,837.56	0.00	0.00	60,837.56
Payroll Taxes				
440401 - FICA - ER	5,746.68	0.00	0.00	5,746.68
440402 - Medicare - ER	1,344.00	0.00	0.00	1,344.00
Total Payroll Taxes	7,090.68	0.00	0.00	7,090.68
Personnel Expense				
440501 - Personnel Meeting Exp	34.50	0.00	0.00	34.50
Total Personnel Expense	34.50	0.00	0.00	34.50
Salaries				
440601 - Salaries - Administration	24,006.52	0.00	0.00	24,006.52
440602 - Salaries - Clerical	2,461.83	0.00	0.00	2,461.83
440604 - Salaries - I & E	4,800.84	0.00	0.00	4,800.84
440605 - Salaries - Op & Maint	24,299.14	0.00	0.00	24,299.14
440606 - NRCS Support	40,067.92	0.00	0.00	40,067.92
440607 - Salaries - Projects	12,510.46	0.00	0.00	12,510.46
440608 - Salaries - Water	38,428.83	0.00	0.00	38,428.83
440616 - Lake Wanahoo Park Op.	16,665.17	0.00	0.00	16,665.17
Total Salaries	163,240.71	0.00	0.00	163,240.71
Total Personnel Expenses	240,999.60	0.00	0.00	240,999.60
Projects Expenses				
Inter-Governmental				
450123 - Hazard Mitigation Update	1,386.48	0.00	0.00	1,386.48
Total Inter-Governmental	1,386.48	0.00	0.00	1,386.48
Wanahoo				
450505 - Prof Serv-Legal - Wanahoo	1,234.04	0.00	0.00	1,234.04
Total Wanahoo	1,234.04	0.00	0.00	1,234.04
Total Projects Expenses	2,620.52	0.00	0.00	2,620.52
Water Expenses				

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**Lower Platte North NRD
Statements of Activities
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	Natural Resources District Month Ending 06/30/2020	Rural Water-Bruno Month Ending 06/30/2020	Rural Water-Colon Month Ending 06/30/2020	All Districts Month Ending 06/30/2020
Groundwater Management Plan				
460101 - GWMP - Cost - Share	50.20	0.00	0.00	50.20
Total Groundwater Management Plan	50.20	0.00	0.00	50.20
Groundwater Programs				
460206 - Monitoring Wells	438.50	0.00	0.00	438.50
Total Groundwater Programs	438.50	0.00	0.00	438.50
Regulatory				
460301 - Chemigation	416.65	0.00	0.00	416.65
Total Regulatory	416.65	0.00	0.00	416.65
Special Projects				
460504 - ENWRA	2,783.33	0.00	0.00	2,783.33
460520 - NET Grant	1,224.00	0.00	0.00	1,224.00
Total Special Projects	4,007.33	0.00	0.00	4,007.33
Land Treatment				
450207 - Nswcp Supplement	9,737.25	0.00	0.00	9,737.25
450805 - Shell Creek Phase I (New)	4,285.77	0.00	0.00	4,285.77
Total Land Treatment	14,023.02	0.00	0.00	14,023.02
Total Water Expenses	18,935.70	0.00	0.00	18,935.70
Rural Water District Expenses				
570201 - Water Purchase	0.00	4,834.60	1,717.00	6,551.60
570204 - Testing	0.00	30.00	30.00	60.00
570206 - Repair	0.00	0.00	635.28	635.28
570207 - Other Expenses	0.00	0.00	1,221.83	1,221.83
570208 - Lpnnrd Adm. Fee	0.00	55.26	230.21	285.47
570210 - Health/Life/Vision/LTD - ER	0.00	50.54	75.83	126.37
570211 - Dental - ER	0.00	19.61	29.43	49.04
570212 - 414H ER Contributions	0.00	54.06	81.08	135.14
570215 - ER Social Security Tax	0.00	86.51	75.86	162.37
570216 - ER Medicare Tax	0.00	20.23	17.75	37.98
570217 - Salaries	0.00	775.63	2,029.18	2,804.81
570219 - Fees And Licenses	0.00	17.12	25.69	42.81
570220 - Rural Water One-Call	0.00	0.96	11.52	12.48
570221 - Rural Water Hand Tools & Supplies	0.00	344.22	516.32	860.54
570223 - Rural Water Gasoline	0.00	34.95	52.59	87.54
570230 - Rural Water Equipment Rental	0.00	0.00	2,372.50	2,372.50
570232 - Rural Water Compensated Absences	0.00	373.28	563.50	936.78
570308 - Colon Meter House Expense	0.00	0.00	68.04	68.04
570309 - Colon Sewer Collections	0.00	0.00	2,160.00	2,160.00
Total Rural Water District Expenses	0.00	6,696.97	11,913.61	18,610.58
Capital Expenditures - Small Items				
480100 - Capital Improvement Small Items (Real Property)	3,114.33	0.00	0.00	3,114.33
Total Capital Expenditures - Small Items	3,114.33	0.00	0.00	3,114.33
Depreciation Expense				
Depreciation				
908000 - Depreciation Expense	37,666.20	707.91	1,468.97	39,843.08
908350 - Amortization Expense - Colon	0.00	0.00	4.13	4.13
Total Depreciation	37,666.20	707.91	1,473.10	39,847.21
Total Depreciation Expense	37,666.20	707.91	1,473.10	39,847.21
Total Expenses	340,974.35	7,404.88	13,502.84	361,882.07
Total Change in Net Position	\$ (220,757.14)	\$ (6,298.96)	\$ (4,526.60)	\$ (231,582.70)

**Lower Platte North NRD
Statements of Activities
For the Periods Ended**

	Natural Resources District Year To Date 06/30/2020	Rural Water-Bruno Year To Date 06/30/2020	Rural Water-Colon Year To Date 06/30/2020	All Districts Year To Date 06/30/2020
Income				
Federal Income				
303206 - Wahoo Creek 319 Grant	250.00	0.00	0.00	250.00
303207 - Shell Creek 319 Grant	0.00	0.00	0.00	0.00
303225 - Wahoo Creek WS PL566	118,831.69	0.00	0.00	118,831.69
303250 - Water Smart Grant	45,987.73	0.00	0.00	45,987.73
303400 - Sand and Duck 319	0.00	0.00	0.00	0.00
303475 - Cottonwood 319	0.00	0.00	0.00	0.00
303960 - Hazard Mitigation - Federal	172,662.33	0.00	0.00	172,662.33
303961 - FEMA - Flood Funds	367,053.21	0.00	0.00	367,053.21
303962 - NEMA - Flood Funds	(6,417.42)	0.00	0.00	(6,417.42)
303965 - Wahoo Creek - Federal	0.00	0.00	0.00	0.00
Total Federal Income	\$ 698,367.54	\$ 0.00	\$ 0.00	\$ 698,367.54
State Income				
301201 - Natural Resources WQ Fund	44,492.49	0.00	0.00	44,492.49
301202 - Decommissioned Wells	3,237.00	0.00	0.00	3,237.00
301303 - Sand Creek NRDF	111,920.23	0.00	0.00	111,920.23
301309 - Water Sustainability Fund	90,000.00	0.00	0.00	90,000.00
301310 - Shell Creek NET	3,678.73	0.00	0.00	3,678.73
301315 - WSF and EA Application	46,990.19	0.00	0.00	46,990.19
301320 - Water Department - NET	27,895.49	0.00	0.00	27,895.49
301800 - State Grant - Whip/Ne Wild	7,640.00	0.00	0.00	7,640.00
301900 - State Grant - NE Buffer Strip	14,660.44	0.00	0.00	14,660.44
303209 - Shell Creek Phase II 319 - NDEE	4,285.77	0.00	0.00	4,285.77
303210 - Shell Creek Phase II - 319 DEQ	13,542.29	0.00	0.00	13,542.29
303213 - Wahoo Creek Phase II - Envir. Trust	21,489.00	0.00	0.00	21,489.00
304100 - Lake Wanahoo - Other	26,495.12	0.00	0.00	26,495.12
Total State Income	416,326.75	0.00	0.00	416,326.75
Local Income				
304105 - Education Building Rent	6,400.00	0.00	0.00	6,400.00
304112 - Dirt Sales - Wanahoo	21,549.43	0.00	0.00	21,549.43
Total Local Income	27,949.43	0.00	0.00	27,949.43
Rural Water Income				
304240 - Water Sales	0.00	31,209.90	42,309.68	73,519.58
304275 - Colon Hook Up Fees	0.00	0.00	4,400.00	4,400.00
304295 - Colon Sewer Fees	0.00	0.00	26,388.00	26,388.00
304261 - Other Revenue	0.00	23.38	1,889.37	1,912.75
Total Rural Water Income	0.00	31,233.28	74,987.05	106,220.33
Property Tax Income				
305100 - General Fund Property Taxes-Boone	122,216.37	0.00	0.00	122,216.37
305200 - General Fund Property Taxes-Butler	383,739.09	0.00	0.00	383,739.09
305300 - General Fund Property Taxes-Colfax	317,381.63	0.00	0.00	317,381.63
305400 - General Fund Property Taxes-Dodge	941,159.33	0.00	0.00	941,159.33
305500 - General Fund Property Taxes-Madison	48,842.33	0.00	0.00	48,842.33
305600 - General Fund Property Taxes-Platte	450,829.74	0.00	0.00	450,829.74
305700 - General Fund Property Taxes-Saunders	1,143,695.97	0.00	0.00	1,143,695.97
Total Property Tax Income	3,407,864.46	0.00	0.00	3,407,864.46
Investment Income				
311350 - Interest - NPAIT Elkhorn	31.33	0.00	0.00	31.33
311400 - Interest-NPAIT Wanahoo SRA	1,297.75	0.00	0.00	1,297.75
311450 - Interest Income-Elkhorn IPA	1,044.73	0.00	0.00	1,044.73
311500 - Interest - NPAIT NRD	13,587.57	0.00	0.00	13,587.57
311600 - Interest - STFIT NRD	8,771.84	0.00	0.00	8,771.84
304350 - Colon RW Interest - NPAIT	0.00	0.00	94.99	94.99
Total Investment Income	24,733.22	0.00	94.99	24,828.21
Equipment Rent and Misc				
309100 - Sales - Trees	9,239.13	0.00	0.00	9,239.13
309350 - Sales - Well Permits	2,000.00	0.00	0.00	2,000.00
309360 - Sales - Sample Kits	3,330.00	0.00	0.00	3,330.00
309400 - Sales - Other	1,125.00	0.00	0.00	1,125.00
309500 - Equipment Rent	6,447.49	0.00	0.00	6,447.49
309600 - Game & Park Permit Sales	357.00	0.00	0.00	357.00
309700 - NRD Farm Revenue	8,345.43	0.00	0.00	8,345.43
310000 - Chemigation Permits	24,137.00	0.00	0.00	24,137.00

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**Lower Platte North NRD
Statements of Activities
For the Periods Ended**

	Natural Resources District Year To Date 06/30/2020	Rural Water-Bruno Year To Date 06/30/2020	Rural Water-Colon Year To Date 06/30/2020	All Districts Year To Date 06/30/2020
310100 - Check Valve Sales	442.94	0.00	0.00	442.94
310200 - Czechland Camping Fees	15,489.01	0.00	0.00	15,489.01
310201 - Wanahoo Park Permits	119,128.83	0.00	0.00	119,128.83
310202 - Lake Wanahoo Camping	125,496.94	0.00	0.00	125,496.94
312000 - Salaries-Other NRD	79,967.75	0.00	0.00	79,967.75
313000 - Miscellaneous Income	19,173.95	0.00	0.00	19,173.95
315000 - RWD Administrative Fees	3,641.06	0.00	0.00	3,641.06
316000 - Employee/Director Reimb	1,430.26	0.00	0.00	1,430.26
317000 - Loss Or Gain On Sale Of Assets	(36,038.50)	0.00	0.00	(36,038.50)
318000 - Special Project Income	795.00	0.00	0.00	795.00
319000 - Families First Relief Credits	1,185.09	0.00	0.00	1,185.09
Total Equipment Rent and Misc	385,693.38	0.00	0.00	385,693.38
Total Income	4,960,934.78	31,233.28	75,082.04	5,067,250.10
Expenses				
Administration Expenses				
Dues & Membership				
410201 - Dues & Membership - Chamber	420.00	0.00	0.00	420.00
410202 - Dues & Membership - NACD	1,925.80	0.00	0.00	1,925.80
410203 - Dues - NARD	27,773.22	0.00	0.00	27,773.22
410204 - Dues - NWRRA	1,950.00	0.00	0.00	1,950.00
410205 - Dues & Membership - Other	1,470.00	0.00	0.00	1,470.00
Total Dues & Membership	33,539.02	0.00	0.00	33,539.02
Fees and Licenses				
410302 - NRD Fees And Licenses	997.78	0.00	0.00	997.78
410304 - NRD Union Bank Fees	541.64	0.00	0.00	541.64
Total Fees and Licenses	1,539.42	0.00	0.00	1,539.42
Insurance				
410501 - Insurance-Auto	9,673.49	0.00	0.00	9,673.49
410502 - Insurance-Errors & Omissions	4,719.03	0.00	0.00	4,719.03
410504 - Insurance-Liability	23,227.98	0.00	0.00	23,227.98
410505 - Insurance-Property	10,738.50	0.00	0.00	10,738.50
Total Insurance	48,359.00	0.00	0.00	48,359.00
Interest Expense				
410600 - Interest Expense	43.57	0.00	1,385.63	1,429.20
Total Interest Expense	43.57	0.00	1,385.63	1,429.20
Legal Notices				
410701 - Legal Notices	3,595.05	0.00	0.00	3,595.05
Total Legal Notices	3,595.05	0.00	0.00	3,595.05
Maintenance Contracts				
410800 - Maintenance Contracts	5,368.54	0.00	0.00	5,368.54
Total Maintenance Contracts	5,368.54	0.00	0.00	5,368.54
Office Supply & Expense				
410901 - Copier Supplies	632.52	0.00	0.00	632.52
410902 - Office Supplies & Equip	2,838.96	0.00	0.00	2,838.96
410903 - Franklin Supplies	330.71	0.00	0.00	330.71
410904 - Letterhead, Envelopes & Forms	3,686.42	0.00	0.00	3,686.42
410905 - Reference Books	1,143.67	0.00	0.00	1,143.67
410906 - Office Expense - Other	1,749.77	0.00	0.00	1,749.77
Total Office Supply & Expense	10,382.05	0.00	0.00	10,382.05
Computer Supply & Expense				
411002 - Computer Consultant	4,500.00	0.00	0.00	4,500.00
411003 - Computer Repairs & Parts	674.05	0.00	0.00	674.05
411004 - Computer Software	6,694.65	0.00	0.00	6,694.65
411006 - Email	1,325.91	0.00	0.00	1,325.91
411011 - Computers & Equipment	4,807.93	0.00	0.00	4,807.93
411012 - Website Design & Hosting	300.00	0.00	0.00	300.00
Total Computer Supply & Expense	18,302.54	0.00	0.00	18,302.54
Postage				
411200 - Postage	3,731.61	0.00	0.00	3,731.61
Total Postage	3,731.61	0.00	0.00	3,731.61
Professional Services				
411301 - Prof Serv-Accounting	78,600.00	0.00	0.00	78,600.00
411302 - Prof Serv-Annual Audit	9,200.00	0.00	0.00	9,200.00
411304 - Prof Serv-Legal - General	11,108.50	0.00	0.00	11,108.50

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**Lower Platte North NRD
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	Natural Resources District Year To Date 06/30/2020	Rural Water-Bruno Year To Date 06/30/2020	Rural Water-Colon Year To Date 06/30/2020	All Districts Year To Date 06/30/2020
411311 - Washington Expense	21,600.00	0.00	0.00	21,600.00
Total Professional Services	120,508.50	0.00	0.00	120,508.50
Rent Expense				
411400 - Rent Expense	1,004.22	0.00	0.00	1,004.22
411401 - NRD Farm	7,714.93	0.00	0.00	7,714.93
Total Rent Expense	8,719.15	0.00	0.00	8,719.15
Support to Organizations				
411502 - R C & D Organizations	350.00	0.00	0.00	350.00
Total Support to Organizations	350.00	0.00	0.00	350.00
Telephone Expense				
411601 - Telephone - Cellular	8,800.26	0.00	0.00	8,800.26
411602 - Local Phone & Internet	6,016.00	0.00	0.00	6,016.00
411605 - Director iPad Cell Service	1,267.74	0.00	0.00	1,267.74
Total Telephone Expense	16,084.00	0.00	0.00	16,084.00
Utilities				
411700 - Utilities Expense	7,734.29	0.00	0.00	7,734.29
Total Utilities	7,734.29	0.00	0.00	7,734.29
Total Administration Expenses	278,256.74	0.00	1,385.63	279,642.37
Information & Education Expenses				
Education				
420104 - Outdoor Classrooms	18.53	0.00	0.00	18.53
420106 - Miscellaneous Education Expense	203.20	0.00	0.00	203.20
420109 - Education Outreach	910.27	0.00	0.00	910.27
Total Education	1,132.00	0.00	0.00	1,132.00
Information				
420201 - Annual Report/Viaduct	9,119.12	0.00	0.00	9,119.12
420203 - Expositions And Display	849.55	0.00	0.00	849.55
420205 - Phrography, Cameras, Video	2,080.00	0.00	0.00	2,080.00
420208 - Miscellaneous	776.92	0.00	0.00	776.92
420209 - Ktic Ad	2,333.00	0.00	0.00	2,333.00
420211 - E-Ads	1,680.00	0.00	0.00	1,680.00
420212 - TV Promotion	1,325.00	0.00	0.00	1,325.00
420213 - Promotion Videos	10,000.00	0.00	0.00	10,000.00
420214 - Wanahoo Promotional Video	950.00	0.00	0.00	950.00
Total Information	29,113.59	0.00	0.00	29,113.59
Scholarships and Grants				
420305 - Camp And Workshop Scholarships	225.00	0.00	0.00	225.00
420307 - Shell Crk Watershd Scholarship	2,000.00	0.00	0.00	2,000.00
Total Scholarships and Grants	2,225.00	0.00	0.00	2,225.00
Other				
420402 - Cooperative Projects/Donations	300.00	0.00	0.00	300.00
420404 - Promotional Materials	943.71	0.00	0.00	943.71
420405 - Recognition Banquet & Awards	62.50	0.00	0.00	62.50
420408 - Platte River time Lapse	45.24	0.00	0.00	45.24
Total Other	1,351.45	0.00	0.00	1,351.45
Total Information & Education Expenses	33,822.04	0.00	0.00	33,822.04
Operation & Maintenance				
Auto and Truck				
430101 - Auto & Truck Gas	13,623.48	0.00	0.00	13,623.48
430102 - Auto & Truck R&M	6,620.37	0.00	0.00	6,620.37
Total Auto and Truck	20,243.85	0.00	0.00	20,243.85
Building Maintenance				
430201 - Bldg Maintenance	1,084.84	0.00	0.00	1,084.84
430202 - Office Cleaning	4,725.00	0.00	0.00	4,725.00
430203 - Garbage Maintenance	686.75	0.00	0.00	686.75
Total Building Maintenance	6,496.59	0.00	0.00	6,496.59
Operation and Maintenance				
430401 - Czechland & Homestead	8,705.61	0.00	0.00	8,705.61
430402 - Equipment Upkeep	6,447.00	0.00	0.00	6,447.00
430403 - Operation & Maintenance	67,670.38	0.00	0.00	67,670.38
430404 - Tree Supplies	111.75	0.00	0.00	111.75
430406 - Wanahoo Park Operation	94,588.17	0.00	0.00	94,588.17
430407 - Monitoring Wanahoo Dam	8,038.12	0.00	0.00	8,038.12
430408 - Wanahoo Rec Mgmt	62,853.43	0.00	0.00	62,853.43
430409 - Lake Wanahoo Education Building	13,377.21	0.00	0.00	13,377.21

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**Lower Platte North NRD
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	Natural Resources District Year To Date 06/30/2020	Rural Water-Bruno Year To Date 06/30/2020	Rural Water-Colon Year To Date 06/30/2020	All Districts Year To Date 06/30/2020
Total Operation and Maintenance	261,791.67	0.00	0.00	261,791.67
Project Repairs				
430504 - Rawhide Channel Maintenance	294,637.47	0.00	0.00	294,637.47
Total Project Repairs	294,637.47	0.00	0.00	294,637.47
Steam Bank Stabilization				
430601 - Stream Bank - Perennial Streams	4,240.87	0.00	0.00	4,240.87
430602 - Stream Bank - Platte/Elkhorn Rivers	1,750.00	0.00	0.00	1,750.00
Total Steam Bank Stabilization	5,990.87	0.00	0.00	5,990.87
Wildlife Habitat Programs				
430702 - Crep	7,640.00	0.00	0.00	7,640.00
Total Wildlife Habitat Programs	7,640.00	0.00	0.00	7,640.00
Other				
430802 - Stock For Resale - Trees	5,256.44	0.00	0.00	5,256.44
430803 - Lower Platte Weed Mgmt Area	30,000.00	0.00	0.00	30,000.00
430804 - O&M One-Call Services	28.75	0.00	0.00	28.75
430805 - IceJam Monitoring	2,731.55	0.00	0.00	2,731.55
Total Other	38,016.74	0.00	0.00	38,016.74
Total Operation & Maintenance	634,817.19	0.00	0.00	634,817.19
Personnel Expenses				
Director Expense				
440101 - Director Meeting Expense	11,189.47	0.00	0.00	11,189.47
440102 - Director Mileage Expense	10,490.69	0.00	0.00	10,490.69
440104 - Computer Stipend	1,260.00	0.00	0.00	1,260.00
Total Director Expense	22,940.16	0.00	0.00	22,940.16
Director Per Diem				
440200 - Director Per Diem	32,936.15	0.00	0.00	32,936.15
Total Director Per Diem	32,936.15	0.00	0.00	32,936.15
Employee Benefits				
440301 - Dental Insurance	19,362.46	0.00	0.00	19,362.46
440302 - Health Insurance	299,115.91	0.00	0.00	299,115.91
440303 - Retirement Benefit - 414H	59,723.34	0.00	0.00	59,723.34
440304 - Retirement Benefit - 457 Plan	3,671.27	0.00	0.00	3,671.27
440306 - Workmans Comp Benefit	22,839.74	0.00	0.00	22,839.74
440307 - Employee Benefits - Other	518.46	0.00	0.00	518.46
440309 - Flexible Spending Fee	247.50	0.00	0.00	247.50
440312 - Accrued Compensated Absences	27,601.32	0.00	0.00	27,601.32
Total Employee Benefits	433,080.00	0.00	0.00	433,080.00
Payroll Taxes				
440401 - FICA - ER	68,716.14	0.00	0.00	68,716.14
440402 - Medicare - ER	16,078.98	0.00	0.00	16,078.98
Total Payroll Taxes	84,795.12	0.00	0.00	84,795.12
Personnel Expense				
440501 - Personnel Meeting Exp	14,134.22	0.00	0.00	14,134.22
440502 - Personnel Mileage Exp	1,094.65	0.00	0.00	1,094.65
440503 - Safety Committee	1,289.40	0.00	0.00	1,289.40
440504 - Personnel Uniform Exp	1,226.15	0.00	0.00	1,226.15
440505 - Personnel Exp-Other	2,860.25	0.00	0.00	2,860.25
Total Personnel Expense	20,604.67	0.00	0.00	20,604.67
Salaries				
440601 - Salaries - Administration	225,976.05	0.00	0.00	225,976.05
440602 - Salaries - Clerical	30,499.16	0.00	0.00	30,499.16
440603 - Employee Recognition Program	600.00	0.00	0.00	600.00
440604 - Salaries - I & E	63,759.31	0.00	0.00	63,759.31
440605 - Salaries - Op & Maint	172,279.46	0.00	0.00	172,279.46
440606 - NRCS Support	205,081.80	0.00	0.00	205,081.80
440607 - Salaries - Projects	120,919.26	0.00	0.00	120,919.26
440608 - Salaries - Water	345,328.95	0.00	0.00	345,328.95
440616 - Lake Wanhoo Park Op.	82,675.92	0.00	0.00	82,675.92
Total Salaries	1,247,119.91	0.00	0.00	1,247,119.91
Total Personnel Expenses	1,841,476.01	0.00	0.00	1,841,476.01
Projects Expenses				
Inter-Governmental				
450103 - Emergency Repair	36,077.50	0.00	0.00	36,077.50
450117 - Woodcliff Bank Stabilization	75,000.00	0.00	0.00	75,000.00
450119 - JWMAB Dodge Co	3,000.00	0.00	0.00	3,000.00

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	Natural Resources District Year To Date 06/30/2020	Rural Water-Bruno Year To Date 06/30/2020	Rural Water-Colon Year To Date 06/30/2020	All Districts Year To Date 06/30/2020
450123 - Hazard Mitigation Update	190,951.15	0.00	0.00	190,951.15
Total Inter-Governmental	305,028.65	0.00	0.00	305,028.65
Special Projects				
450309 - SA No-Till Conf/Shell Creek	1,200.00	0.00	0.00	1,200.00
Total Special Projects	1,200.00	0.00	0.00	1,200.00
Wanahoo				
450505 - Prof Serv-Legal - Wanahoo	5,446.16	0.00	0.00	5,446.16
Total Wanahoo	5,446.16	0.00	0.00	5,446.16
Platte River Corridor Alliance				
411129 - USGS Monitoring at Leshara	6,562.00	0.00	0.00	6,562.00
Total Platte River Corridor Alliance	6,562.00	0.00	0.00	6,562.00
Total Projects Expenses	318,236.81	0.00	0.00	318,236.81
Water Expenses				
Groundwater Management Plan				
460101 - GWMP - Cost - Share	6,148.94	0.00	0.00	6,148.94
460103 - GWMP - Nitrogen Classes	786.17	0.00	0.00	786.17
460111 - Flow Meter Maintenance	4,497.50	0.00	0.00	4,497.50
Total Groundwater Management Plan	11,432.61	0.00	0.00	11,432.61
Groundwater Programs				
460201 - Decommissioned Wells	27,727.30	0.00	0.00	27,727.30
460203 - GW Levels	327.32	0.00	0.00	327.32
460204 - GW Quality Program	11,349.65	0.00	0.00	11,349.65
460206 - Monitoring Wells	12,631.91	0.00	0.00	12,631.91
460212 - GW Monitoring Equip SQS#2	480.70	0.00	0.00	480.70
Total Groundwater Programs	52,516.88	0.00	0.00	52,516.88
Regulatory				
460301 - Chemigation	1,269.19	0.00	0.00	1,269.19
Total Regulatory	1,269.19	0.00	0.00	1,269.19
Surface Water Programs				
460403 - Stream Flow	17,109.12	0.00	0.00	17,109.12
Total Surface Water Programs	17,109.12	0.00	0.00	17,109.12
Special Projects				
460503 - Special Projects - Other	75.29	0.00	0.00	75.29
460504 - ENWRA	33,399.99	0.00	0.00	33,399.99
460512 - SQS AEM Flights	150,000.00	0.00	0.00	150,000.00
460520 - NET Grant	36,750.98	0.00	0.00	36,750.98
Total Special Projects	220,226.26	0.00	0.00	220,226.26
Land Treatment				
450201 - Ne Buffer Strip	14,852.94	0.00	0.00	14,852.94
450204 - Shell Creek	14,099.10	0.00	0.00	14,099.10
450207 - Nswcp Supplement	9,737.25	0.00	0.00	9,737.25
450805 - Shell Creek Phase I (New)	18,167.48	0.00	0.00	18,167.48
450807 - Wahoo Creek Phase II	21,739.00	0.00	0.00	21,739.00
Total Land Treatment	78,595.77	0.00	0.00	78,595.77
Total Water Expenses	381,149.83	0.00	0.00	381,149.83
Rural Water District Expenses				
570201 - Water Purchase	0.00	20,983.02	12,958.20	33,941.22
570204 - Testing	0.00	974.00	184.00	1,158.00
570206 - Repair	0.00	104.92	2,222.67	2,327.59
570207 - Other Expenses	0.00	61.61	1,914.24	1,975.85
570208 - Lpnnrd Adm. Fee	0.00	1,560.51	2,080.55	3,641.06
570210 - Health/Life/Vision/LTD - ER	0.00	932.64	1,399.20	2,331.84
570211 - Dental - ER	0.00	235.32	353.16	588.48
570212 - 414H ER Contributions	0.00	687.47	1,031.24	1,718.71
570215 - ER Social Security Tax	0.00	566.74	1,021.07	1,587.81
570216 - ER Medicare Tax	0.00	132.54	238.84	371.38
570217 - Salaries	0.00	7,516.65	17,168.41	24,685.06
570219 - Fees And Licenses	0.00	439.64	659.58	1,099.22
570220 - Rural Water One-Call	0.00	12.40	69.09	81.49
570221 - Rural Water Hand Tools & Supplies	0.00	359.41	539.11	898.52
570222 - RW Dues And Memberships	0.00	40.00	60.00	100.00
570223 - Rural Water Gasoline	0.00	536.12	665.01	1,201.13
570230 - Rural Water Equipment Rental	0.00	0.00	2,372.50	2,372.50
570231 - Rural Water Equipment Upkeep	0.00	512.25	768.39	1,280.64
570232 - Rural Water Compensated Absences	0.00	373.28	563.50	936.78

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	Natural Resources District Year To Date 06/30/2020	Rural Water-Bruno Year To Date 06/30/2020	Rural Water-Colon Year To Date 06/30/2020	All Districts Year To Date 06/30/2020
570308 - Colon Meter House Expense	0.00	0.00	1,216.42	1,216.42
570309 - Colon Sewer Collections	0.00	0.00	26,388.00	26,388.00
Total Rural Water District Expenses	0.00	36,028.52	73,873.18	109,901.70
Capital Expenditures - Small Items				
480100 - Capital Improvement Small Items (Real Property)	3,357.78	0.00	0.00	3,357.78
480105 - Capital Outlay Small Items (Equipment)	8,468.94	0.00	0.00	8,468.94
Total Capital Expenditures - Small Items	11,826.72	0.00	0.00	11,826.72
Depreciation Expense				
Depreciation				
908000 - Depreciation Expense	451,995.07	8,494.19	17,733.53	478,222.79
908350 - Amortization Expense - Colon	0.00	0.00	50.00	50.00
Total Depreciation	451,995.07	8,494.19	17,783.53	478,272.79
Total Depreciation Expense	451,995.07	8,494.19	17,783.53	478,272.79
Total Expenses	3,951,580.41	44,522.71	93,042.34	4,089,145.46
Total Change in Net Position	\$ 1,009,354.37	\$ (13,289.43)	\$ (17,960.30)	\$ 978,104.64

Lower Platte North NRD Supplemental Schedule Statements of Activities - Actual vs. Budget

	Year To Date June 30, 2020 <small>Actual</small>	Year Ending June 30, 2020 <small>FY2020</small>	\$ Difference Annual Budget	Percentage Annual Budget
Change in Net Position				
Income				
Federal Income				
303206 - Wahoo Creek 319 Grant	250.00	0.00	250.00	0.00 %
303207 - Shell Creek 319 Grant	0.00	70,000.00	(70,000.00)	0.00 %
303225 - Wahoo Creek WS PL566	118,831.69	0.00	118,831.69	0.00 %
303250 - Water Smart Grant	45,987.73	52,500.00	(6,512.27)	87.60 %
303960 - Hazard Mitigation - Federal	172,662.33	221,516.00	(48,853.67)	77.95 %
303961 - FEMA - Flood Funds	367,053.21	223,304.00	143,749.21	164.37 %
303962 - NEMA - Flood Funds	(6,417.42)	37,217.00	(43,634.42)	(17.24) %
Total Federal Income	698,367.54	604,537.00	93,830.54	115.52 %
State Income				
301201 - Natural Resources WQ Fund	44,492.49	49,000.00	(4,507.51)	90.80 %
301202 - Decommissioned Wells	3,237.00	4,000.00	(763.00)	80.93 %
301203 - Motor Vehicle Pro-Rate	0.00	8,300.00	(8,300.00)	0.00 %
301303 - Sand Creek NRDF	111,920.23	245,500.00	(133,579.77)	45.59 %
301309 - Water Sustainability Fund	90,000.00	90,000.00	0.00	100.00 %
301310 - Shell Creek NET	3,678.73	0.00	3,678.73	0.00 %
301315 - WSF and EA Application	46,990.19	0.00	46,990.19	0.00 %
301320 - Water Department - NET	27,895.49	54,000.00	(26,104.51)	51.66 %
301800 - State Grant - Whip/Ne Wild	7,640.00	3,820.00	3,820.00	200.00 %
301900 - State Grant - NE Buffer Strip	14,660.44	19,620.00	(4,959.56)	74.72 %
303209 - Shell Creek Phase II 319 - NDEE	4,285.77	70,000.00	(65,714.23)	6.12 %
303210 - Shell Creek Phase II - 319 DEQ	13,542.29	0.00	13,542.29	0.00 %
303212 - Wahoo Creek Phase II - 319 DEQ	0.00	60,000.00	(60,000.00)	0.00 %
303213 - Wahoo Creek Phase II - Envir. Trust	21,489.00	90,000.00	(68,511.00)	23.88 %
303215 - Wahoo Creek - RCCP State	0.00	210,000.00	(210,000.00)	0.00 %
304100 - Lake Wanahoo - Other	26,495.12	20,000.00	6,495.12	132.48 %
Total State Income	416,326.75	924,240.00	(507,913.25)	45.05 %
Local Income				
304105 - Education Building Rent	6,400.00	2,000.00	4,400.00	320.00 %
304110 - Hazard Mitigation - Local	0.00	33,375.00	(33,375.00)	0.00 %
304112 - Dirt Sales - Wanahoo	21,549.43	6,000.00	15,549.43	359.16 %
Total Local Income	27,949.43	41,375.00	(13,425.57)	67.55 %
Property Tax Income				
305100 - General Fund Property Taxes-Boone	122,216.37	105,907.00	16,309.37	115.40 %
305200 - General Fund Property Taxes-Butler	383,739.09	386,356.00	(2,616.91)	99.32 %
305300 - General Fund Property Taxes-Colfax	317,381.63	320,514.00	(3,132.37)	99.02 %
305400 - General Fund Property Taxes-Dodge	941,159.33	973,094.00	(31,934.67)	96.72 %
305500 - General Fund Property Taxes-Madison	48,842.33	49,238.00	(395.67)	99.20 %
305600 - General Fund Property Taxes-Platte	450,829.74	451,163.00	(333.26)	99.93 %
305700 - General Fund Property Taxes-Saunders	1,143,695.97	1,159,636.00	(15,940.03)	98.63 %
Total Property Tax Income	3,407,864.46	3,445,908.00	(38,043.54)	98.90 %
Investment Income				
311350 - Interest - NPAIT Elkhorn	31.33	0.00	31.33	0.00 %
311400 - Interest-NPAIT Wanahoo SRA	1,297.75	0.00	1,297.75	0.00 %
311450 - Interest Income-Elkhorn IPA	1,044.73	0.00	1,044.73	0.00 %
311500 - Interest - NPAIT NRD	13,587.57	4,400.00	9,187.57	308.81 %
311600 - Interest - STFIT NRD	8,771.84	0.00	8,771.84	0.00 %
Total Investment Income	24,733.22	4,400.00	20,333.22	562.12 %
Equipment Rent and Misc				
309100 - Sales - Trees	9,239.13	12,000.00	(2,760.87)	76.99 %
309350 - Sales - Well Permits	2,000.00	2,000.00	0.00	100.00 %
309360 - Sales - Sample Kits	3,330.00	3,500.00	(170.00)	95.14 %
309400 - Sales - Other	1,125.00	1,500.00	(375.00)	75.00 %
309500 - Equipment Rent	6,447.49	8,000.00	(1,552.51)	80.59 %
309600 - Game & Park Permit Sales	357.00	450.00	(93.00)	79.33 %
309700 - NRD Farm Revenue	8,345.43	5,410.00	2,935.43	154.26 %
310000 - Chemigation Permits	24,137.00	21,100.00	3,037.00	114.39 %
310100 - Check Valve Sales	442.94	100.00	342.94	442.94 %
310200 - Czechland Camping Fees	15,489.01	8,700.00	6,789.01	178.03 %
310201 - Wanahoo Park Permits	119,128.83	85,000.00	34,128.83	140.15 %
310202 - Lake Wanahoo Camping	125,496.94	65,000.00	60,496.94	193.07 %

Lower Platte North NRD Supplemental Schedule

Statements of Activities - Actual vs. Budget

	Year To Date June 30, 2020 <small>Actual</small>	Year Ending June 30, 2020 <small>FY2020</small>	\$ Difference Annual Budget	Percentage Annual Budget
312000 - Salaries-Other NRD	79,967.75	75,000.00	4,967.75	106.62 %
313000 - Miscellaneous Income	19,173.95	37,000.00	(17,826.05)	51.82 %
315000 - RWD Administrative Fees	3,641.06	4,000.00	(358.94)	91.03 %
316000 - Employee/Director Reimb	1,430.26	3,000.00	(1,569.74)	47.68 %
317000 - Loss Or Gain On Sale Of Assets	(36,038.50)	13,000.00	(49,038.50)	(277.22) %
318000 - Special Project Income	795.00	1,000.00	(205.00)	79.50 %
319000 - Families First Relief Credits	1,185.09	0.00	1,185.09	0.00 %
Total Equipment Rent and Misc	385,693.38	345,760.00	39,933.38	111.55 %
Total Income	4,960,934.78	5,366,220.00	(405,285.22)	92.45 %
Expenses				
Administration Expenses				
Bonds				
410100 - Bonds	0.00	800.00	(800.00)	0.00 %
Total Bonds	0.00	800.00	(800.00)	0.00 %
Dues & Membership				
410201 - Dues & Membership - Chamber	420.00	450.00	(30.00)	93.33 %
410202 - Dues & Membership - NACD	1,925.80	1,776.00	149.80	108.43 %
410203 - Dues - NARD	27,773.22	27,846.00	(72.78)	99.74 %
410204 - Dues - NWRA	1,950.00	1,950.00	0.00	100.00 %
410205 - Dues & Membership - Other	1,470.00	3,200.00	(1,730.00)	45.94 %
Total Dues & Membership	33,539.02	35,222.00	(1,682.98)	95.22 %
Fees and Licenses				
410302 - NRD Fees And Licenses	997.78	10,000.00	(9,002.22)	9.98 %
410304 - NRD Union Bank Fees	541.64	600.00	(58.36)	90.27 %
Total Fees and Licenses	1,539.42	10,600.00	(9,060.58)	14.52 %
GIS				
410401 - GIS Activities	0.00	2,000.00	(2,000.00)	0.00 %
Total GIS	0.00	2,000.00	(2,000.00)	0.00 %
Insurance				
410501 - Insurance-Auto	9,673.49	10,000.00	(326.51)	96.73 %
410502 - Insurance-Errors & Omissions	4,719.03	4,950.00	(230.97)	95.33 %
410504 - Insurance-Liability	23,227.98	25,000.00	(1,772.02)	92.91 %
410505 - Insurance-Property	10,738.50	12,000.00	(1,261.50)	89.49 %
Total Insurance	48,359.00	51,950.00	(3,591.00)	93.09 %
Interest Expense				
410600 - Interest Expense	43.57	1,500.00	(1,456.43)	2.90 %
Total Interest Expense	43.57	1,500.00	(1,456.43)	2.90 %
Legal Notices				
410701 - Legal Notices	3,595.05	6,000.00	(2,404.95)	59.92 %
Total Legal Notices	3,595.05	6,000.00	(2,404.95)	59.92 %
Maintenance Contracts				
410800 - Maintenance Contracts	5,368.54	6,500.00	(1,131.46)	82.59 %
Total Maintenance Contracts	5,368.54	6,500.00	(1,131.46)	82.59 %
Office Supply & Expense				
410901 - Copier Supplies	632.52	500.00	132.52	126.50 %
410902 - Office Supplies & Equip	2,838.96	4,500.00	(1,661.04)	63.09 %
410903 - Franklin Supplies	330.71	600.00	(269.29)	55.12 %
410904 - Letterhead, Envelopes & Forms	3,686.42	2,000.00	1,686.42	184.32 %
410905 - Reference Books	1,143.67	1,500.00	(356.33)	76.24 %
410906 - Office Expense - Other	1,749.77	3,000.00	(1,250.23)	58.33 %
Total Office Supply & Expense	10,382.05	12,100.00	(1,717.95)	85.80 %
Computer Supply & Expense				
411002 - Computer Consultant	4,500.00	5,000.00	(500.00)	90.00 %
411003 - Computer Repairs & Parts	674.05	1,500.00	(825.95)	44.94 %
411004 - Computer Software	6,694.65	6,000.00	694.65	111.58 %
411005 - Computer Magazines/Video	0.00	100.00	(100.00)	0.00 %
411006 - Email	1,325.91	1,200.00	125.91	110.49 %
411011 - Computers & Equipment	4,807.93	11,000.00	(6,192.07)	43.71 %
411012 - Website Design & Hosting	300.00	750.00	(450.00)	40.00 %
Total Computer Supply & Expense	18,302.54	25,550.00	(7,247.46)	71.63 %
Postage				
411200 - Postage	3,731.61	4,000.00	(268.39)	93.29 %
Total Postage	3,731.61	4,000.00	(268.39)	93.29 %
Professional Services				

Lower Platte North NRD Supplemental Schedule Statements of Activities - Actual vs. Budget

	Year To Date June 30, 2020 <small>Actual</small>	Year Ending June 30, 2020 <small>FY2020</small>	\$ Difference Annual Budget	Percentage Annual Budget
411301 - Prof Serv-Accounting	78,600.00	79,000.00	(400.00)	99.49 %
411302 - Prof Serv-Annual Audit	9,200.00	10,000.00	(800.00)	92.00 %
411304 - Prof Serv-Legal - General	11,108.50	15,000.00	(3,891.50)	74.06 %
411305 - Prof Serv-Legal-Other	0.00	3,000.00	(3,000.00)	0.00 %
411307 - Prof Services-Other	0.00	3,000.00	(3,000.00)	0.00 %
411311 - Washington Expense	21,600.00	21,000.00	600.00	102.86 %
Total Professional Services	120,508.50	131,000.00	(10,491.50)	91.99 %
Rent Expense				
411400 - Rent Expense	1,004.22	1,500.00	(495.78)	66.95 %
411401 - NRD Farm	7,714.93	4,500.00	3,214.93	171.44 %
Total Rent Expense	8,719.15	6,000.00	2,719.15	145.32 %
Support to Organizations				
411501 - Locally Lead Conservation Groups	0.00	500.00	(500.00)	0.00 %
411502 - R C & D Organizations	350.00	500.00	(150.00)	70.00 %
Total Support to Organizations	350.00	1,000.00	(650.00)	35.00 %
Telephone Expense				
411601 - Telephone - Cellular	8,800.26	9,000.00	(199.74)	97.78 %
411602 - Local Phone & Internet	6,016.00	6,000.00	16.00	100.27 %
411605 - Director iPad Cell Service	1,267.74	2,500.00	(1,232.26)	50.71 %
Total Telephone Expense	16,084.00	17,500.00	(1,416.00)	91.91 %
Utilities				
411700 - Utilities Expense	7,734.29	8,500.00	(765.71)	90.99 %
Total Utilities	7,734.29	8,500.00	(765.71)	90.99 %
Total Administration Expenses	278,256.74	320,222.00	(41,965.26)	86.89 %
Information & Education Expenses				
Education				
420103 - Land & Range Judging Contest	0.00	1,000.00	(1,000.00)	0.00 %
420104 - Outdoor Classrooms	18.53	2,500.00	(2,481.47)	0.74 %
420106 - Miscellaneous Education Expense	203.20	500.00	(296.80)	40.64 %
420107 - Water Testing Event	0.00	1,000.00	(1,000.00)	0.00 %
420108 - Spring Conservation Sensation	0.00	4,500.00	(4,500.00)	0.00 %
420109 - Education Outreach	910.27	2,500.00	(1,589.73)	36.41 %
Total Education	1,132.00	12,000.00	(10,868.00)	9.43 %
Information				
420201 - Annual Report/Viaduct	9,119.12	12,500.00	(3,380.88)	72.95 %
420202 - Books And Pamphlets	0.00	500.00	(500.00)	0.00 %
420203 - Expositions And Display	849.55	3,500.00	(2,650.45)	24.27 %
420205 - Phrography, Cameras, Video	2,080.00	3,500.00	(1,420.00)	59.43 %
420206 - Soil & Water Stewardship Mat.	0.00	250.00	(250.00)	0.00 %
420208 - Miscellaneous	776.92	500.00	276.92	155.38 %
420209 - Ktic Ad	2,333.00	2,500.00	(167.00)	93.32 %
420211 - E-Ads	1,680.00	1,700.00	(20.00)	98.82 %
420212 - TV Promotion	1,325.00	5,000.00	(3,675.00)	26.50 %
420213 - Promotion Videos	10,000.00	10,000.00	0.00	100.00 %
420214 - Wanahoo Promotional Video	950.00	10,000.00	(9,050.00)	9.50 %
Total Information	29,113.59	49,950.00	(20,836.41)	58.29 %
Scholarships and Grants				
420305 - Camp And Workshop Scholarships	225.00	500.00	(275.00)	45.00 %
420307 - Shell Crk Watershd Scholarship	2,000.00	2,500.00	(500.00)	80.00 %
Total Scholarships and Grants	2,225.00	3,000.00	(775.00)	74.17 %
Other				
420401 - Art Supplies	0.00	150.00	(150.00)	0.00 %
420402 - Cooperative Projects/Donations	300.00	500.00	(200.00)	60.00 %
420404 - Promotional Materials	943.71	5,000.00	(4,056.29)	18.87 %
420405 - Recognition Banquet & Awards	62.50	1,500.00	(1,437.50)	4.17 %
420408 - Platte River time Lapse	45.24	0.00	45.24	0.00 %
420409 - N.American Envirothon	0.00	4,245.00	(4,245.00)	0.00 %
Total Other	1,351.45	11,395.00	(10,043.55)	11.86 %
Total Information & Education Expenses	33,822.04	76,345.00	(42,522.96)	44.30 %
Operation & Maintenance				
Auto and Truck				
430101 - Auto & Truck Gas	13,623.48	17,000.00	(3,376.52)	80.14 %
430102 - Auto & Truck R&M	6,620.37	7,000.00	(379.63)	94.58 %
Total Auto and Truck	20,243.85	24,000.00	(3,756.15)	84.35 %

Lower Platte North NRD Supplemental Schedule

Statements of Activities - Actual vs. Budget

	Year To Date June 30, 2020 <small>Actual</small>	Year Ending June 30, 2020 <small>FY2020</small>	\$ Difference Annual Budget	Percentage Annual Budget
Building Maintenance				
430201 - Bldg Maintenance	1,084.84	3,500.00	(2,415.16)	31.00 %
430202 - Office Cleaning	4,725.00	5,000.00	(275.00)	94.50 %
430203 - Garbage Maintenance	686.75	700.00	(13.25)	98.11 %
Total Building Maintenance	6,496.59	9,200.00	(2,703.41)	70.62 %
Community Forestry Program				
430300 - Community Forestry	0.00	2,000.00	(2,000.00)	0.00 %
Total Community Forestry Program	0.00	2,000.00	(2,000.00)	0.00 %
Operation and Maintenance				
430401 - Czechland & Homestead	8,705.61	8,000.00	705.61	108.82 %
430402 - Equipment Upkeep	6,447.00	14,000.00	(7,553.00)	46.05 %
430403 - Operation & Maintenance	67,670.38	75,000.00	(7,329.62)	90.23 %
430404 - Tree Supplies	111.75	250.00	(138.25)	44.70 %
430406 - Wanahoo Park Operation	94,588.17	100,000.00	(5,411.83)	94.59 %
430407 - Monitoring Wanahoo Dam	8,038.12	0.00	8,038.12	0.00 %
430408 - Wanahoo Rec Mgmt	62,853.43	45,000.00	17,853.43	139.67 %
430409 - Lake Wanahoo Education Building	13,377.21	0.00	13,377.21	0.00 %
Total Operation and Maintenance	261,791.67	242,250.00	19,541.67	108.07 %
Project Repairs				
430504 - Rawhide Channel Maintenance	294,637.47	175,000.00	119,637.47	168.36 %
Total Project Repairs	294,637.47	175,000.00	119,637.47	168.36 %
Steam Bank Stabilization				
430601 - Stream Bank - Perennial Streams	4,240.87	20,000.00	(15,759.13)	21.20 %
430602 - Stream Bank - Platte/Elkhorn Rivers	1,750.00	100,000.00	(98,250.00)	1.75 %
Total Steam Bank Stabilization	5,990.87	120,000.00	(114,009.13)	4.99 %
Wildlife Habitat Programs				
430702 - Crep	7,640.00	3,820.00	3,820.00	200.00 %
Total Wildlife Habitat Programs	7,640.00	3,820.00	3,820.00	200.00 %
Other				
430801 - NRCS Flags	0.00	1,000.00	(1,000.00)	0.00 %
430802 - Stock For Resale - Trees	5,256.44	12,000.00	(6,743.56)	43.80 %
430803 - Lower Platte Weed Mgmt Area	30,000.00	30,000.00	0.00	100.00 %
430804 - O&M One-Call Services	28.75	50.00	(21.25)	57.50 %
430805 - IceJam Monitoring	2,731.55	500.00	2,231.55	546.31 %
Total Other	38,016.74	43,550.00	(5,533.26)	87.29 %
Total Operation & Maintenance	634,817.19	619,820.00	14,997.19	102.42 %
Personnel Expenses				
Director Expense				
440101 - Director Meeting Expense	11,189.47	22,000.00	(10,810.53)	50.86 %
440102 - Director Mileage Expense	10,490.69	15,000.00	(4,509.31)	69.94 %
440104 - Computer Stipend	1,260.00	1,500.00	(240.00)	84.00 %
Total Director Expense	22,940.16	38,500.00	(15,559.84)	59.58 %
Director Per Diem				
440200 - Director Per Diem	32,936.15	35,000.00	(2,063.85)	94.10 %
Total Director Per Diem	32,936.15	35,000.00	(2,063.85)	94.10 %
Employee Benefits				
440301 - Dental Insurance	19,362.46	21,500.00	(2,137.54)	90.06 %
440302 - Health Insurance	299,115.91	283,500.00	15,615.91	105.51 %
440303 - Retirement Benefit - 414H	59,723.34	62,000.00	(2,276.66)	96.33 %
440304 - Retirement Benefit - 457 Plan	3,671.27	6,200.00	(2,528.73)	59.21 %
440305 - Tuition Reimbursement	0.00	3,000.00	(3,000.00)	0.00 %
440306 - Workmans Comp Benefit	22,839.74	14,000.00	8,839.74	163.14 %
440307 - Employee Benefits - Other	518.46	2,500.00	(1,981.54)	20.74 %
440309 - Flexible Spending Fee	247.50	300.00	(52.50)	82.50 %
440312 - Accrued Compensated Absences	27,601.32	0.00	27,601.32	0.00 %
Total Employee Benefits	433,080.00	393,000.00	40,080.00	110.20 %
Payroll Taxes				
440401 - FICA - ER	68,716.14	69,972.00	(1,255.86)	98.21 %
440402 - Medicare - ER	16,078.98	16,364.00	(285.02)	98.26 %
Total Payroll Taxes	84,795.12	86,336.00	(1,540.88)	98.22 %
Personnel Expense				
440501 - Personnel Meeting Exp	14,134.22	35,000.00	(20,865.78)	40.38 %
440502 - Personnel Mileage Exp	1,094.65	3,500.00	(2,405.35)	31.28 %
440503 - Safety Committee	1,289.40	1,500.00	(210.60)	85.96 %

See Accountant's Compilation Report

Lower Platte North NRD Supplemental Schedule Statements of Activities - Actual vs. Budget

	Year To Date June 30, 2020 <small>Actual</small>	Year Ending June 30, 2020 <small>FY2020</small>	\$ Difference Annual Budget	Percentage Annual Budget
440504 - Personnel Uniform Exp	1,226.15	2,000.00	(773.85)	61.31 %
440505 - Personnel Exp-Other	2,860.25	2,700.00	160.25	105.94 %
Total Personnel Expense	20,604.67	44,700.00	(24,095.33)	46.10 %
Salaries				
440601 - Salaries - Administration	225,976.05	220,328.00	5,648.05	102.56 %
440602 - Salaries - Clerical	30,499.16	33,002.00	(2,502.84)	92.42 %
440603 - Employee Recognition Program	600.00	1,300.00	(700.00)	46.15 %
440604 - Salaries - I & E	63,759.31	68,640.00	(4,880.69)	92.89 %
440605 - Salaries - Op & Maint	172,279.46	177,265.00	(4,985.54)	97.19 %
440606 - NRCS Support	205,081.80	180,000.00	25,081.80	113.93 %
440607 - Salaries - Projects	120,919.26	101,627.00	19,292.26	118.98 %
440608 - Salaries - Water	345,328.95	339,582.00	5,746.95	101.69 %
440611 - Salaries - Rural Water	0.00	29,280.00	(29,280.00)	0.00 %
440616 - Lake Wanhoo Park Op.	82,675.92	68,638.00	14,037.92	120.45 %
Total Salaries	1,247,119.91	1,219,662.00	27,457.91	102.25 %
Total Personnel Expenses	1,841,476.01	1,817,198.00	24,278.01	101.34 %
Projects Expenses				
Inter-Governmental				
450103 - Emergency Repair	36,077.50	100,000.00	(63,922.50)	36.08 %
450115 - Platte Co-Luchsinger Stabilization	0.00	36,333.00	(36,333.00)	0.00 %
450117 - Woodcliff Bank Stabilization	75,000.00	75,000.00	0.00	100.00 %
450119 - JWMAB Dodge Co	3,000.00	0.00	3,000.00	0.00 %
450123 - Hazard Mitigation Update	190,951.15	250,855.00	(59,903.85)	76.12 %
Total Inter-Governmental	305,028.65	462,188.00	(157,159.35)	66.00 %
Special Projects				
450305 - Special Projects-Other	0.00	500.00	(500.00)	0.00 %
450309 - SA No-Till Conf/Shell Creek	1,200.00	2,000.00	(800.00)	60.00 %
Total Special Projects	1,200.00	2,500.00	(1,300.00)	48.00 %
Wanhoo				
450505 - Prof Serv-Legal - Wanhoo	5,446.16	10,000.00	(4,553.84)	54.46 %
450506 - Lake Level Mgmt Plan	0.00	25,000.00	(25,000.00)	0.00 %
Total Wanhoo	5,446.16	35,000.00	(29,553.84)	15.56 %
Platte River Corridor Alliance				
411122 - Water Quality Cost Ed & Outreach	0.00	1,480.00	(1,480.00)	0.00 %
411129 - USGS Monitoring at Leshara	6,562.00	0.00	6,562.00	0.00 %
Total Platte River Corridor Alliance	6,562.00	1,480.00	5,082.00	443.38 %
Total Projects Expenses	318,236.81	501,168.00	(182,931.19)	63.50 %
Water Expenses				
Groundwater Management Plan				
460101 - GWMP - Cost - Share	6,148.94	10,000.00	(3,851.06)	61.49 %
460102 - GWMP - Information & Education	0.00	2,000.00	(2,000.00)	0.00 %
460103 - GWMP - Nitrogen Classes	786.17	2,000.00	(1,213.83)	39.31 %
460104 - GWMP - Permits	0.00	100.00	(100.00)	0.00 %
460111 - Flow Meter Maintenance	4,497.50	12,500.00	(8,002.50)	35.98 %
Total Groundwater Management Plan	11,432.61	26,600.00	(15,167.39)	42.98 %
Groundwater Programs				
460201 - Decommissioned Wells	27,727.30	12,500.00	15,227.30	221.82 %
460203 - GW Levels	327.32	1,000.00	(672.68)	32.73 %
460204 - GW Quality Program	11,349.65	15,000.00	(3,650.35)	75.66 %
460205 - Mead - NOP	0.00	250.00	(250.00)	0.00 %
460206 - Monitoring Wells	12,631.91	7,500.00	5,131.91	168.43 %
460212 - GW Monitoring Equip SQS#2	480.70	1,000.00	(519.30)	48.07 %
Total Groundwater Programs	52,516.88	37,250.00	15,266.88	140.98 %
Regulatory				
460301 - Chemigation	1,269.19	1,000.00	269.19	126.92 %
460302 - Irrigation Runoff	0.00	750.00	(750.00)	0.00 %
Total Regulatory	1,269.19	1,750.00	(480.81)	72.53 %
Surface Water Programs				
460403 - Stream Flow	17,109.12	26,000.00	(8,890.88)	65.80 %
460405 - NE - Rain Network	0.00	250.00	(250.00)	0.00 %
Total Surface Water Programs	17,109.12	26,250.00	(9,140.88)	65.18 %
Special Projects				
460503 - Special Projects - Other	75.29	0.00	75.29	0.00 %
460504 - ENWRA	33,399.99	35,000.00	(1,600.01)	95.43 %

**Lower Platte North NRD
Supplemental Schedule**
Statements of Activities - Actual vs. Budget

	Year To Date June 30, 2020 <small>Actual</small>	Year Ending June 30, 2020 <small>FY2020</small>	\$ Difference Annual Budget	Percentage Annual Budget
460512 - SQS AEM Flights	150,000.00	150,000.00	0.00	100.00 %
460520 - NET Grant	36,750.98	87,000.00	(50,249.02)	42.24 %
460521 - Lower Platte Consortium	0.00	250.00	(250.00)	0.00 %
Total Special Projects	220,226.26	272,250.00	(52,023.74)	80.89 %
Land Treatment				
450201 - Ne Buffer Strip	14,852.94	18,000.00	(3,147.06)	82.52 %
450204 - Shell Creek	14,099.10	20,000.00	(5,900.90)	70.50 %
450206 - Emergency Terrace Repair	0.00	5,000.00	(5,000.00)	0.00 %
450207 - Nswcp Supplement	9,737.25	50,000.00	(40,262.75)	19.47 %
450211 - Trees	0.00	3,000.00	(3,000.00)	0.00 %
450805 - Shell Creek Phase I (New)	18,167.48	150,000.00	(131,832.52)	12.11 %
450807 - Wahoo Creek Phase II	21,739.00	150,000.00	(128,261.00)	14.49 %
450808 - Mike Chvatal Dam	0.00	22,000.00	(22,000.00)	0.00 %
450809 - Sand Creek Dams-Conservation	0.00	50,000.00	(50,000.00)	0.00 %
Total Land Treatment	78,595.77	468,000.00	(389,404.23)	16.79 %
Total Water Expenses	381,149.83	832,100.00	(450,950.17)	45.81 %
Total Expenses	3,487,758.62	4,166,853.00	(679,094.38)	83.70 %
Total Change in Net Position	1,473,176.16	1,199,367.00	273,809.16	122.83 %

Lower Platte North NRD
Supplemental Schedule
 Statements of Activities - Actual vs. Budget
 Rural Water District - Bruno

	Year To Date 06/30/2020 <small>Actual</small>	Year Ending June 30, 2020 <small>FY2020</small>	\$ Difference Annual Budget	Percentage Annual Budget
Change in Net Position				
Rural Water Income				
304240 - Water Sales	31,209.90	38,018.00	(6,808.10)	82.09 %
304261 - Other Revenue	23.38	0.00	23.38	0.00 %
Total Rural Water Income	31,233.28	38,018.00	(6,784.72)	82.15 %
Rural Water District Expenses				
570201 - Water Purchase	20,983.02	28,000.00	(7,016.98)	74.94 %
570204 - Testing	974.00	700.00	274.00	139.14 %
570206 - Repair	104.92	1,000.00	(895.08)	10.49 %
570207 - Other Expenses	61.61	700.00	(638.39)	8.80 %
570208 - Lpnnrd Adm. Fee	1,560.51	2,200.00	(639.49)	70.93 %
570210 - Health/Life/Vision/LTD - ER	932.64	2,900.00	(1,967.36)	32.16 %
570211 - Dental - ER	235.32	300.00	(64.68)	78.44 %
570212 - 414H ER Contributions	687.47	200.00	487.47	343.74 %
570215 - ER Social Security Tax	566.74	700.00	(133.26)	80.96 %
570216 - ER Medicare Tax	132.54	200.00	(67.46)	66.27 %
570217 - Salaries	7,516.65	9,000.00	(1,483.35)	83.52 %
570219 - Fees And Licenses	439.64	500.00	(60.36)	87.93 %
570220 - Rural Water One-Call	12.40	50.00	(37.60)	24.80 %
570221 - Rural Water Hand Tools & Supplies	359.41	250.00	109.41	143.76 %
570222 - RW Dues And Memberships	40.00	100.00	(60.00)	40.00 %
570223 - Rural Water Gasoline	536.12	700.00	(163.88)	76.59 %
570224 - Rural Water Personnel Meeting	0.00	400.00	(400.00)	0.00 %
570231 - Rural Water Equipment Upkeep	512.25	900.00	(387.75)	56.92 %
570232 - Rural Water Compensated Absences	373.28	0.00	373.28	0.00 %
Total Rural Water District Expenses	36,028.52	48,800.00	(12,771.48)	73.83 %
Total Change in Net Position	(4,795.24)	(10,782.00)	5,986.76	44.47 %

Lower Platte North NRD
Supplemental Schedule
 Statements of Activities - Actual vs. Budget
 Rural Water District - Colon

	Year To Date 06/30/2020 <small>Actual</small>	Year Ending June 30, 2020 <small>FY2020</small>	\$ Difference Annual Budget	Percentage Annual Budget
Change in Net Position				
Rural Water Income				
304240 - Water Sales	42,309.68	35,581.00	6,728.68	118.91 %
304275 - Colon Hook Up Fees	4,400.00	0.00	4,400.00	0.00 %
304295 - Colon Sewer Fees	26,388.00	26,200.00	188.00	100.72 %
304261 - Other Revenue	1,889.37	0.00	1,889.37	0.00 %
Total Rural Water Income	74,987.05	61,781.00	13,206.05	121.38 %
Investment Income				
304350 - Colon RW Interest - NPAIT	94.99	0.00	94.99	0.00 %
Total Investment Income	94.99	0.00	94.99	0.00 %
Rural Water District Expenses				
570201 - Water Purchase	12,958.20	8,000.00	4,958.20	161.98 %
570204 - Testing	184.00	560.00	(376.00)	32.86 %
570206 - Repair	2,222.67	2,000.00	222.67	111.13 %
570207 - Other Expenses	1,914.24	1,000.00	914.24	191.42 %
570208 - Lpnnrd Adm. Fee	2,080.55	1,860.00	220.55	111.86 %
570210 - Health/Life/Vision/LTD - ER	1,399.20	4,350.00	(2,950.80)	32.17 %
570211 - Dental - ER	353.16	450.00	(96.84)	78.48 %
570212 - 414H ER Contributions	1,031.24	1,000.00	31.24	103.12 %
570215 - ER Social Security Tax	1,021.07	1,100.00	(78.93)	92.82 %
570216 - ER Medicare Tax	238.84	300.00	(61.16)	79.61 %
570217 - Salaries	17,168.41	16,000.00	1,168.41	107.30 %
570219 - Fees And Licenses	659.58	500.00	159.58	131.92 %
570220 - Rural Water One-Call	69.09	75.00	(5.91)	92.12 %
570221 - Rural Water Hand Tools & Supplies	539.11	250.00	289.11	215.64 %
570222 - RW Dues And Memberships	60.00	100.00	(40.00)	60.00 %
570223 - Rural Water Gasoline	665.01	700.00	(34.99)	95.00 %
570224 - Rural Water Personnel Meeting	0.00	500.00	(500.00)	0.00 %
570230 - Rural Water Equipment Rental	2,372.50	0.00	2,372.50	0.00 %
570231 - Rural Water Equipment Upkeep	768.39	1,200.00	(431.61)	64.03 %
570232 - Rural Water Compensated Absences	563.50	0.00	563.50	0.00 %
570308 - Colon Meter House Expense	1,216.42	1,200.00	16.42	101.37 %
570309 - Colon Sewer Collections	26,388.00	26,200.00	188.00	100.72 %
Total Rural Water District Expenses	73,873.18	67,345.00	6,528.18	109.69 %
Interest Expense				
410600 - Interest Expense	1,385.63	1,476.18	(90.55)	93.87 %
Total Interest Expense	1,385.63	1,476.18	(90.55)	93.87 %
Total Change in Net Position	(176.77)	(7,040.18)	6,863.41	2.51 %

Lower Platte North NRD

Supplemental Schedule - Actual vs. Budget - Capital Expenses and Debt Service Payments

	<u>Year To Date</u> <u>6/30/2020</u> <i>Actual</i>	<u>Year Ending</u> <u>6/30/2020</u> <i>Budget</i>	<u>\$ Difference</u> <u>Annual Budget</u>	<u>Percentage</u> <u>Annual Budget</u>
Capital Improvements - Real Property				
Sand Creek Recreation	0.00	75,000.00	(75,000.00)	0.00%
Wahoo Creek	197,148.68	1,478,707.00	(1,281,558.32)	13.33%
Western Sarpy/Clear Creek	117,133.33	100,000.00	17,133.33	117.13%
Rawhide Project	0.00	400,000.00	(400,000.00)	0.00%
Water Department	18,275.00	10,000.00	8,275.00	182.75%
Shell Creek	0.00	200,000.00	(200,000.00)	0.00%
Buildings	249,490.43	200,000.00	49,490.43	124.75%
Total Capital Improvements - Real Property	<u>582,047.44</u>	<u>2,463,707.00</u>	<u>(1,881,659.56)</u>	<u>23.62%</u>
Capital Outlay				
Machinery and Equipment	103,912.61	129,800.00	(25,887.39)	80.06%
Auto and Trucks	0.00	34,000.00	(34,000.00)	0.00%
Office Equipment	0.00	65,000.00	(65,000.00)	0.00%
Total Capital Outlay	<u>103,912.61</u>	<u>228,800.00</u>	<u>(124,887.39)</u>	<u>45.42%</u>
Debt Service Payments				
Principal Payments on Colon RW	1,907.36	1,878.82	28.54	101.52%
Total Debt Service Payments	<u>1,907.36</u>	<u>1,878.82</u>	<u>28.54</u>	<u>101.52%</u>
 Grand Total All Expenses w/o Depreciation	 <u>4,286,913.34</u>	 <u>6,978,860.00</u>	 <u>(2,691,946.66)</u>	 <u>61.43%</u>

Week #1

Lower Platte North NRD Time Sheet

Name Eric Gottschalk

Period Covered 6/20/20 to 6/26/20

You must enter "pm" for times after 12:59 or the form will not calculate correctly!

	Date	Start Time	Stop Time	Work Hours	Other Hours	Duties Performed	Miles	Meals	Other Exp.
Sat	6/20								
Sun	6/21								
Mon	6/22	7:30 am 1:30 pm	12:45 pm 4:45 pm	8.50		Preliminary Budget, Set-up staff evaluations, Leadership team meeting, Committee meeting discussion, Personnel, Red Thread information meeting with Lacey, Wanahoo deposits and envelopes			
Tues	6/23	7:30 am 1:30 pm	12:45 pm 5:00 pm	8.75		Pre-bid meeting - FYRA @ Education Bldg, Tom Smith - Dodge Co. Time sheets, mail			
Wed	6/24	7:30 am 1:45 pm	1:00 pm 4:45 pm	8.50		Wanahoo cabins, LPR Consortium, Wahoo Creek Evaluations			
Thurs	6/25	7:15 am 1:00 pm	12:15 pm 5:00 pm	9.00		Staff evaluation reviews, Clear Creek Levee Personnel			
Fri	6/26	7:30 am 1:45 pm	12:45 pm 4:45 pm	8.25		Staff evaluation reviews, Wanahoo cabins, Budget prep, HBE communications			
Week #1 Totals				43	0		0	\$0.00	\$0.00

Supervisor _____ Manager [Signature] Assistant Manager [Signature] Treasurer _____

Date _____ Date 7/6/20 Date 7/9/20 Date _____

I CERTIFY THAT THE ABOVE INFORMATION IS CORRECT

[Signature]
Signature of person filing form

7/6/20
Date

Expenses

Mileage x.575	\$ 0.000
Meals	\$0.00
Other Exp.	\$0.00
Total	\$ 0.00

Week #2

Lower Platte North NRD Time Sheet

Name Eric Gottschalk

Period Covered 6/27/20 to 7/3/20

You must enter "pm" for times after 12:59 or the form will not calculate correctly!

	Date	Start Time	Stop Time	Work Hours	Other Hours	Duties Performed	Miles	Meals	Other Exp.
Sat	6/27								
Sun	6/28								
Mon	6/29	7:30 am 1:45 pm	12:45 pm 5:00 pm	8.50		Staff Evaluation reviews, Leadership team meeting, mail, Budget			
Tues	6/30	7:30 am 1:30 pm	12:30 pm 4:45 pm	8.25		Wanahoo cabins, Wahoo Creek, Staff Evaluation reviews, Personnel			
Wed	7/1	7:30 am 1:30 pm	12:45 pm 4:30 pm	8.25		Committee prep, Zoom meeting set-up, Budget prep, Red Thread meeting w/Lacey I&E discussion and budget			
Thurs	7/2	7:00 am 1:15 pm	12:15 pm 5:00 pm	9.00		Committee Meeting Day committee follow-up, Wanahoo Cabins prep			
Fri	7/3				8.00	Holiday			
Week #2 Totals				34	8		0	\$0.00	\$0.00
Totals Week #1				43	0		0	\$0.00	\$0.00
Two Week Totals				77	8		0	\$0.00	\$0.00

80

Annual Leave & Sick Leave

	Previous Balance	Earned This Pay Period	Used This Pay Period	New Balance
Annual Leave	240.00	8.00	0.00	248.00 248
Sick Leave	556.75	4.00	0.00	560.75

#	Program Areas	Hours
11	Administration	37.00
14	District Management	33.00
15	Personnel	2.00
31	I&E Administration	
41	O&M Administration	
51	Projects Administration	
61	Water Administration	
71	Rural Water Administration	
52	Conservation Program	
	A.L.	
	S.L.	
	Holiday	8.00
	Other	

Total: 80

RESET FORM

This will delete ALL data on form, including name, AL/SL values and Program Areas labels.

Week #1

Lower Platte North NRD Time Sheet

Name Eric Gottschalk

Period Covered 7/4/20 to 7/10/20

You must enter "pm" for times after 12:59 or the form will not calculate correctly!

	Date	Start Time	Stop Time	Work Hours	Other Hours	Duties Performed	Miles	Meals	Other Exp.
Sat	7/4								
Sun	7/5								
Mon	7/6	7:30 am 1:15 pm	12:30 pm 4:15 pm	8.00		Leadership team, New Wanahoo Staff orientation, iron rangers & deposits, time sheets, mail			
Tues	7/7				8.25	A.L.			
Wed	7/8					Out			
Thurs	7/9	7:30 am 1:45 pm	12:30 pm 5:15 pm	8.50		Bills, mail, e-mail catch-up Wanahoo building prep, Budget, personnel			
Fri	7/10	7:15 am 1:30 pm	12:30 pm 5:00 pm	8.75		Budget, Board meeting prep, Wanahoo cabins prep, Clear Creek Levee			
Week #1 Totals				25.25	8.25		0	\$0.00	\$0.00

Supervisor _____ Manager E Assistant Manager _____ Treasurer _____

Date _____ Date 7/21/20 Date _____ Date _____

I CERTIFY THAT THE ABOVE INFORMATION IS CORRECT

[Signature]
Signature of person filing form

7/21/20
Date

Expenses

Mileage x.575	\$ 0.000
Meals	\$0.00
Other Exp.	\$0.00
Total	\$ 0.00

Week #2

Lower Platte North NRD Time Sheet

Name Eric Gottschalk

Period Covered 7/11/20 to 7/17/20

You must enter "pm" for times after 12:59 or the form will not calculate correctly!

	Date	Start Time	Stop Time	Work Hours	Other Hours	Duties Performed	Miles	Meals	Other Exp.
Sat	7/11								
Sun	7/12								
Mon	7/13	7:15 am 1:30 pm	12:45 pm 8:30 pm	12.50		Leadership team meeting, Wanahoo staff, board meeting prep, Building set-up and test, Personnel Sub-Committee prep and meeting, Board meeting			
Tues	7/14	7:45 am 1:45 pm	12:45 pm 5:00 pm	8.25		Staff Meeting, With Lacey - Red Thread, meet with staff regarding personnel sub-committee, new staff schedule update,			
Wed	7/15	7:30 am 1:45 pm	12:45 pm 5:30 pm	9.00		Education building sod prep & water system, Wahoo Creek, Personnel,			
Thurs	7/16	7:30 am 1:45 pm	12:45 pm 4:45 pm	8.25		Education building set-up, watering, mail and e-mail catch up bills, personnel - Christian			
Fri	7/17	7:15 am 1:45 pm	12:45 pm 4:45 pm	8.50		Wanahoo iron rangers, Water sod at bldg, Budget,			
Week #2 Totals				46.5	0		0	\$0.00	\$0.00
Totals Week #1				25.25	8.25		0	\$0.00	\$0.00
Two Week Totals				71.75	8.25		0	\$0.00	\$0.00

Annual Leave & Sick Leave

	Previous Balance	Earned This Pay Period	Used This Pay Period	New Balance
Annual Leave	240.00	8.00	8.25	239.75
Sick Leave	560.75	4.00	0.00	564.75

RESET FORM

This will delete ALL data on form, including name, AL/SL values and Program Areas labels.

#	Program Areas	Hours
11	Administration	35.75
14	District Management	32.00
15	Personnel	4.00
31	I&E Administration	
41	O&M Administration	
51	Projects Administration	
61	Water Administration	
71	Rural Water Administration	
52	Conservation Program	
A.L.		8.25
S.L.		
Holiday		
Other		

Total: 80

Lower Platte North Natural Resources District
 Accounts Receivable Aging Summary as of 6/30/20

Accounts Receivable acct 105000

Customer	Invoice/Purpose	Current	0-30 Days	31-60 Days	61 and Over	Totals
Bruno/David City RW Customers	Multiple	732.71	0.00	0.00	0.00	732.71
Colon RW Customers	Multiple	6934.75	1,974.64	0.00	0.00	8,909.39
BOR	METOS USA - Water Smart Monitoring Equipment	0.00	45,987.73	0.00	0.00	45,987.73
Department of Natural Resources	FYRA - Wahoo Creek WS Plan/EA & WSF	0.00	0.00	0.00	3,168.00	3,168.00
	Olsson Associates - Water Sustainability Fund	19,135.22	0.00	1,811.38	0.00	20,946.60
FEMA	JEO - Rawhide Ditch 8 Flood Damage Repair	1,566.56	5,226.56	3,906.56	6,959.07	17,658.75
	Husker Engineering - Rawhide Ditch 8 Flood Damage Repair	0.00	140,843.79	0.00	0.00	140,843.79
	FYRA - Lake Wanhoo Spilling Basin	0.00	42,044.63	0.00	10,890.34	52,934.97
	Gana Trucking - Rawhide Ditch & Flood Damage Repair	0.00	0.00	0.00	46,456.50	46,456.50
	Diers Farm/Kirk Brand	300.00	0.00	0.00	4,275.00	4,575.00
FEMA/NEMA-no longer rcv'ing	JEO - Emergency Flood Repairs (75% FEMA)	0.00	0.00	0.00	15,719.07	15,719.07
	FYRA (75% FEMA)	0.00	0.00	0.00	16,361.69	16,361.69
	Clark Const Co (75% FEMA)	0.00	0.00	0.00	78,121.50	78,121.50
FEMA/LPS-NRD/NEMA-no longer rcv'ing	FYRA - Camp Ashland	0.00	0.00	0.00	1,470.02	1,470.02
NAW MDN Customers	Klein Sales & Service (McPhillips/Nathan/Wiese/Wondercheck) & (May '20 - H	0.00	530.00	0.00	0.00	530.00
NDEE	Vernier Software/UBT Visa (Shell Creek Sampling Equipment)	4,285.77	0.00	0.00	0.00	4,285.77
NEMA	JEO - Hazard Mitigation (NEMA/City of Fremont/City of Schuyler)	1,337.73	0.00	0.00	7,343.75	8,681.48
	JEO - Hazard Mitigation (NEMA/City of Fremont/City of Schuyler)	0.00	0.00	0.00	2,978.70	2,978.70
	JEO - Hazard Mitigation (NEMA/City of Fremont/City of Schuyler)	0.00	15,480.09	4,961.30	39,206.33	59,647.72
NET	UNL Office of Sponsored Programs/St John Nepomucene School/UNL Office of	0.00	1,651.34	0.00	1,013.76	2,665.10
	Klein Sales & Service (Vadose Zone)	1,224.00	0.00	0.00	0.00	1,224.00
NRCS	FYRA - Wahoo Creek WS PL566	0.00	14,335.25	0.00	0.00	14,335.25
	JEO - Wahoo Creek WS PL566	0.00	0.00	525.00	2,820.00	3,345.00
	Olsson Associates - Wahoo Creek WS PL566	0.00	0.00	0.00	4,668.68	4,668.68
NRD Employees	Three Rivers flu shots - Gottschalk	0.00	0.00	0.00	0.00	0.00
NRD	NRCS Wage Reimbursement (Lower Plattte So/Lower Elkhorn/UBBNRD)	79,967.75	0.00	0.00	0.00	79,967.75
NRDF	Cornhusker State Ind/Steel Bldg Sales/Steel Bldg Sales/McAtee Cons/Robert H	0.00	0.00	0.00	84,175.37	84,175.37
	Menards/Simons Home Store/Simons Home Store/Wahoo Metal/Hancock Cor	0.00	0.00	0.00	30,601.87	30,601.87
	Robert Hedges/Hancock Const/McConnell Thermal/Simons Home Store/Pork t	0.00	0.00	0.00	17,995.26	17,995.26
	Douglas Hedges/Subbert Well/Diode/Hancock Cons/Steel Bldg Sales/Lierman t	0.00	0.00	0.00	47,476.49	47,476.49
	Sept UBT Visa/McAtee Construction(x2)/City of Wahoo/Keystone Glass	0.00	0.00	0.00	5,103.05	5,103.05
	Simons Home Store/Wahoo Utilities/Diode/K&S Mechanical/Ontility-NF Smith	0.00	0.00	0.00	14,580.20	14,580.20
	Schutt Electrical/Superior Door/J&R Concrete	0.00	0.00	0.00	7,867.47	7,867.47
	Hancock Construction/Lierman Excavating	1,497.00	0.00	5,301.00	0.00	6,798.00
Wahoo Development	H&H Trucking	0.00	0.00	0.00	3,000.00	3,000.00
		116,981.49	268,074.03	16,505.24	452,252.12	853,812.88

Long-term Receivables acct 105005: NE Dept of Natural Resources and USACE

Customer	Invoice	Current	0-30 Days	31-60 Days	61 and Over	Totals	
USACE (Sand Creek/Wanhoo)	008226-6/30/09				2,882,995.86		
	008367-11/30/09				220.61		
	008458-2/12/10				2,704.21		
	008594-6/30/10				52.33		
	008599-6/30/10				96,983.55		
	008601-6/30/10				679,317.44		
	008658-9/30/10				15,599.03		
	008659-9/30/10				1,072,522.57		
	008927-2/24/12				6,647.42		
	008928-2/24/12				159,389.53		
	009055-6/30/12				25,096.93		
	009067-7/31/12				49.73		
	009070-8/31/12				2,177.50		
	009078-9/30/12				352,072.83		
	009098-10/31/12				202,769.01		
	009297-12/31/13				48.75		
	009368-4/30/14				41,115.11		
	5/31/20 - Sand Creek Project Adjustment				(620,046.54)		
		Totals	0.00	0.00	0.00	4,919,715.87	4,919,715.87



Proposal For: Lower Platte North Natural
Resource District

Effective Date: 10/1/2020

COVERAGE	LIMITS AND APPLICABLE DEDUCTIBLES	CONTRIBUTION
Worker's Compensation	Statutory Limits \$500,000 Employer Liability	\$14,984
General Liability	\$5,000,000/\$5,000,000 Per Occurrence/Aggregate \$0 Deductible	\$28,158
Errors & Omissions	\$5,000,000/\$5,000,000 Per Occurrence/Aggregate \$1,000 Deductible	\$5,335
Auto Liability	\$5,000,000 Combined Single Limit \$0 Deductible	\$5,559
Auto Physical Damage	22 x Vehicles \$ Varies on Deductible	\$4,487
Commercial Property	\$3,383,747 \$500 Deductible	\$13,610
TOTAL ANNUAL CONTRIBUTION:		\$72,133



LPNNRD Lake Wanahoo Stilling Basin Rehab
Final Design/Permitting/Construction Phase
 FYRA Project # 022-19-01

Task Description	FYRA Engineering						BGC		Totals
	Principal Sotak, PE	Senior Engr Gregalunas, PE	Permitting Kaufman, PE	Asst Engr El (Varies)	Accounting	FYRA Expenses	Sr. Geotech Henderson, PE	BGC Expenses	
	\$205	\$180	\$150	\$105	\$75		\$297		
Project Management									
1.1 Client Meetings (2 Meetings)	8	4		8					
1.2 Monthly Invoicing & Project/Schedule Update (3 months)	3				6		2		
1.3 FEMA Coordination	12						6	\$500	
Project Management Task Total	\$4,715	\$720	\$0	\$840	\$450	\$0	\$2,376	\$500	\$9,601
Final Design									
2.1 Topographic Survey				24		700			
2.2 Hydraulic Analysis and Final Design Report	4	16		50			8		
2.3 Construction Documents and Specifications	12	12		100			16		
2.4 Final Opinion of Probable Costs	6			12					
Final Design Task Total	\$6,560	\$5,040	\$0	\$19,530	\$0	\$700	\$10,098	\$0	\$41,928
Permitting									
3.1 Coordination with USACE			4						
3.2 Wetland Delineation/OHWM Field Work and Reporting			1	12					
3.3 Preparation and Submittal of Section 404 Nationwide Permit			4	24					
3.4 NDNR Dam Safety Coordination and Permitting	10	4					12	\$600	
Permitting Task Total	\$2,050	\$720	\$1,350	\$3,780	\$0	\$0	\$3,564	\$600	\$12,064
Bidding									
4.1 Pre-Bid Coordination and Meeting	16			16			4		
4.2 Project Bidding	8								
4.3 LPNNRD Board Approval and Recommendation	8								
Bidding Task Total	\$6,560	\$0	\$0	\$1,680	\$0	\$0	\$1,188	\$0	\$9,428
Construction Observation									
5.1 Pre-Construction Meeting	4			4		100			
5.2 Construction Observation (6 weeks)	60			300	8	1,800	12		
5.3 Construction Reporting	8			24					
5.4 Final Walkthrough	6			10					
5.5 As-Built Drawings	2			16					
5.6 NDNR/FEMA Certifications	6			4					
5.7 O&M Manual/EAP Modifications	4			4					
Construction Observation Task Total	\$18,450	\$0	\$0	\$38,010	\$600	\$1,900	\$3,564	\$0	\$62,524
Total:									\$135,545

Approved 73,021.00



29 July 2020

Eric Gottschalk, General Manager – **via email**

Eric and LPNNRD Board of Directors:

The bid opening for the above-referenced project was held at the LPNNRD on 28 July 2020. The low bid of \$1,452,069.27 was received from Valley Corp. and was above the engineer's estimate of \$980,149 by \$471,920.67. One other bid was submitted by ME Collins Contracting which was \$1,475,330.80 and can be viewed on the attached bid tabulations.

After a review of the bids, I have the following assessments:

1. The project is a very unique project with little to no similar projects from which to draw comparative bid prices from.
2. The current construction climate has contractors extremely busy which leads to higher bids.
3. There is a fair amount of uncertainty in this project, given the wet conditions and uncertainty in what is below.
4. The unit prices appear to be higher than even I estimated in the current bidding climate. Analyzing the low bid, their bid was under my estimate on fixed quantity items such as the amount of sheet pile, concrete baffle blocks, soil anchors, etc. This allows them to place additional profit in other items such as the aggregate and rock riprap that needs to be placed. For that reason, quantities will need to be watched carefully during construction.
5. A project with very specific bid items makes it easy for Contractors to recognize when there is not likely to be many bids and this can lead to higher bid prices.
6. The stigma of this project receiving federal funds often leads to higher bid prices.
7. The schedule is tight, in an effort to make repairs prior to next Spring's runoff season. This can lead to higher bid prices.

Valley Corp has provided a list of subcontractors and suppliers (attached). They have also indicated that they can begin the project by November of 2020 and complete it by May of 2021. ME Collins indicated a similar schedule (see both Bid Forms.) Re-bidding the project allowing for a longer construction period may yield lower bid prices, but similar efforts by other NRDs recently did not yield lower bids. This also takes on the risk of another rainy season with the stilling basin unprotected.

I am familiar w/ Valley Corp's work and find them to be a quality, reputable contractor. I would say the same about ME Collins. Based on the lower bid, my recommendation is to award the project to Valley Corp. and begin the contracting process upon Board approval and in the meantime, allow me to work with Valley Corp to try and find cost reduction strategies. Please feel free to contact me if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael K. Sotak".

Michael K. Sotak, P.E., D.WRE

PROJECT: Wanhoo Dam Stilling Basin Rehabilitation
 BY: FYRA Engineering

SUMMARY TABLE OF QUANTITIES				Engineer's Opinion		Valley Corp.		Variance	ME Collins		Variance
BID ITEM	BASE BID ITEM DESCRIPTION	UNITS	QUANTITY	Unit Price	Cost	Unit Price	Cost		Unit Price	Cost	
1	MOBILIZATION	LS	1	\$ 50,000	\$ 50,000	\$ 143,499.29	\$ 143,499.29	93,499.29	\$ 130,690.00	\$ 130,690.00	80,690.00
2	SWPPP	LS	1	\$ 5,500	\$ 5,500	\$ 44,553.60	\$ 44,553.60	39,053.60	\$ 10,000.00	\$ 10,000.00	4,500.00
3	WATER HANDLING	LS	1	\$ 30,000	\$ 30,000	\$ 123,587.11	\$ 123,587.11	93,587.11	\$ 142,960.00	\$ 142,960.00	112,960.00
4	EXCAVATION	CY	400	\$ 20	\$ 8,000	\$ 60.14	\$ 24,056.00	16,056.00	\$ 33.00	\$ 13,200.00	5,200.00
5	FILTER MIX 1 AGGREGATE	TN	1384	\$ 120	\$ 166,080	\$ 184.37	\$ 255,168.08	89,088.08	\$ 66.00	\$ 91,344.00	(74,736.00)
6	FILTER MIX 2 AGGREGATE	TN	1148	\$ 120	\$ 137,760	\$ 156.68	\$ 179,868.64	42,108.64	\$ 94.00	\$ 107,912.00	(29,848.00)
7	SHEET PILE	SF	2072	\$ 100	\$ 207,200	\$ 73.93	\$ 153,182.96	(54,017.04)	\$ 99.00	\$ 205,128.00	(2,072.00)
8	PRESSURE GROUTING	CY	175	\$ 350	\$ 61,250	\$ 608.97	\$ 106,569.75	45,319.75	\$ 1,008.00	\$ 176,400.00	115,150.00
9	CONCRETE BAFFLE	CY	74	\$ 1,400	\$ 103,600	\$ 1,051.66	\$ 77,822.84	(25,777.16)	\$ 2,731.00	\$ 202,094.00	98,494.00
10	BAFFLE REINFORCEMENT	LBS	1596.2	\$ 3	\$ 4,789	\$ 5.96	\$ 9,513.35	4,724.75	\$ 4.00	\$ 6,384.80	1,596.20
11	PRE-FABRICATED STEEL PLATE FOR BAFFLE	LF	85	\$ 200	\$ 17,000	\$ 119.69	\$ 10,173.65	(6,826.35)	\$ 132.00	\$ 11,220.00	(5,780.00)
12	APRON ANCHOR BOLTS	EA	16	\$ 1,000	\$ 16,000	\$ 410.81	\$ 6,572.96	(9,427.04)	\$ 955.00	\$ 15,280.00	(720.00)
13	HDPE GABION	EA	14	\$ 599	\$ 8,386	\$ 9,701.95	\$ 135,827.30	127,441.30	\$ 13,053.00	\$ 182,742.00	174,356.00
14	GABION ANCHORING SYSTEM - PERCUSSION DRIVEN ANCHORS	EA	14	\$ 900	\$ 12,600	\$ 672.25	\$ 9,411.50	(3,188.50)	\$ 1,493.00	\$ 20,902.00	8,302.00
15	GABION ANCHORING SYSTEM - DEADMAN/CABLE SYSTEM	EA	2	\$ 10,000	\$ 20,000	\$ 6,359.81	\$ 12,719.62	(7,280.38)	\$ 10,300.00	\$ 20,600.00	600.00
16	REMOVE & SALVAGE ROCK RIPRAP	TN	247.2	\$ 95	\$ 23,484	\$ 31.43	\$ 7,769.50	(15,714.50)	\$ 10.00	\$ 2,472.00	(21,012.00)
17	PLACE NEW ROCK RIPRAP	TN	900	\$ 105	\$ 94,500	\$ 131.80	\$ 118,620.00	24,120.00	\$ 132.00	\$ 118,800.00	24,300.00
18	INSTALL PIEZOMETERS	EA	2	\$ 7,000	\$ 14,000	\$ 6,552.00	\$ 13,104.00	(896.00)	\$ 6,000.00	\$ 12,000.00	(2,000.00)
19	SEEDING	AC	1.53	\$ 8,000	\$ 12,240	\$ 13,104.00	\$ 20,049.12	7,809.12	\$ 3,400.00	\$ 5,202.00	(7,038.00)
TOTAL CONSTRUCTION				\$ 980,149	\$ 980,149	\$ 1,452,069.27	\$ 1,452,069.27	471,920.67	\$ 1,475,330.80	\$ 1,475,330.80	495,182.20

**SECTION 00410
BID FORM**

Project: **Wanahoo Dam Stilling Basin Rehabilitation**
Place: **Saunders County, Nebraska**
Date: 07/27/20

1. In compliance with your REQUEST FOR PROPOSALS dated July 13, 2020, and subject to all conditions thereof, the undersigned Valley Corporation, a Corporation incorporated in the State of Nebraska, hereby proposes to furnish and do everything required by the Contract Documents to which this refers at the lump sum or unit prices shown for each bid item on the following Bid Schedule. (The Bid Schedule lists the various divisions of construction contemplated in the Contract Documents, together with an estimate of the units of each for unit price items. With these units as the basis for unit cost items, the bidder will extend each item, using the cost he inserts in the unit column. Any total cost found inconsistent with the unit cost when the bids are examined will be deemed in error and corrected to agree with the unit cost which shall be considered correct.)

2. The undersigned bidder does hereby declare and stipulate that this proposal is made in good faith, without collusion or connection with any other person or persons bidding for the same Work, and that it is made in pursuance of and subject to all the terms and conditions of the Invitation to Bid and Instructions to Bidders, the Agreement, the Contract Drawings, and the Specifications pertaining to the Work to be done, all of which have been examined by the undersigned.

3. The undersigned has examined the location of the proposed Work, the Drawings, Specifications, and other Contract Documents and is familiar with the local conditions at the place where the Work is to be performed.

4. The undersigned bidder agrees to execute the Agreement and a Performance Bond and a Payment Bond for the amount of the total of this Bid within ten (10) calendar days from the date when the written Notice of the Award of the Agreement is delivered to him at the address given on this Bid. The name and address of the corporate surety with which the Bidder proposes to furnish the specified Performance and Payment Bonds is as follows:

Westfield Insurance Company
P.O. Box 5001, Westfield Center, OH 44251

5. All the various phases of Work enumerated in the Contract Documents with their individual jobs and overhead, whether specifically mentioned, included by implication or appurtenant thereto, are to be performed by the Contractor under one of the items listed in the Bid Schedule, irrespective of whether it is named in said list.

6. Payment for Work performed will be in accordance with the Bid Schedule subject to changes as provided in the Contract Documents.
7. The undersigned Bidder hereby acknowledges Addenda No. N/A through N/A.

PRICES:

The foregoing prices shall include all labor, materials, equipment, transportation, shoring, removal, dewatering, overhead, profit, insurance, permits, taxes, etc., to cover the completed Work in place of the several kinds called for.

BIDDER acknowledges that the Owner has the right to delete items in the Bid or change quantities at his sole discretion without affecting the Agreement or prices of any item so long as the deletion or change does not exceed twenty-five percent (25%) of the total Contract Amount.

QUANTITIES:

The approximate quantities of Work to be completed in place under the Agreement at unit prices are identified in the "Bid Schedule" and are for the purpose of comparing bids. These quantities have been estimated from the Contract Documents. The quantities used are for the general information of the bidder and represent the major items of the work to be done. Minor items and minor details are not listed but shall be part of the complete Agreement.

CONTRACT TIMES:

Contractor to detail any proposed changes to the contract times listed in Section 4.2 of the Contract Agreement, as specified in the Instructions to Bidders.

BID SCHEDULE:

SUMMARY OF APPROXIMATE QUANTITIES				
GENERAL BID ITEM DESCRIPTION:	QUANTITY	UNIT	UNIT PRICE	EXTENSION
Mobilization	1	LS	143,499.29	143,499.29
SWPPP	1	LS	44,553.60	44,553.60
Water Handling	1	LS	123,587.11	123,587.11
Excavation	400	CY	60.14	24,056.00
Filter Mix 1 Aggregate	1384	TN	184.37	255,168.08
Filter Mix 2 Aggregate	1148	TN	156.68	179,868.64
Sheet Pile	2072	SF	73.93	153,182.96
Pressure Grouting	175	CY	608.97	106,569.75
Concrete Baffle	74	CY	1,051.66	77,822.84
Baffle Reinforcement	1596.2	LB	5.96	9,513.35
Pre-Fabricated Steel Plate for Baffle	85	LF	119.69	10,173.65
Apron Anchor Bolts	16	EA	410.81	6,572.96
HDPE Gabions	14	EA	9,701.95	135,827.30
Gabion Anchoring System – Percussion Drive Anchors	14	EA	672.25	9,411.50
Gabion Anchoring System – Deadman/Cable System	2	EA	6,359.81	12,719.62
Remove & Salvage Rock Riprap	247.2	TN	31.43	7,769.50
Place New Rock Riprap	900	TN	131.80	118,620.00
Install Piezometers	2	EA	6,552.00	13,104.00
Seeding	1.53	AC	13,104.00	20,049.12
TOTAL				\$1,452,069.27


PROJECT SCHEDULE COMPLETION DATE NOTES:

(Add any comments about the ability to complete the project within the defined dates here.)

Valley Corp anticipated start would be during the Month of November 2020, final acceptance date as specified within the bid/contract documents of 31 May 2021 will remain the same.

Substantial completion date anticipated by end of February 2021.

RESPECTFULLY SUBMITTED:



07/27/20

Signature

Date

President

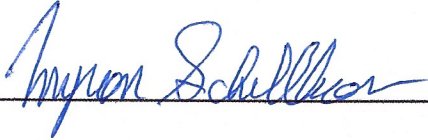
Title

21817

License Number (if applicable)

(SEAL - IF BID is by a corporation)

Attest



Address: 28001 Ida Circle, PO Box 589

Valley, NE 68064

Telephone: 402-359-2578



PHONE:
402.359.2578

EMAIL:
info@valleycorp.com

ADDRESS:
28001 Ida Circle, PO Box 589
Valley, NE 68064

Wanahoo Stilling Basin Rehab Subcontractor & Suppliers

1. Seeding- Commercial Seeding
2. Riprap- Martin Marietta
3. Sheet Pile - Trinity Products
4. Gabion Mattress - SJS Contraction
5. Anchors - Platipus
6. Filter Mix - Western Sand & Gravel
7. Piezometer - Olsson





PHONE:
402.359.2578

EMAIL:
info@valleycorp.com

ADDRESS:
28001 Ida Circle, PO Box 589
Valley, NE 68064

Wanahoo Stilling Basin Rehab

Previous Experience

1. Oakbrook Channel Rehab - Sheet Pile Drop Structures, CIP Impact Basin, Riprap Stabilization
Earthwork and Storm Sewer Improvements
Grouted Boulder Drop Structure
Owner: City of Omaha -Public Works
Engineer: Fyra Engineering/Mike Sotak
Contract Value : \$717,173.16
2. Hell Creek - Channel Stabilization, Concrete Drop Structure with Sheet Piling, Grouted Boulder Drop Structure and Riprap Stabilization
Owner: Papio NRD - Eric Williams - (402) 444-6222
Engineer: FHU Engineering/Dave Lampe
Contract Value : \$754,653.37
3. West Papio Trail (Giles Rd to Millard)- Trail Construction, Steel Erection, Outfall Construction, Utility Construction & Bank Stabilization
Owner: Papio NRD - Eric Williams - (402) 444-6222
Engineer - Big Muddy Workshop/Brian Pecka
Contract Value : \$2,712,822.38
4. ZB-2 Water Quality Dam Basin No. 2- Dam Embankment Construction, Baffled Weir Structure, Riprap Protection and Stilling Basin
Owner: Papio NRD - Amanda Grint - (402) 444-6222
Engineer: HDR Engineering
Contract Value : \$4,254,983.97



SECTION 00410
BID FORM

Project: **Wanahoo Dam Stilling Basin Rehabilitation**

Place: **Saunders County, Nebraska**

Date: July 28, 2020

1. In compliance with your REQUEST FOR PROPOSALS dated July 28, 2020, and subject to all conditions thereof, the undersigned M. E. Collins Contracting Co., Inc., a Corporation incorporated in the State of Nebraska, hereby proposes to furnish and do everything required by the Contract Documents to which this refers at the lump sum or unit prices shown for each bid item on the following Bid Schedule. (The Bid Schedule lists the various divisions of construction contemplated in the Contract Documents, together with an estimate of the units of each for unit price items. With these units as the basis for unit cost items, the bidder will extend each item, using the cost he inserts in the unit column. Any total cost found inconsistent with the unit cost when the bids are examined will be deemed in error and corrected to agree with the unit cost which shall be considered correct.)

2. The undersigned bidder does hereby declare and stipulate that this proposal is made in good faith, without collusion or connection with any other person or persons bidding for the same Work, and that it is made in pursuance of and subject to all the terms and conditions of the Invitation to Bid and Instructions to Bidders, the Agreement, the Contract Drawings, and the Specifications pertaining to the Work to be done, all of which have been examined by the undersigned.

3. The undersigned has examined the location of the proposed Work, the Drawings, Specifications, and other Contract Documents and is familiar with the local conditions at the place where the Work is to be performed.

4. The undersigned bidder agrees to execute the Agreement and a Performance Bond and a Payment Bond for the amount of the total of this Bid within ten (10) calendar days from the date when the written Notice of the Award of the Agreement is delivered to him at the address given on this Bid. The name and address of the corporate surety with which the Bidder proposes to furnish the specified Performance and Payment Bonds is as follows:

Universal Surety Company
P.O. Box 80468
Lincoln, NE 68501

5. All the various phases of Work enumerated in the Contract Documents with their individual jobs and overhead, whether specifically mentioned, included by implication or appurtenant thereto, are to be performed by the Contractor under one of the items listed in the Bid Schedule, irrespective of whether it is named in said list.

6. Payment for Work performed will be in accordance with the Bid Schedule subject to changes as provided in the Contract Documents.
7. The undersigned Bidder hereby acknowledges Addenda No. ___ through ___.

PRICES:

The foregoing prices shall include all labor, materials, equipment, transportation, shoring, removal, dewatering, overhead, profit, insurance, permits, taxes, etc., to cover the completed Work in place of the several kinds called for.

BIDDER acknowledges that the Owner has the right to delete items in the Bid or change quantities at his sole discretion without affecting the Agreement or prices of any item so long as the deletion or change does not exceed twenty-five percent (25%) of the total Contract Amount.

QUANTITIES:

The approximate quantities of Work to be completed in place under the Agreement at unit prices are identified in the "Bid Schedule" and are for the purpose of comparing bids. These quantities have been estimated from the Contract Documents. The quantities used are for the general information of the bidder and represent the major items of the work to be done. Minor items and minor details are not listed but shall be part of the complete Agreement.

CONTRACT TIMES:

Contractor to detail any proposed changes to the contract times listed in Section 4.2 of the Contract Agreement, as specified in the Instructions to Bidders.

BID SCHEDULE:

SUMMARY OF APPROXIMATE QUANTITIES				
GENERAL BID ITEM DESCRIPTION:	QUANTITY	UNIT	UNIT PRICE	EXTENSION
Mobilization	1	LS	130,690.-	130,690.-
SWPPP	1	LS	10,000.-	10,000.-
Water Handling	1	LS	142,960.-	142,960.-
Excavation	400	CY	33.-	13,200.-
Filter Mix 1 Aggregate	1384	TN	66.-	91,344.-
Filter Mix 2 Aggregate	1148	TN	94.-	107,912.-
Sheet Pile	2072	SF	99.-	205,128.-
Pressure Grouting	175	CY	1,008.-	176,400.-
Concrete Baffle	74	CY	2,731.-	202,094.-
Baffle Reinforcement	1596.2	LB	4.-	6,384.80
Pre-Fabricated Steel Plate for Baffle	85	LF	132.-	11,220.-
Apron Anchor Bolts	16	EA	955.-	15,280.-
HDPE Gabions	14	EA	13,053.-	182,742.-
Gabion Anchoring System – Percussion Drive Anchors	14	EA	1,473.-	20,602.-
Gabion Anchoring System – Deadman/Cable System	2	EA	10,300.-	20,600.-
Remove & Salvage Rock Riprap	247.2	TN	10.-	2,472.-
Place New Rock Riprap	900	TN	132.-	118,800.-
Install Piezometers	2	EA	6,000.-	12,000.-
Seeding	1.53	AC	3,400.-	5,202.-
			TOTAL	\$1,475,330.80

PROJECT SCHEDULE COMPLETION DATE NOTES:

(Add any comments about the ability to complete the project within the defined dates here.)

Commence work in early November with work proceeding until completion depending on weather restrictions. Complete by May 2021

RESPECTFULLY SUBMITTED:

Signature

Jerry Kaborsek

Date

July 28, 2000

Title

V.P.

21303

License Number (if applicable)

(SEAL - IF BID is by a corporation)

Attest

Address:

Telephone:

A. Ramann

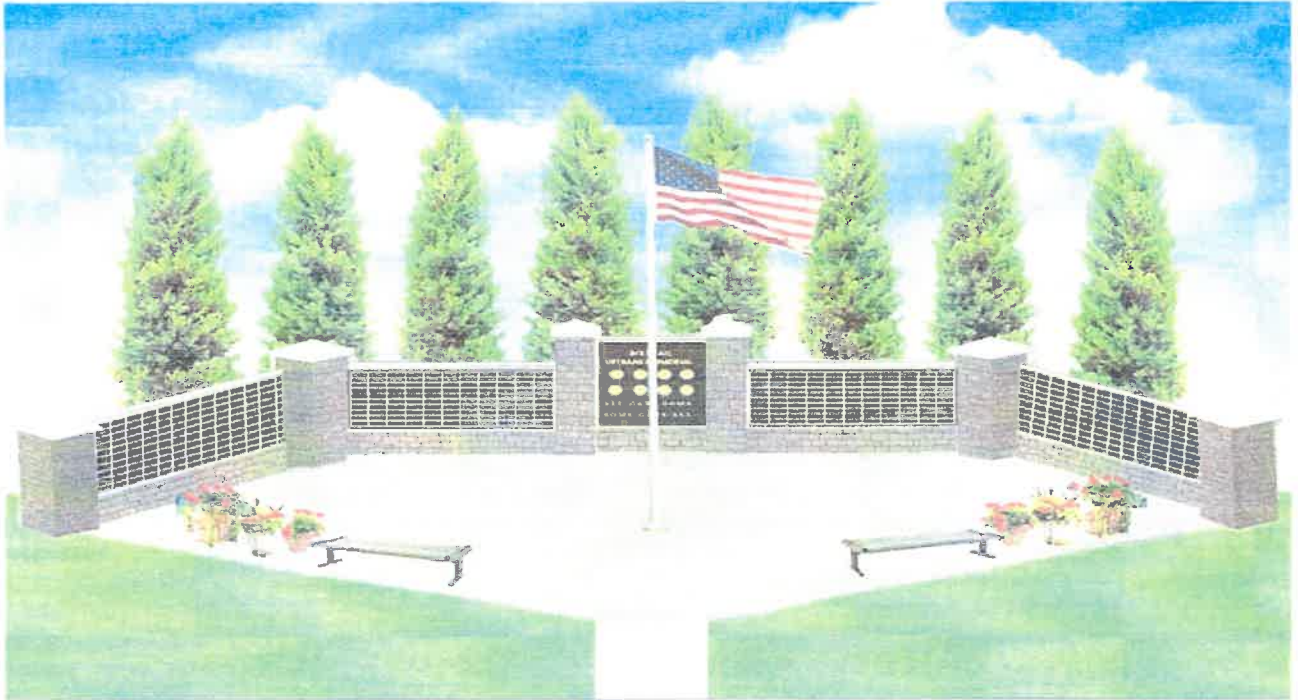
P.O. Box 83

Wahoo, NE 68064

402-443-3663

ROLLCALL VETERANS MEMORIAL AT NEWMAN GROVE, NE

REQUEST FOR TREE FUNDING



WHO: American Legion Post 73
P.O. Box 73
Newman Grove, NE 68758

CONTACT: Charles Borg
PHONE: 402-920-1783

WHAT: Rollcall Veteran's Memorial at Newman Grove Project
Funding from Lower Platte North NRD Requested is for Trees ONLY

WHEN: The timeline for this project began in 2018 with Ideas/Plans/Fundraising for this impressive memorial to all Veteran's. The Legion has been raising the \$90,000 plus for two years by selling Veteran's Tiles (see "Rollcall" form), Donations/Solicitations, Tractor Pulls, Raffles, etc. The contractor is to start construction of the main memorial wall project in July 2020 to be completed for the dedication November 11, 2020, this Veteran's Day. The Legion would like to have the trees spaded in before the dedication. This project is a work in progress with continuous fundraising to eventually add statues and more flags. Sale of the tiles will be ongoing to honor the Veterans named at this and all Veterans.

WHERE: The location of the Memorial Wall is on Hale (Main Street) and Highway 45. Anyone traveling to or through Newman Grove will see this beautiful monument. Our business district, a church, Library and school system will add to the area traffic.

WHY: The American Legion Post 73 is honoring all Veteran's for their service to this nation. The addition of this memorial will also add to the beauty of Newman Grove and compliment the new and renovated Newman Grove Elementary and High School. The Fire and Rescue is located just ½ a block south on the Highway.

BUDGET AND REQUEST: The plan upon completion of the wall construction, is to purchase eight 6-foot conifer trees to be spaded in by the nursery. The cost is estimated for purchase and planting at \$300/tree x 8=\$2400.00. The American Legion Post 73 is requesting the maximum allowed \$1000.00 from the Lower Platte North NRD to assist with the trees for this project. Planting will be this fall and enjoyed at the dedication in November. The American Legion Post 73 is grateful for all assistance provided to this project honoring All Veterans for their Service to our Nation.

'ROLLCALL'

VETERANS MEMORIAL AT NEWMAN GROVE

Honor your loved one with a personalized granite tile at the ROLLCALL Veterans Memorial located in Newman Grove, NE

1. Complete each row in One letter per square. (Maximum of 18 Characters per row. Spaces and punctuation count as characters.) (Last name, Rank, Branch of Service, Campaign, Date of Service)
 2. Mail completed form to: American Legion Post 73, PO Box 73, Newman Grove, NE 68701-0073
 3. Please be sure to enclose check in the amount of \$100.00 payable to: "Rollcall Veterans Memorial Fund"
 4. Fill in contact information below in the event there are questions regarding your request.
- *Please note: There cannot be a guaranteed location on the tile and we reserve the right to improve the finished memorial.

LINE 1

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

LINE 2

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LINE 3

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Examples



Contact Information:

Name: _____ Please consider making an additional donation

Address: _____ Additional Donation Enclosed \$ _____

Phone: _____

Email: _____

Office Use Only
Date Received: _____ Amount Enclosed: _____ Contact: _____

THANK YOU FOR YOUR CONSIDERATION

Variance Requests for New & Expanded Irrigated Acres

Applications for new and expanded irrigated acres in Restricted and Non-Hydrologically Connected Areas due August 15th.
Hydrologically Connected Areas due September 15th.



LOWER PLATTE NORTH
Natural Resources District



News Channel Nebraska
 214 N. 7th St. Suite 1
 Norfolk, NE 68701
 (402)-371-0100

News Channel Nebraska Invoice

Invoice ID: 20060149
 Invoice Date: 6/30/2020
 Account ID: 0552
 Order ID: 0552-001
 Account Rep: All Fuchtmann

Amount Due: \$0.00

Amount Paid: _____

LOWER PLATTE NRD

Please remit payment to:
 214 N. 7th St. Suite 1
 Norfolk, NE 68701

Sponsor: Lower Platte NRD / Lower Platte NRD - News Sponsor
 Lower Platte NRD - News Sponsor

Date	Description	Times	Times	Times	Times	Times	Qty	Rate	Cost
6/1/2020	:05 Bonus	08:01 AM					1	[Package]	[Package]
6/1/2020	:05 Spot	09:53 AM	07:31 PM				2	[Package]	[Package]
6/2/2020	:05 Bonus	03:06 AM					1	[Package]	[Package]
6/2/2020	:05 Spot	08:06 AM	10:06 PM				2	[Package]	[Package]
6/3/2020	:05 Bonus	05:32 AM					1	[Package]	[Package]
6/3/2020	:05 Spot	12:31 PM	05:16 PM				2	[Package]	[Package]
6/3/2020	:30 Bonus	01:13 AM					1	[Package]	[Package]
6/3/2020	:30 Spot	06:57 AM	01:43 PM	07:46 PM			3	[Package]	[Package]
6/4/2020	:05 Bonus	05:31 AM					1	[Package]	[Package]
6/4/2020	:05 Spot	09:31 AM	03:31 PM				2	[Package]	[Package]
6/4/2020	:30 Bonus	01:24 AM					1	[Package]	[Package]
6/4/2020	:30 Spot	06:58 AM	02:15 PM	07:13 PM			3	[Package]	[Package]
6/5/2020	:05 Bonus	04:30 PM					1	[Package]	[Package]
6/5/2020	:05 Spot	09:32 AM	11:31 AM				2	[Package]	[Package]
6/5/2020	:30 Bonus	02:14 AM					1	[Package]	[Package]
6/5/2020	:30 Spot	12:43 PM	06:41 PM	10:23 PM			3	[Package]	[Package]
6/8/2020	:05 Bonus	04:06 PM					1	[Package]	[Package]
6/8/2020	:05 Spot	10:06 AM	07:06 PM				2	[Package]	[Package]
6/9/2020	:05 Bonus	01:32 AM					1	[Package]	[Package]
6/9/2020	:05 Spot	09:06 AM	02:31 PM				2	[Package]	[Package]
6/10/2020	:05 Bonus	12:06 AM					1	[Package]	[Package]
6/10/2020	:05 Spot	09:30 AM	02:31 PM				2	[Package]	[Package]
6/10/2020	:30 Bonus	02:24 AM					1	[Package]	[Package]
6/10/2020	:30 Spot	06:48 AM	05:14 PM	10:15 PM			3	[Package]	[Package]
6/11/2020	:05 Bonus	03:32 AM					1	[Package]	[Package]
6/11/2020	:05 Spot	08:06 AM	03:32 PM				2	[Package]	[Package]
6/11/2020	:30 Bonus	12:58 AM					1	[Package]	[Package]
6/11/2020	:30 Spot	12:25 PM	02:12 PM	10:59 PM			3	[Package]	[Package]
6/12/2020	:05 Bonus	03:32 AM					1	[Package]	[Package]
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6/30/2020	Package						1	0.00	0.00

Continued

News Channel Nebraska Invoice

Invoice ID: 20060149
Invoice Date: 6/30/2020

Sponsor: Lower Platte NRD / Lower Platte NRD - News Sponsor
Lower Platte NRD - News Sponsor

Date	Description	Times	Times	Times	Times	Times	Qty	Rate	Cost
	69 Total Items						Total Cost:		\$0.00

Amount Due: \$0.00



News Channel Nebraska
 214 N. 7th St. Suite 1
 Norfolk, NE 68701
 (402)-371-0100

News Channel Nebraska Invoice

Invoice ID: 20060149
 Invoice Date: 6/30/2020
 Account ID: 0552
 Order ID: 0552-001
 Account Rep: All Fuchtmann

Amount Due: \$0.00

Amount Paid: _____

LOWER PLATTE NRD

Please remit payment to:
 214 N. 7th St. Suite 1
 Norfolk, NE 68701

Sponsor: Lower Platte NRD / Lower Platte NRD - News Sponsor
 Lower Platte NRD - News Sponsor

Date	Description	Times	Times	Times	Times	Times	Qty	Rate	Cost
6/1/2020	:05 Bonus	08:01 AM					1	[Package]	[Package]
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6/3/2020	:05 Bonus	05:32 AM					1	[Package]	[Package]
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6/10/2020	:30 Spot	06:48 AM	05:14 PM	10:15 PM			3	[Package]	[Package]
6/11/2020	:05 Bonus	03:32 AM					1	[Package]	[Package]
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6/30/2020	Package						1	0.00	0.00

Continued

News Channel Nebraska Invoice

Invoice ID: 20060149
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Sponsor: Lower Platte NRD / Lower Platte NRD - News Sponsor
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Date	Description	Times	Times	Times	Times	Times	Qty	Rate	Cost
	69 Total Items						Total Cost:		\$0.00

Amount Due: \$0.00

Wachiska Audubon Society

Southeast Nebraska Chapter of the National Audubon Society

4547 Calvert Street • Suite 10 • Lincoln NE 68506-5643
402.486.4846 • office@WachiskaAudubon.org

July 28, 2020

Eric Gottschalk, General Manager
Lower Platte North Natural Resources District
Wahoo NE



Wachiska
Audubon Society

Dear Mr. Gottschalk:

We would like to request a pledge from the Lower Platte North NRD to assist the Wachiska Audubon Society in acquiring a grant from the Nebraska Environmental Trust (NET).

Wachiska Audubon's Prairie Program is growing. We know we must have a paid part-time prairie manager to handle the responsibilities of our 33 native prairies in the future. We can no longer rely on volunteers alone to do the work. To achieve this goal, we will be applying for a grant to the NET on September 1 that will allow us to hire a part-time prairie manager. We will be asking the NET for a grant of \$191,200 over a three-year period (average of \$63,700/year) for salary and benefits. This is a first step toward our ultimate goal which is to complete a self-supporting endowment fund that will fund the position. We are continuing to raise funds for this self-maintaining fund at the Lincoln Community Foundation.

In order to have the best chance of success with our NET application, Wachiska will be matching the requested amount with a pledge of our own of \$72,600/year, or approximately \$217,800 over three years). Our matching pledge will be for taking care of the non-salary part of our prairie program such as the costs of materials, supplies, property taxes, and costs of outside contractors. Much of our pledge involves in-kind donations (\$40,000/year) for volunteer administration and organization work (developing haying and other contracts, maintaining records), and volunteer labor of many kinds (monitoring prairies, spot weed spraying and cutting, fence building, tree cutting, prescribed burning).

We are asking the Lower Platte North NRD to help us with the cash portion of our match by making a partial matching donation pledge of \$4,300/single year with the right to apply again for similar amounts in years two and three of the NET grant. This amount would contribute toward paying our expenses involving outside contractors (tree removal, spot weed spraying, etc.). No funds would change hands until our grant is approved by the NET in April 2021. We will be asking for assistance from the Lower Platte South NRD as well. Thank you for considering our request.

I will be attending your Zoom board meeting this Thursday, July 30.

Sincerely,

Tim Knott
Wachiska Audubon Society, Lincoln NE
wachiskaoffice2@gmail.com, cell – 402-217-8505

cc: Tom Mountford
Lacey Sabatka

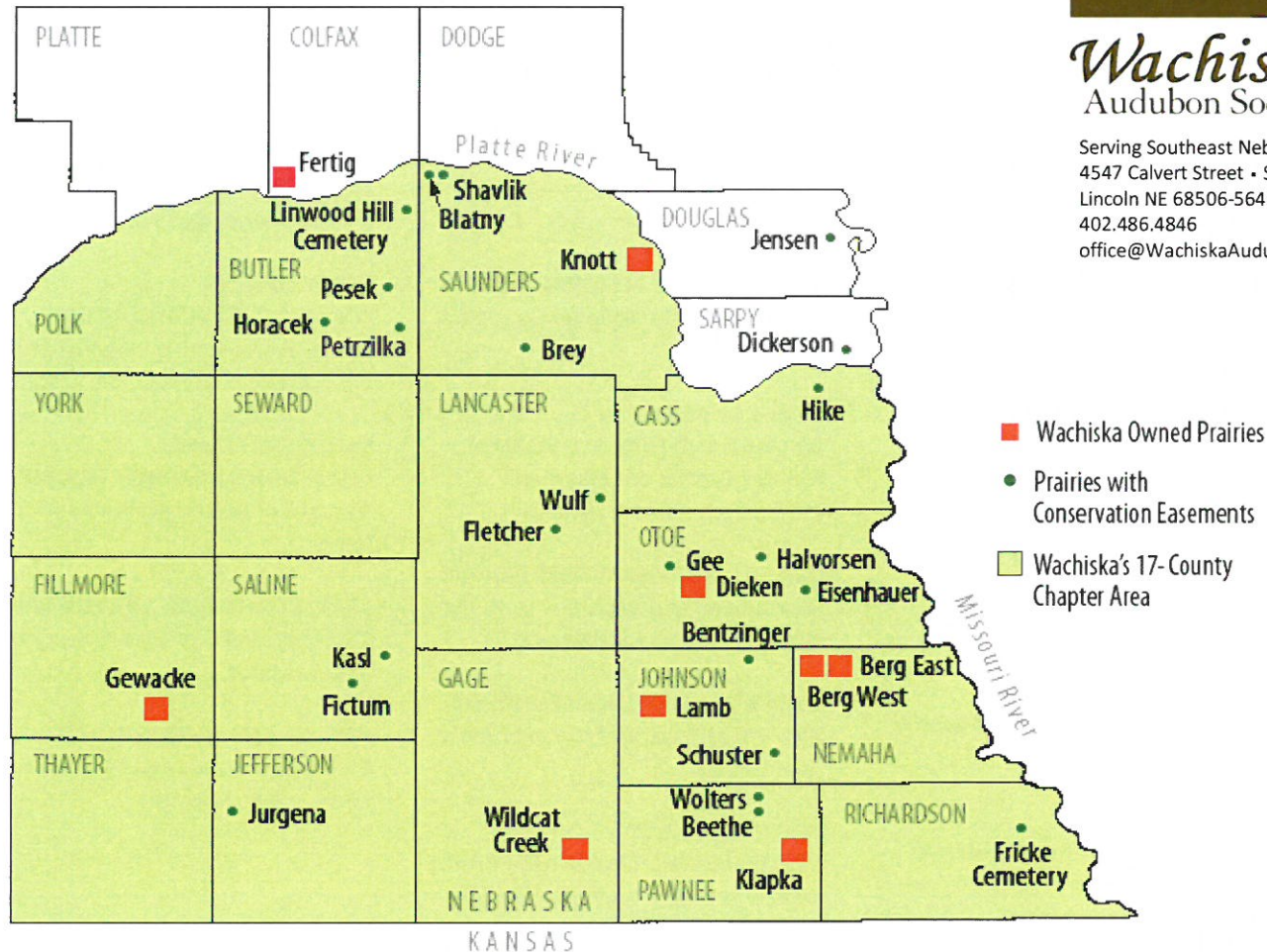
Prairies Protected by Wachiska Audubon Society

As of August 2017



Wachiska
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402.486.4846
office@WachiskaAudubon.org



WACHISKA-OWNED PROPERTIES

COLFAX COUNTY

CLARENCE AND RUTH FERTIG TALLGRASS PRAIRIE 43.35 acres of Platte River floodplain prairie near Richland

FILLMORE COUNTY

CLYDE AND THELMA GEWACKE PRAIRIE 11.36 acres of lowland prairie near Ohiowa

Conservation easements held by Wachiska listed on reverse side

GAGE COUNTY

WILDCAT CREEK TALLGRASS PRAIRIE 32 acres of upland and lowland prairie plus approx. 48 acres of cropland and woodland near Virginia

JOHNSON COUNTY

IVAN A. & IVAN F. LAMB TALLGRASS PRAIRIE 4 acres of upland prairie near Sterling

NEMAHA COUNTY

BERG PRAIRIE EAST 9.88 acres of lowland prairie near Talmage

BERG PRAIRIE WEST 11.7 acres of lowland/upland prairie near Talmage

OTOE COUNTY

HENRY DIEKEN TALLGRASS PRAIRIE 14.27 acres of upland prairie near Unadilla

PAWNEE COUNTY

ELMER KLAPKA FARM AND PRAIRIES Four tracts of native prairie totaling 30 acres plus 200 acres of native pasture and an additional 170 acres of crop and pasture land. Total 400 acres near Table Rock

SAUNDERS COUNTY

KNOTT TALLGRASS PRAIRIE 21 acres of lowland prairie near Yutan

PRAIRIES WITH CONSERVATION EASEMENTS HELD BY WACHISKA

BUTLER COUNTY

DON AND HELEN HORACEK

TALLGRASS PRAIRIE 7.5 acres of upland prairie near Brainard

KEVIN AND DONNA PETRZILKA

TALLGRASS PRAIRIE 30 acres of upland prairie near Brainard

LINWOOD HILL CEMETERY PRAIRIE

5.23 acres of upland prairie near Linwood

PESEK MEMORIAL PRAIRIES Three upland prairie parcels totaling about 3 acres near Brainard

CASS COUNTY

ROBERT J. HIKE TALLGRASS PRAIRIE

8.83 acres of upland prairie near Plattsmouth

DOUGLAS COUNTY

JENSEN PRAIRIE 6.8 acres of upland prairie near Omaha

JEFFERSON COUNTY

HARVEY AND SHARON JURGENA

PRAIRIE 40 acres of upland prairie and woods near Fairbury

JOHNSON COUNTY

LOUIS AND GRACE BENTZINGER

TALLGRASS PRAIRIE 13.5 acres of upland and lowland prairie near Cook

KENDALL AND LISA SCHUSTER

PRAIRIE 4.8 acres of upland prairie near Elk Creek

LANCASTER COUNTY

HENRY WULF TALLGRASS PRAIRIE

4.15 acres of upland prairie near Eagle

LARRY AND PEG FLETCHER PRAIRIE

25 acres of restored tallgrass prairie near Walton

OTOE COUNTY

FORREST AND DOLL HALVORSEN

PRAIRIE 8 acres of upland and lowland prairie near Syracuse

DWIGHT AND ELLIOTT GEE PRAIRIE

Four upland prairie parcels totaling about 30 acres near Palmyra

DWIGHT AND LINDA EISENHAUER

PRAIRIE 11.3 acres of upland prairie near Lorton

PAWNEE COUNTY

VERLYN BEETHE TALLGRASS PRAIRIE

24 acres of upland prairie near Elk Creek

EDWIN AND LEONA WOLTERS

TALLGRASS PRAIRIE 40 acres of upland prairie near Elk Creek

RICHARDSON COUNTY

FRICKE CEMETERY PRAIRIE

5.19 acres of upland prairie near Falls City

SALINE COUNTY

RICHARD KASL TALLGRASS PRAIRIE

6.61 acres of upland and lowland prairie near Wilber

DWIGHT AND SHIRLEY FICTUM

TALLGRASS PRAIRIE 18.1 acres of upland prairie near Wilber

SARPY COUNTY

TOM DICKERSON AND PATTY

SHANAHAN PRAIRIE 14 acres of upland bluff prairie near Papillion

SAUNDERS COUNTY

PHILIP AND ANNA BREY PRAIRIE

11 acres of upland prairie near Ceresco

STANLEY AND JEAN SHAVLIK PRAIRIE

18.84 acres of wet-meadow prairie near Linwood

ADRIAN AND GLADYS BLATNY

PRAIRIE 35 acres of wet-meadow prairie near Linwood

ABOUT CONSERVATION EASEMENTS

As a nonprofit conservation education organization, the Wachiska Audubon Society is dedicated to protecting native grasslands, wetlands, and woodlands in Southeast Nebraska. One of the tools available to landowners is a conservation easement. These are flexible agreements between Wachiska and an interested landowner to maintain property in its natural state in perpetuity. Easements on grassland or prairie land do not interfere with haying or grazing but protects the land from conversion to cropland or development.

If you or someone you know would be interested in protecting native grassland, the Wachiska office can direct you to those with more information. If you'd like to see what a conservation easement looks like in your area, let us know. We will put you in contact with one of our conservation partners.



Wachiska
Audubon Society

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Vision Statement

Wachiska Audubon Society's vision is to share the experience and love of nature—that life may flourish in all its natural diversity.

Mission Statement

The mission of the Wachiska Audubon Society is to preserve and restore native grasslands and other natural ecosystems, promote birding, support native wildlife, provide nature education opportunities, and advocate on behalf of our natural environment and sustainability, especially in Southeastern Nebraska.

Overall Goals

1. Connect children and adults with nature

When you connect with our natural world you learn to love and respect it. Wachiska's programs for children include our annual Bird EnCOUNTER; Prairie Discovery Days where children meet the plants, insects, and wildlife of Nebraska prairies; and annual crane viewing field trips. Our monthly programs feature speakers on a wide variety of environmental topics. Numerous field trips and special events such as the Christmas Bird Count, Birdathon, and Garden Tour draw thousands of people from the community. Wachiska supports many environmentally oriented organizations and community events.

2. Advocate for the protection of our natural world on local, state, and national levels

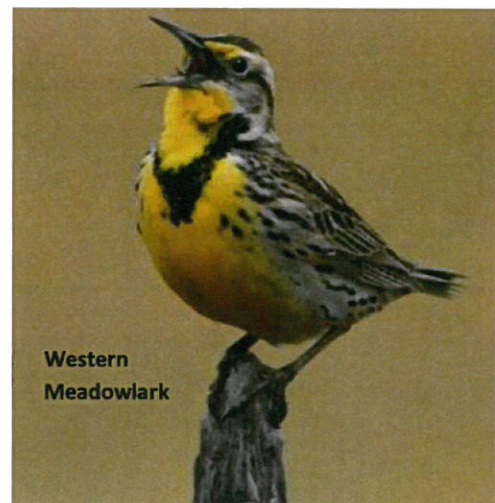
Wachiska is an active and well-respected voice in local and state policy development. We have a long record of influencing conservation issues including in-stream water rights and water-use regulations, protecting the Platte and Niobrara rivers from unchecked development, and advocating for appropriate power line siting. We stay connected with local and state legislators and government officials as we advocate for green energy and a meaningful response to climate change.

3. Preserve native tallgrass prairie parcels in and around our chapter area

The Wachiska Audubon Society is recognized locally and nationally for our successful efforts to preserve native tallgrass prairie in and around our membership area. We currently preserve nearly 1,000 acres of prairie both through direct ownership of high-quality prairies and by holding and monitoring easements on additional prairie parcels. Many of these prairies are regularly used for educational field trips by local schools and community colleges, and for events which promote the history and current value of these important natural areas. Our goal is to protect prairie parcels in each of the 17 counties of our chapter area in Southeast Nebraska.

Field Trip

Photo provided by WAS member John Carlini



Western
Meadowlark

Photo by WAS member Bruch Wendorff 200 8-17

Ways to Give to the Wachiska Audubon Society

Current Donations

A current gift helps us act now; to improve our outreach, conservation and education efforts, and to protect more of the fast-disappearing tallgrass prairie.

- **Memorials** – Remember a loved one or commemorate a milestone event with a gift to Wachiska Audubon Society in that person’s name.
- **IRA Required Minimum Distributions (RMDs)** can be given directly to Wachiska and the donor avoids taxes on that distribution.
- **Donate Securities** – Gifting stocks, bonds, or mutual funds to Wachiska Audubon Society not only helps our chapter, it may provide significant financial benefits to you and your family by reducing capital gains, estate, or income taxes.
- **Charitable IRA Rollover** – Individuals 70.5 and older can transfer up to \$100,000 of IRA assets to Wachiska Audubon Society tax free.
- **Charitable Gift Annuity** – You can receive a guaranteed lifetime income payment in return for a transfer of cash, stock, or real estate to Wachiska.

A Donation from your Estate

A gift from your estate will support Wachiska Audubon Society’s work in the future and secure your legacy of supporting environmental conservation during and beyond your lifetime. If you would like to help in this way, there are many ways to do so:

- **Bequest** – Name Wachiska Audubon Society in your will or trust.
- **IRA or Life Insurance** – Designate Wachiska Audubon Society as a full or partial beneficiary (or contingent beneficiary) on any IRA, retirement, or life insurance plan.
- **Life Estate with Remainder Interest** – You can give future interest in an asset (example, a home) to Wachiska Audubon Society, while retaining the right to use that asset for your lifetime.
- **Charitable Remainder Trust** – Establish a trust that provides income, during or after your lifetime, to the beneficiary of your choice (may be yourself), and the remaining value of the trust goes to Wachiska Audubon Society.

If you include Wachiska Audubon Society in your estate plan, we hope you will contact us, so we can thank you and honor your wishes appropriately.

Employer Matching Programs

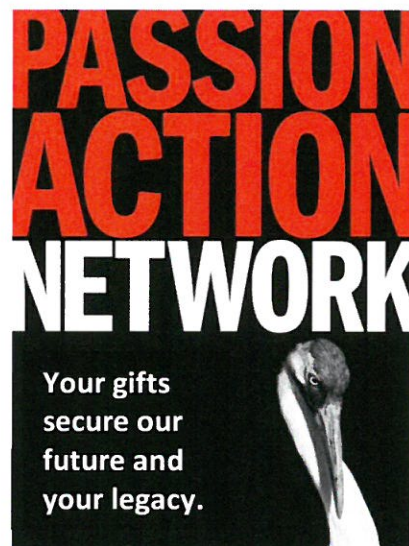
Many employers offer charitable giving matching programs to their employees. These programs usually match your donation dollar for dollar to the qualified organization of your choice. If your employer offers a matching program, your donation could be twice as valuable to Wachiska Audubon Society. Check with your employer’s Human Resources Department to see if they match charitable gifts.

Wachiska works closely with the Lincoln Community Foundation and Nebraska Community Foundation and can provide you with additional information on these and other types of charitable gifts.



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Wachiska is a Qualified Charitable Organization
Wachiska Audubon Society was chartered in 1973 as an independent chapter of the National Audubon Society.

Wachiska is a qualified 501(c)(3) Charitable Organization,
TIN 51-0229888.

Prairie Management Fund

The tallgrass prairie was the landscape that greeted the pioneers when they arrived on the Great Plains. But today, less than two percent of the tallgrass prairie remains. Over 20 years ago, Wachiska Audubon Society set the goal to preserve an educational prairie in each of the 17 Southeastern Nebraska counties that comprise our membership area. We have come a long way toward reaching that goal!

Wachiska is recognized locally and nationally for our successful efforts to preserve tallgrass prairie and educate people as to its value. We currently protect and preserve nearly 1,000 acres of prairie through:

- **Direct ownership of high-quality prairies (nearly 500 acres).**
- **Monitoring conservation easements on dozens of additional prairie parcels.**

Many of our prairies are used for educational field trips by local schools and community colleges and for events which promote the history and value of these important natural areas.

The prairies we own were purchased primarily with funds from our generous donors and funders. We work hard to make our prairies as self-supporting as possible. Generally, we are able to pay the property taxes with revenues from carefully monitored haying and grazing. Some expenses have been covered by grants. Yet the maintenance and restoration expenses and the work hours required are considerable, and these demands are difficult to meet with our current all-volunteer efforts.

Wachiska is one of the few Audubon chapters which manage as many acres of prairie as we do with all volunteers. To sustain this effort, we are reaching the point where we need to hire a part-time prairie manager or a full-time executive director to lead the prairie management effort.

Wachiska has established the Prairie Management Fund, with socially-responsible investments managed by the Lincoln Community Foundation. Our \$1 million goal will create a sustainable fund to:

- **First, pay for a part-time land manager to coordinate maintenance and restoration activities supervised by Wachiska's Conservation Committee.**
- **Second, when we reach our \$1 million goal, turn this fund into an endowment which will generate funds for additional staff positions such as a volunteer coordinator, a grant writer, or an executive director.**

We cannot do this without your support. Your gifts, whether given now or through your estate, will help Wachiska continue to protect and preserve tallgrass prairie in Nebraska, a legacy dear to all those who value protecting our natural environment.

For more information on how you can give, please contact Wachiska's Donor Development Committee, the Lincoln Community Foundation, or your attorney.

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Wachiska is one of the few organizations that will accept and monitor conservation easements for smaller prairie parcels, making our work extremely valuable in protecting the little remaining prairie we have, especially in Eastern Nebraska where urban development and agricultural expansion threaten nearly every acre of remaining unplowed prairie. Yet the fact that we monitor numerous small prairie parcels means our responsibilities are very time consuming. It is much more difficult to monitor 25 small prairies than a few larger parcels. **We need your help to continue to protect this valuable tallgrass prairie.**



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Prairie Management and Education Activities

Wachiska Audubon Society protects tallgrass prairie within and around our 17-county chapter area, through both direct ownership and by establishing and holding conservation easements with other private land owners. Chapter member volunteers currently oversee and care for the prairies under Wachiska's stewardship and provide numerous educational opportunities. These efforts have been conservatively estimated to require over 1,500 volunteer hours each year. The following is a brief overview of Wachiska's prairie conservation and management efforts:

1. Wachiska-owned prairie land management

As of the fall of 2017, Wachiska Audubon Society and its Wachiska Audubon Land Management LLC own eight properties comprising nearly 500 acres of virgin or restored prairie plus a small amount of cropland targeted for restoration. Carefully monitored grazing and haying are desirable methods of keeping prairie healthy and diverse and provides income that covers the property taxes and some maintenance expenses of the properties. Wachiska develops and carries out annual management plans for each property. These plans are implemented through active management by Wachiska as well as through written agreements with tenants and/or renters of Wachiska-owned land.

Wachiska-owned prairie management includes:

- a. Continued protection of desirable prairie characteristics and property boundaries
- b. Evaluation of the ecological status through plant inventories and monitoring inspections
- c. Evaluation and control of invasive species, including noxious weeds
- d. Arranging for prescribed burns and tree removal
- e. Fence- and water-line maintenance
- f. Prairie sign installation and maintenance
- g. Negotiation of agreements and legal contracts with tenants/renters, and for the sale of hay and grassland commodities
- h. Arranging for research, application, and management of state, federal, and special grants for property management and improvements



2. Monitoring of conservation easements held by Wachiska Audubon Society

Land owners have entrusted Wachiska Audubon to hold the conservation easements that they have placed on prairie parcels. As of the fall of 2017, we hold 21 easements within the 17-county chapter area, plus three outside but immediately adjacent to the chapter area. Wachiska conscientiously enacts the responsibilities and obligations as the easement holder for regularly inspecting each property and providing written documentation of inspection results, along with recommendations, to the owners and tenants.

Continued on reverse side.



As the easement holder, Wachiska has the obligation and responsibility to:

- a. Assure that all parties (current land owners and/or tenants) conform to the terms of the easement agreement
- b. Assure that boundaries described in the prairie easement agreement are being respected
- c. Monitor and inspect the easements to assure grazing and use guidelines are in compliance with the agreement
- d. Monitor to prevent and inhibit unauthorized use of herbicides and pesticides
- e. Detect the presence of, and recommend remedies for, invasive species and noxious weeds
- f. Assure that the overall ecological health and integrity of the prairie is being maintained
- g. Pursue legal defense of the conservation easements, where and if necessary

3. Promoting educational opportunities

In addition to simply protecting increasingly rare tallgrass prairie, Wachiska acts to promote and arrange for the use of the Wachiska-owned prairie properties to further our educational commitment. These educational activities include:

- a. Allowing local schools and colleges to use Wachiska prairies for educational field trips
- b. Supporting student and professional researchers conducting prairie research
- c. Hosting educational-oriented programs and activities on Wachiska prairies such as our Prairie Discovery Days, Bikes & Birds events, birdwatching field trips, native plant seed gathering, and other events which connect youth and adults with the wonders of Nebraska's tallgrass prairies



Please support our Prairie Management Fund

In 2015, Wachiska established the Prairie Management Fund with initial contributions of over \$100,000. Our goal is to raise \$1 million to:

- First, pay for a part-time land manager to coordinate maintenance and restoration activities on Wachiska –owned prairies.
- Second, create an endowment which will generate funds for additional staff positions such as a volunteer coordinator or grant writer.

Your gifts, whether given now or through your estate, will help Wachiska continue to protect and preserve tallgrass prairie in Nebraska, a legacy dear to all those who value protecting our natural environment.

Please help support Wachiska's prairie management and education activities. For more information on how you can give or get involved, please contact Wachiska.

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Join now! Become a Friend of Wachiska Audubon Society!

This local chapter membership provides you with voting privileges and access to all our events, programs, and committees, **plus 100 percent of your membership donation goes directly to the Wachiska chapter. In addition, Friend members receive our monthly printed newsletter, *The Babbling Brook*.**

Select the level of support that is right for you and make your check to: **Wachiska Audubon Society.**

- | | |
|--|--------|
| <input type="checkbox"/> Friend of Wachiska Audubon | \$25 |
| <input type="checkbox"/> Family Friend Membership | \$35 |
| <input type="checkbox"/> Black-capped Chickadee Friend | \$50 |
| <input type="checkbox"/> Northern Cardinal Friend | \$100 |
| <input type="checkbox"/> Western Meadowlark Friend | \$250 |
| <input type="checkbox"/> Bald Eagle Friend | \$500 |
| <input type="checkbox"/> Peregrine Falcon Friend | \$1000 |

Please note: If you are already a member of National Audubon Society (NAS) you automatically become a member of Wachiska, but not a Wachiska Friend member. Only Wachiska Friends receive the printed monthly newsletter each month. If you wish to join NAS or receive *Audubon* magazine, please contact National Audubon Society directly.

NAME

ADDRESS

CITY STATE ZIP

PHONE

EMAIL

- I prefer to receive my newsletter by email.

Complete this form and mail check(s) to
Wachiska Audubon Society - Membership Committee
4547 Calvert St. Suite 10 - Lincoln NE 68506-5643

WACHISKA COMMITTEES

Wachiska members are welcome and encouraged to get involved with our active, dynamic organization by participating on our committees.

Conservation Committee – This committee's primary goal is the preservation of native habitat in Southeast Nebraska, specifically tallgrass prairie. Wachiska protects nearly 1,000 acres of tallgrass prairie through either direct ownership or with conservation easements, and our members provide essential volunteer services for the management of this land. Committee members also give prairie presentations to civic clubs, school groups, and other organizations.

Education Committee – You can help us create hands-on opportunities for children and adults to learn about nature at events on our prairies, in schools and libraries, and through field trips.

Population/Environment Committee – Wachiska members are involved in many community events, helping efforts to raise awareness and knowledge of issues related to sustainable living.

Legislation Committee – Chapter members stay informed about issues important to wildlife and people from the city, state, and national political arenas. We give support to a part-time lobbyist and network with other conservation groups to ensure Nebraska senators consider wildlife, habitat, and water when making legal decisions.

The **Finance Committee** works to maintain the chapter's continued financial stability. Our **Donor Development Committee** assists with fundraising and informs individuals of planned giving options. The **Field Trip Committee** plans and leads our field trips, the **Membership Committee** works to engage our membership, while the **Hospitality Committee** helps us all enjoy our events.

To get involved, please contact our office. 3-16



Wachiska
Audubon Society

Membership information:
Become a Friend of Wachiska Audubon Society today!

Serving Southeast Nebraska
4547 Calvert Street • Suite 10
Lincoln NE 68506-5643
402.486.4846
office@WachiskaAudubon.org

Vision Statement

Wachiska Audubon Society's vision is to share the experience and love of nature—that life may flourish in all its natural diversity.

Mission Statement

The mission of the Wachiska Audubon Society is to preserve and restore native grasslands and other natural ecosystems, promote birding, support native wildlife, provide nature educational opportunities, and advocate on behalf of our natural environment and sustainability.



Photo by WAS member John Carlini

Bobolink

Connect with Wachiska Audubon Society

To learn more, call our chapter office or visit our website at www.WachiskaAudubon.org. Our newsletter is on our website and contains information about our monthly field trips, programs, and many other events.



About Wachiska

Wachiska Audubon Society is a local chapter of the National Audubon Society, founded in 1973 in Lincoln, Nebraska, and serving 17 counties in Southeastern Nebraska. The name "Wachiska" is thought to have come from an Omaha Indian word meaning "land of many streams."

National Audubon Society follows the mission to **conserve and restore natural ecosystems, focusing on birds, other wildlife, and their habitats, for the benefit of humanity and the Earth's biological diversity.** Wachiska supports the National mission and our local mission through three primary goals:

1. **Connect children and adults with nature** through a variety of field trips, programs, and special events.
2. **Advocate for the protection of our natural world on local, state, and national levels** through responsible conservation policies.
3. **Preserve native tallgrass prairie parcels in and around our chapter area.** We currently preserve nearly 1,000 acres of prairie through either direct ownership or with conservation easements.

Audubon members work to preserve the diversity of living things and we are diverse ourselves. We are birdwatchers, wildlife professionals, photographers, conservation activists, writers, outdoor enthusiasts, and more. Our activities and projects appeal to a wide range of interests.

WACHISKA EVENTS AND SERVICES

Members and the general public are invited to participate in all Wachiska events. More information about our activities can be found in our online newsletter at www.WachiskaAudubon.org, or on Facebook.

Monthly Programs – You are invited to hear guest speakers who are recognized authorities on nature, travel, and the natural world around us, and to receive updates on chapter events and area birding. Our programs are held on the second Thursday of each month at 7:00 PM in Room 03 (lower level) of the Dick Administration Building, 3800 South 48th Street, on the campus of Union College in Lincoln. Join us for coffee and cookies following each program.

Action Alerts – Members can choose to receive email updates and announcements about conservation and time-sensitive issues.



Field Trips – Monthly trips to scenic local and regional areas help birdwatchers sharpen their skills, encourage wildflower enthusiasts to discover prairies, and provide members and guests opportunities to get acquainted with like-minded individuals. Everyone is welcome to join in the fun!

Wachiska Audubon Society was chartered in 1973 as an independent chapter of the National Audubon Society. Wachiska is a qualified 501(c)(3) Charitable Organization, TIN 51-0229888.

Birding – Some Wachiska prairies are open for birdwatching. Refer to our website for details.

Birdathon – In May, Wachiska members conduct a census of bird species at the peak of spring migration. Members, friends, and businesses are invited to make a pledge per species or a flat donation to support the chapter's work for the upcoming year.



Backyard Garden Tour – Held each spring, this tour opens the yards of local citizens, allowing visitors to gather ideas on landscaping to attract birds, butterflies, and other wildlife.

Spring and Fall Birdseed Sales – Spend a little, get a lot. Wachiska can help you entice birds to your yard with quality seed. Sales are announced in *The Babbling Brook*.

Christmas Bird Count – For over a century, Audubon members from all over North America have taken part in this nationwide bird count held each winter. Many counts are organized across Nebraska. Lincoln has been supplying data for over 100 years.

Awards Banquet – Wachiska's annual banquet is held each April to honor outstanding "Earthkeepers" in the region, to reflect on the past year's activities, and to look ahead to new challenges.

Wachiska members are also encouraged to get involved with our active, dynamic organization by participating on our committees. See back panel.

Why Wachiska Audubon Society needs funds to hire a Prairie Habitat Manager

Summary

WAS Prairie Protection Program requires a dedicated Prairie Habitat Manager

For 30 years, WAS has been protecting endangered tallgrass prairies in 20 Nebraska counties, preserving crucial habitat for rare plant species, threatened birds, butterflies, bees and insects, and providing important nesting and migration habitat. WAS has developed proven successful management practices and engaged many volunteers, but with the expansion of our holdings and additional monitoring obligations along with increasing threats from invasive species and development pressures, we have determined it is imperative to hire a Prairie Habitat Manager. We have a stable income stream from grazing and haying on our prairies and a 15-year CRP grant which pay for many of our expenses. We are continually fundraising with the goal to have our investments provide a long-term income stream for our prairie habitat management efforts. We are applying for the NET grant to provide interim funding while we continue what is already a successful, but not yet fully self-sustaining, habitat protection program.

Overview

WAS Prairie Protection Program requires a dedicated Prairie Habitat Manager

Objective: For over 30 years, WAS has worked tirelessly to preserve rapidly disappearing tallgrass prairie in 20 Southeast Nebraska counties providing critical habitat for many threatened flora and fauna species. WAS now protects nearly 1000 acres of prairie habitat with a proven successful management program. However, as our holdings and management responsibilities increase, coupled with an aging volunteer workforce, it is unsustainable for WAS to continue this program solely with volunteers. It is crucial we hire a Prairie Habitat Manager.

The Prairie Habitat Manager will work under the direction of WAS Conservation Committee and with supervision from our primary partner, National Audubon Society.

Endangered tallgrass prairie provides critical habitat for many threatened species

WAS prairies demonstrate measurable environmental benefits and have been recognized by prairie experts as critical habitat for many rare plant species, refuge for prairie-dependent butterflies, bees, and insects, and as important nesting and migration habitat for grassland bird species.

Dr. Kay Kottas, PhD. Botanist and President of Prairie Legacy Inc. has completed plant species surveys on many of our prairies, using the C value system (Coefficient of Conservatism). Here is a sampling of her findings:

- Over 150 prairie plant species have been identified our 21-acre prairie near Yutan, including the rare Canada Lousewort (C9) and *Liatris ligulistylis* (C10) which are found almost nowhere else in Nebraska. This prairie also provides nesting and migration habitat for Bobolinks, a declining prairie bird species prioritized in National Audubon's recent North American Grasslands and Birds Report.
- Wildcat Creek Prairie (32 acres) is home to three rare species, Northern Dewberry, Finger Coreopsis and Prairie Parsley with C values of 7 to 10. Wildcat is also a haven for Regal Fritillary butterflies, a rare and beautiful species now almost extinct east of the Mississippi River. Dr. Kottas found large populations of Butterfly Milkweed and Downy Gentian as well and calls this prairie a "high quality prairie worthy of preservation."

The late Dr. Robert Kaul of UNL, described the WAS Fertig Prairie (43 acres) as "one of the best remaining wet meadow prairies in the eastern Platte River Valley." With large populations of Tall Gayfeather and Sullivan's Milkweed Fertig Prairie attracts migrating Monarchs and other butterflies. Purple-headed Sneezeweed found here is not known to exist anywhere else in Nebraska. Because of its plant diversity and wet meadow qualities, Fertig provides important nesting and migration habitat for Bobolinks, Grasshopper Sparrows, LeConte's and Henslow's(?) Sparrows and other prairie birds.

These are examples from just three of the 32 WAS protected prairies. These prairies must be carefully managed to continue to serve as valuable habitat.

WAS Prairies: a valuable resource for researchers, students, ecologists, and the general public

Research – WAS Klapka Prairie is used by UNL Professor Sabrina Russo for research involving Eastern Gama Grass. The UNL Entomology Department uses WAS prairies to inventory prairie butterflies and grassland insects. Other UNL researchers use WAS prairies for research on prairie nematodes and the general microbial diversity of prairie soils.

Education – Two examples: biology classes from Columbus's Central Community College use WAS Fertig Prairie for botany field trips and each year WAS's annual Prairie Discovery Days bring hundreds of fourth graders to our prairies to learn about Nebraska history and ecology, Native American culture, and to study native insect, plants, prairie birds.

Seed Collecting – WAS organizes seed collecting days to support the reseeding other prairies, as a fundraising activity, and simply to let people enjoy the prairie experience.

Nature Appreciation – The WAS-owned prairies are open to the public and signed so the public knows where the prairies are located. Visitation is encouraged at WAS programs and on our website.

These efforts take hours of volunteer effort, and would benefit greatly from the planning, coordination, and oversight, of a Prairie Habitat Manager who would be expected to provide additional outreach and educational support.

The necessity of full-time manager for Wachiska's established prairie habitat management program

For centuries, prairies were an endless robust grassland managed by herds of buffalo and timely burns from lightning strikes. Today, remaining prairie land is an extremely valuable, rare, and endangered part of the Plains ecosystem. Threatened by invasive species and lack of natural fire cycles, prairies now require knowledgeable, continual management to continue to serve as critical habitat.

Over the past three decades, WAS has developed sound management practices to keep our prairies healthy and restore damaged sections. We face increasing threats from invasive species, chemical overuse on neighboring properties, and challenges monitoring conservation easements on land which has passed to new owners. These issues, along with the expansion of our holdings, have resulted in our decision to hire a Prairie Habitat Manager to solely focus on managing and protecting the prairie lands for which WAS is responsible.

The Prairie Habitat Manager will continue the management practices established by WAS including:

- **Managed grazing** benefits prairies by preventing the overgrowth of some grasses, gently breaking up the ground to facilitate growth of new grass and forbs, naturally fertilizing the ground. But grazing and stock rotation must be carefully monitored to prevent overgrazing, while fencing, wells and water tanks must be built, monitored, and repaired. Grazing income also supports our overall prairie protection program.
- **Haying** is also an important income source for our program but must be carefully managed to balance between not disturbing or suppressing native bird populations while promoting improvements in the native floral composition.
- **Prescribed burning** is a key tool to control invasive species and promote growth desirable prairie plants, but also requires knowledgeable planning and intensive coordination with fire districts, neighbors, and volunteers.
- **Invasive species identification and control** requires knowledgeable oversight and timely management.
- **Maintain positive relationships with neighbors, tenants, and contractors.**
- **Monitor conservation habitats**, both on WAS-owned prairies and for prairies owned by others where WAS is legally obligated for monitoring to protect and promote the inherent native prairie conservation values. WAS regularly inspects each property, completing an annual written evaluation documenting compliance with the terms of the easement. This report is sent to the landowner and any known tenants along with remediation recommendations if needed.

The Prairie Habitat Manager will be involved in additional activities required to successfully fulfill the responsibilities of Wachiska's Prairie Protection Program, incorporating and coordinating the work of the many WAS volunteers who care deeply about prairies and this program.

Developing a self-sustaining program

WAS has a stable income stream from grazing, haying, and seed collection on our prairies which covers the cost of property taxes, basic improvements, and supplies. WAS has also successfully applied for and received grants for specialized projects. The Prairie Habitat Manager will be expected to apply for additional grants and participate in fundraising efforts with the goal to fund the ongoing costs associated with this position.

Additionally, in 2016, WAS began fundraising to support the WAS Prairie Protection Program. Three distinct investment funds are held at the Lincoln Community Foundation.

The Prairie Defense Fund helps pay for legal matters arising in defending our prairies or for easement litigation.

The Habitat Protection Fund collects funds donated specifically for the purchase of additional prairie land.

The Prairie Management Fund invests donated funds with the intent that future proceeds will support our prairie habitat management.

Itinerary of Chief Lohr's Visit to Nebraska

Tuesday, August 4

- **9:30 p.m.** Craig will pick up Chief Lohr at the Lincoln airport from United flight #5535 and take him to his hotel.

Wednesday, August 5

- **7:30 a.m.** Craig will pick up Chief Lohr at the hotel. They will ride together to [Lake Wanhoo Education Building](#).
- **8:30 a.m.** Arrive Lake Wanhoo

Meet with Lower Platte North Natural Resources District staff/board members, Wahoo NRCS field office staff and other staff/partners including: Brad Soncksen, NRCS Assistant State Conservationist for Programs; Joanna Pope, NRCS State Public Affairs Officer; Steve Nelson, President of the Nebraska Farm Bureau; Ralph Pieke, former NRD board member; Dean Edson, Executive Director of the Nebraska Association of Resources Districts; and Kent Zimmerman, president of the National Association of State Conservation Agencies (others?)

* Brad and Joanna can travel to Wahoo together in a vehicle. Brad can ride back to Lincoln with Jim Reedy and Brian Baskerville (check out van or larger GOV to spread out) to keep numbers low for Rogers Memorial Farm visit since they are asking for small number of visitors.

- **8:30 – 8:45 a.m.** Welcome Chief Lohr to Nebraska and provide introductions – Craig Derickson, Nebraska NRCS State Conservationist
- **8:45 – 9:00 a.m.** NRCS employees introduce themselves and briefly share about the work they're doing
- **9:00 – 9:45 a.m.** NRD Discussion – Eric Gottschalk, Lower Platte North NRD General Manager and Tom Mountford, Lower Platte North NRD Assistant Manager
 - Overview/history of the NRD system and its roles and responsibilities
 - Lake Wanhoo
 - Important conservation field work in the Lower Platte North NRD
 - Shell Creek (Ralph Pieke)
 - History of PL-566 dams in the Lower Platte North NRD
 - Wahoo Creek Watershed
- **9:45 – 10:00 a.m.** Overview of the Nebraska Association of Resources Districts roll – Dean Edson, Executive Director of NACD
- **10:00 – 10:15 a.m.** Nebraska Department of Natural Resources/National Association of State Conservation Agencies update - Kent Zimmerman, NASCA President
- **10:15 – 10:30 a.m.** Break

- **10:30 – 11:15 a.m.** Demo of LIDAR and survey equipment – Jim Reedy, NRCS State Technology Engineer & Josh Charles, Soil Conservation Technician
- **11:15 – 11:45 a.m.** Demo of GIS tools used for wetland determinations – Brian Baskerville, NRCS Area Technology Specialist
- **11:45 – 12:30 p.m.** Lunch (Eric offered to purchase lunches from Subway. We can eat at the Wahoo Environmental Education Center or if we're running behind, we can eat on the road)
- **12:30 – 12:45 p.m.** Travel to Beginning Farmer site
- **12:45 – 1:30 p.m.** Tour/visit with beginning farmer Joe Petersen about how he's worked with NRCS to make conservation improvements on his farm – Jami Thoene, NRCS Resource Conservationist and State Beginning Farmer/Rancher Coordinator will facilitate
- **1:30 – 2:00 p.m.** Travel to [Rogers Memorial Farm](#) – 18630 Adams Street, Lincoln NE (Invited in addition to those presenting on site: Corey Schmidt, NRCS District Conservationist; Mike Bergert, NRCS Resource Conservationist, Steve Wellman, Nebraska Department of Agriculture Director, Orval Gigstadt. We have been requested by the Rogers Farm staff to keep attendee size small due to COVID. All attendees will need to mask up. If raining, will only have access to bldg. the size of a 2-stall garage. No rest rooms available. Will make pit stop in Waverly).
- **2:00 – 3:00 p.m.** Tour farm and cover crop plots, followed by a presentation about the tillage study - Paul Jasa, Extension Engineer
- **3:00 – 3:30 p.m.** Soil Health Demonstration – Aaron Hird, NRCS State Soil Health Specialist
- **3:30 – 4:00 p.m.** Travel to Mike McDonald's field near Douglas, NE (Invite: Britt Weiser, NRCS State Resource Conservationist; Neil Dominy, NRCS Assistant State Conservationist for Partnerships and Initiatives, Doug Wagner, NRCS Area Conservationist)
- **4:00 – 4:30 p.m.** View Mike's cover crop field and learn about his role in the Soil Health Taskforce
- **4:30 – 5:15 p.m.** Travel back to the hotel
- **6:30 – 8:30 p.m.** Dinner with Chief (10-12 maximum, outdoors if possible)

Thursday August 6

- **7:00 a.m.** - Craig and Allen Gehring will pick up Chief Lohr at his hotel. (Chief will need to check out of hotel.) During the drive Allen Gehring, NRCS State Engineer will provide an overview of EWP and watershed projects in Nebraska.
- **7:00 - 8:00 a.m.** Travel to Kirkpatrick Wildlife Management Area just west York (*NRD could be rain alternative site*) Invite: Andy Bishop, Rainwater Basin Joint Venture Coordinator; Kim Siebert, area landowner; Dave Eigenberg, Upper Big Blue Natural Resources District General Manager; Roric Pallman, Rainwater Basin Joint Venture board member; Brad Dunbar, Lindsay Cooperation; Gayle Marsh, landowner; James Huntwork, NRCS Area Conservationist; Josh Bowers and the York NRCS field office staff. (**Should make a rest room stop at rest area along I-80 just before York.*)
- **8:00 - 8:15 a.m.** Introductions and History of RWBs the JV and partnership – Andy Bishop, RWBJV Coordinator

- **8:15 – 8:35 a.m.** Kim Siebert will talk about how he's using his cattle to graze Kirkpatrick WMA through public/private partnership between NRDs/RWBJV/NRCS to help manage wetland and provide forage for his cattle. [See story here](#)
- **8:35 – 9:15 a.m.** Irrigation Innovation
 - "Divots in the Pivots" RCPP - Gayle Marsh and Brad Dunbar
 - NRD Irrigation projects - Dave Eigenberg
 - NRD water programs in the Platte Valley for the past 30 years - James Huntwork
- **9:15 – 10:30 a.m.** Travel back to the Federal Building
- **10:30 a.m. – 10:45 a.m.** Break
- **10:45 – 11:15 a.m.** Meet with NRCS employees in Room 397 A&B include field staff via Teams
- **11:15 a.m.** Lunch brought into 397 A&B for Chief and combined Nebraska state office and National Soil Survey Center (NSSC) leadership staffs
- **11:30 a.m.** Begin discussion on NSSC operations via Teams for offsite National Leaders – Nebraska state office leadership staff invited to stay. Each National Leader will have 10 minutes to highlight what their branch is doing for NRCS and the conservation partnership
- **12:50 p.m.** Kellogg Soil Survey Lab tour including processing, archive, and lab
- **1:30 p.m.** Return to 372 or Nebraska NRCS state office for wrap up.
- **1:45 p.m.** Head to Lincoln airport
- **3:16 p.m.** Chief Lohr's flight leaves Lincoln

NRCS Staff should make every attempt to carpool to keep number of GOVs low at each site. Should also try to reserve larger GOVs and spread out within the vehicle, masks on, windows cracked. Masks will be required at indoor locations and at Rogers Memorial Farm – even while outside. Remember to social distance at all tour sites, including for photos. Other partner agencies may have different COVID-19 safety protocol, but we need to follow NRCS policy and do everything we can to keep the Chief safe and comfortable while traveling.



County Road 16

County Road 15

County Road 16

Flemont Church Rd

County Road 15

County Road 5

North

Section 3-17N-7E

6-013452
11951

Paul Hwy
30

Weston

Roger Harder



**APPLICATION FOR A PERMIT TO CONSTRUCT A WATER WELL
IN THE LOWER PLATTE NORTH NATURAL RESOURCES DISTRICT**

DNR & NRD USE ONLY			
Permit No. _____	Date Approved/Denied _____	NRD Representative _____	
Permit Type: New, Replacement or Late _____	Date Received _____	Paid: Cash of Check <u>#18737</u>	
Date Post-inspected _____	Registration No. _____	Updated Form, May 2008 <u>\$50-</u>	

ALL APPLICANTS SEEKING A WATER WELL PERMIT MUST COMPLETE PAGES 1 AND 2, AND THE APPROPRIATE SECTION BASED ON THE PURPOSE OF THE WELL. (CLASS 1 – 4 WELL PERMIT)
 WATER WELL PERMITS FOR IRRIGATED ACRES GREATER THAN 160 ACRES IN SIZE OR TOTAL ANNUAL WATER USE BETWEEN 150 AND 300 ACRE FEET PER YEAR MUST COMPLETE PAGES 1, 2, AND 3, AND THE APPROPRIATE SECTION BASED ON THE PURPOSE OF THE WELL. (CLASS 3 WELL PERMIT)
 WATER WELL PERMITS FOR TOTAL ANNUAL WATER USE EQUAL TO OR GREATER THAN 300 ACRE FEET PER YEAR, REGARDLESS OF NUMBER OF IRRIGATION ACRES, MUST COMPLETE PAGES 1, 2, AND 4, AND THE APPROPRIATE SECTION BASED ON THE PURPOSE OF THE WELL. (CLASS 4 WELL PERMIT)

1. NAME AND ADDRESS OF <u>LAND OWNER</u>: Village of Platte Center P.O. Box 125 Platte Center, NE 68653 Phone: <u>402-246-2135</u>	NAME AND ADDRESS OF <u>CONTACT</u>: Jake Jarecki, Village Board Chairman 315 4th Street Platte Center, NE 68653 Phone: <u>402-270-2700</u>
---	---

2. PURPOSE OF NEW WATER WELL (indicate one):

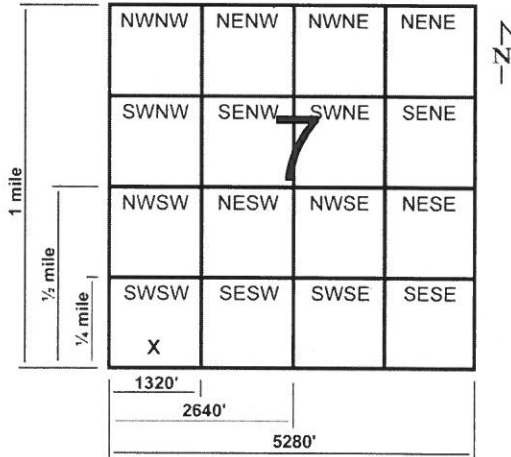
<input type="checkbox"/> Irrigation (Complete section A)	<input type="checkbox"/> Dewatering (Over 30 days, Complete section B)
<input type="checkbox"/> Livestock (Complete section C)	<input type="checkbox"/> Domestic (Irr. on one acre or larger, Complete section D)
<input type="checkbox"/> Industrial (Complete section E)	<input checked="" type="checkbox"/> Public Water Supply (Complete section F)
<input type="checkbox"/> Recovery or Remediation (Complete section G)	
<input type="checkbox"/> Other (specify) _____ (Complete section H)	

3. IDENTIFY LOCATION OF PROPOSED WELL:

A. Platte County, SW ¼ of the SW ¼ of Section 7, Township 18 North, Range 1 East (West) (circle one)

B. The box at the right represents one square mile, (section). Indicate with an "X", the proposed location of the well. Outline the proposed water use area. If the water is to be used outside the above written legal description, give legal description of water use area, _____ ¼ of the _____ ¼ of Section _____, Township _____ North, Range _____ East/West.

C. The well will be located 375 feet from the North (South) section line, and will be 645 feet from the East (West) section line. Or enter Lat. / Long.
 Latitude Degree 41 Minute 32 Second 29.05N
 Longitude Degree 97 Minute 28 Second 55.35W



4. REPLACEMENT AND ABANDONED WELL INFORMATION:

A. Is this a replacement well? Yes, No. If yes, fill out the rest of this section.

B. Registration number of well to be replaced: _____

C. Well to be replaced was last operated (month/year): _____

D. Replacement well is _____ feet from original well.

E. Decommissioning of Original well on (month/day/year): _____

F. If water use is for irrigation, list the number of acres watered by the original well: _____

G. If water use is for irrigation, will replacement well, water the same tract of land as the decommissioned well?
 Yes, No: If No, list the number of additional acres _____ and legal description _____ ¼ of the _____ ¼ of Section _____, Township _____ North, Range _____ East/West. (circle one)

- A replacement water well must deliver water to the same tract of land as the original water well, pump from a comparable aquifer, and yield approximately the same gallons per minute and total annual water use as the original water well.

5. SPECIFICATIONS OF INTENDED WELL AND PUMP:

- A. Approximate date when construction will begin (month/day/year): 10/1/2020
- B. Expected total well depth: 160 feet.
- C. Well Casing Diameter: 16 inches.
- D. Pump Column Diameter: 6 inches.
- E. Estimated pumping capacity: 300 GPM.
- F. Expected total annual water use in Acre Inches / Year 670 or Total Gallons / Year _____
- G. The system is to be powered by Electric Fuel
- H. Will the well be used in a system with other wells? Yes, No. If Yes, How many 1
List well registration number and legal description of each well in Section 6 below.
- I. Name of Well Driller: Sargent Drilling (Please attach test hole log, if available.)

6. List additional information requested in this Section or attached additional sheet.

Well G-163326 SW¼ of the SE¼ of Section 7, T18N, R1W of the 6th P.M.

7. Addition information and requirements for Lower Platte North NRD review.

- Attach current tax assessor records including map, parcel number, and current land use such as irrigated acres.
- Attach aerial photo showing location of water source(s) and area water or reuse water is to be used.
- All new and replacement water wells must install a District approved flow meter and report water pumped annually to the LPNNRD by January 31st of the following year.
- Water well permit conditions maybe required for approval by the Lower Platte North NRD for each individual well.

8. I certify that I am familiar with the information contained in this application, and it's restrictions, rules and regulations and that to the best of my knowledge and belief such information is true, complete and accurate.

Date 7-17-2020 Signature of Applicant *Geoff Jacobs*

Signature of Well System Operator, if different than Applicant _____

NRD Certification Number of Landowner or Operator NE3114101 (Required for irrigation, livestock, domestic (with irrigation on one acre or more of land), industrial, and public water supply wells.)

9. Lower Platte North NRD Use Only. Comments by District Representative.

**APPLICATION FOR A PERMIT TO CONSTRUCT A WATER WELL
IN THE *LOWER PLATTE NORTH NATURAL RESOURCES DISTRICT***

**WATER WELL PERMIT FOR IRRGATED ACRES GREATER THAN 160 ACRES IN SIZE OR TOTAL
ANNUAL WATER USE BETWEEN 150 AND 300 ACRE FEET PER YEAR, PROVIDE INFORMATION
REQUESTED ON PAGES 1, 2, AND 3. (CLASS 3 WELL PERMIT)**

10. WATER SOURCE INFORMATION:

In a TWO-mile radius around the water source location, provide the following information to the LPNNRD in both paper copy and electronically in Excel Spreadsheet (Microsoft) or Access Database (Microsoft) format.

- A. List of all registered wells in this area giving registration number, well identification number, legal description, latitude / longitude or UTM coordinates in NAD 83, elevation in feet above mean sea level, and well log for each well.
 - B. List of all test holes in the area that have been published by Conservation and Survey Division of the University of Nebraska.
 - C. List of all surface water rights in this area giving appropriation number, priority date, legal description, use, status, current total acres (if applicable), and grant amount.
-

11. WATER USE LOCATION INFORMATION:

In the location where the water will be used, provide the following information to the LPNNRD in both paper copy and electronically in Word (Microsoft) format.

- A. Description of expanded water use including: latitude / longitude or UTM coordinates in NAD 83 of water use location and timeframe or schedule when water will be used.
 - B. Amount of water that will be reused or recycled at this new location.
 - C. Description of how water will be used at this new location, i.e. process water vs. cooling water, etc. and estimated total annual water use for each purpose.
-

**APPLICATION FOR A PERMIT TO CONSTRUCT A WATER WELL
IN THE LOWER PLATTE NORTH NATURAL RESOURCES DISTRICT**

**WATER WELL PERMIT FOR TOTAL ANNUAL WATER USE EQUAL TO OR GREATER THAN 300 ACRE
FEET PER YEAR, REGARDLESS OF NUMBER OF IRRIGATED ACRES, PROVIDE INFORMATION
REQUESTED ON PAGES 1, 2, AND 4. (CLASS 4 WELL PERMIT)**

12. WATER SOURCE INFORMATION:

In a FIVE-mile radius around the water source location, provide the following information to the LPNNRD in both paper copy and electronically in Excel Spreadsheet (Microsoft) or Access Database (Microsoft) format.

- A. List of all registered wells in this area giving registration number, well identification number, legal description, elevation in feet above mean sea level, latitude / longitude or UTM coordinates in NAD 83, and well log for each well.
 - B. List of all test holes in the area that have been published by Conservation and Survey Division of the University of Nebraska.
 - C. List of all surface water rights in this area giving appropriation number, priority date, legal description, use, status, current total acres (if applicable), and grant amount.
-

13. WATER USE LOCATION INFORMATION:

In the location where the water will be used, provide the following information to the LPNNRD in both paper copy and electronically in Word (Microsoft) format.

- A. Description of expanded water use including: latitude / longitude or UTM coordinates in NAD 83 of water use location and timeframe or schedule when water will be used.
 - B. Amount of water that will be reused or recycled at this new location.
 - C. Description of how water will be used at this new location, i.e. process water vs. cooling water, etc. and estimated total annual water use for each purpose.
-

14. AQUIFER PUMP TEST:

In the location of the proposed water source a District approved aquifer pump test is to be performed to obtain geologic data that will be used in the ensuing ground water modeling effort. Data from the pump test is to be reported to the LPNNRD in both paper copy and electronically in Excel Spreadsheet (Microsoft) or Access Database (Microsoft) format.

- A. Description of pumping well should include legal description of well, latitude / longitude or UTM coordinates in NAD 83, elevation of well in feet above mean sea level, total amount of water pumped, gallons per minute during pump test, duration of pump test, well construction, well log, water discharge location and method.
 - B. Description of each monitoring well should include legal description of well, latitude / longitude or UTM coordinates in NAD 83, spacing in feet and direction from pumping well, elevation of well in feet above mean sea level, well log, and well construction.
 - C. Depth to bedrock, bedrock material, and name of geologic formation.
-

15. GROUNDWATER MODEL:

In a FIVE-mile radius of the location of the proposed water source a ground water model using MODFLOW software, or similar software approved by LPNNRD, is to be done. Data from the ground water model is to be reported to the LPNNRD in both paper copy and electronically using the appropriate software.

- A. Model should list boundary conditions used, grid size, include all high capacity wells in modeled area, streams and rivers in the modeled area, expected recharge rates, location and flow amounts, hydrologic conductivity and transmissivity values used.
 - B. At least one iteration, reviewed and approved by LPNNRD, should model steady state conditions over a five-year period with a no flow boundary, and little or no recharge to simulate drought conditions.
-

**APPLICATION FOR A PERMIT TO CONSTRUCT A WATER WELL
IN THE LOWER PLATTE NORTH NATURAL RESOURCES DISTRICT**

PURPOSE OF WELL

IRRIGATION WELLS (SECTION A)

- A. How many acres will be irrigated? _____ acres
- B. Crops to be planted: _____ Crop rotation schedule _____
- C. Type of irrigation system. Center Pivot, Gravity, Other (specify) _____
- D. The irrigation system is to be powered by Electric Fuel
- E. Expected total annual consumptive water use in Acre Inches / Year _____ or
Total Gallons / Year _____
- F. Will Fertilizer, Chemicals or Animal waste be applied through the system? Yes, No

DEWATERING WELLS OVER 30 DAYS (SECTION B)

- A. Purpose of dewatering well, such as installation of building foundation, etc. _____
- B. Expected total number of days the dewatering well will be in use _____
- C. Approximate dates (month/day/year) in operation: Start _____ End _____
- D. Legal description of water discharge location: _____ ¼ of the _____ ¼ of Section _____, Township _____ North,
Range _____ East/West and name of river, stream or water body _____
- E. Will discharge water be used for another purpose, such as livestock, irrigation, etc.? Yes, No
If Yes, list purpose, location and expected total amount of water use in acre-inches / year or total gallons / year.

LIVESTOCK WELLS (SECTION C)

- A. Name of facility _____
- B. Type of Livestock: Feeder Cattle, Dairy Cattle, Swine over 55 lbs., Swine under 55 lbs.,
 Sheep, Poultry, Horses
- C. Average number of livestock per year _____ and average weight per animal _____ lbs.
- D. Peak number of livestock _____ and time of year _____
- E. Is facility approved by Nebraska Department of Environmental Quality? Yes, No. If Yes, list NDEQ
certification IIS number _____ If No, complete the rest of this section.
- F. Type of facility: Open lot, Covered Building
- G. If facility is Open lot, list soil type _____
- H. Estimated depth to ground water under feedlot _____ ft.
- I. Describe manure collection system of feedlot _____
- J. Name and distance of nearest surface watercourse from feedlot _____
- K. For each manure land application site, list legal description and size in acres, method of application, and distance
from feedlot operation. _____

DOMESTIC WELLS WITH IRRIGATION ON ONE ACRE OR MORE (SECTION D)

- A. Check all that apply:
 - a. Water use: Lawn and number of acres to be irrigated _____ acres.
 - b. Water use: Commercial garden and number of acres to be irrigated _____ acres.
 - c. Water use: Tree Farm and number of acres to be irrigated _____ acres.
 - d. Water use: Type of livestock _____ and number _____
- B. Type of irrigation system. Sprinkler, Drip Tape, Other (specify) _____
- C. If applicable, give Street address and town _____

* One acre equals 43,560 square feet.

INDUSTRIAL AND COMMERCIAL WELLS (SECTION E)

- A. Name of facility _____
- B. Products produced by facility _____
- C. In Section 6 or on a separate sheet of paper, list well registration number and legal description of current wells supplying water to this facility.
- D. In Section 6 or on a separate sheet of paper, provide a short description how water is used within the facility and the expected annual amount of water for each use. For example: "The manufacturing plant will use 45% of total annual water use, or 1.45 million gallons per year, for electroplating of galvanized pipe and the remaining 55% of total annual water use, or 1.77 million gallons per year, will be used for non-contact cooling water throughout the plant".
- E. Will any of the used water or waste water from this facility be re-used for another purpose? Yes, No.
If Yes, list purpose, location and expected total amount of water use in acre-inches / year or total gallons / year.

PUBLIC WATER SUPPLY WELLS (SECTION F)

- A. On a separate sheet of paper, list the well registration numbers and legal description of current wells supplying water to this community. ***See attached**
- B. Attach a list of the five largest industrial water users that your community supplies water to, and the total annual amount of water supplied to each of these industries for the last five years. **None**
- C. For these same industries list the total annual amount of water returned to the community as waste water for each of the last five years. **None**
- D. Will waste water be used for another purpose, such as livestock, irrigation, etc.? Yes, No
If Yes, list purpose, location and expected total amount of water use in acre-inches / year or total gallons / year.

- E. Attach a list of the golf courses that the community supplies water to and list the location and number of acres for each one. **None**

RECOVERY OR REMEDIATION WELLS (SECTION G)

- A. Reason for recovery or remediation well, i.e. leaking underground storage tank. _____
- B. Contaminates of concern _____
- C. Treatment method of contaminants _____
- D. Approximate dates (month/day/year) in operation: Start _____ End _____
- E. Legal description of water discharge location: ___ ¼ of the ___ ¼ of Section ____, Township ___ North, Range ___ East/West and name of river, stream or water body _____
- F. Will cleanup water be used for another purpose, such as livestock, irrigation, etc.? Yes, No
If Yes, list purpose, location and expected total amount of water use in acre-inches / year or total gallons / year.

OTHER WELLS (SECTION H)

- A. Purpose of water use _____
- B. Will the well be used for one calendar year or less? Yes, No
 - a. If Yes, list approximate dates (month/day/year) the well will be in operation: Start _____
End _____
 - b. If No, list the approximate dates (months) or seasons of the calendar year that well is expected to be in peak or highest use. _____
- C. Legal description of water discharge location: ___ ¼ of the ___ ¼ of Section ____, Township ___ North, Range ___ East/West and name of river, stream or water body _____

This form must be completed in full and accompanied by a non-refundable \$50.00 filing fee (payable to the Lower Platte North Natural Resources District). In addition, for Class 3 well permits an added fee of \$250.00 is required for District review. For Class 4 well permits an added fee of \$500.00 is required for District review. Forward this application and filing fees to:

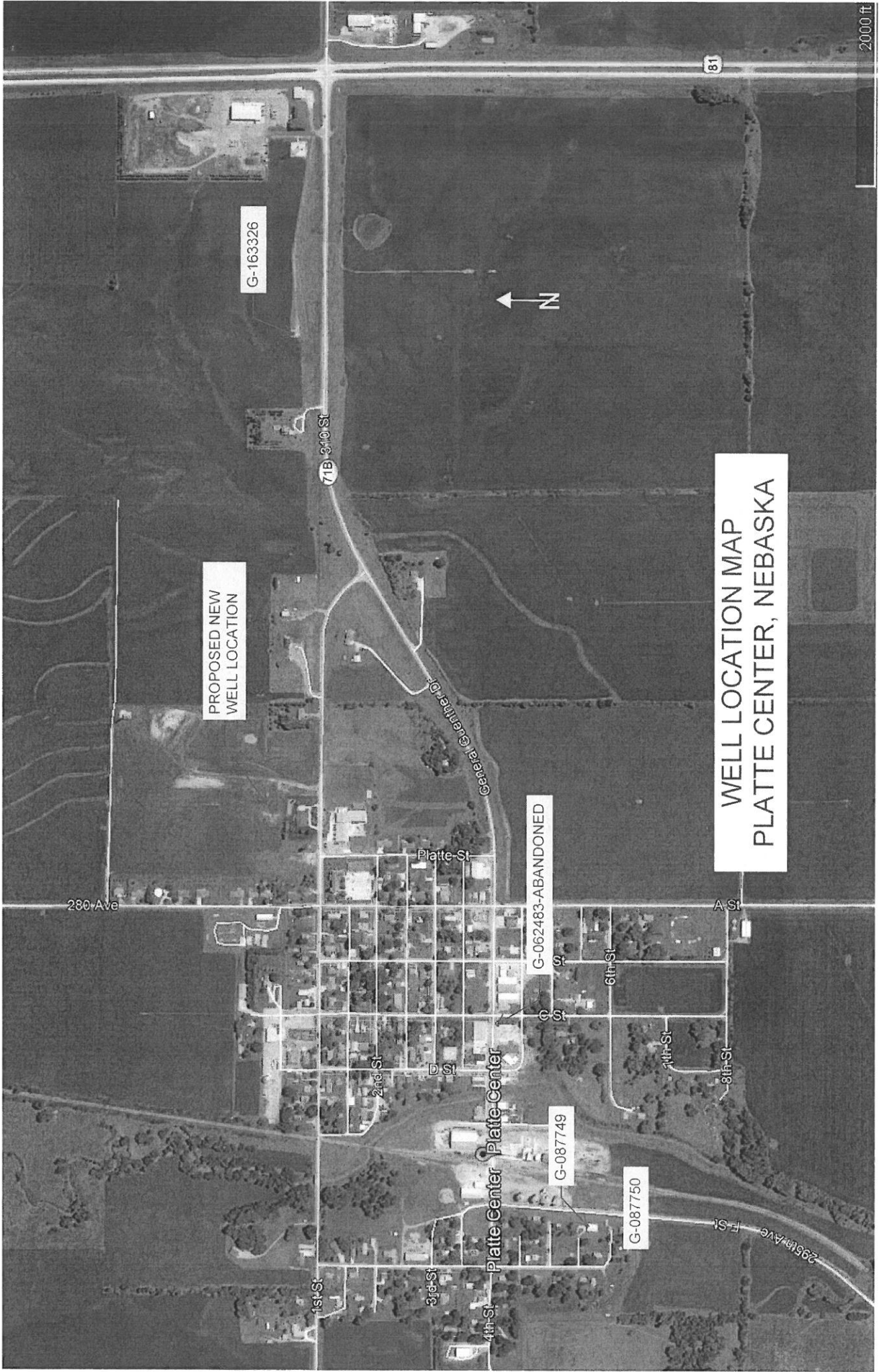
**Lower Platte North Natural Resources District
P.O. Box 126
Wahoo, NE 68066
Phone: (402) 443-4675**

Please take the time and fill out the information correctly. The District will return an incomplete or defective application, with 60 days being allowed for resubmission. The District shall issue all permits with conditions attached, or denied not later than 30 days after receipt of a complete and properly prepared application.

WATER WELL PERMIT RESTRICTIONS

1. A well permit is required prior to the construction of a water well. If construction of a water well is commenced prior to obtaining a permit, a late permit must be completed and accompanied by a \$250.00 application fee. Construction or operation of a new water well without an approved water well permit shall result in the District issuing a 'cease and desist order' against further construction or use of that water well.
2. An irrigation well shall not be constructed within 1000 feet of any registered industrial or public water supply well or within 600 feet of a registered irrigation well; A public water supply well shall not be constructed within 1000 feet of any registered irrigation, industrial or other public water supplier's well; An industrial well shall not be constructed within 1000 feet of any registered irrigation, industrial or public water supply well pursuant to §46-609 and §46-651. These spacing restrictions shall not apply to water wells owned by the same person. Any person may apply to the Nebraska Department of Natural Resources for a special permit to drill a water well without regard to the spacing requirements pursuant to §46-653. The District may adopt stricter well spacing requirements based on different aquifer subareas. Check with the District office if you have any questions.
3. This permit does not register the well with the Department of Natural Resources. All wells are required to be registered by the well driller with the Nebraska Department of Natural Resources within 60 days after the well is completed.
4. A replacement water well is one, which replaces an abandoned water well that has been operated within the last three years, and is constructed to water the same tract of land as the abandoned water well that is being replaced. A replacement water well must be pumping from a comparable aquifer and yield approximately the same gallons per minute and total annual water uses as the original water well it is replacing. As of January 1, 1997, both new and replacement wells need a permit from the Lower Platte North Natural Resources District.
5. Consumptive water use in acre-inches is determined from the Department of Natural Resources (DNR) Net Corn Crop Irrigation Requirement map or a similar map produced by the University of Nebraska.
6. If the well is being replaced it must be properly abandoned according to state guidelines. A copy of these guidelines is available from the Lower Platte North NRD.
7. If the water well is not constructed within a one-year period from the date of approval, a new permit is needed.
8. Water wells may not be drilled within 50 feet of a stream bank without first obtaining a surface water right for that water withdrawal from the Department of Natural Resources pursuant to §46-637.
9. Any person who, on or after January 1, 1997, commences or causes construction of such a well for which the required permit has not been obtained, or who knowingly furnishes false information regarding such a permit, shall be guilty of a Class IV misdemeanor pursuant to §46-602.01 and §46-613.02.
10. Permits are not required for test holes or temporary dewatering wells (30 days or less). Permits are needed for water wells designed to pump 50 gallons per minute or less in Level 3 and Stay management areas.
11. Tax assessor records submitted with water well permit must include map, parcel number and an accurate account of current land use, such as irrigated acres.
12. With the well permit application, submit an aerial photograph with markings to show the location of the water source(s) and the location of where the water is to be used.
13. Any person, who knowingly furnishes false information regarding a water well permit, shall be subject to the imposition of penalties imposed through the controls adopted by the District pursuant to §46-746.
14. All new or replacement water wells must install a District approved flow meter and report water pumped annually in acre-inches per year or total gallons per year on LPNNRD approved forms by January 31st of each following year.
15. If multiple water sources are used, landowner must supply flow records from each water source in acre-inches per year or total gallons per year on LPNNRD approved forms by January 31st of each following year.
16. Water well permit applications require that the applicant or operator of irrigation, livestock, domestic (with irrigation on one acre or more of land), industrial, and public water supply wells by NRD certified.

**** Landowners must list new irrigated acres with the County Assessor, update the DNR well registration, and comply with any additional conditions within 90 days of LPNNRD approval of this water well permit. LPNNRD staff may perform a site visit to verify information provided in the well permit application. ****



PROPOSED NEW
WELL LOCATION

G-163326

G-062483-ABANDONED

G-087749

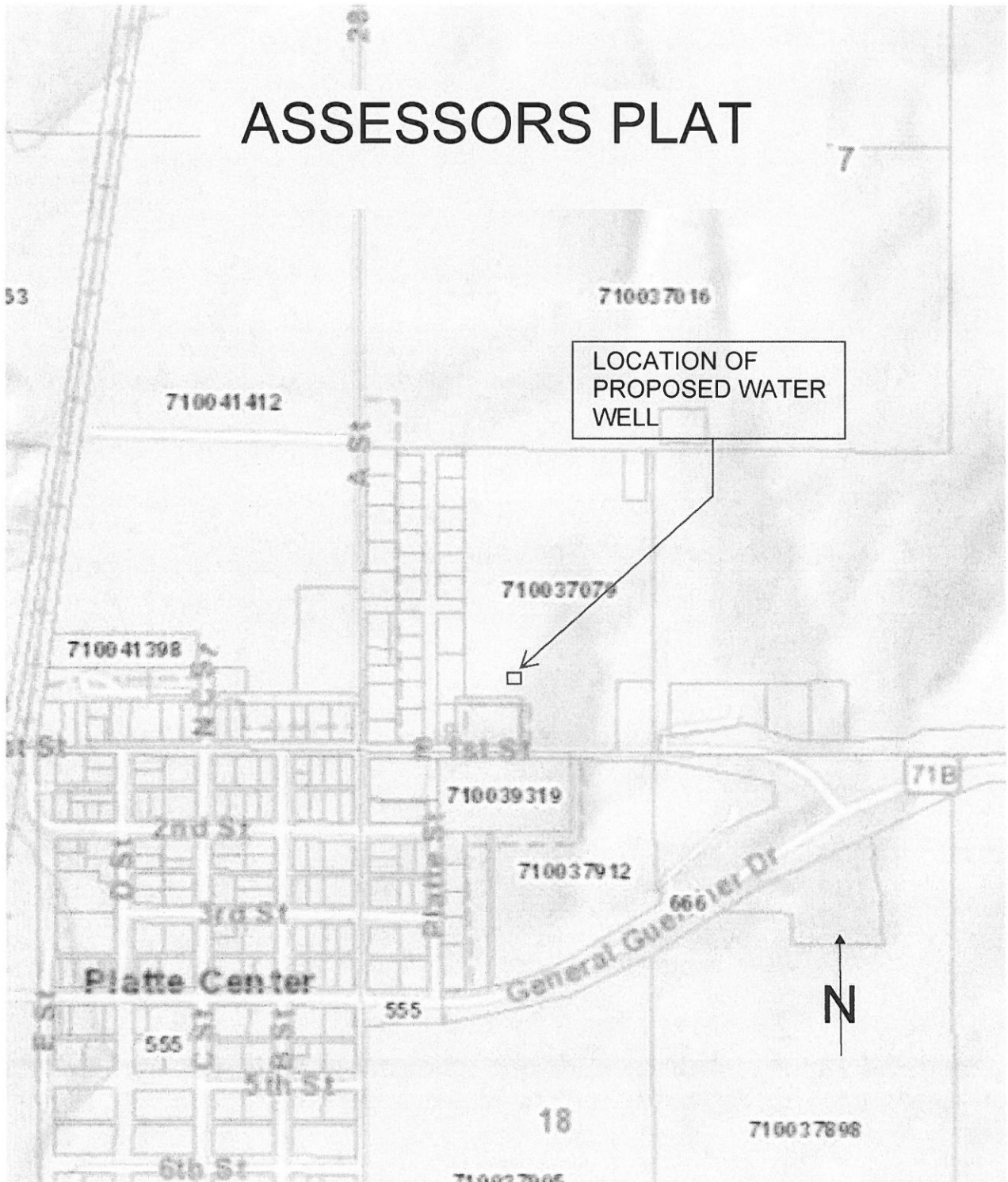
G-087750

WELL LOCATION MAP
PLATTE CENTER, NEBASKA



2000 ft

ASSESSORS PLAT





Parcel Information	
Parcel ID:	710037079
Map Number	18-1W0-07-0000-05520
State Geo Code	2349-07-3-00006-000-5520
Cadastral #	1W-21
Images	
Current Owner:	PLATTE CENTER DEVELOPMENT LLC %RODNEY G HASSEBROOK 27079 355 ST PLATTE CENTER, NE 68653
Situs Address:	
Tax District:	146
School District:	LAKEVIEW COMMUNITY 5, 71-0005
Account Type:	Agricultural
Legal Description:	7 18 1W PT SW SW
Lot Width:	N/A
Lot Depth:	N/A
Lot Size:	N/A

Assessed Values				
Year	Total	Land	Outbuilding	Dwelling
2020	\$76,025	\$76,025	\$0	\$0
2019	\$85,555	\$85,555	\$0	\$0

Yearly Tax Information		
Year	Amount	Levy
2019	\$836.18	1.102346
2018		1.086083

2019 Tax Levy	
Description	Rate
PLATTE COUNTY	0.20786400
ESU #7	0.01500000
COUNTY LIBRARY	0.00414900
PLATTE CENTER RFD	0.04532800
LOWER PLATTE NORTH NRD	0.03551200
CENTRAL COMMUNITY COLLEGE	0.09304200
AG SOCIETY	0.00821200
SHELL CREEK TWP	0.03691900
LAKEVIEW COMMUNITY 5	0.64115900
LAKEVIEW COMMUNITY 5 BOND	0.01516100



Agricultural Land Information					
Soil Symbol	Landuse	LVG	Unit Value	Acres	Total Value
6774	DRY	4D	\$2,900.00	2.750	\$7,975.00
6778	DRY	3D	\$4,600.00	8.630	\$39,700.00
6812	DRY	1D	\$6,100.00	4.620	\$28,180.00
RO	ROAD	RO	\$0.00	0.230	\$0.00
WATER	WATER	WATER	\$500.00	0.340	\$170.00
Total:				16.57	\$76,025.00

Sales Information			
Sale Date	Sale Price	Book & Page	Grantor
09/01/2017	\$0.00	238 / 466	HASSEBROOK/RODNEY G
09/25/2015	\$500,000.00	233 / 1105	

Property Classification			
Status:	Unimproved	Location:	Rural
Property Class:	Agricultural	City Size:	No Population
Zoning:		Lot Size:	20.00-40.00 ac.

Residential Datasheet			
Zoning:		Quality:	
Year Built:	0	Condition:	N/A
Exterior:		Style:	
Bedrooms:	0	Bathrooms:	0.00
Plumbing Fixtures:	0	Heating/Cooling:	
Basement Size:	0 sq. ft	Min Finish:	0 sq. ft
Building Size:	0 sq. ft	Part Finish:	0 sq. ft

Sargent Drilling
 INDUSTRIAL ENGINEERING
 COMPLETE MUNICIPAL AND INDUSTRIAL
 WELL AND PUMP SERVICE

PO Box 367
 Geneva, NE 68361-0367

846 South 13th St.

Phone: (402) 759-3902
 1-888-496-3902

TEST HOLE LOG

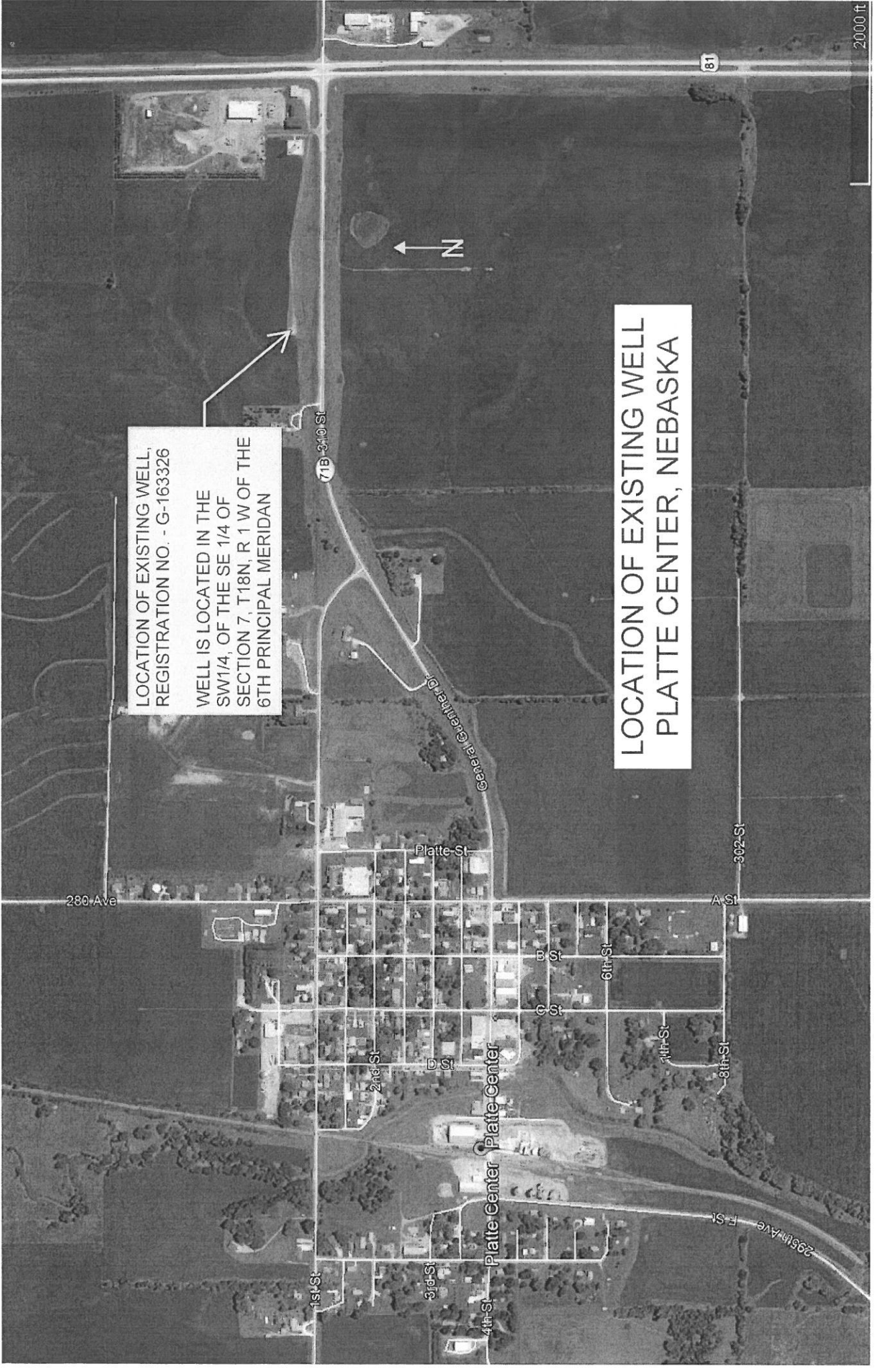
CUSTOMER: Platte Center, NE	
WELL ID: TW 2019-2	
LOCATION: SW ¼, 7-T18N-R1W, Platte Co., NE	
LATITUDE: 41° 32' 29.7"	
LONGITUDE: 097° 28' 54.5"	
FOOTAGES: 397 feet from the South section line and 709 feet from the West section line.	
ELEVATION: 1640'	
DATE: 7-24-2019	DRILLED BY: Scott

SWL: 96'
 PWL: 154'
 GPM: 249

<u>from feet</u>	<u>- to feet</u>	
0	20	Top soil and brown silty clay
20	71	Brown clay
71	80	Fine medium sand with clay strips
80	83	Fine medium sand
83	92	Brown clay
92	100	Fine medium coarse sand and fine gravel
100	118	Fine medium coarse sand and fine medium gravel with clay layers
118	160	Tan clay
160	181	Fine medium sand with some coarse sand
181	190	Tan clay
190	200	White shale, ochre and gray shale
200	207	Gray shale

WELL CONSTRUCTION:

Well Depth: 185'
 Bore Hole Diameter: 12"
 Plain casing: 165' - 6" PVC
 Perf. casing: 20' - 6" PVC slot size: .050"
 Gravel pack: 155' - 185'
 Grout: 0' - 155'



LOCATION OF EXISTING WELL,
REGISTRATION NO. - G-163326

WELL IS LOCATED IN THE
SW1/4, OF THE SE 1/4 OF
SECTION 7, T18N, R 1 W OF THE
6TH PRINCIPAL MERIDAN

LOCATION OF EXISTING WELL
PLATTE CENTER, NEBASKA

2000 ft

East Well - NEWEST

Well Registration or Area Permit			Fee Paid: \$110.00	HHSS Fee: \$70.00
			DNR Cash Fund: \$18.50	WWDF: 21.50
			Billing ID: 35217	
Source: Nebraska On Line	Import Status: Accepted	Use: Public Water Supplier with Spacing Protection	Owner ID: 35988	
Import ID: 134271143526513	Status: Active Registered Well	Decommission Date: ---	Registration Number: G-163326	
Well ID: 218049	NRD: Lower Platte North		Registration Date: 7/20/2012	
Last Change User: hmcoberson	Call Up Code: ---	Call Up Date: ---	Last Change Date: 7/20/2012	

Owner:

ContactID	Type	SeqNum	Begin Date	End Date	Name
Display 35988	Owner 1		7/20/2012		Village of Platte Center,

Contractor: **Certificate ID FirstName LastName**
3907004 Dick D. Grosch

Drilling Firm: **EmployerID Employer**
307283 Grosch Irrigation Company, Inc - North Bend

- A. Well Location: **SW1/4SE1/4** of Section **Z**
 Township **18** North, Range **1** (**West E/W**), **Platte** County
 - B. Natural Resource District: **Lower Platte North**
 Latitude Longitude
 Well GPS Coordinates: **41° 32' 27.53"** **-097° 28' 16.27"**
 Lat/Long DD **41.54098** **-97.47119** **GPS Required**
 - C. The well is: **184** feet from the **S** Section line and **1663** feet from the **E** section line.
 - D. Street address or block, lot and subdivision: Addr/Sub Div **---** Block No **---** Lot **---**
 - E. Location of water use, if applicable (give legal description): **s13 T18 R2W**
 - G. Well reference letter(s) if applicable: **---**
- Well In A Series
 Well Part of a Series with Site Plan: **No**

Series #	# of Wells	Reg Total #	Wells Acres	Acres	Cert NRD	Appr StartDate	EndDate	Comment	Series Reg Num	(External Source)	Code	Description	Wells in the Series
216731			No	No		9/28/2011					PRO Single Project		WellID RegCD StartDate EndDate 218049 G- 163326 9/28/2011

Permits

Area Permit	LPN-	0121266	Aprvd Date(s)	SWater App Code	Aprvd Date(s)
GeoPermit	---	---	---	Industrial	---
MWF	---	---	---	Transfer	---
WSP	---	---	---	Swater Conduct Code	---
HHSS	---	---	---	Other	---
HHSS PWS ID	---	---	---	ITN	---
NDEQ	---	---	---		---

5. Purpose of Well **Public Water Supplier with Spacing Protection**
 Other Use **---**
 Notes **---**

7. Replacement well information. Well Considered a replacement by NRD(WellID, RegCD)
- A. Is this well a Replacement well? **No** Repl No **---** NRD Approval Date **---** Well Replacement Reg CD **---**
 - B. Registration number of abandoned well: **---** If not registered, date abandoned well was constructed **---**
 - C. Abandoned well last operated **---** D. Replacement well is **---** feet from abandoned well.
 - E. Original well pump column size: **---** inches.
 - F. Original water well decommissioned **---**
 I hereby certify that the original water well will be decommissioned within 180 days after such construction of the replacement water well.
 I hereby certify that the original water well will be modified and equipped to pump 50 gallons per minute or less within 180 days after such construction of the replacement water well.
 Livestock
 Monitoring
 Observation
 Nonconsumptive or de minimus use approved by the applicable natural resources district. **---**

[] Decommission/Modification certification form is submitted by landowner (Must be submitted before registering well)

G. Location of water use of original well: ___

Decommission Information

Decommission Date: ___ By

8. Pump Information.

A. Is Pump installed at this time? Yes

Pump present but Well Inactive: No

Free Flowing Well: No

Well active, no pump installed: No

B. License No.

CertificateID	FirstName	LastName	Employer
3907004	Dick D.	Grosch	Grosch Irrigation Company, Inc - North Bend

C. Pumping Rate 400 gallons per minute.

D. Pumping water level 152 feet.

E. Drop pipe diameter 8 Inches.

F. Length of pipe 170 in feet.

G. Pump equipment installed: 5/4/2012

H. Pump Brand/Type verticle lineshaft turbine-Flowsolve

I. This well will be used to pump less than 50 gpm? No

9. Well Construction Information

A. Total well depth: 211 feet.

B. Static water level 106 feet.

C. Well Construction began: 9/28/2011

D. Well Construction Completed: 9/28/2011

E. Bore hole diameter in inches. Top 28 Bottom 28

F. Casing and Screen Joints are: Welded

Other Joints description: ___

H. Total Estimate Capacity of Well 1000 gallons per minute.

I. Pumping water level at capacity: 190 feet.

10. Well Construction (Casing & Screen) - c, d, e & f measurements should be in inches to three decimal places

Record Count = 3

WellID	FromDepth*	ToDepth*	Case/Screen	InsideDiam	OutsideDiam	CaseThickness	ScrnSlotSize	Material	ScreenTname
218049 0	180		casing	15.25	16	0.375		steel	A53B
218049 180		208	screen	15.5	16	0.25	0.03	st. steel	Johnson
218049 208	211		casing	15.5	16	0.25		st. steel	Johnson

* are in Feet, all else is in Inches

11. Grout and Gravel Pack

Record Count = 3

WellID	FromDepth	ToDepth	Grout/Gravel	Material Description ¹	Quantity Gravel ²	Volume & Type Grout ³
218049 0	15		grout	cement grout		2.75 yds
218049 15		173	grout	coarse bentonite chips		34,500 lbs
218049 173	211		gravel	# 0 coarse	12,000 lbs	

* are in Feet, all else is in Inches

¹Description of gravel pack, i.e. engineered gravel pack, or gravel pit description (1/4 down) or brand name (best sand) natural formation, drilling cuttings, soil backfill

²Quantity #cubic yards, #Tons, #Sacks - (for drilling cuttings and soil backfill estimate quantity) Calculation assistance available on web

³Volume & Type: #gallons of a slurry, #Barrels of a slurry, #sacks used in the slurry, #Bags of non-slurry bentonite (chip-pellet-granular)

12. Well Geologic Materials Logged

WellID	FromDepth*	ToDepth*	Type	Hardness	Color	Other/Drilling Action
218049 0	3		Top Soil	Soft	Brown	
218049 3		10	Clay	Soft	Tan	
218049 10		32	Clay	Hard	Tan	
218049 32		35	Clay	Hard	White	
218049 35		95	Clay	Hard	Brown	
218049 95		110	Sandy Clay	Soft	Tan	
218049 110		131	Sand with gravel	Loose	Yellow	
218049 131		155	Clay	Hard	Tan	
218049 155		170	Sandy Clay	Hard	Tan	
218049 170		203	Sand med-coarse	Loose	Brown	
218049 203		212	Clay	Hard	Tan	

* are in Feet.

Handwritten notes:
 73 - 21 gravel pack
 180 - 208
 30 - 100T
 5000 208 - 211

CHEMIGATION - July 2020

TOTAL CHEMIGATION APPLICATIONS IN 2019 (721)

NEW CHEMIGATION APPLICATIONS - 52

(0) Boone (11) Butler (9) Colfax (11) Dodge (1) Madison (10) Platte (10) Saunders

RENEWALS: 695

BOONE COUNTY - 59
BUTLER COUNTY - 100
COLFAX COUNTY - 61
DODGE COUNTY - 117
MADISON COUNTY - 7
PLATTE COUNTY - 110
SAUNDERS COUNTY - 241

RENEWAL INSPECTIONS: 215

(30) Boone (46) Butler (9) Colfax (26) Dodge (0) Madison (25) Platte (79) Saunders

NEW INSPECTIONS: 51

(0) Boone (12) Butler (9) Colfax (10) Dodge (0) Madison (10) Platte (10) Saunders

NEW CANCELLATIONS: 0

(0) Boone (0) Butler (0) Colfax (0) Dodge (0) Madison (0) Platte (0) Saunders

EMERGENCY: 0

July 15, 2020

TO: Commenters to Public Notice
RE: Response to Public Comments
NDEQID: 112619
Program ID: LWC 25-1105
Subject: Application for Construction and Operating Permit
Tar Heel Farm, LLC

The public comment letter you submitted to the Nebraska Department of Environment and Energy (NDEE) regarding the proposed decision to approve a Construction and Operating Permit application for Tar Heel Farm, LLC has been received and reviewed. We appreciate the interest you provided in this notice.

Tar Heel Farm, LLC, a large concentrated animal feeding operation, is proposing to build 16 dry litter barns in Butler County. The application was submitted for a proposed 760,000 head of broiler chickens.

The Department's authority to regulate animal feeding operations comes from statutes passed by the Nebraska Legislature and subsequent regulations approved by the Environmental Quality Council and Governor. The requirements are found in Title 130, *Livestock Waste Control Regulations*. The regulations can be found on the Department's web page at <http://dee.ne.gov> and are also available on request. Each application for a Construction and Operating Permit is reviewed to determine if the proposed operation meets all Title 130 requirements.

The following is a summary of the concerns that were expressed pertaining to the issuance of the permit, followed by the Department's response:

Impacts to Surfacewater and Application of Waste

Title 130, Chapter 11, 005 requires all livestock wastes removed from the facility and the animal feeding operation itself to be land applied or stockpiled in a manner which will not contribute to water pollution. In addition, Title 130, Chapter 5, 007.02 states there shall be no discharge of manure, litter, or process wastewater pollutants into waters of the state from the production area or land application area. Furthermore, Title 130, Chapter 9, 007 states manure, litter, and process wastewater may not be land applied closer than 100 feet to any down gradient surface waters. Manure may be applied closer than 100 feet, provided a 35-foot wide vegetative buffer is used, or a documented alternative conservation practice is used that provides a reduction of pollutants equal to, or better, than reductions that would be achieved by the 100 foot setback.

If it is observed these regulations are not being met, please notify the Department.

Concerns Beyond the Program's Regulatory Authority

The following concerns are outside the authority of the Department's permitting process for CAFOs. The Legislature has given counties the authority to implement land use planning and adopt zoning regulations. Road conditions and issues are under county jurisdiction. The NRDs are responsible for groundwater

quantity issues. The Department has not been given authority of the water that runs off of the building. The only authority the Department has is from an active construction site or dealing with water that has come into contact with livestock waste.

The Department has completed its review and concluded that a Construction and Operating Permit should be issued for Tar Heel Farms, LLC. The Department issued the Construction and Operating Permit on July 15, 2020. The permit and application may be viewed at our Lincoln office. Please send a written request to the Records Management Unit to arrange for an appointment to view the files (Phone 402-471-3557 or FAX 402-471-2909). This information can also be found on the Department's web site, <http://dee.ne.gov>, under "Request for Public Records". Select "Public Records Search" and type 112619 as the DEE Facility Number.

Sincerely,

A handwritten signature in black ink, appearing to read "Cay Ewoldt", is positioned above the typed name.

Cay Ewoldt, Supervisor
Agriculture Section
Water Permits Division
cay.ewoldt@nebraska.gov

LIVESTOCK PROGRAM APPROVAL SLIP

TYPE OF LETTER: **Response to Public Comments**

OPERATION: Tar Heel Farm, LLC

IIS #: **112619**

DRAFTER: Cay Ewoldt

PROGRAM ID #: **25-1105**

DATE: *May 21, 2020*

LEGAL DESCRIPTION: W 1/2, NE 1/4, Section 16, Township 15N, Range 01E, Butler County

REVIEWED BY:

NAME

INITIALS

DATE

Cay Ewoldt

____CE_____

____7/15/20_____

ENWRA



EASTERN NEBRASKA WATER
RESOURCES ASSESSMENT

Spring Technical Remote Meeting Packet

July 23, 2020

ENWRA Technical Agenda

- ENWRA Budget and Account
- Pilot Study Sites
- AEM Updates
- Data management
- Partner Updates
- Upcoming ENWRA Plans/Activity/Direction
 - Upcoming Projects - ENWRA \$120k for FY21
 - Upcoming Meetings, Presentations

Budget

Updated figures as of June 30, 2020 fiscal year end in red

ENWRA Fiscal Year (FY) 2021 (21) to 2022 Budget

ENWRA FY21:	
	Budgeted
Total Bank for start of FY 21:	\$352,333.00
Planned Routine (PR) expenses:	
PR Pilot site wells/equip maint.	\$ 15,000.00
PR Pilot site water sampling *	\$ 18,800.00
PR Weather stations	\$ 7,800.00
PR Deep THs or other \$9,150 use (LENRD & LPSNRD)	\$ 18,300.00
PR Website	\$ 540.00
PR Coordinator Salary (UNL Coop Agree. Y4 of 5)	\$ 61,705.00
PR Coord. Office Reimbursement to LPSNRD	\$ 5,000.00
PR AEM Database/Data Man. efforts (NGC Y1/2)	\$ 35,987.66
Subtotal	\$ 163,132.66
Committed (C) and/or Suggested (S) expenses for consideration:	
C NGC (Interlocal portion only, ENWRA portion included in data management above)	\$ 29,900.00
S Other Projects, Grants? - from Bank (toward a common scope or est. \$20,000 for ENWRA to pay out to each NRD as needed for hydrogeologic assessment work?)	\$ 120,000.00
Subtotal	\$ 149,900.00
TOTAL	\$ 313,032.66
Plus Incoming FY21 Dues: \$147,000 + \$29,900	\$ 176,900.00
Plus interest on banked funds:	\$ 700.00
Estimated Bank going into FY22:	\$ 216,900.34

*Includes \$9,000 routine costs for pilot site sampling with new pricing, plus \$200 for Nitrate AquaTroll 600 checking, plus \$9,600 for one time extra parameter costs.

ENWRA FY22:	
	Budgeted
Total Bank for start of FY 22:	\$ 216,900.34
Planned Routine (PR) expenses:	
PR Pilot site wells/equip maint.	\$ 15,000.00
PR Pilot site water sampling (routine plus 3 new metals)*	\$ 13,000.00
PR Weather stations	\$ 7,800.00
PR Deep THs or other \$9,150 use (LCNRD & LPNRD)	\$ 18,300.00
PR Website	\$ 590.00
PR Coordinator Salary (UNL Coop Agree. Y5 of 5, TBD 3% here)	\$ 63,368.00
PR Coord. Office Reimbursement to LPSNRD (computer, office)	\$ 5,000.00
PR AEM Database/Data Man. efforts (ENWRA part of NGC)	\$ 25,000.00
Subtotal	\$ 148,058.00
Committed (C) and/or Suggested (S) expenses for consideration:	
C Nebraska GeoCloud (Interlocal portion only, ENWRA portion included in data management above)	\$ 29,900.00
S Other Projects, Grants? - from Bank (ex bedrock surface, AEM data eval at pilot sites across NRD boundaries, USGS?)	\$ 120,000.00
Subtotal	\$ 149,900.00
TOTAL	\$ 297,958.00
Plus Incoming FY22 Dues: \$147,000 + \$29,900	\$ 176,900.00
Plus interest on banked funds:	\$ 700.00
Estimated Bank going into FY23:	\$ 96,542.34

*Includes \$9,000 routine costs for pilot site sampling with new pricing, plus \$4,000 for maybe 3 new added routine parameter costs plus Nitrate AquaTroll 600 checking.

Lab Budget for Pilot Sites – starts July 2020

Routine List: was previously \$60/sample now \$100/sample for 86 samples plus shipping and supplies

New parameters: \$120/sample for 86 samples plus shipping (same containers)

East NE Water Res Assess	13611 B Street Omaha, NE	
Account #22712		
EXISTING LIST:		
PARAMETERS (Aqueous)	METHOD	
Hardness Dissolved	calc	
Calcium ICP Dissolved	EPA 200.7	
Iron ICP Dissolved	EPA 200.7	
Magnesium ICP Dissolved	EPA 200.7	
Manganese ICP Dissolved	EPA 200.7	
Potassium ICP Dissolved	EPA 200.7	
Sodium ICP Dissolved	EPA 200.7	
Alkalinity by Titration	SM 2320 B-1997	
Chloride by Ion Chromatography	EPA 300.0	
Conductivity	SM 2510 B	
Nitrate/Nitrite by Cadmium Reducti	EPA 353.2	
Sulfate by Ion Chromatography	EPA 300.0	
Total Dissolved Solids	SM 2540 C-1997	
pH	SM 4500-H+ B-2000	
Estimated Total per Sample		
Estimated Project Total for Estimated Volume (86 Samples)		

Account #22712		
SUGGESTED LIST:		
PARAMETERS (Aqueous)	METHOD	
Arsenic ICP-MS Dissolved	EPA 200.8	
Barium ICP Dissolved	EPA 200.7	
Cadmium ICP Dissolved	EPA 200.7	
Chromium ICP Dissolved	EPA 200.7	
Lead ICP-MS Dissolved	EPA 200.8	
Mercury Dissolved	EPA 245.1	
Selenium ICP-MS Dissolved	EPA 200.8	
Silver ICP Dissolved	EPA 200.7	
Sodium ICP Dissolved	EPA 200.7	
Uranium ICP-MS Dissolved	EPA 200.8	
Estimated Total per Sample		
Estimated Project Total for Estimated Volume (86 Samples)		

Village of Firth had a hit of selenium recently, one time screen for Uranium and other metals might be good

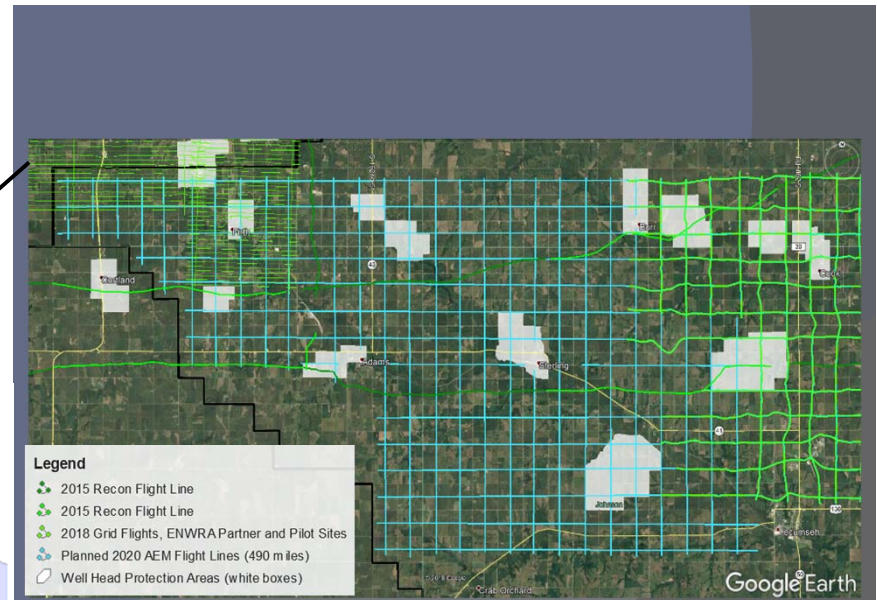
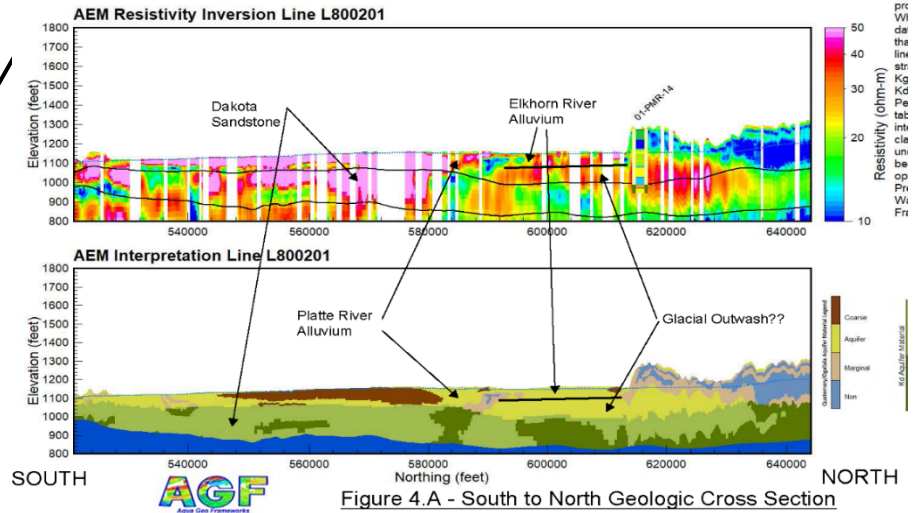
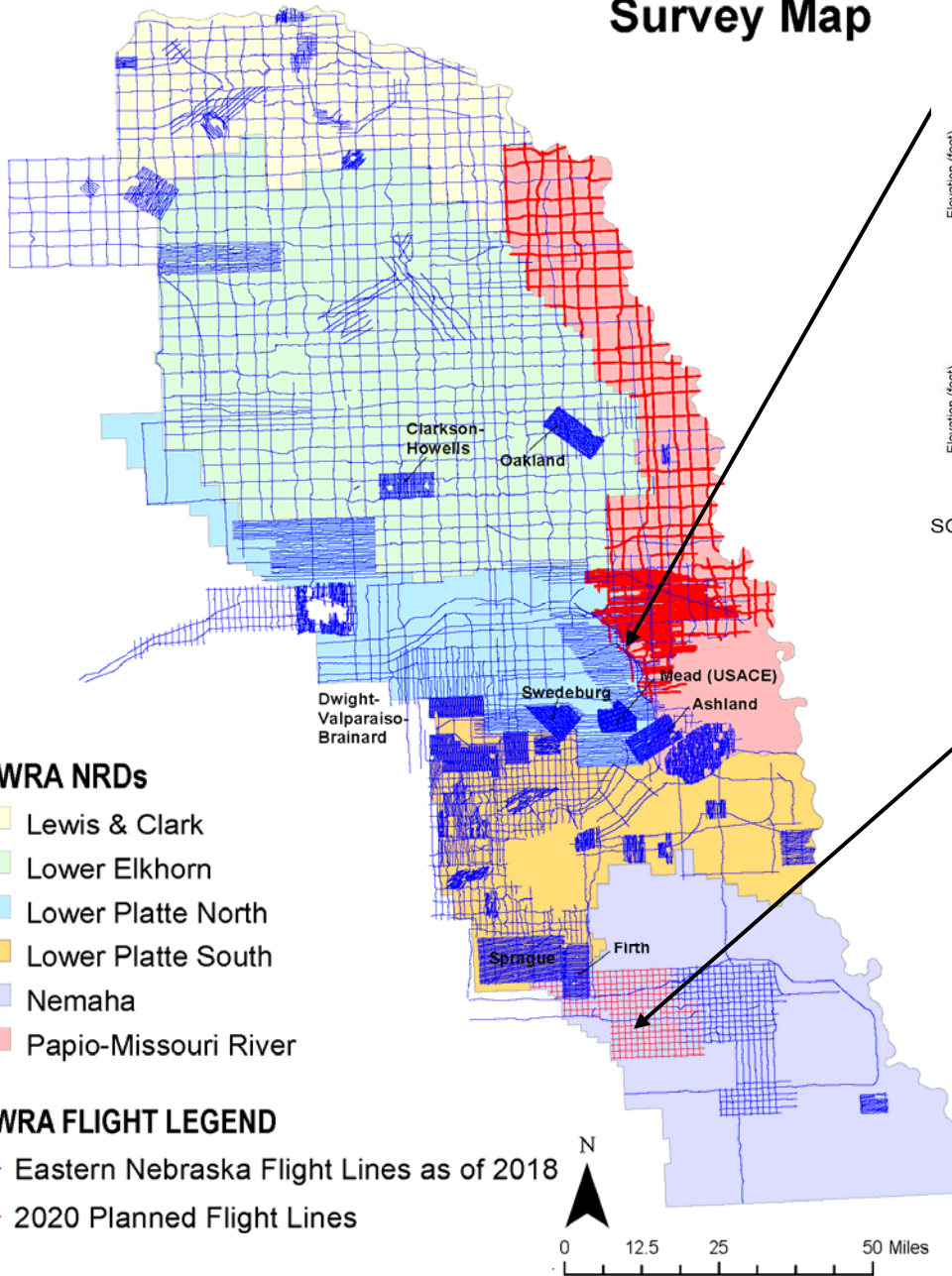
\$9,150 Budget for Test Holes & other :

Test Holes Drilled Along Flight Lines - Schedule for Using ENWRA Fund Credits	ENWRA's Fiscal Budget Year	Test Hole Amounts out of ENWRA banked funds:
P-MRNRD reimbursed \$9,150 through Dues credit for 2015 holes	FY16	\$9,150
LPNNRD reimbursed \$9,150 through Dues credit for June 2015 holes	FY17	\$18,300
NNRD reimbursed for \$9,150 through Dues credit for October 2016 holes		
LENRD \$9,150 check from ENWRA for May 2018 holes	FY18	\$18,300
LCNRD \$9,150 check from ENWRA for May 2018 holes		
LPNNRD \$9,150 check \$9,150 scheduled to LPSNRD and to NNRD (ENWRA coordinator in-kind logging of test holes for NNRD NET grant award)	FY19	\$27,450
\$9,150 to P-MRNRD, \$9,150 to LCNRD Dec 2019	FY20	\$18,300
Future: \$9,150 to LPSNRD, \$9,150 to LENRD	FY21	\$18,300
Future: \$9,150 to PMRNRD, \$9,150 to LCNRD	FY22	\$18,300
Future: \$9,150 to LPNNRD, \$9,150 to NNRD	FY23	\$18,300
Future: \$9,150 to LPSNRD, \$9,150 to LENRD	FY24	\$18,300
Future: \$9,150 to PMRNRD, \$9,150 to LCNRD	FY25	\$18,300
Future: \$9,150 to LPNNRD, \$9,150 to NNRD	FY26	\$18,300
Future: \$9,150 to LPSNRD, \$9,150 to LENRD	FY27	\$18,300

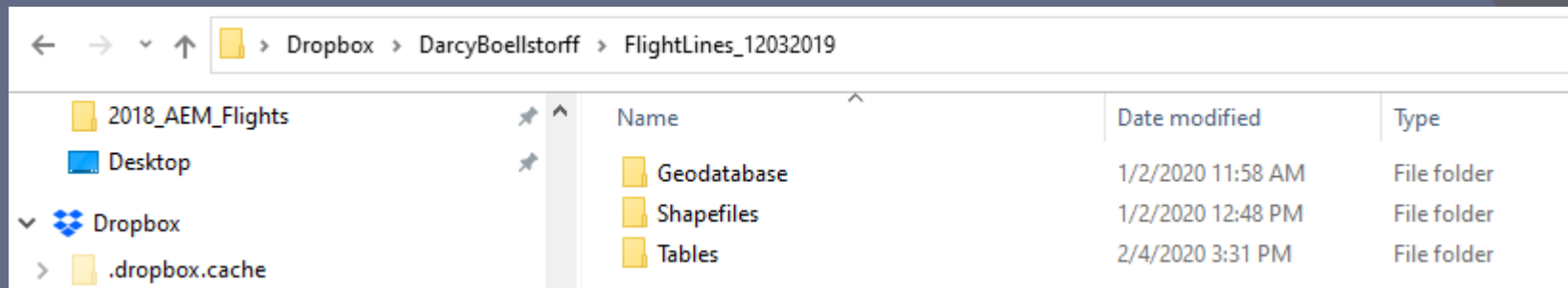
- \$9,150 can be used for any assessment work and will come as a check from ENWRA

2020 AEM Flights

ENWRA Airborne Survey Map



AEM: Darcy B's Sabbatical work



Darcy created 18 attributed shapefiles, a geodatabase, and a merge excel table with 2,036 named and attributed flight lines (excerpts next 2 pages):

- **Geodatabase** (surveys in Feature Class format with a “Merge” Feature Class with all surveys)
- **Shapefiles** (surveys in Shapefile format with a “Merge” Shapefile with all surveys) – the 2014-2015 ENWRA recon and 2014 LENRD grid lines called “AEM” shapefile is not in the EPSG 32104 Merge file with miles & meters yet
- **Tables** (Excel table of all flight lines except the 2014-2015 ENWRA recon and LENRD lines)

Left to do:

Edit the 2018 line names to match the reports, get the 2014-2015 “AEM” shapefile into the Merge shapefile, QC for duplicate flight numbers, potential redelivered lines with different renamed line names & lines being chopped up (look over cuts on NRD boundaries closely and edit the vertices to match up), and organize Merge shapefile by NRD in order to deliver shapefile with all lines available for each NRD – final lines will go up on GeoCloud as a dataset and used on maps for NRD website links

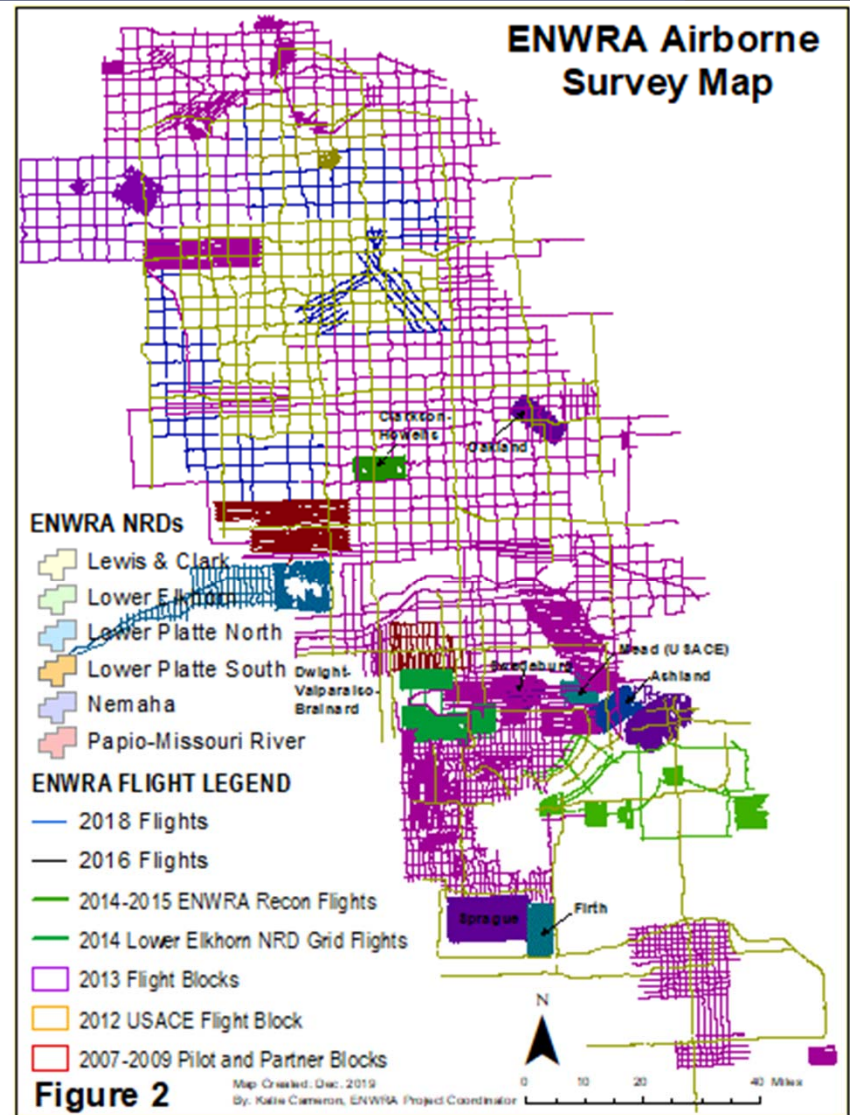
Darcy B's Shape Files in geodatabase

- I:\ENWRA\HEM_AND_AEM\DarcyBoellstorff\G
 - AEM ← 2014-2015 flights (227 lines)
 - AEM2018 854 lines
 - Ashland 2006
 - BazileCreek 2016
 - ClarksonHowells 2013
 - DVB 2013
 - ENWRA ← This is just part of LCNRD 2016
 - Firth 2007
 - LENRD 2016
 - LLNRD 2016
 - LPNNRD 2016
 - LPSNRD 2016
 - Mead_HEM 2012
 - Merge ← This shapefile has all the lines except 2014-2015 "AEM"
 - Oakland 2007
 - PMRNRD 2016
 - Sprague 2009
 - Swedeburg 2009

2014-2015 flights (227 lines)

This is just part of LCNRD 2016

This shapefile has all the lines except 2014-2015 "AEM"

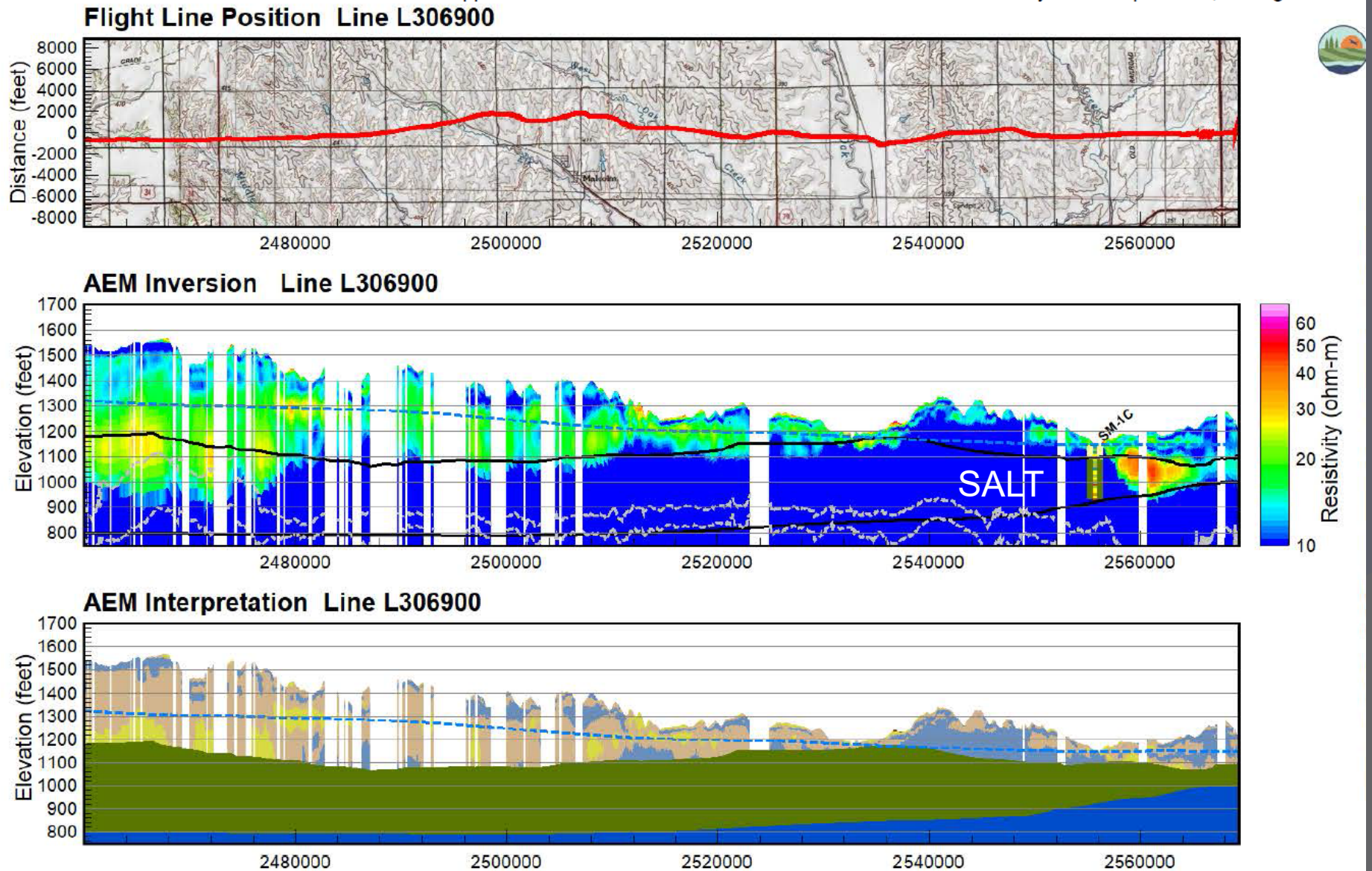


AEM: Darcy B's Merge Table: 2,036 lines

A	B	C	D	E	F	G	H	I
OBJECTID	Name	Year	BlkRec	NRD	Survey	FlightLine	Length_miles	Shape_Length
1150	20010	2006	B	LPN_LPS_PMR	ASH	ASH_2006_B_LPN_LPS_PMR_20010	8.010513501	12891.69762
1151	20020	2006	B	LPN_LPS_PMR	ASH	ASH_2006_B_LPN_LPS_PMR_20020	8.324084451	13396.34216
1152	20030	2006	B	LPN_LPS_PMR	ASH	ASH_2006_B_LPN_LPS_PMR_20030	8.304418617	13364.693
2002	201801	2018	R	N	NNRD	NNRD_2018_R_N_201801	9.831747308	15822.69519
2036	201802	2018	R	N	NNRD	NNRD_2018_R_N_201802	21.93629645	35303.11769
211	10010	2007	B	LE	OAK	OAK_2007_B_LE_10010	9.89825038	15929.72172
212	10020	2007	B	LE	OAK	OAK_2007_B_LE_10020	9.840067512	15836.08528
1026	702601	2013	B	LPS_UBB	DVB	DVB_2013_B_LPS_UBB_702601	5.05332735	8132.558315
1027	702701	2013	B	LPS_UBB	DVB	DVB_2013_B_LPS_UBB_702701	5.045410926	8119.818041
1028	702801	2013	B	LPS_UBB	DVB	DVB_2013_B_LPS_UBB_702801	5.047891041	8123.809407
1029	702901	2013	B	LPS_UBB	DVB	DVB_2013_B_LPS_UBB_702901	5.042912872	8115.797805
952	Dup_Tie_504901_504903_504904_304901	2013	B	LPS_UBB	DVB	DVB_2013_B_LPS_UBB_Dup_Tie_504901_504903_504904_304901	0.466870385	751.3565549
728	30010	2007	B	LPS_N	FIR	FIR_2007_B_LPS_N_30010	4.31808216	6949.293514
729	30020	2007	B	LPS_N	FIR	FIR_2007_B_LPS_N_30020	4.339338139	6983.501765
680	683206	2016	R	LE	LENRD	LENRD_2016_R_LE_683206	20.21742301	32536.85349
688	683206	2016	R	LE	LENRD	LENRD_2016_R_LE_683206	6.041907849	9723.527592
692	148801	2016	R	LE_LC	LENRD	LENRD_2016_R_LE_LC_148801	13.11799883	21111.41493
717	295802	2016	R	LE_LC	LENRD	LENRD_2016_R_LE_LC_295802	11.9858792	19289.44136
704	362305	2016	R	LE_UE	LENRD	LENRD_2016_R_LE_UE_362305	20.9586357	33729.72206
689	486808	2016	R	LE_UE	LENRD	LENRD_2016_R_LE_UE_486808	20.67814918	33278.32188
1418	904001	2018	B	LE	LENRD	LENRD_2018_B_LE_904001	6.767325085	10890.9758
1193	909401	2018	R	LC	LCNRD	LCNRD_2018_R_LC_909401	7.777568125	12516.80763
1186	910701	2018	R	LC	LCNRD	LCNRD_2018_R_LC_910701	8.383291574	13491.62698
1334	1101102	2018	R	LC_LE	LCNRD	LCNRD_2018_R_LC_LE_1101102	6.944495718	11176.10487
1292	1202101	2018	R	LC_LE	LCNRD	LCNRD_2018_R_LC_LE_1202101	24.42554195	39309.178
1286	1101801	2018	R	LC_PMR	LCNRD	LCNRD_2018_R_LC_PMR_1101801	19.55724268	31474.39411
1297	1101901	2018	R	LC_PMR	LCNRD	LCNRD_2018_R_LC_PMR_1101901	5.418530595	8720.297142
722	118701	2016	R	LE	LENRD	LENRD_2016_R_LE_118701	11.95212205	19235.11438
1637	602601	2018	R	LPN	LPNNRD	LPNNRD_2018_R_LPN_602601	4.387185813	7060.505287
1515	160001	2018	R	LPN_LPS_PMR	LPNNRD	LPNNRD_2018_R_LPN_LPS_PMR_160001	21.88700474	35223.7902
1651	501402	2018	R	LPN_PMR	LPNNRD	LPNNRD_2018_R_LPN_PMR_501402	8.265096992	13301.41086
1522	800201	2018	R	PMR	LPNNRD	LPNNRD_2018_R_PMR_800201	4.1556564	6687.89407
324		2016	R	LPS_N	LPSNRD		15.98746579	25729.3836
326		2016	R	LPS	LPSNRD		9.525164916	15329.29766
448	143501	2016	B	LPS	LPSNRD	LPSNRD_2016_B_LPS_143501	3.507498027	5644.782194

AEM Salt example (<10 ohm-m) near Lincoln

Appendix 1. 2D Profiles – 2016 EFSNRD Inverted AEM Resistivity and Interpretation, All Flight Lines



Data Management: Nebraska GeoCloud

Workshop 2018 Are

GeoCloud - Nebraska

Help Projects Map Data Map Projects Administration Data Administration Katie Cameron

Filter projects by name...

Startup Templates

- Groundwater_Data_Template
- Hydrostratigraphic_Model_Template
- AEM_Data_Template

Projects

- Bazile GMA 2016
- DEMO ONLY: Southwest Pierce County - ...
- Eastern Nebraska Water Resources Asse...
- Eastern Nebraska Water Resources Asse...
- Lewis & Clark NRD 2016
- Lewis & Clark NRD 2018
- Lower Elkhorn NRD 2014
- Lower Elkhorn NRD 2016
- Lower Elkhorn NRD 2018
- Lower Elkhorn NRD Clarkson 2013
- Lower Elkhorn NRD Elkhorn River 2014
- Lower Elkhorn NRD Madison 2013
- Lower Loup NRD 2016
- Lower Loup NRD 2019
- Lower Platte North NRD 2016

- Review July 1st introduction to standards and guidelines <http://snr.unl.edu/csd/geology/nebraskageocloud.aspx>

Data Management:

ENWRA Dropbox:
Many folders are
linked to the ENWRA
website:

format based on interpretation of HEM data collected in 2007. Click [here](#) for a link to download the data (you can select "no thanks" to the pop-up and still download the files).



Pilot Site Groundwater Water Level, Weather and Sampling Data

Dropbox Links to obtain data:

Click [here](#) to access ENWRA's Ashland, Oakland and Firth groundwater data folders. Dropbox is free for users but when downloading data, please save to your computer hard drive (choose direct download) so as to not fill up space on your personal dropbox account (168 MB)

ENWRA Meetings and Presentations

2020 Agendas, Minutes and Power Points

January Presentation  [Download](#) (PPT, 71 MB)

February Presentation  [Download](#) (PPT, 69 MB)

Minutes from Previous Years




Dropbox > ENWRA_WaterLevelandSamplingData

Overview

Click here to describe this folder and turn it into a Space [Show examples](#)

Create new file ▾

Name ↑

-  ENWRA_Quality_Data
-  ENWRA_Transducer_Data
-  ENWRA_WeatherStation_Data

ENWRA Dropbox:

- ENWRA archive folder
- Full AEM report deliverables
- ENWRA power points
- Pilot Site Lab & Transducer data
- Weather station data

Data Management – ENWRA Archive

Access Database has 5,187 PDF files organized by County, large map scans, and 73 cross-section scans:

<https://www.dropbox.com/sh/ecn95nbxs4fty77/AAB87da3BoLVxRA-12o1iksja?dl=0>

Name	Date modified	Type	Size
Christopherson Logbooks	1/2/2020 12:19 PM	File folder	
County Files from drawers in 201	1/2/2020 11:59 AM	File folder	
CountyandGW_Pubs_Dana	2/7/2020 2:06 PM	File folder	
Files	1/2/2020 1:40 PM	File folder	
oversized PDFs	1/2/2020 11:58 AM	File folder	
Xsectionsans	1/2/2020 12:47 PM	File folder	
ENWRAArchivedFiles	4/23/2020 9:45 AM	Microsoft Access ...	7,068 KB
OFR109_Introduction	5/5/2011 2:32 PM	Adobe Acrobat D...	55 KB
ReadMe	6/9/2011 12:00 PM	Adobe Acrobat D...	34 KB

The screenshot shows the Microsoft Access 2010 interface with the Search dialog box open. The dialog box has a search bar at the top and a 'Filter Type' dropdown set to 'And'. Below the search bar are five filter categories, each with a list of search terms:

- Counties:** Boone, Burt, Butler, Cass, Cedar, Colfax, Cuming, Dakota, Dixon, Dodge, Douglas, Johnson, Knox, Lancaster, Madison, Nemaha, Otoe, Pawnee
- Doc Types:** aquifer test, article, chart, cross section, cross sections, diagram, engineer drawings, field trip notes, geologic log, geophysical log, injection test, letter, map, notes, photograph, pump test, pumping test report
- Keywords (a-p):** bedrock, Cambrian, dam, drainage, drill rig at night, environmental impact stater, flood control, geology, geotechnical, grain size, law suit, percolation, permeability
- Keywords (q-z):** sewage lagoon, site assessment, stream flow, test hole locations, topography, transmissivity, underground storage tank, vapor chemistry, water levels, water quality, water supply, water use, well construction, wellhead protection
- Locations:** Abie, Administrative subdivisio, Agnew, Agriculture Research and, Air Force Base Auxiliary Si, Air Force Base Auxiliary Si, Air Force Base Auxiliary Si, Air Force Base Auxiliary Si, Air Force Base Auxiliary Si, Air Force Base Nike Site LI, Allen, Allied Chemical and Dye C, Alvo, Ames, Antelope Creek, Antelope park

Data Management

ENWRA Access Database water quality parameters:

ID	SampleCode	SampleDate	SampleTime	Analytes	Result	Unit	Qual	<DL
23816	OAK12210	8/20/19	12:03:00 PM	Iron	0.12	mg/L		<input type="checkbox"/>
23817	OAK12210	8/20/19	12:03:00 PM	Magnesium	25.4	mg/L		<input type="checkbox"/>
23818	OAK12210	8/20/19	12:03:00 PM	Manganese	0.19	mg/L		<input type="checkbox"/>
23819	OAK12210	8/20/19	12:03:00 PM	Nitrate/Nitrite	0.2	mg/L		<input checked="" type="checkbox"/>
23820	OAK12210	8/20/19	12:03:00 PM	pH	6.9	S.U.		<input type="checkbox"/>
23821	OAK12210	8/20/19	12:03:00 PM	Potassium	4.18	mg/L		<input type="checkbox"/>
23822	OAK12210	8/20/19	12:03:00 PM	Sodium	21.16	mg/L		<input type="checkbox"/>
23823	OAK12210	8/20/19	12:03:00 PM	Specific conduct	682	umhos/cm		<input type="checkbox"/>
23824	OAK12210	8/20/19	12:03:00 PM	Sulfate	19.6	mg/L		<input type="checkbox"/>
23825	OAK12210	8/20/19	12:03:00 PM	Total Dissolvec	506	mg/L		<input type="checkbox"/>
23826	OAK12255	8/20/19	12:50:00 PM	Alkalinity, Total	356	mg/L		<input type="checkbox"/>
23827	OAK12255	8/20/19	12:50:00 PM	Calcium	96.54	mg/L		<input type="checkbox"/>
23828	OAK12255	8/20/19	12:50:00 PM	Chloride	4.7	mg/L		<input type="checkbox"/>
23829	OAK12255	8/20/19	12:50:00 PM	Hardness	351.8	mg Eq CaCO3/L		<input type="checkbox"/>
23830	OAK12255	8/20/19	12:50:00 PM	Iron	0.05	mg/L		<input checked="" type="checkbox"/>
23831	OAK12255	8/20/19	12:50:00 PM	Magnesium	26.89	mg/L		<input type="checkbox"/>
23832	OAK12255	8/20/19	12:50:00 PM	Manganese	0.13	mg/L		<input type="checkbox"/>
23833	OAK12255	8/20/19	12:50:00 PM	Nitrate/Nitrite	2.83	mg/L		<input type="checkbox"/>
23834	OAK12255	8/20/19	12:50:00 PM	pH	7.1	S.U.		<input type="checkbox"/>
23835	OAK12255	8/20/19	12:50:00 PM	Potassium	5.36	mg/L		<input type="checkbox"/>
23836	OAK12255	8/20/19	12:50:00 PM	Sodium	23.52	mg/L		<input type="checkbox"/>
23837	OAK12255	8/20/19	12:50:00 PM	Specific conduct	703	umhos/cm		<input type="checkbox"/>
23838	OAK12255	8/20/19	12:50:00 PM	Sulfate	42.4	mg/L		<input type="checkbox"/>
23839	OAK12255	8/20/19	12:50:00 PM	Total Dissolvec	440	mg/L		<input type="checkbox"/>
*	(New)							<input type="checkbox"/>

Data Management Discussions

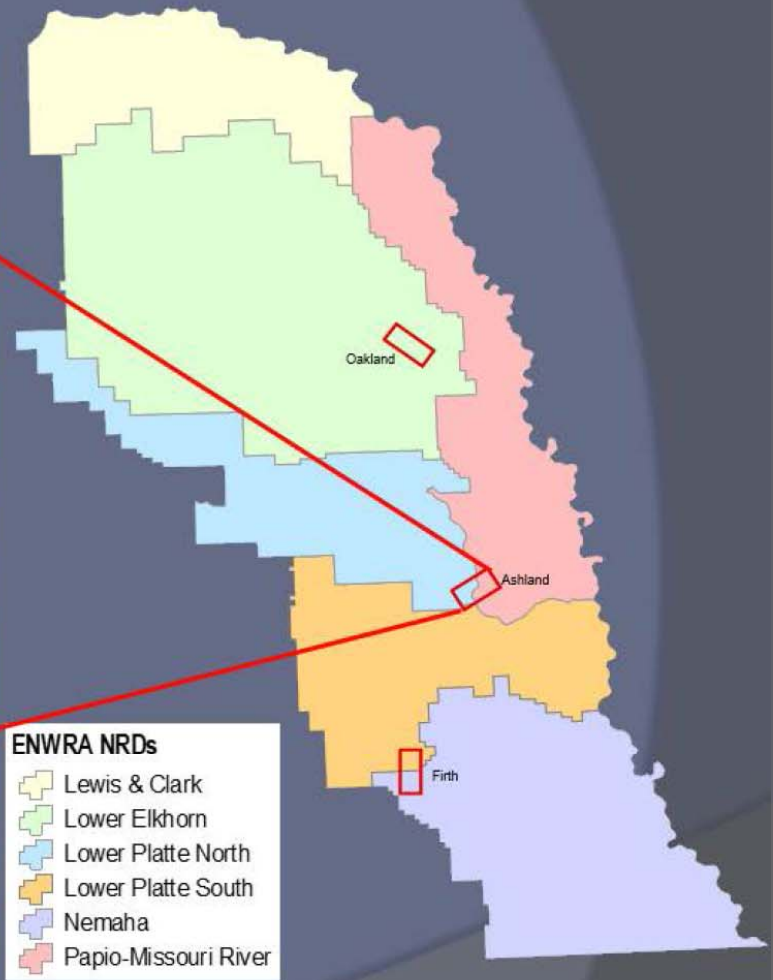
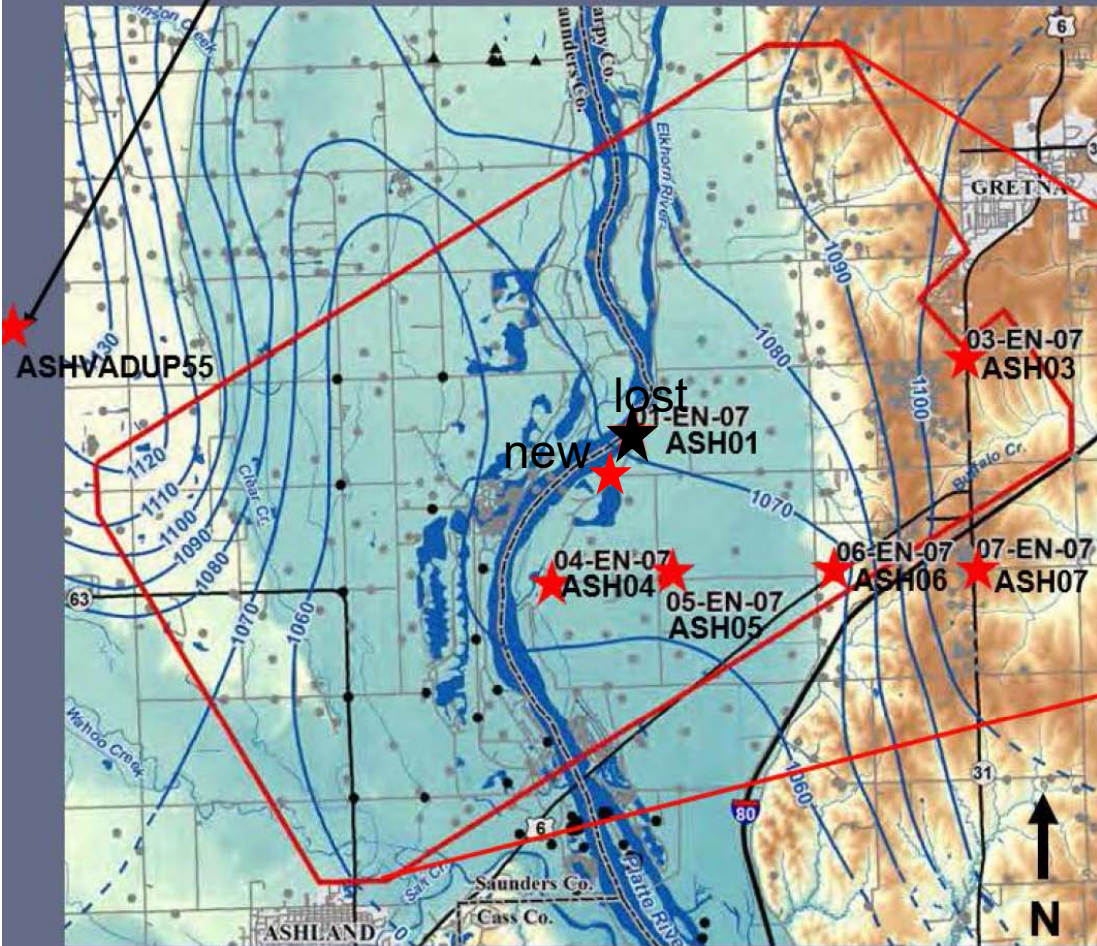
- ENWRA Archive, a regional resource like the test hole database – added a link on ENWRA website under downloads tab
- Dropbox still works with links from the ENWRA website but public has some extra clicks to get in now
- Get flight line shapefiles ready for Nebraska GeoCloud – Nemaha lines are up, working on others. Clipping questions for group.
- Video tutorials on .kmz files, using Dropbox are in progress and will need review - rough drafts are done but needs testing

Pilot Sites – Transducers Update:

- The pilot site well locations have vented Level Troll 500 transducers except for ASH01, ASH03, ASH04 and ASH06 (absolute 300, 400, 500s)
- New Wireless Troll Com and VuSitu mobile are used for downloading all except the Troll 300s (older obsolete units still require rugged reader)
- Hourly readings deplete the batteries faster but Ashland 01 & 04 sites near the Platte River, Firth 03, 04 & 07, and Oakland 05-30 & 03-15 are set to hourly. The rest are set to 8 hour readings at 5pm, 1am, 9am (+ or – an hour)
- Once downloaded, data from each site is compiled (hourly and 8-hour) on summary graphs in excel for observing trends with precip. from weather stations and river gages (15 min. data)
- Field and office work are documented (paper & electronic)

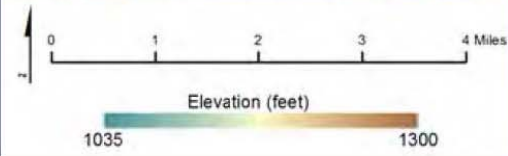
Ashland Wells

ASHLAND Vadose Upland Well



- ENWRA NRDs**
- Lewis & Clark
 - Lower Elkhorn
 - Lower Platte North
 - Lower Platte South
 - Nemaha
 - Papio-Missouri River

— Water table contour (feet)
 - - - Extrapolated water table contour (feet)
 (contour interval 10 ft.)



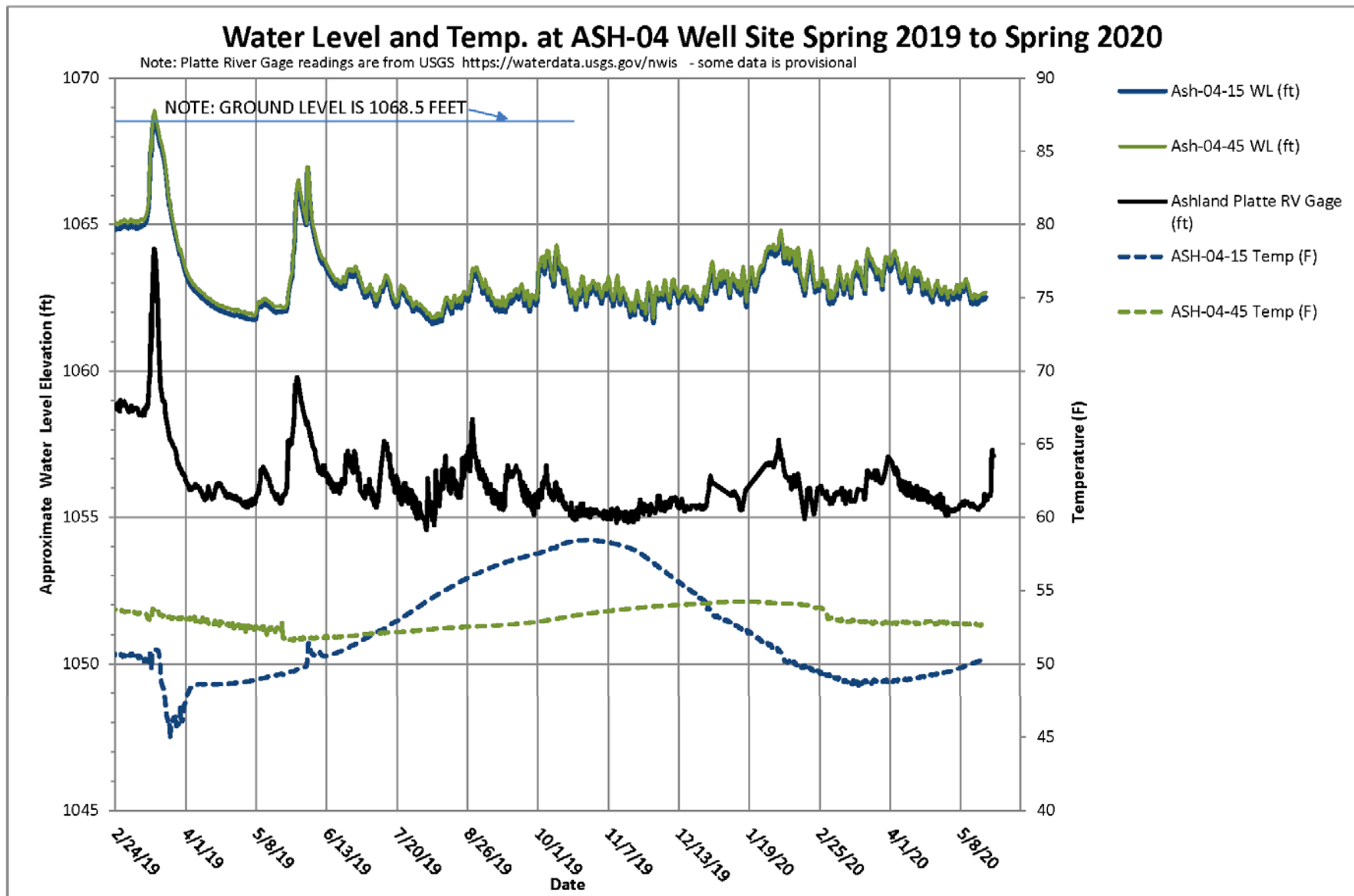
- Monitoring well clusters at 7 locations plus Todd Valley well
- 21 wells sampled annually
- 18 wells have transducers

Pilot Study Sites - Ashland

- The four Ashland wells lost in the March 2019 flooding: ASH01-15, ASH01-50, ASH01-75, ASH01-113 were replaced (shallow replacement is an existing USACE piezometer). Transducers have been installed and are recording hourly temp and water levels in the screen intervals at these 4 wells with a barometer for post level corrections.
- The new deep well needs redevelopment and is being considered through the Papio-Missouri River NRD's review of other well maintenance needs in their District (ENWRA will reimburse PMRNRD like for the installations).
- Two deep pumps and two transducers at the ASH03 site on Capehart Rd & Hwy 6 south of Gretna have been replaced but well screens still need cleaning, purging and flushmount design needs modification to keep runoff away. Also the ASH07 pump needs checking on.

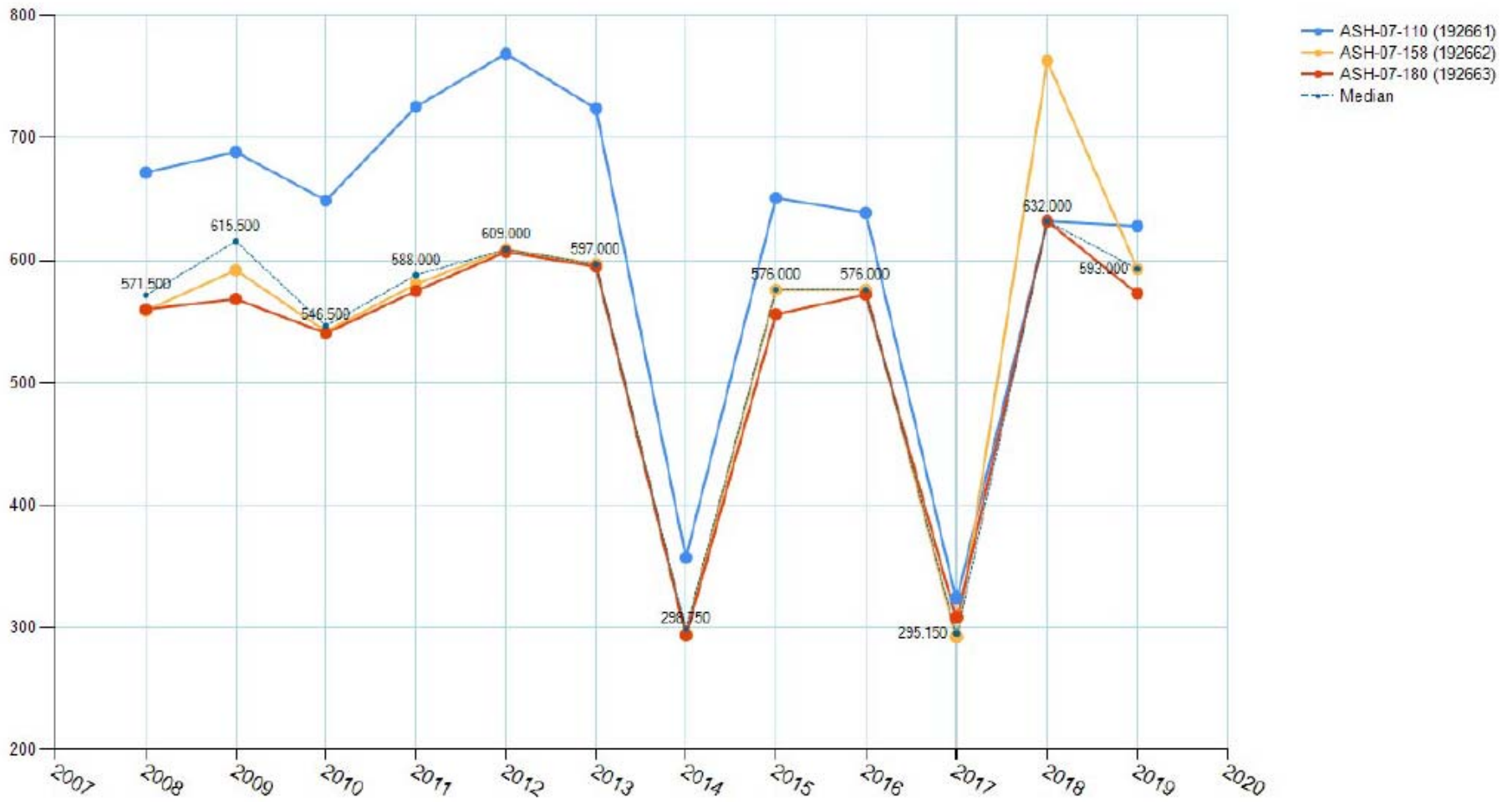


Ashland Site Transducer Example:

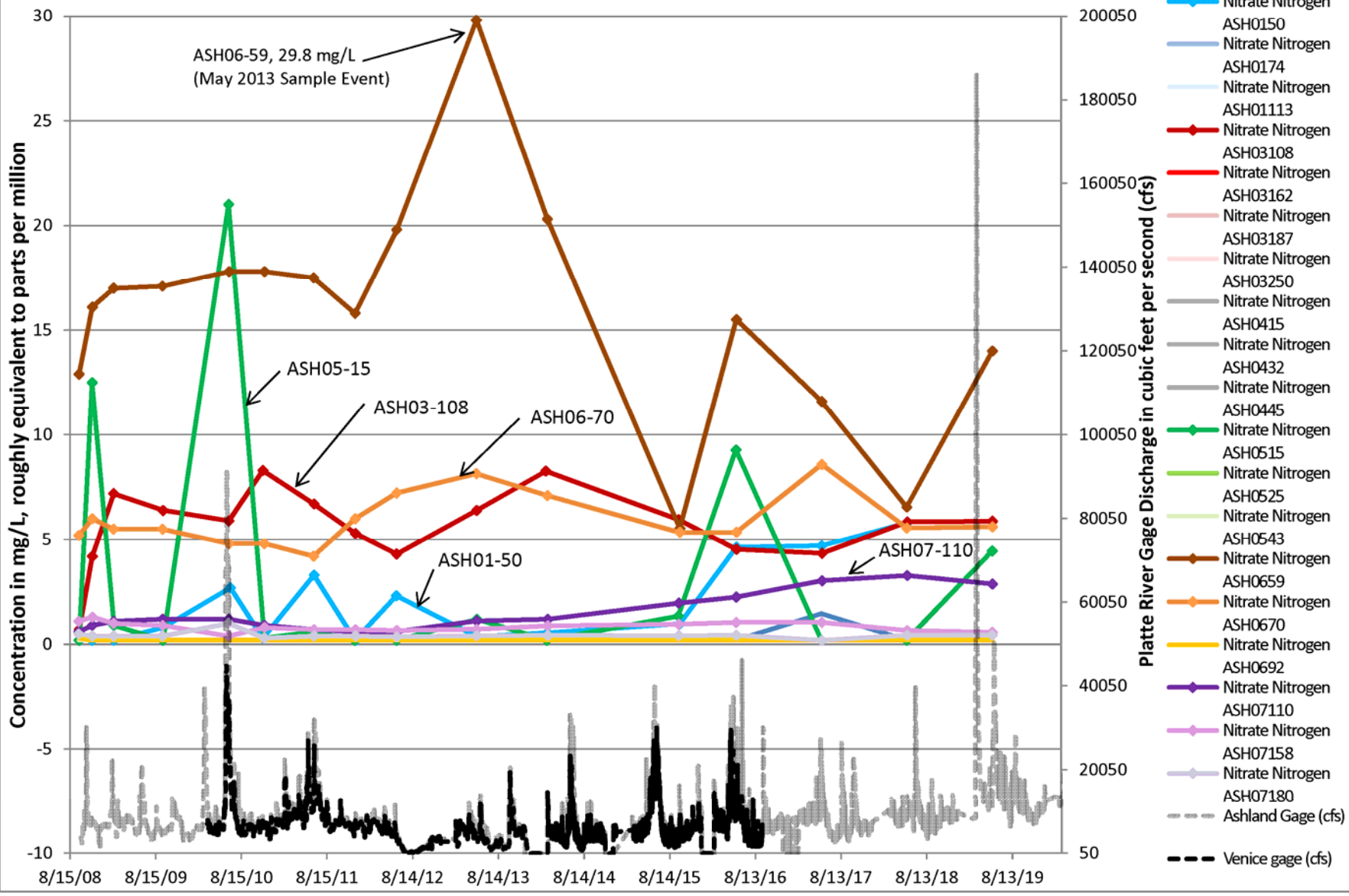


Almost all ASHLAND Site Conductivity Graphs show dips in 2014 and 2017:

Conductance

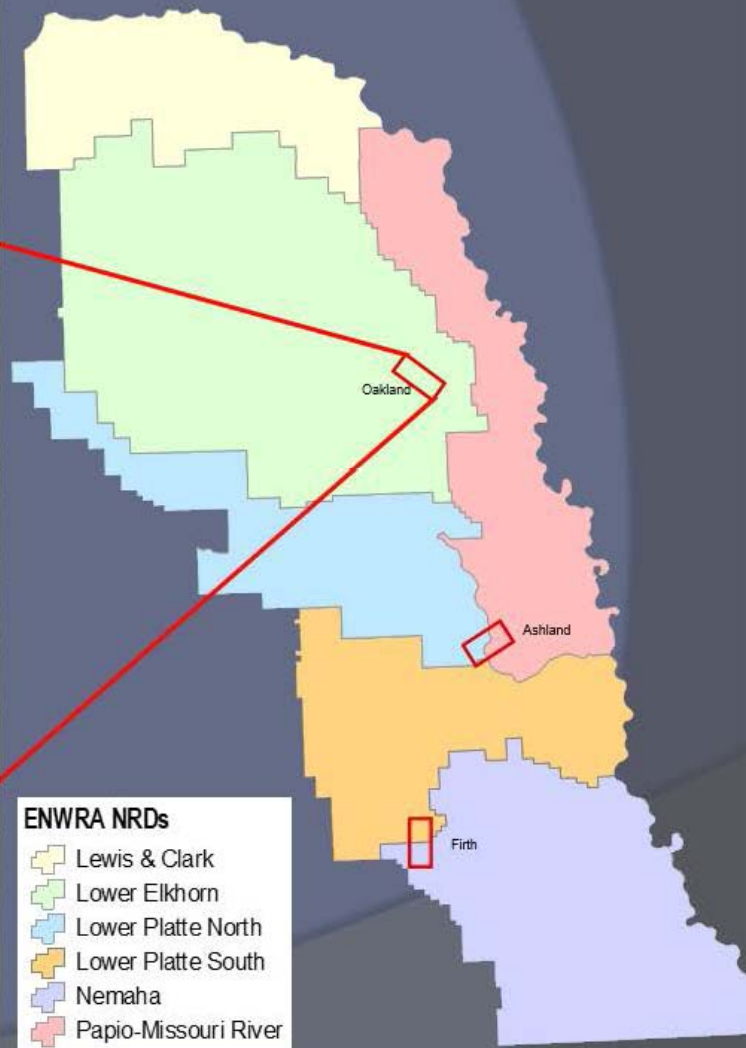
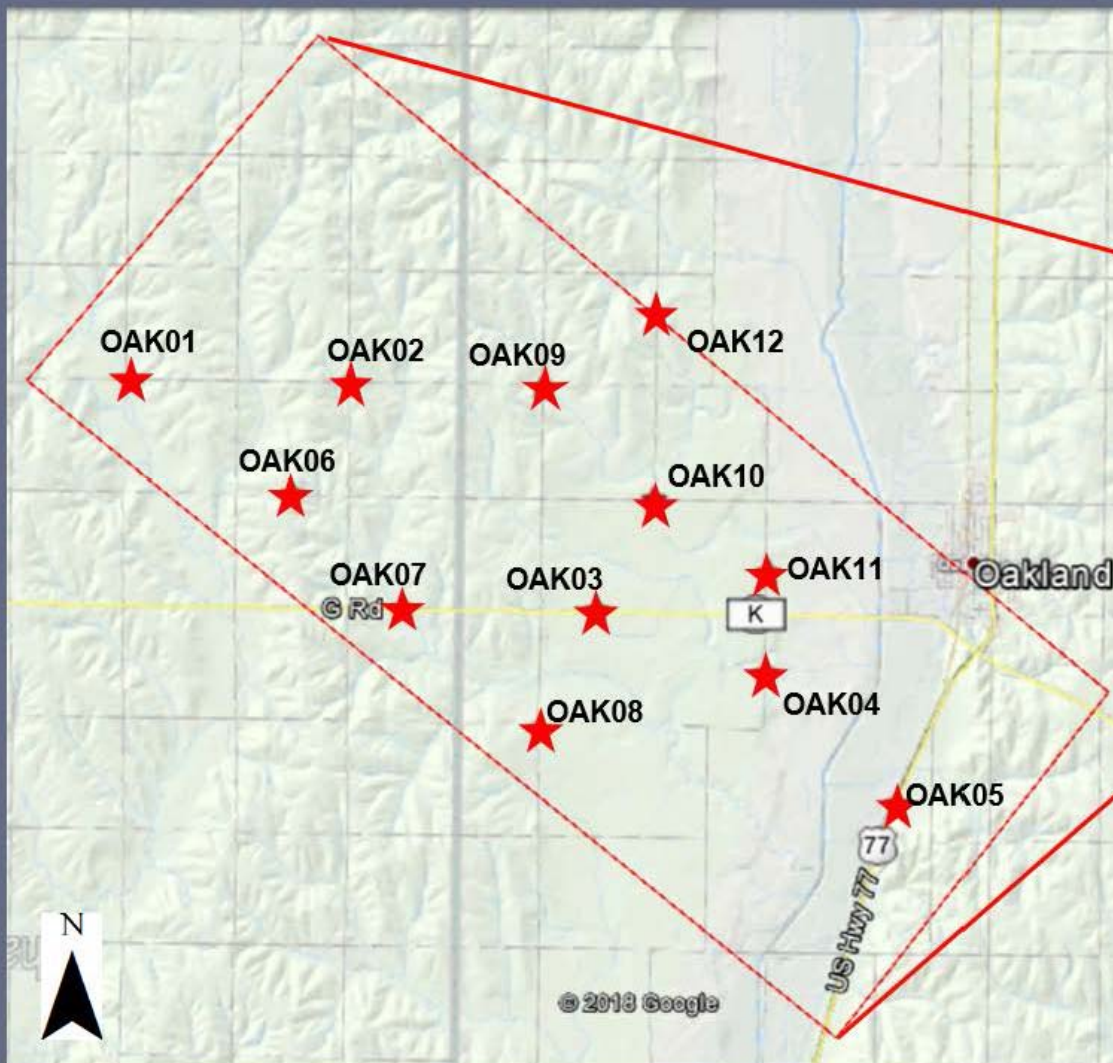


Ashland Pilot Study Wells - Nitrate Concentrations (mg/L) V.S. River Flow (cfs)



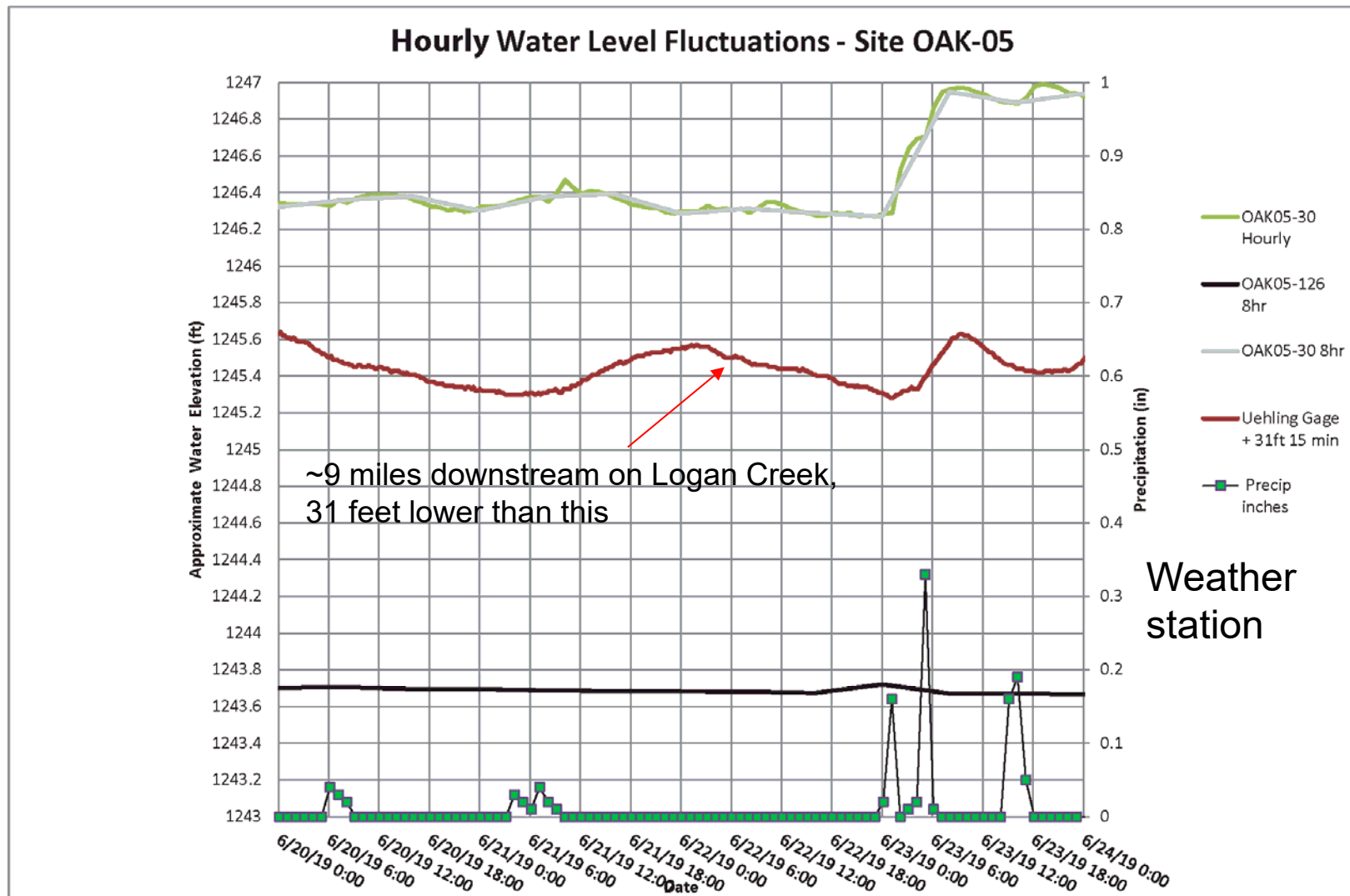
Oakland Wells

- Monitoring well clusters at 12 locations
- 33 wells sampled annually
- 20 wells have transducers



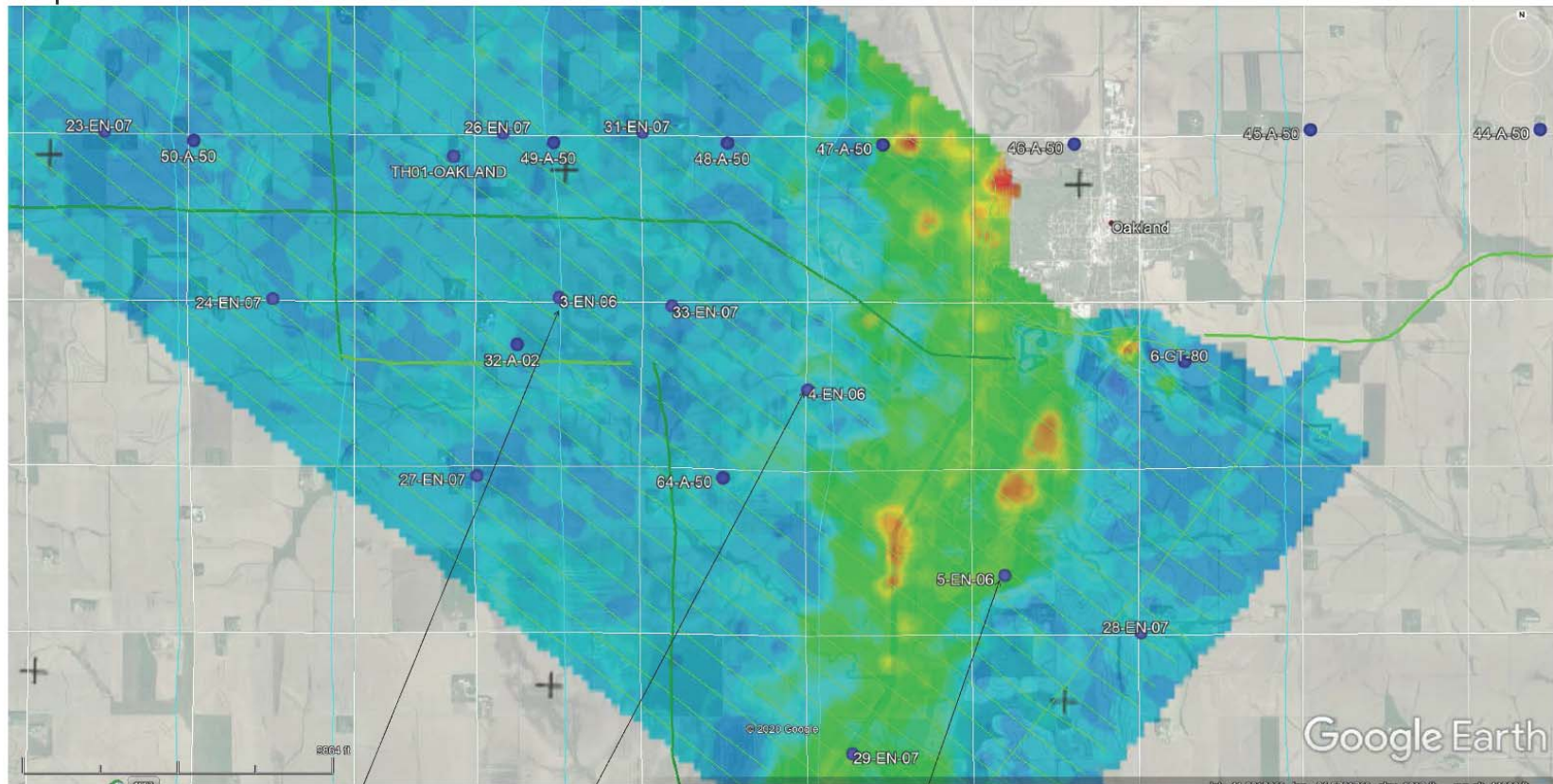
Oakland Site Transducer Example:

OAK05-82 well will get a transducer and OAK05-30 & OAK05-82 have telemetry



OAK05-30 transducer will get telemetry

Depth Slice 29 feet



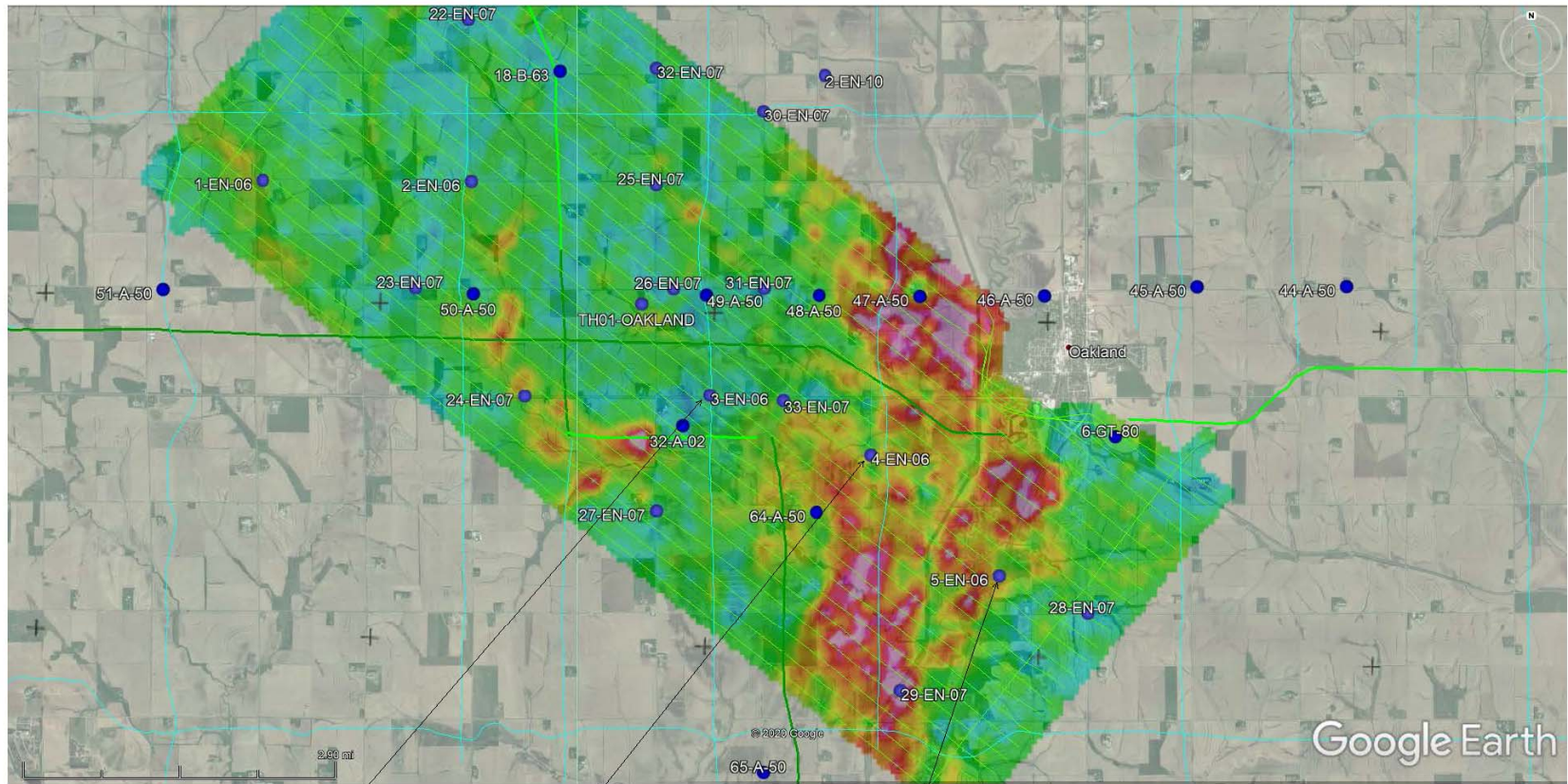
OAK03 Site

OAK04 Site

OAK05 Site

OAK05-82 well trans. & telemetry

Depth Slice 84 feet

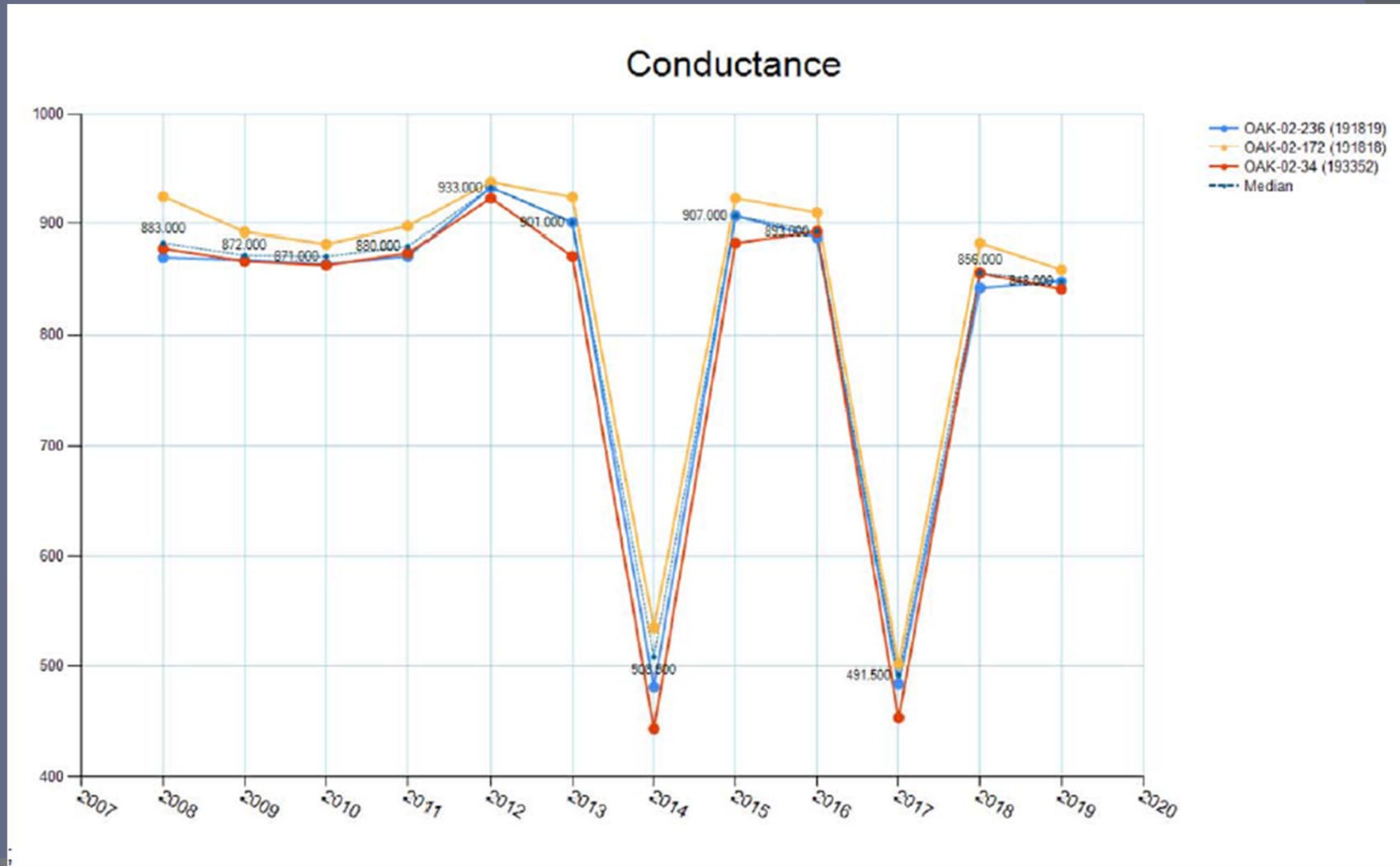


OAK03 Site

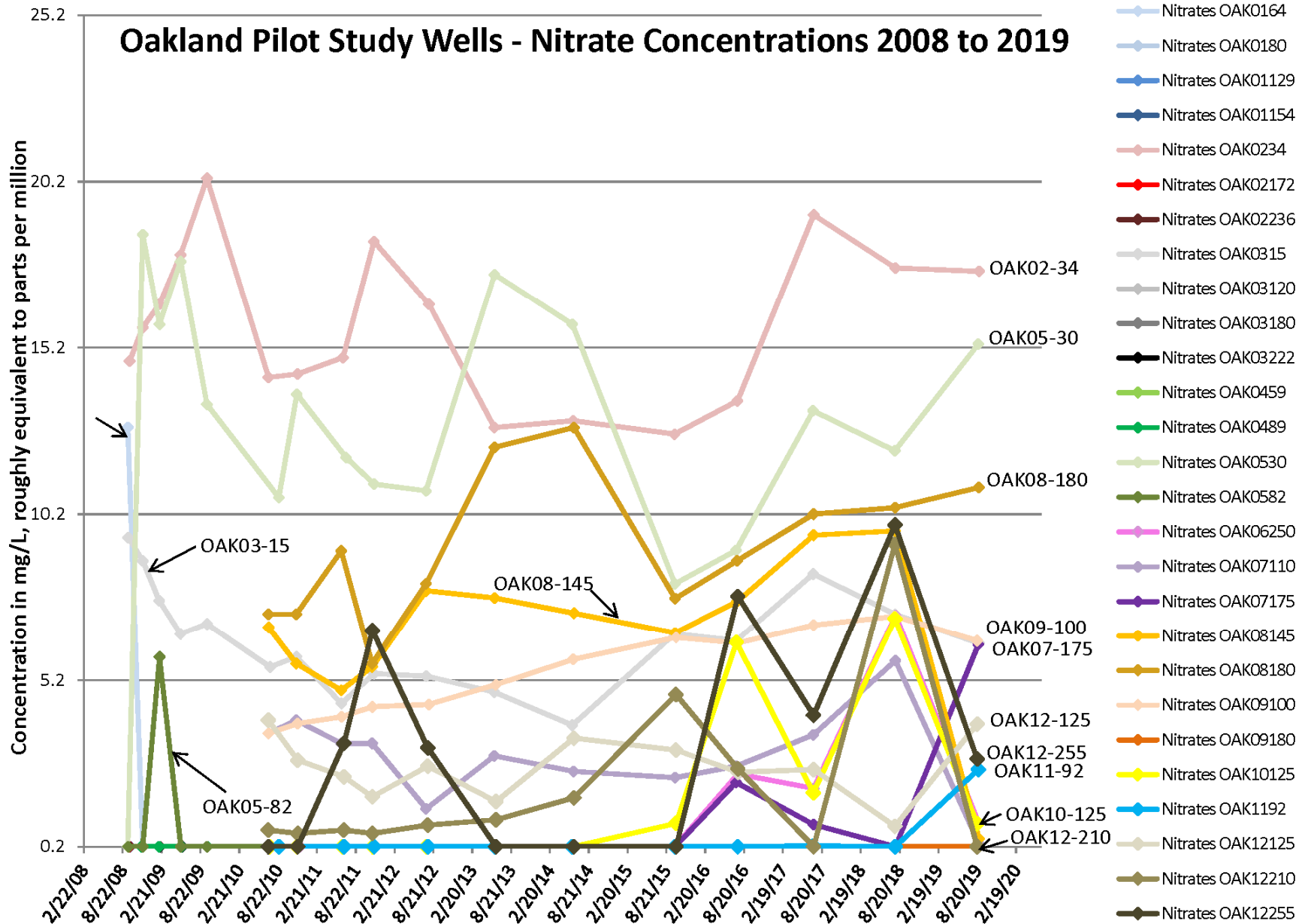
OAK04 Site

OAK05 Site

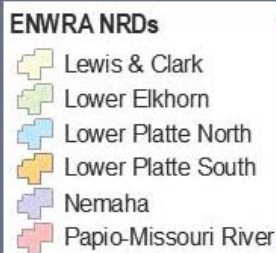
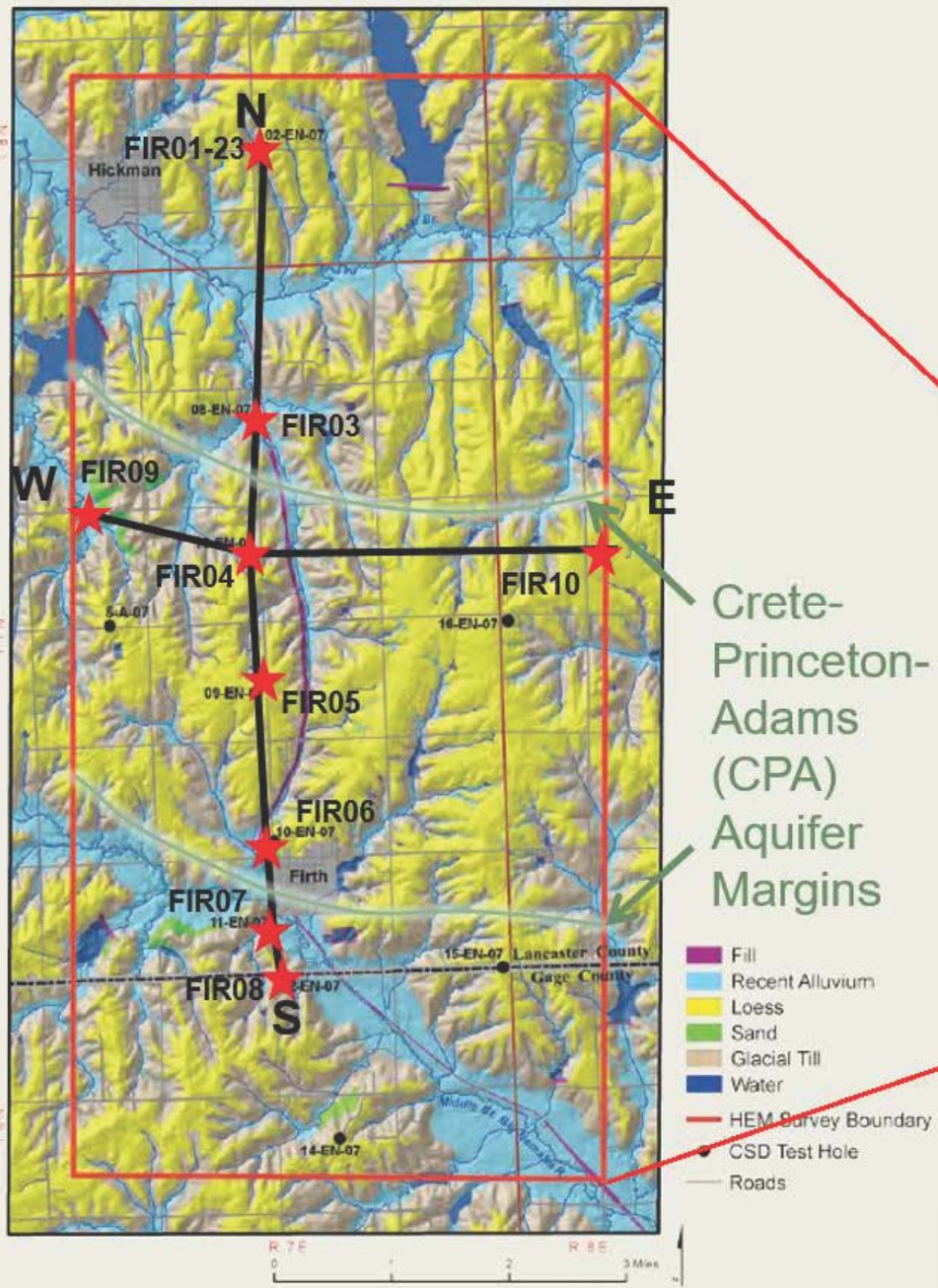
Almost all OAKLAND Site Conductivity graphs show dips in 2014 and 2017:



Oakland Pilot Study Wells - Nitrate Concentrations 2008 to 2019

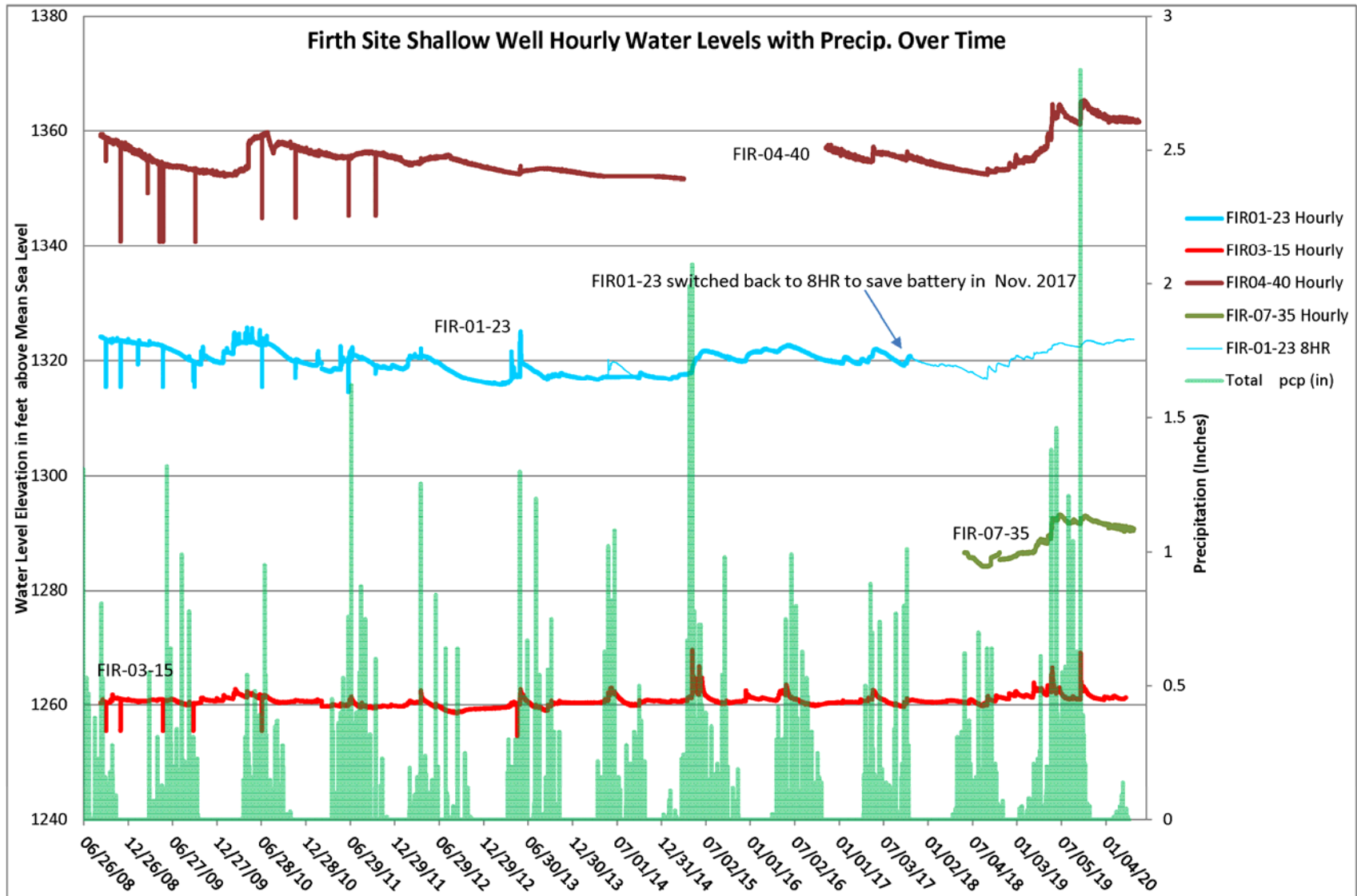


Firth Wells

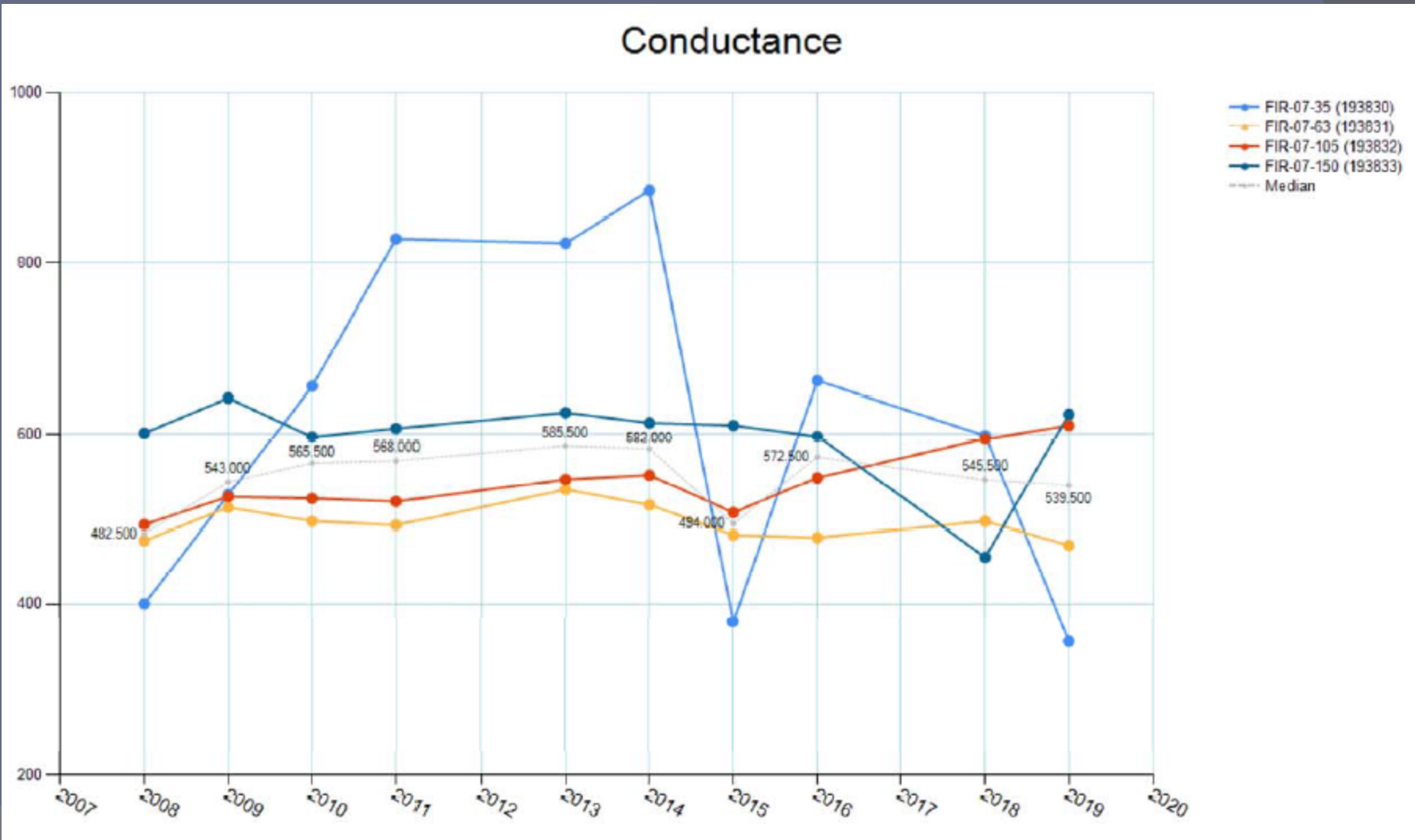


- Monitoring well clusters at 9 locations
- 30 wells sampled annually
- 18 wells have transducers

Firth Pilot Site Transducer Example:

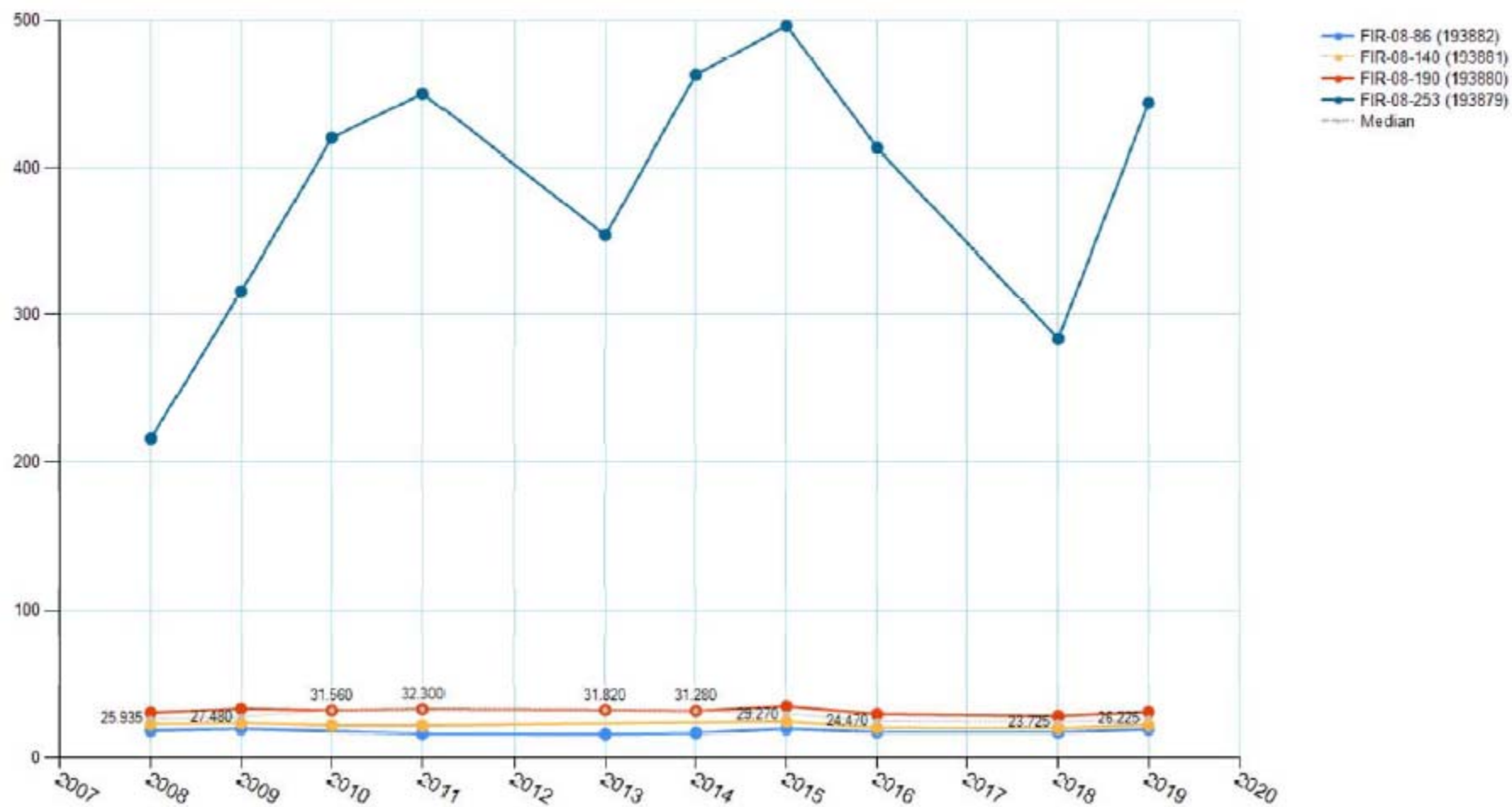


Firth Site Conductivity parameter readings example (mg/L):

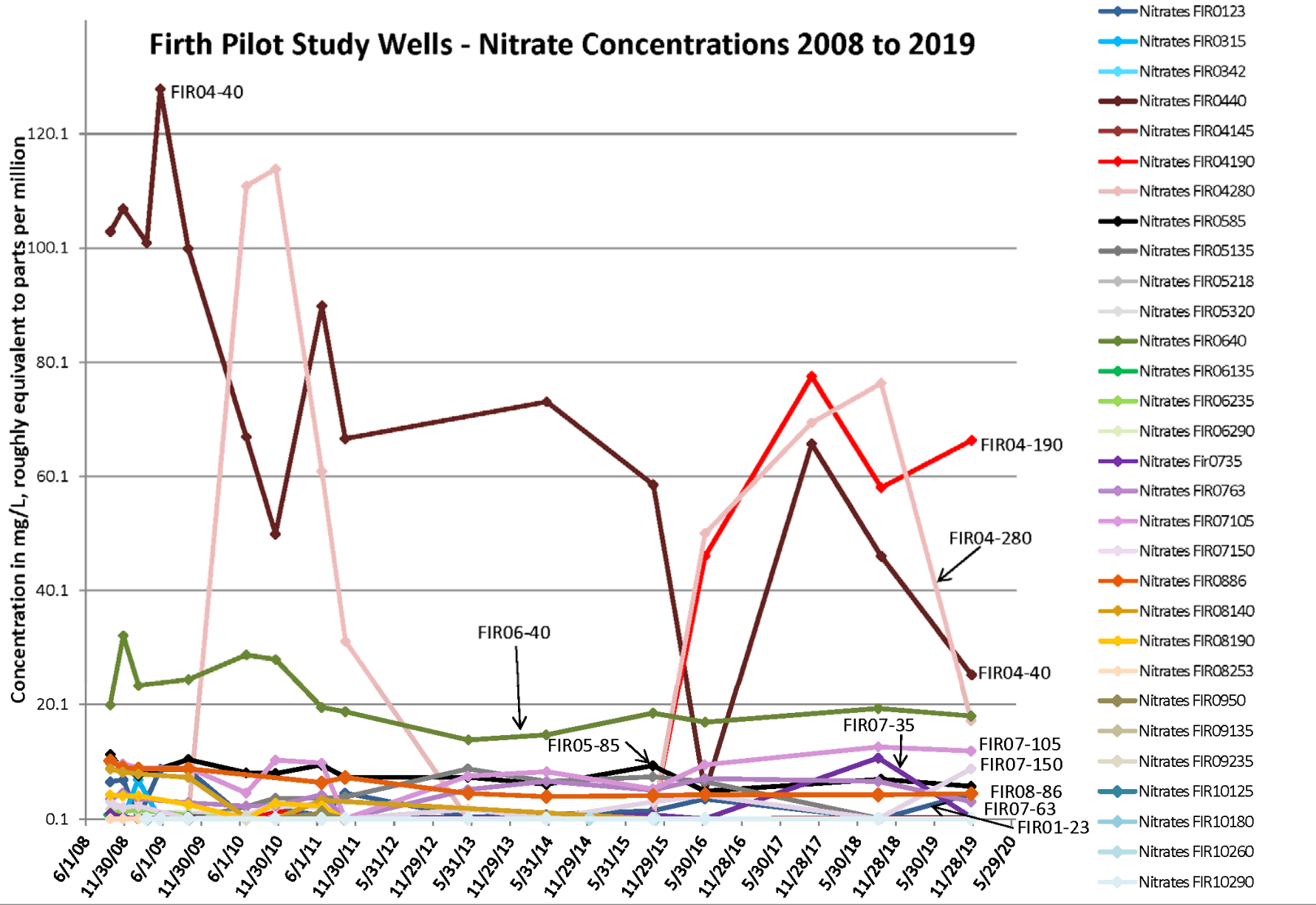


Firth 08 Site on Lan./Gage Co Line deep well has highest sodium concentrations of the Pilot Sites

Sodium

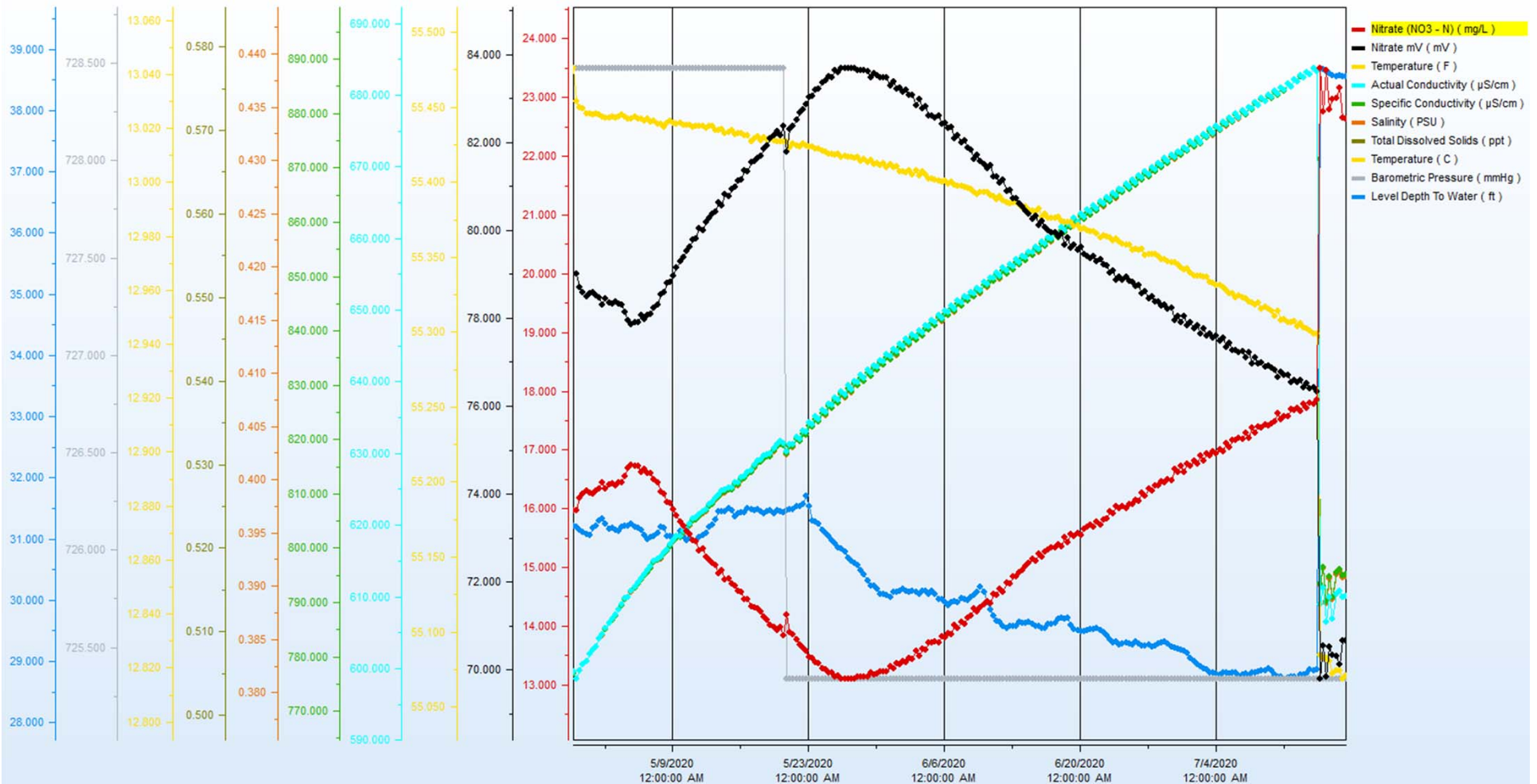


Firth Pilot Study Wells - Nitrate Concentrations 2008 to 2019



Firth FIR06-40 well AQTroll600

FIR-06



- Initial AQTroll Readings from April 28th to July 14th 2020
- Last Nitrate lab sample was 18.1 mg/L on November 19, 2019

Pilot Site Discussions

- https://www.dropbox.com/sh/kug64jl1eqk27gh/AAB3PVFTBsK9_iLZ2_8Z-KZCa?dl=0 Dropbox link has weather station data, transducer data and lab data (updated once per year)
- Pilot site water level and lab result fluctuations are compiled with river levels and precipitation, nitrate readings at AQTroll Firth site look reasonable and weekly lab sample checks started 7/17/2020
- ENWRA lab data goes to the Lower Platte South NRD database and then gets into the Clearinghouse from there
- Quality graphs are generated for each lab parameter for all wells at each well site from that database and posted on the Dropbox
- It is very time consuming to compile transducer, weather station, and quality data and create graphs but controlling the scales and contents of the graphs is key to evaluating trends
- Other ideas, recommendations on pilot sites?

Nebraska Department of Natural Resources Discussion

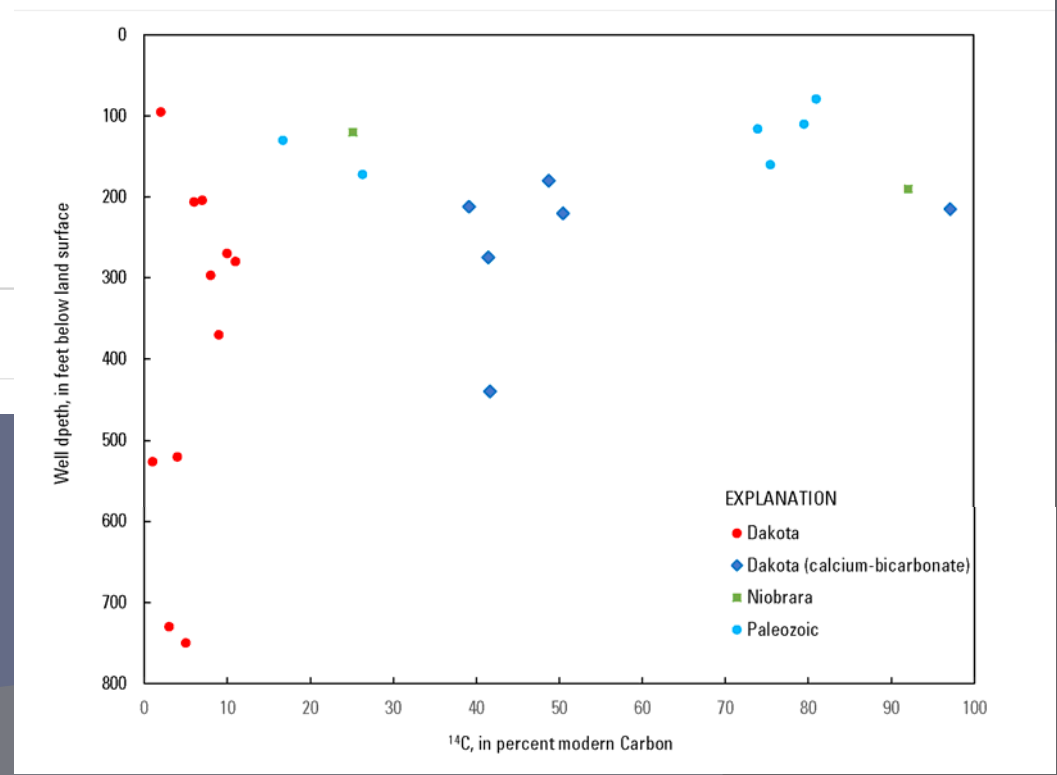
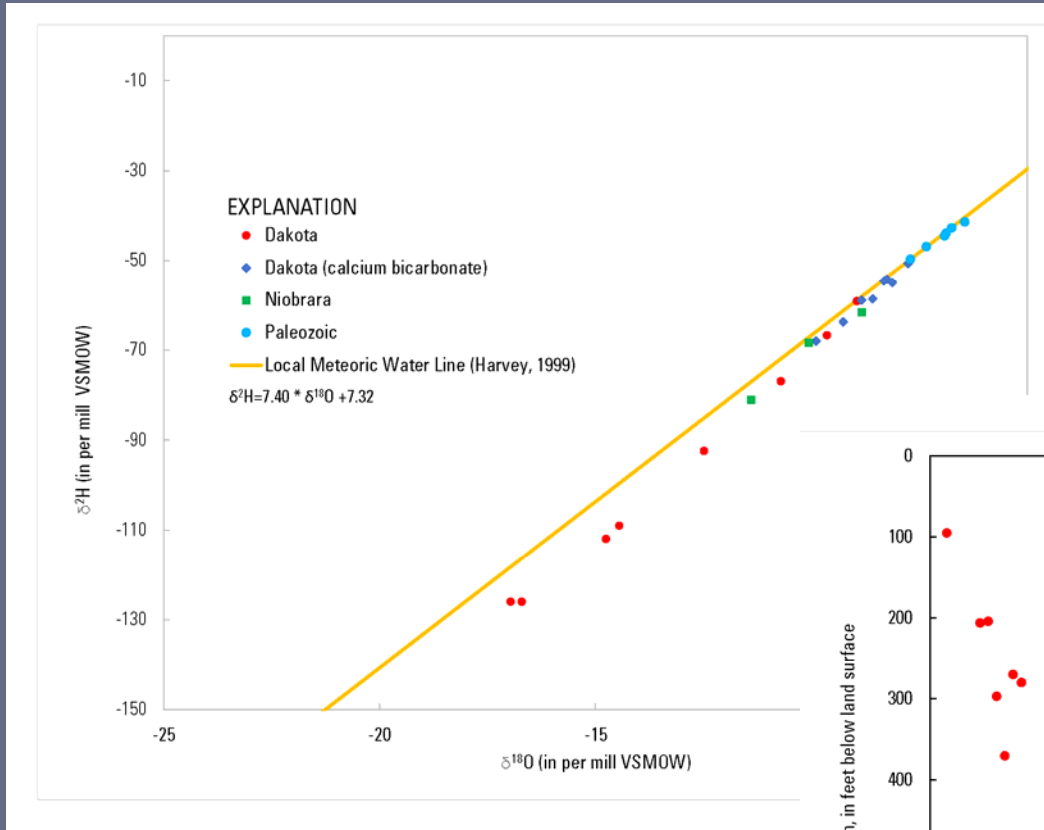
- The NeDNR would like to partner with ENWRA on coordinating transducer locations and data handling
- NRDs working with NeDNR on using AEM to inform regional numerical models & for new HCA maps
- Need to make sure future work aligns with GeoCloud efforts (standards and guidelines <http://snr.unl.edu/csd/geology/nebraskageocloud.aspx>)

Upcoming ENWRA

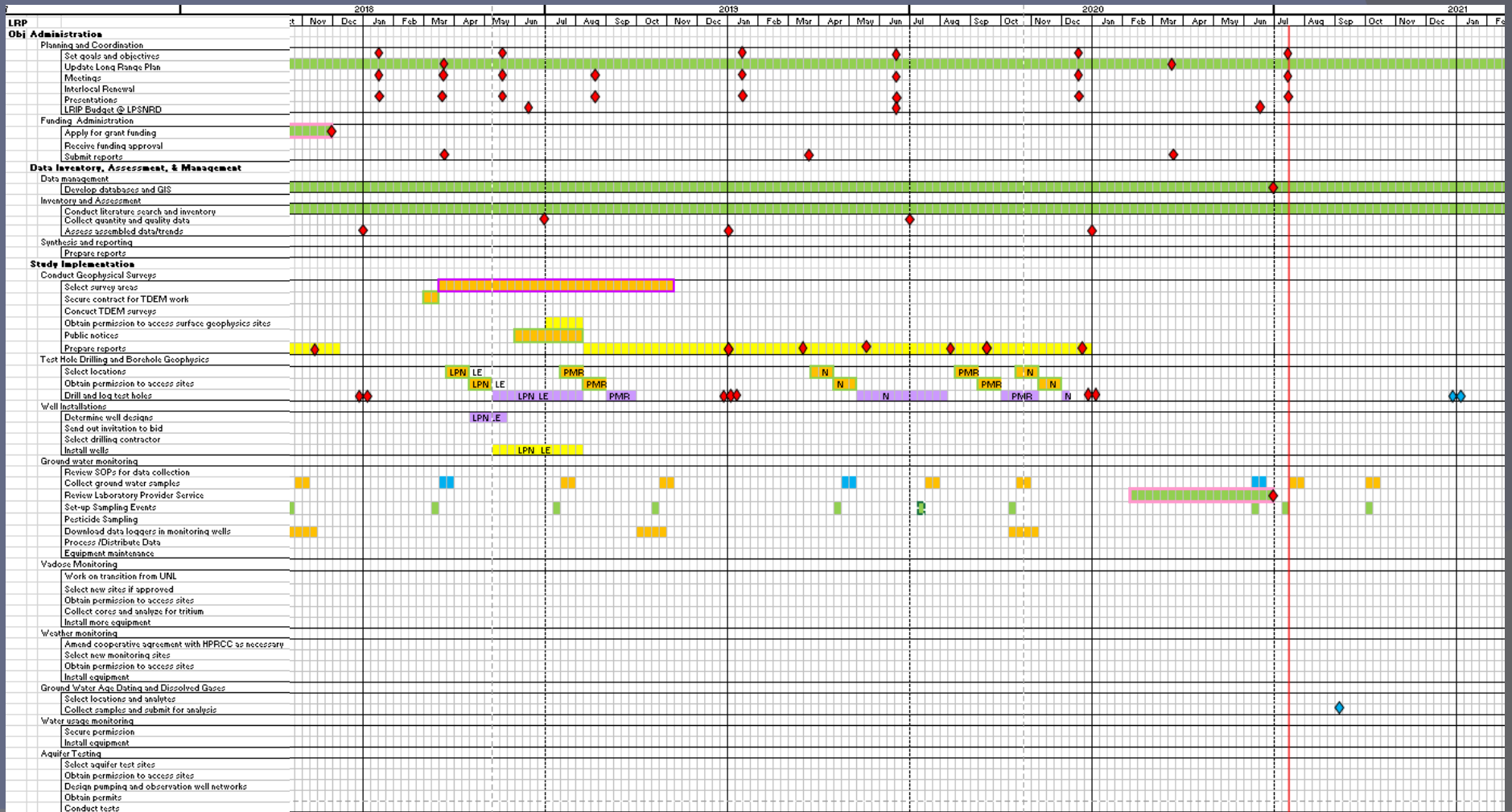
Plans/Activity/Direction

- New Projects - ENWRA has \$120,000 in FY21, \$120,000 for FY22 thoughts/plans? Around \$20,000 for each NRD toward uncoordinated efforts, mix of combined efforts/grants, or one big NET or future grant? Current proposed ideas from advisors:
 - Coordinate potential locations and ports available on NeDNR streamgage software for transducer data storage and data serving
 - AGF packaging each NRD's AEM like was done for LCNRD and providing a Dakota bedrock aquifer package (interpreted products for the Nebraska GeoCloud like provided in previous reports but specifically for the Dakota - deltaic features of resistive sediment packages and indications of salt water both pop-out in the AEM data). Nemaha NRD would need a comparable product.
 - USGS has proposal for the next steps to the Age-dating project using the AEM data existing for the ENWRA area in conjunction with existing quality and age parameter data. This would be a seed money idea around \$25,000 ENWRA funds similar to the episodic recharge project but developed from the results observed with the Age-dating project getting all of ENWRA classified into low, moderate and high categories using the AEM data and observing how well it aligns with actual lab data existing for those three area types – more detail to come in September.
 - ENWRA Long Range Plan – we have made progress with Objective #2 (former AEM mapping list) need a workplan update addendum that is updated over time?

USGS – Age Dating Examples



Upcoming ENWRA Plans/Activity/Direction



Upcoming ENWRA Plans/Activity/Direction

- Upcoming Meetings, Presentations
 - 2020 is cycle of ENWRA Updates to boards – dates TBD
 - USGS will still give virtual presentation on Age dating WSF #4125 by September hopefully and have draft ready
 - GeoCloud webinar August 27th with I-GIS – your future projects in context of the Nebraska GeoCloud as ENWRA and NRDs data management platform

<http://snr.unl.edu/csd/geology/nebraskageocloud.aspx>

ENWRA

EASTERN NEBRASKA WATER
RESOURCES ASSESSMENT



Spring Technical Remote Meeting Packet

July 23, 2020

Summary Slide from Jan. 2020 ppt:

- Build geologic models for areas with AEM coverage – sustain and expand the NGC

- Keep adding to the supporting datasets

- Get at K values, aquifer tests
- summarize more borehole logs
- refine water table map and flow directions, mass water level snapshots/transducer data

NOTE: Make sure contractor work is compatible and follows applicable standards and guidelines where possible

- Recharge research
- Continue work with NeDNR on optimizing AEM / numerical model interfacing
- Continue using AEM to target quality and quantity concerns

Recharge Discussions – old notes

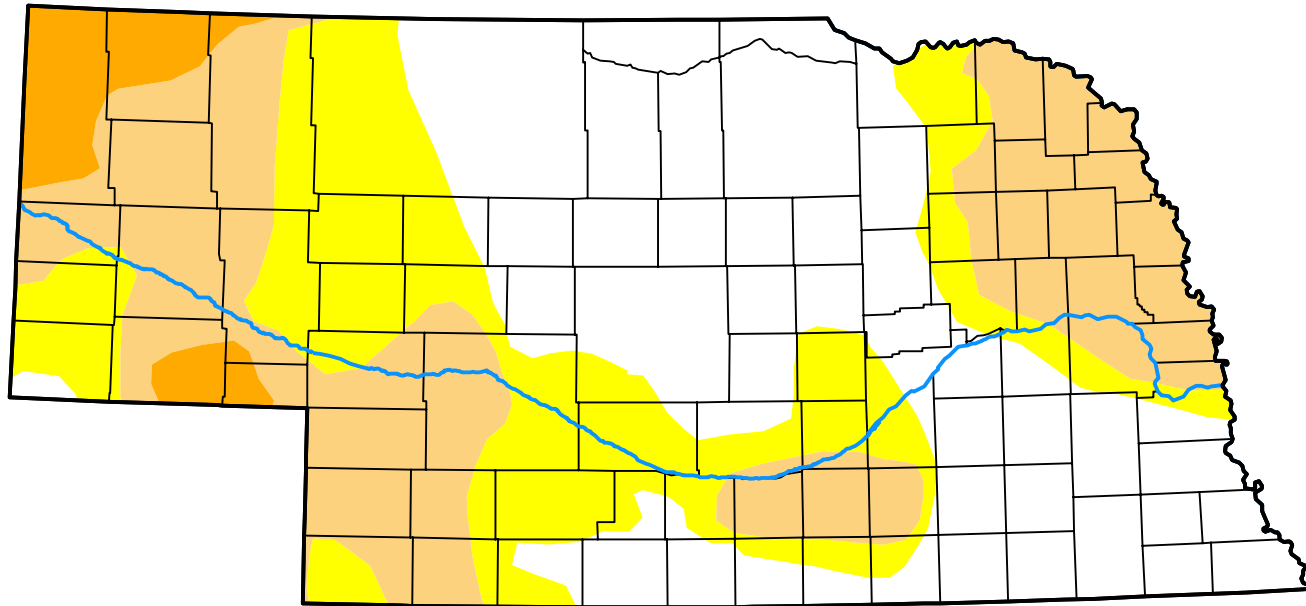
Example discussion points:

- AEM coverage in most areas – recharge AEM products ?
- need more physical measurements (more transducers, unsaturated zone installations)?
- assess deep vadose behavior/time delay effects?
- look at changes in heads from one unit to another during pumping?
- more work with existing data?
- what potential model calibration datasets do we need for long term?
- conceptual refinements to the water budget?
- consider needed scales (area specific, District, ENWRA Region, State) for assessment objectives







Next step: potential proposal funding and/or grant applications – 2020 submittals? work in the meantime to prepare?

U.S. Drought Monitor Nebraska

July 28, 2020
(Released Thursday, Jul. 30, 2020)
Valid 8 a.m. EDT



Intensity:

-  None
-  D0 Abnormally Dry
-  D1 Moderate Drought
-  D2 Severe Drought
-  D3 Extreme Drought
-  D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:

Richard Heim
NCEI/NOAA



droughtmonitor.unl.edu

Wyoming Basin & Water Supply Outlook Report

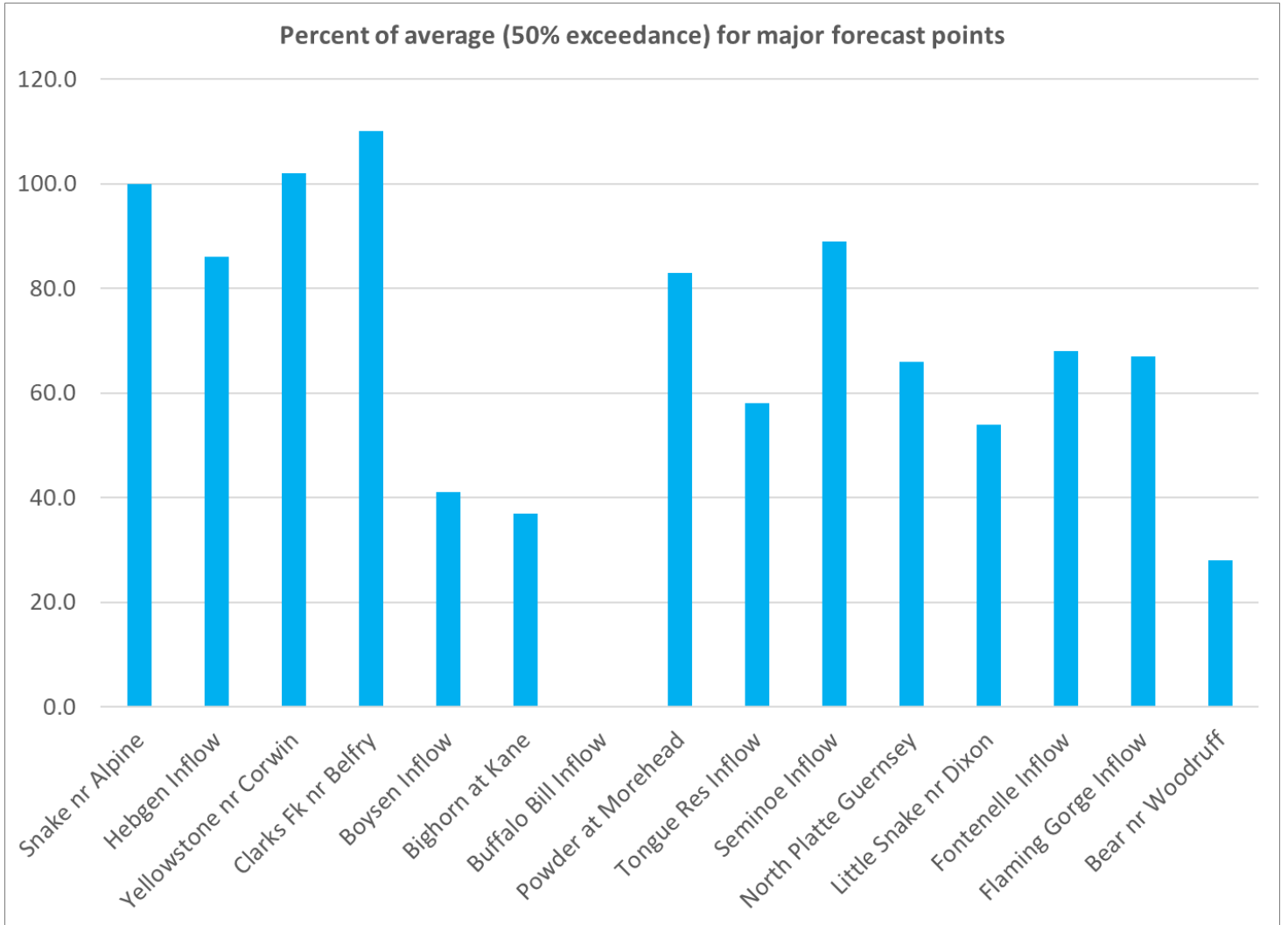
June 1, 2020

**Natural
Resources
Conservation
Service**



Snowmobiles in the Bighorn Mountains. Photo courtesy of the State of Wyoming, Office of the State Engineer.

Forecasted stream flows for June 1st, 2020



Basin Outlook Reports

And

Federal - State - Private Cooperative Snow Surveys

For more information, contact:

Jeff Goats
100 East "B" Street, Casper, WY 82601
(307) 233-6768 jeff.goats@usda.gov

How forecasts are made

Most of the annual streamflow in the western United States originates as snowfall that has accumulated in the mountains during the winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Measurements of snow water equivalent at selected manual snow courses and automated SNOTEL sites, along with precipitation, antecedent streamflow, and indices of the El Niño / Southern Oscillation are used in computerized statistical and simulation models to prepare runoff forecasts. Unless otherwise specified, all forecasts are for flows that would occur naturally without any upstream influences.

Forecasts of any kind, of course, are not perfect. Streamflow forecast uncertainty arises from three primary sources: (1) uncertain knowledge of future weather conditions, (2) uncertainty in the forecasting procedure, and (3) errors in the data. The forecast, therefore, must be interpreted not as a single value but rather as a range of values with specific probabilities of occurrence. The middle of the range is expressed by the 50% exceedance probability forecast, for which there is a 50% chance that the actual flow will be above, and a 50% chance that the actual flow will be below, this value. To describe the expected range around this 50% value, four other forecasts are provided, two smaller values (90% and 70% exceedance probability) and two larger values (30%, and 10% exceedance probability). For example, there is a 90% chance that the actual flow will be more than the 90% exceedance probability forecast. The others can be interpreted similarly.

The wider the spread among these values, the more uncertain the forecast. As the season progresses, forecasts become more accurate, primarily because a greater portion of the future weather conditions become known; this is reflected by a narrowing of the range around the 50% exceedance probability forecast. Users should take this uncertainty into consideration when making operational decisions by selecting forecasts corresponding to the level of risk they are willing to assume about the amount of water to be expected. If users anticipate receiving a lesser supply of water, or if they wish to increase their chances of having an adequate supply of water for their operations, they may want to base their decisions on the 90% or 70% exceedance probability forecasts, or something in between. On the other hand, if users are concerned about receiving too much water (for example, threat of flooding), they may want to base their decisions on the 30% or 10% exceedance probability forecasts, or something in between. Regardless of the forecast value users choose for operations, they should be prepared to deal with either more or less water. (Users should remember that even if the 90% exceedance probability forecast is used, there is still a 10% chance of receiving less than this amount.) By using the exceedance probability information, users can easily determine the chances of receiving more or less water.

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Wyoming Basin & Water Supply Outlook Report

Snowpack

Snow water equivalent (SWE) across Wyoming for June 1st was at 65% of median. SWE in the Upper Green River Basin was the highest at 114% of median. *See the map on page 5 and the Appendix for further information.*

Precipitation

The Yellowstone River Basin had the highest precipitation for the month at 93% of average. The Sweetwater River Basin had the lowest precipitation amount at 38% of average. The following table displays the major river basins and their departure from average for last month.

See Appendix for further information.

Basin	Departure from average	Basin	Departure from average
Snake River	-22%	Upper North Platte River	-23%
Madison-Gallatin	-19%	Sweetwater River	-62%
Yellowstone River	-7%	Lower North Platte River	-58%
Wind River	-55%	Laramie River	-10%
Bighorn River	-56%	North Platte River (Total)	-30%
Shoshone River	-10%	South Platte River	-30%
Powder River	-44%	Little Snake River	-17%
Tongue River	-53%	Upper Green River	-39%
Belle Fourche River	-38%	Lower Green River	-55%
Cheyenne River	-42%	Upper Bear River	-57%

Streams

Forecast stream flow yields for June thru September across Wyoming average 76%. The Snake River, Madison, and Upper Yellowstone River Basins should yield about 96%, 86% and 101% of average, respectively. Yields from the Wind and Bighorn River Basins should be about 58% and 57% of average. Yields from the Shoshone and Clarks Fork River Basins of Wyoming should be about 98% and 110% of average. Yields from the Powder and Tongue River Basins should be about 75% and 67% of average. Yield for the Cheyenne River Basin should be about 100% of average. Yields for the Sweetwater, Upper North Platte, Lower North Platte, and Laramie Rivers of Wyoming should be about 17%, 90%, 60%, and 91% of average, respectively. Yields for the Little Snake and Green River should be 59% and 64%.

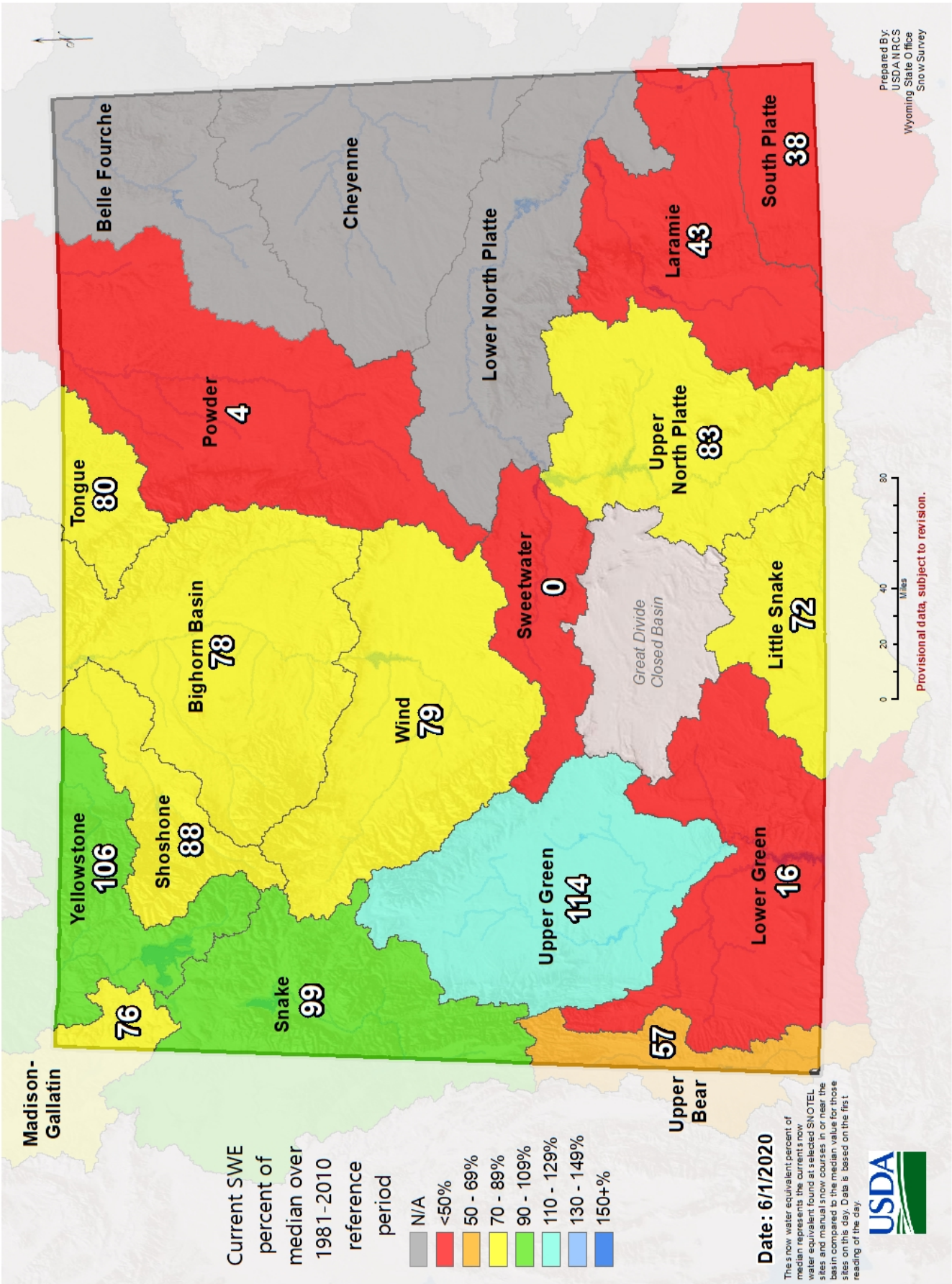
Reservoirs

Reservoir storage was above average at 114% across the entire state. Reservoirs in the Snake River Basin are above average at 117%. Reservoirs in the Madison-Gallatin Basin are near average at 104%. Reservoirs in the Wind River Basin are near average at 102%. Reservoirs on the Big Horn are average at 97%. The Buffalo Bill Reservoir on the Shoshone is well above average at 126%. The Tongue River Reservoir was well above average at 154%. Reservoirs in the Belle Fourche and Cheyenne River Basins are above average at 129% and 109% respectively. Reservoirs on the Upper and Lower North Platte River are above average at 129% and 119% respectively. Reservoirs on the Upper Green River are above average at 122%. Reservoirs on the Lower Green River Basin are near average at 106% and are average on the Upper Bear River Basin at 104%. *See below for further information.*

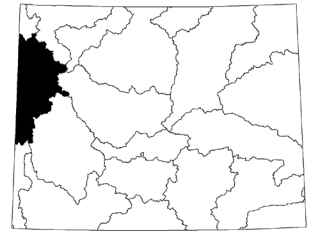
Wyoming Reservoir Levels

	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Average % Capacity	Current % Average	Last Year % Average
Alcova	179.8	180.8	179.7	184.3	98%	98%	98%	100%	101%
Angostura	109.8	111.5	101.3	122.1	90%	91%	83%	108%	110%
Belle Fourche	161.1	160.4	155.1	178.4	90%	90%	87%	104%	103%
Big Sandy	31.4	29.2	29.1	38.3	82%	76%	76%	108%	100%
Bighorn Lake	816.9	891.9	848.0	1356.0	60%	66%	63%	96%	105%
Boysen	490.3	565.0	498.4	596.0	82%	95%	84%	98%	113%
Buffalo Bill	486.0	401.6	385.4	646.6	75%	62%	60%	126%	104%
Bull Lake	114.9	99.5	88.3	151.8	76%	66%	58%	130%	113%
Deerfield	15.3	15.6	14.3	15.2	100%	102%	94%	107%	109%
Ennis Lake	35.8	35.8	35.6	41.0	87%	87%	87%	101%	101%
Flaming Gorge Reservoir	3227.6	3376.5	3070.0	3749.0	86%	90%	82%	105%	110%
Fontenelle	203.5	204.1	164.0	344.8	59%	59%	48%	124%	124%
Glendo	397.9	515.6	475.0	506.4	79%	102%	94%	84%	109%
Grassy Lake	15.4	15.3	14.3	15.2	101%	101%	94%	108%	107%
Guernsey	28.0	32.3	34.3	45.6	61%	71%	75%	82%	94%
Hebgen Lake	352.0	315.9	336.2	378.8	93%	83%	89%	105%	94%
Jackson Lake	775.9	696.3	605.7	847.0	92%	82%	72%	128%	115%
Keyhole	175.7	192.0	100.9	193.8	91%	99%	52%	174%	190%
PactoLa	54.0	61.3	48.9	55.0	98%	111%	89%	110%	125%
Palisades Reservoir	1133.7	1003.9	1027.0	1400.0	81%	72%	73%	110%	98%
Pathfinder	971.6	833.1	633.8	1016.5	96%	82%	62%	153%	131%
Pilot Butte	16.1	26.1	22.3	31.6	51%	83%	71%	72%	117%
Seminole	782.8	721.8	607.1	1016.7	77%	71%	60%	129%	119%
Shadehill	73.8	83.1	61.4	81.4	91%	102%	75%	120%	135%
Tongue River Res	80.7	82.8	52.6	79.1	102%	105%	66%	154%	157%
Viva Naughton Res	39.9	40.8	41.5	42.4	94%	96%	98%	96%	98%
Woodruff Narrows Reservoir	46.8	50.7	44.8	57.3	82%	88%	78%	104%	113%

Wyoming Basins Snow Water Equivalent (SWE) % of Median - includes manual courses



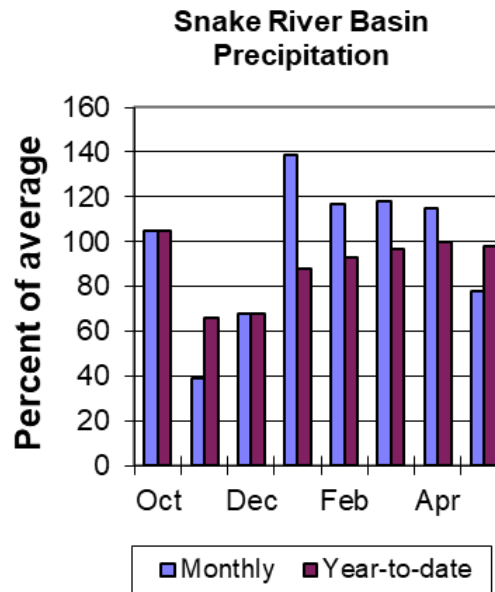
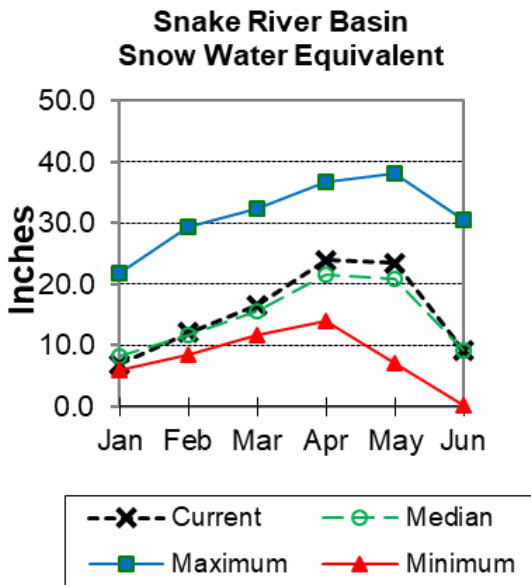
Snake River Basin



Snow

The overall Snake River Basin SWE (portion above Palisades dam) is 99% of median. SWE in the Snake River Basin above Jackson Lake is 87% of median. Pacific Creek Basin SWE is 103% of median. Buffalo Fork SWE is 92% of median. Gros Ventre River Basin SWE is 114% of median. SWE in the Hoback River drainage is 190% of median. SWE in the Greys River drainage is 153% of median. Salt River Basin SWE is 176% of median.

See Appendix at the end of this report for a detailed listing of snow course information.



Precipitation

Last month's precipitation for the Snake River Basin was 78% of average. Water-year-to-date precipitation is 98% of average.

Reservoirs

Current reservoir storage is 117% of average for the three storage reservoirs in the basin.

	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Average % Capacity	Current % Average	Last Year % Average
Grassy Lake	15.4	15.3	14.3	15.2	101%	101%	94%	108%	107%
Jackson Lake	775.9	696.3	605.7	847.0	92%	82%	72%	128%	115%
Palisades Reservoir	1133.7	1003.9	1027.0	1400.0	81%	72%	73%	110%	98%
Basin-wide Total	1925.0	1715.5	1647.0	2262.2	85%	76%	73%	117%	104%
# of reservoirs	3	3	3	3	3	3	3	3	3

Streamflow

The 50% exceedance forecasts for June through September are slightly below average for this basin. The Snake near Moran yield is 76% of average. Snake River above Reservoir near

Alpine will yield about 100%. Pacific Creek near Moran Yield will be around 93%. Buffalo Fork above Lava near Moran yield will be around 100% of average. Greys River above Palisades Reservoir yield about 100%. Salt River near Etna yield will be about 98%.

See the following table for further information.

Streamflow Forecast Summary: June 1, 2020 (averages based on 1981-2010 reference period)

Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast								
Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)	
Snake R nr Moran ²								
JUN-JUL	235	285	320	75%	350	400	425	
JUN-SEP	295	350	385	76%	425	475	505	
Snake R ab Reservoir nr Alpine ²								
JUN-JUL	1110	1220	1290	101%	1360	1470	1280	
JUN-SEP	1400	1520	1610	100%	1700	1830	1610	
Snake R nr Irwin ²								
JUN-JUL	1450	1590	1690	99%	1790	1930	1700	
JUN-SEP	1880	2050	2170	99%	2290	2460	2190	
Snake R nr Heise ²								
JUN-JUL	1540	1690	1790	99%	1890	2040	1800	
JUN-SEP	2020	2200	2330	99%	2450	2630	2350	
Pacific Ck at Moran								
JUN-JUL	46	66	80	93%	93	113	86	
JUN-SEP	54	75	89	93%	103	124	96	
Buffalo Fk ab Lava Ck nr Moran								
JUN-JUL	165	187	200	98%	215	240	205	
JUN-SEP	195	220	240	100%	260	285	240	
Greys R ab Reservoir nr Alpine								
JUN-JUL	139	154	164	100%	175	190	164	
JUN-SEP	183	200	215	100%	230	245	215	
Salt R ab Reservoir nr Etna								
JUN-JUL	84	116	138	97%	159	191	143	
JUN-SEP	138	178	205	98%	230	270	210	

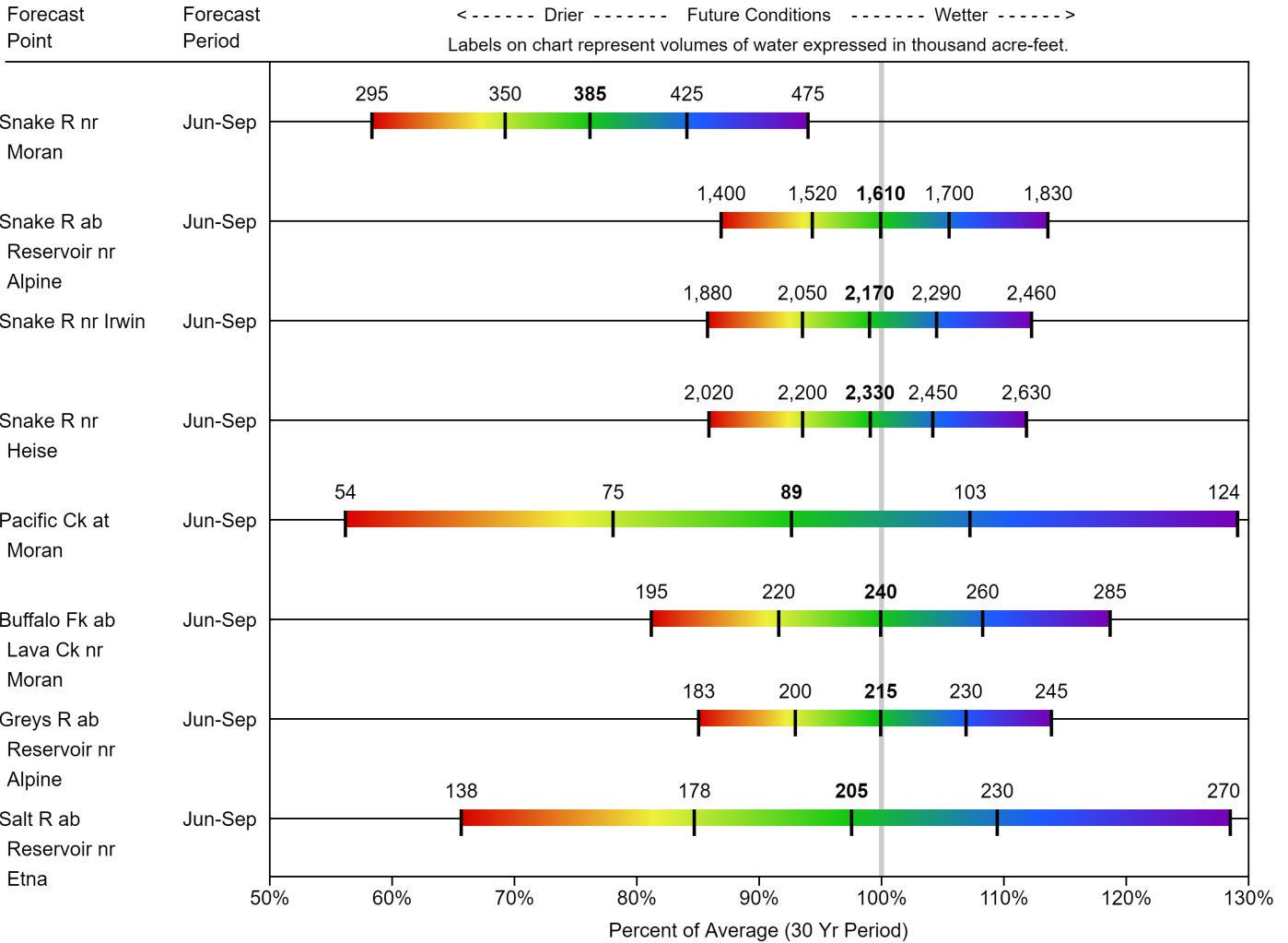
1) 90% and 10% exceedance probabilities are actually 95% and 5%

2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions

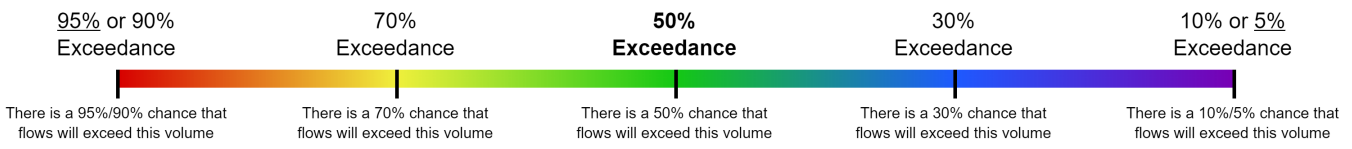
3) Median value used in place of average

SNAKE RIVER BASIN
Water Supply Forecasts
 June 1, 2020

Forecast Exceedance Probabilities



Legend

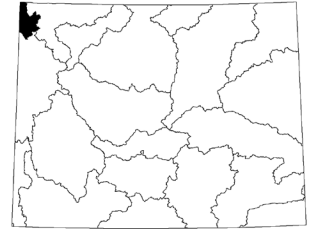


When selected, the following historic streamflow values and statistics will be shown.

<i>Period of Record Minimum Streamflow KAF (Year)</i>	<i>1981-2010 Normal Streamflow KAF</i>	<i>Observed Streamflow KAF</i>	<i>Period of Record Maximum Streamflow KAF (Year)</i>

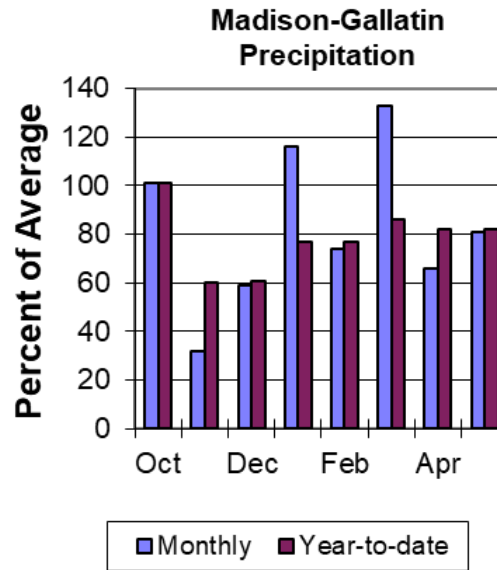
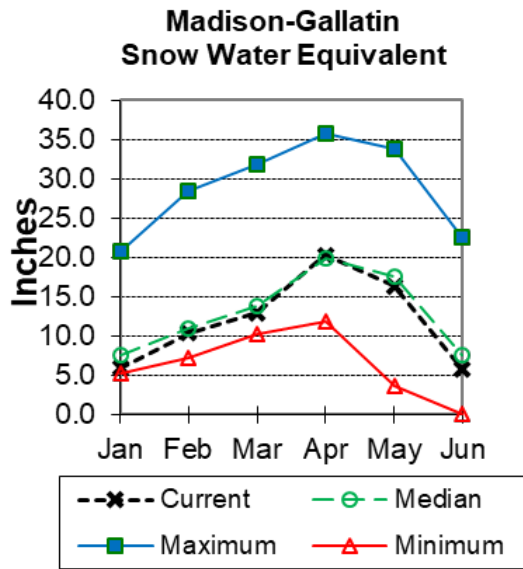
Some forecasts may be for volumes that are regulated or influenced by diversions and water management.

Madison-Gallatin Rivers Basin



Snow

SWE is 76% of median in the Madison-Gallatin drainage. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Last month precipitation in the Madison-Gallatin drainage was 81% of average. Water-year-to-date precipitation is at 82% of average.

Reservoirs

Current reservoir storage is 104% of average for the two storage reservoirs in the basin.

	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Average % Capacity	Current % Average	Last Year % Average
Ennis Lake	35.8	35.8	35.6	41.0	87%	87%	87%	101%	101%
Hebgen Lake	352.0	315.9	336.2	378.8	93%	83%	89%	105%	94%
Basin-wide Total	387.8	351.7	371.8	419.8	92%	84%	89%	104%	95%
# of reservoirs	2	2	2	2	2	2	2	2	2

Streamflow

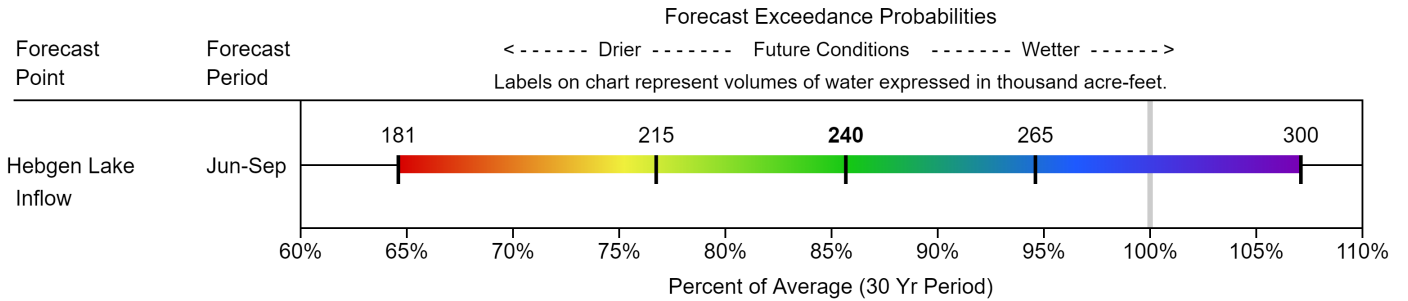
The 50% exceedance forecast for June through September is below average for the basin. Hebgen Reservoir inflow is 86% of average. *See below for detailed runoff volumes.*

Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

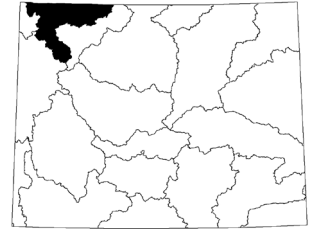
MADISON-GALLATIN RIVER BASINS	Forecast Period	Forecast Exceedance Probabilities for Risk Assessment						
		90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Hebgen Reservoir Inflow								
	JUN-JUL	108	132	149	84%	165	189	178
	JUN-SEP	181	215	240	86%	265	300	280

- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

MADISON-GALLATIN RIVER BASINS
Water Supply Forecasts
June 1, 2020

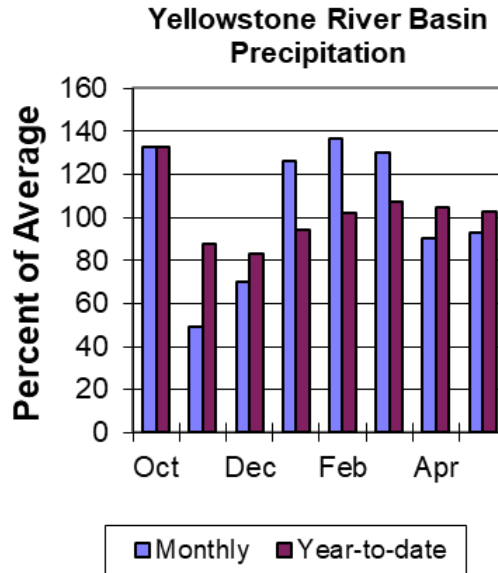
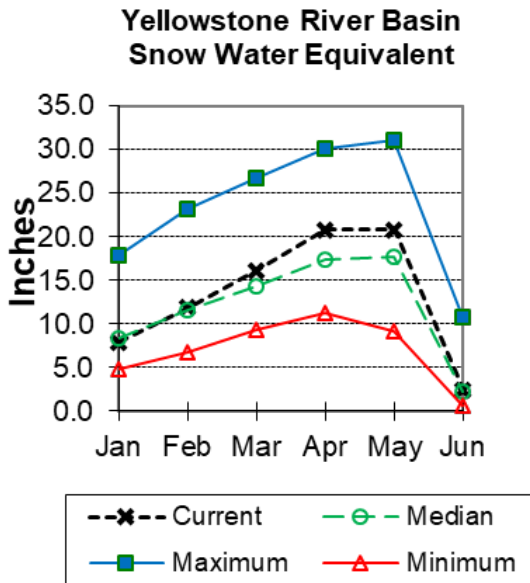


Yellowstone River Basin



Snow

SWE in the Yellowstone River Basin is 106% of median. SWE in the Clarks Fork Drainage of the Yellowstone River Basin in Wyoming is 112% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Last month's precipitation in the Yellowstone River Basin was 93% of average. Water-year-to-date precipitation is 103% of average.

Reservoirs

No reservoir data.

Streamflow

The 50% exceedance forecasts for June through September are near average for the basin. Yellowstone at Lake Outlet will yield around 98% of average. Yellowstone at Corwin Springs will yield around 102%. Clarks Fork of the Yellowstone near Belfry will yield around 110%.

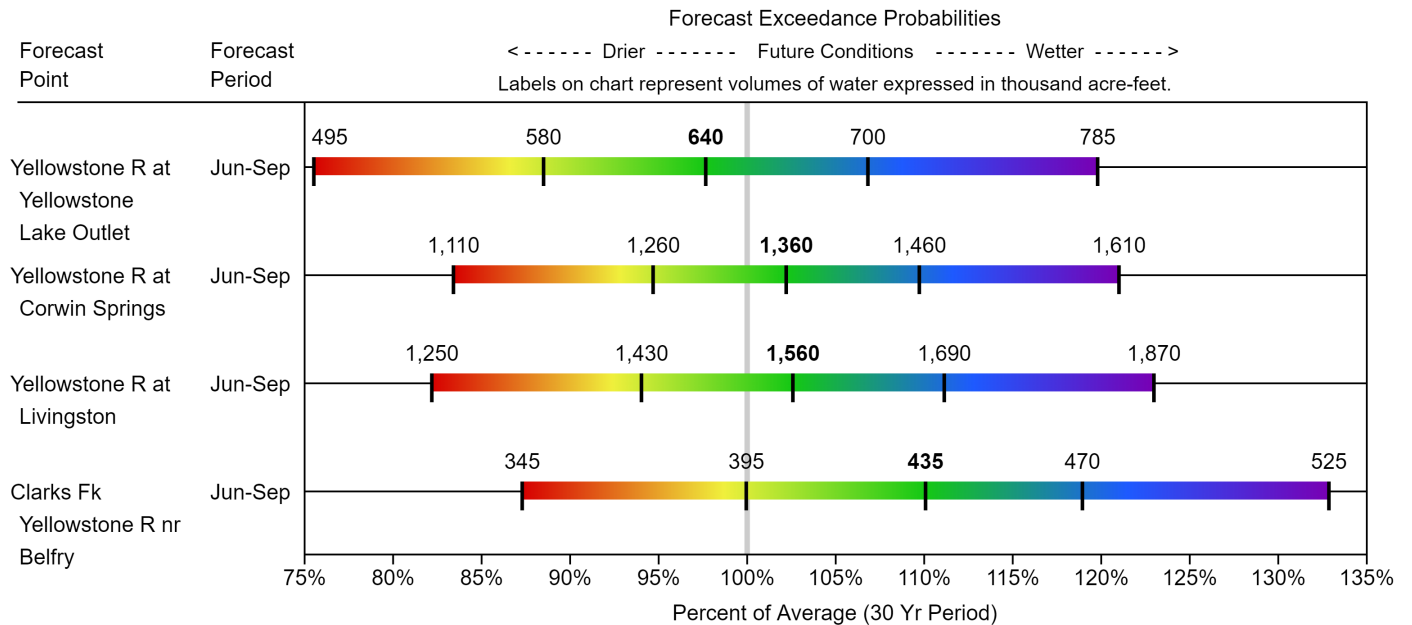
See the following for further information.

Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

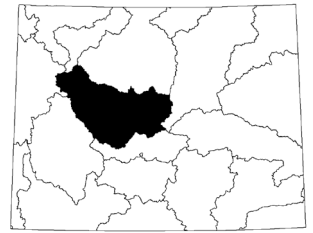
YELLOWSTONE RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Yellowstone R at Yellowstone Lake Outlet								
	JUN-JUL	335	405	455	98%	505	575	465
	JUN-SEP	495	580	640	98%	700	785	655
Yellowstone R at Corwin Springs								
	JUN-JUL	865	985	1070	103%	1150	1280	1040
	JUN-SEP	1110	1260	1360	102%	1460	1610	1330
Yellowstone R at Livingston								
	JUN-JUL	970	1120	1230	104%	1330	1480	1180
	JUN-SEP	1250	1430	1560	103%	1690	1870	1520
Clarks Fk Yellowstone R nr Belfry ²								
	JUN-JUL	310	360	390	111%	420	465	350
	JUN-SEP	345	395	435	110%	470	525	395

- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

YELLOWSTONE RIVER BASIN
Water Supply Forecasts
June 1, 2020

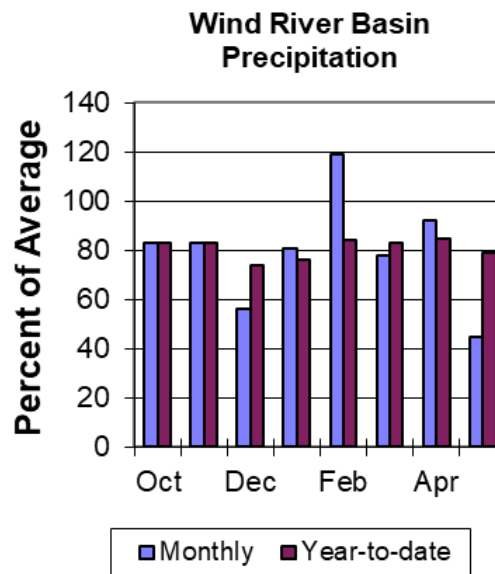
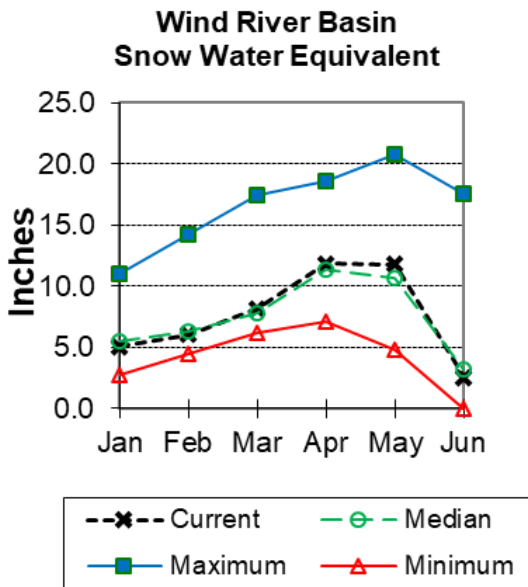


Wind River Basin



Snow

Wind River Basin SWE (above Boysen Reservoir) is 79% of median. SWE in the Wind River above Dubois is 108% of median. Little Wind SWE is 0% of median, and Popo Agie drainage SWE is 0% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

February precipitation for the basin was 45% of average. Water year-to-date precipitation is 79% of average.

Reservoirs

Current storage is 102% of average in the basin.

	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Average % Capacity	Current % Average	Last Year % Average
Bull Lake	114.9	99.5	88.3	151.8	76%	66%	58%	130%	113%
Boysen	490.3	565.0	498.4	596.0	82%	95%	84%	98%	113%
Pilot Butte	16.1	26.1	22.3	31.6	51%	83%	71%	72%	117%
Basin-wide Total	621.3	690.6	609.0	779.4	80%	89%	78%	102%	113%
# of reservoirs	3	3	3	3	3	3	3	3	3

Streamflow

The 50% exceedance forecasts for the June through September runoff period are well below average for the Wind River. The Wind River above Bull Lake Creek will yield about 66% of average. Little Popo Agie River near Lander should yield around 49% of average. Little Wind River near Riverton will yield around 34% of average. Boysen Reservoir inflow will yield about 41% of average. *See the following table for detailed runoff volumes.*

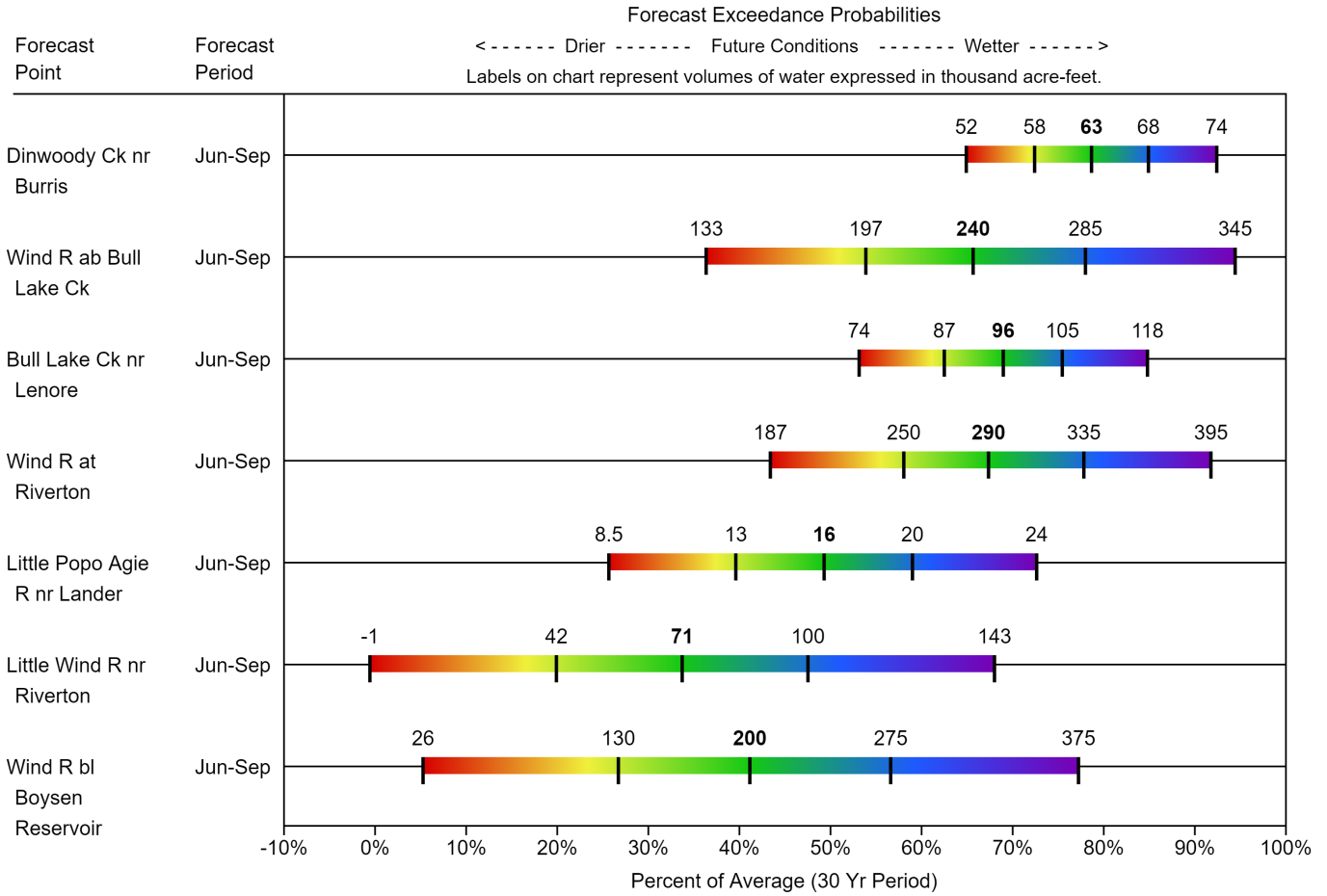
WIND RIVER BASIN	Forecast Period	Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						30yr Avg (KAF)
		90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	
Dinwoody Ck nr Burris	JUN-JUL	31	36	39	74%	42	47	53
	JUN-SEP	52	58	63	79%	68	74	80
Wind R Ab Bull Lake Ck	JUN-JUL	141	191	225	68%	260	310	330
	JUN-SEP	133	197	240	66%	285	345	365
Bull Lake Ck nr Lenore	JUN-JUL	56	66	73	68%	80	90	108
	JUN-SEP	74	87	96	69%	105	118	139
Wind R at Riverton	JUN-JUL	156	205	235	67%	270	315	350
	JUN-SEP	187	250	290	67%	335	395	430
Little Popo Agie R nr Lander	JUN-JUL	4.6	8.7	11.5	43%	14.3	18.4	27
	JUN-SEP	8.5	13.1	16.3	49%	19.5	24	33
Little Wind R nr Riverton	JUN-JUL	1.83	30	55	30%	80	117	183
	JUN-SEP	-1	42	71	34%	100	143	210
Boysen Reservoir Inflow	JUN-JUL	44	128	184	43%	240	325	425
	JUN-SEP	26	130	200	41%	275	375	485

1) 90% and 10% exceedance probabilities are actually 95% and 5%

2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions

3) Median value used in place of average

WIND RIVER BASIN
Water Supply Forecasts
June 1, 2020

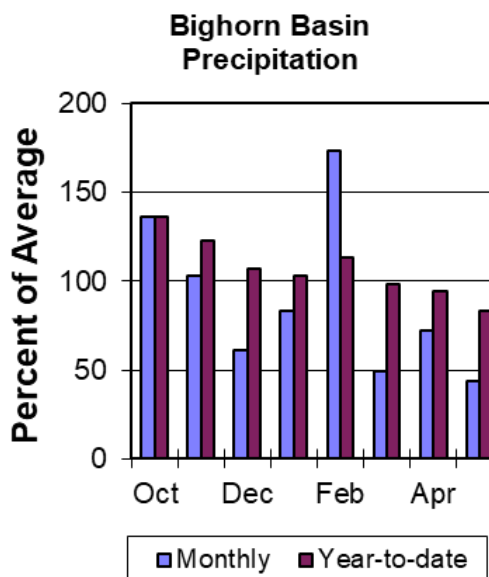
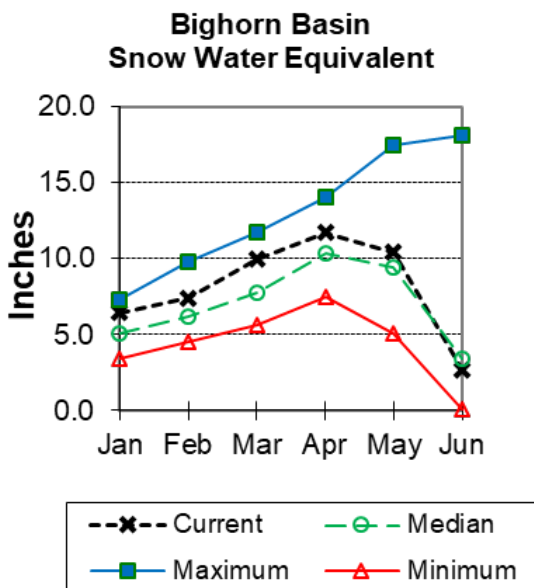


Bighorn River Basin



Snow

The Bighorn River Basin SWE (above Bighorn Reservoir) is 78% of median. The Greybull River SWE is at 0% of median. Shell Creek SWE is at 83% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Last month's precipitation was 44% of average. Year-to-date precipitation is 83% of average.

Reservoirs

Current reservoir storage in the basin is 97% of average.

	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Average % Capacity	Current % Average	Last Year % Average
Boysen	490.3	565.0	498.4	596.0	82%	95%	84%	98%	113%
Bighorn Lake	816.9	891.9	848.0	1356.0	60%	66%	63%	96%	105%
Basin-wide Total	1307.2	1456.9	1346.4	1952.0	67%	75%	69%	97%	108%
# of reservoirs	2	2	2	2	2	2	2	2	2

Streamflow

The 50% exceedance forecasts for the June through September runoffs are well below average. Boysen Reservoir inflow has a forecasted yield 41% of average; the Greybull River near Meeteetse yielding around 73% of average; Shell Creek near Shell yielding around 78% of average and the Bighorn River at Kane to yield around 37% of average.

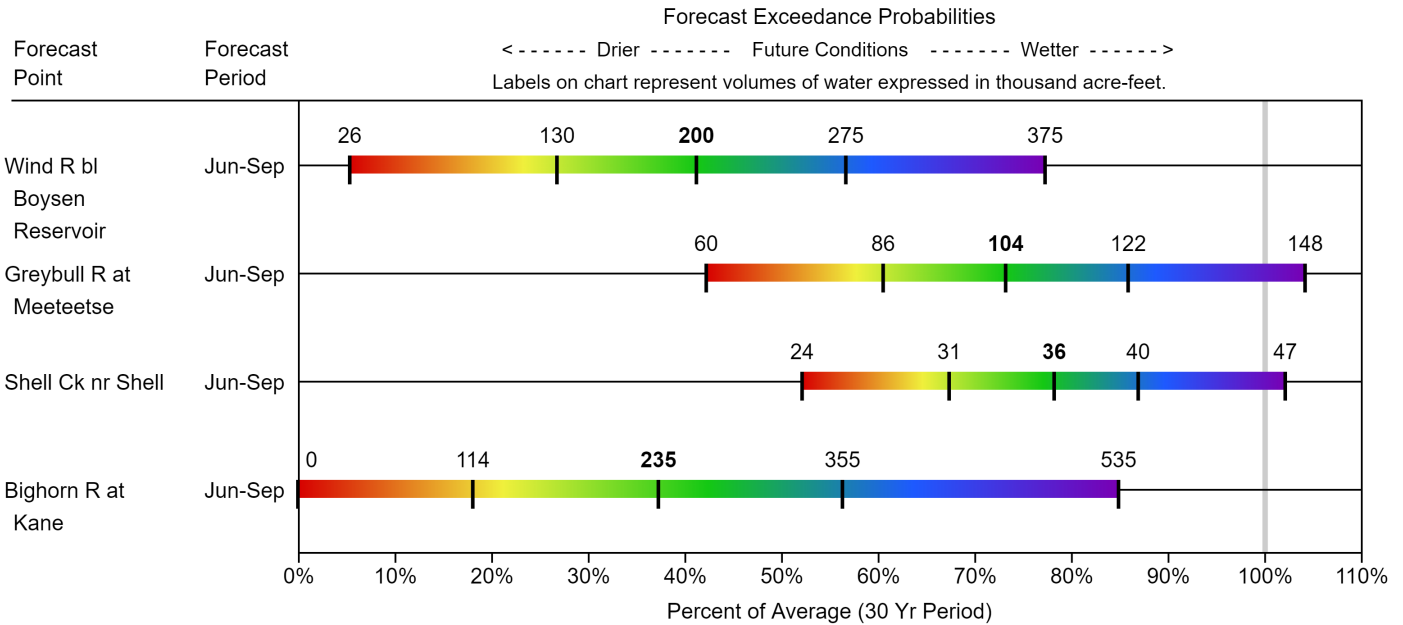
See the following for detailed runoff volumes.

Forecast Exceedance Probabilities for Risk Assessment
 Chance that actual volume will exceed forecast

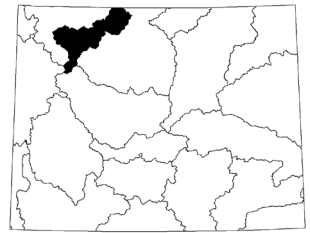
BIGHORN RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Boysen Reservoir Inflow	JUN-JUL	44	128	184	43%	240	325	425
	JUN-SEP	26	130	200	41%	275	375	485
Greybull R nr Meeteetse	JUN-JUL	32	53	68	71%	82	103	96
	JUN-SEP	60	86	104	73%	122	148	142
Shell Ck nr Shell	JUN-JUL	15.3	21	25	71%	29	35	35
	JUN-SEP	24	31	36	78%	40	47	46
Bighorn R at Kane	JUN-JUL	0	132	230	40%	335	480	570
	JUN-SEP	0	114	235	37%	355	535	630

- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

BIGHORN RIVER BASIN
Water Supply Forecasts
 June 1, 2020

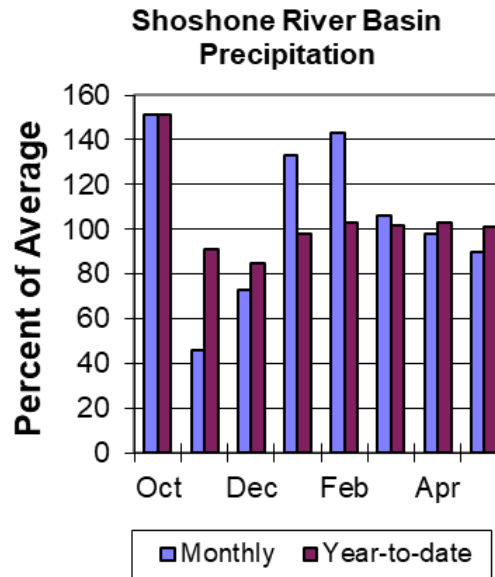
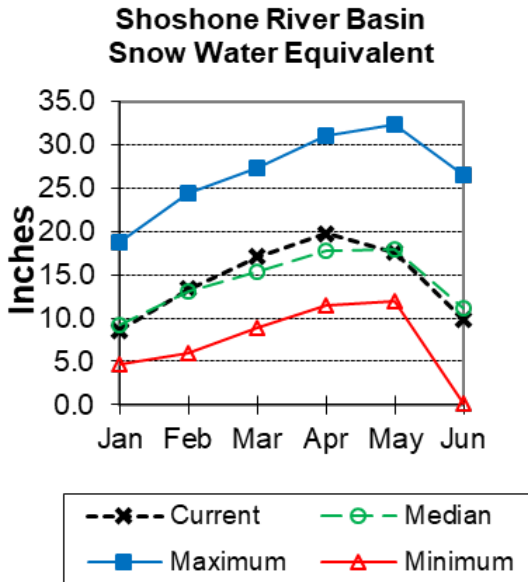


Shoshone River Basin



Snow

Snow Water Equivalent (SWE) is 88% of median in this basin. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Precipitation for last month was 90% of average. The basin year-to-date precipitation is now 101% of average.

Reservoirs

Current storage in Buffalo Bill Reservoir is about 126% of average.

	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Average % Capacity	Current % Average	Last Year % Average
Buffalo Bill	486.0	401.6	385.4	646.6	75%	62%	60%	126%	104%
Basin-wide Total	486.0	401.6	385.4	646.6	75%	62%	60%	126%	104%
# of reservoirs	1	1	1	1	1	1	1	1	1

Streamflow

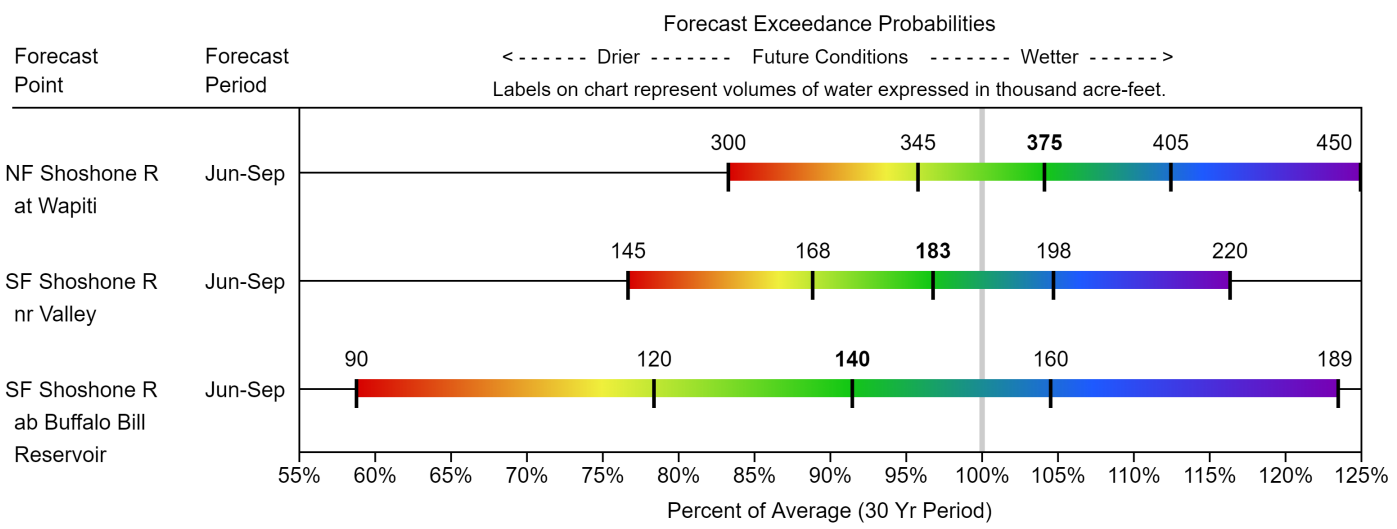
The 50% exceedance forecasts for the June through September period are near average for the basin. The North Fork Shoshone River at Wapiti will yield 104% of average. The South Fork of the Shoshone River near Valley would yield 97% of average. The Buffalo Bill Reservoir inflow to yield 92%. *See the following for detailed runoff volumes.*

Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

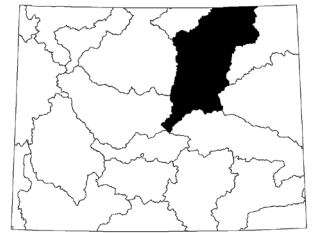
SHOSHONE RIVER BASIN	Forecast Period	Forecast Exceedance Probabilities for Risk Assessment							30yr Avg (KAF)
		90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)		
NF Shoshone R at Wapiti	JUN-JUL	255	295	320	105%	345	385	305	
	JUN-SEP	300	345	375	104%	405	450	360	
SF Shoshone R nr Valley	JUN-JUL	121	139	152	97%	165	183	157	
	JUN-SEP	145	168	183	97%	198	220	189	
SF Shoshone R ab Buffalo Bill Reservoir	JUN-JUL	89	115	132	91%	150	176	145	
	JUN-SEP	90	120	140	92%	160	189	153	

- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

SHOSHONE RIVER BASIN
Water Supply Forecasts
June 1, 2020

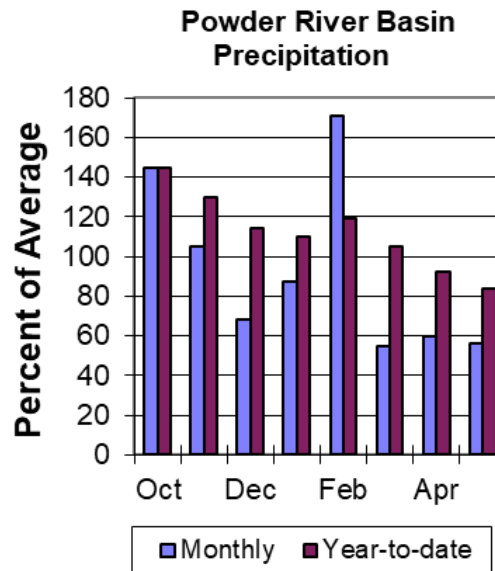
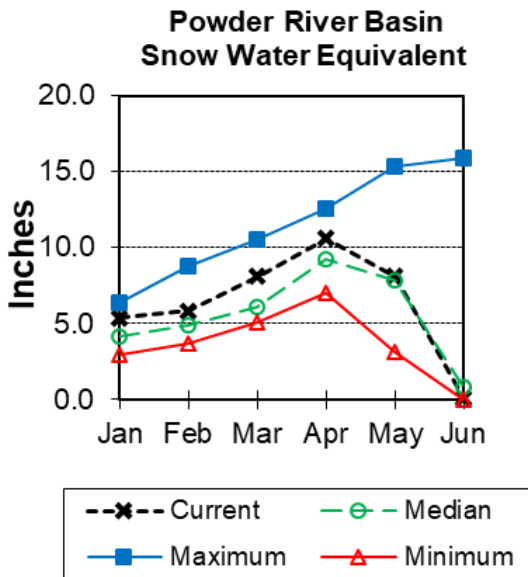


Powder River Basin



Snow

Powder River Basin SWE is at 4% of median. SWE in the Clear Creek drainage is 4% of median. *See appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Last month's precipitation was 56% of average in the basin. Year-to-date precipitation is 84% of average.

Reservoirs

No reservoir data for this basin.

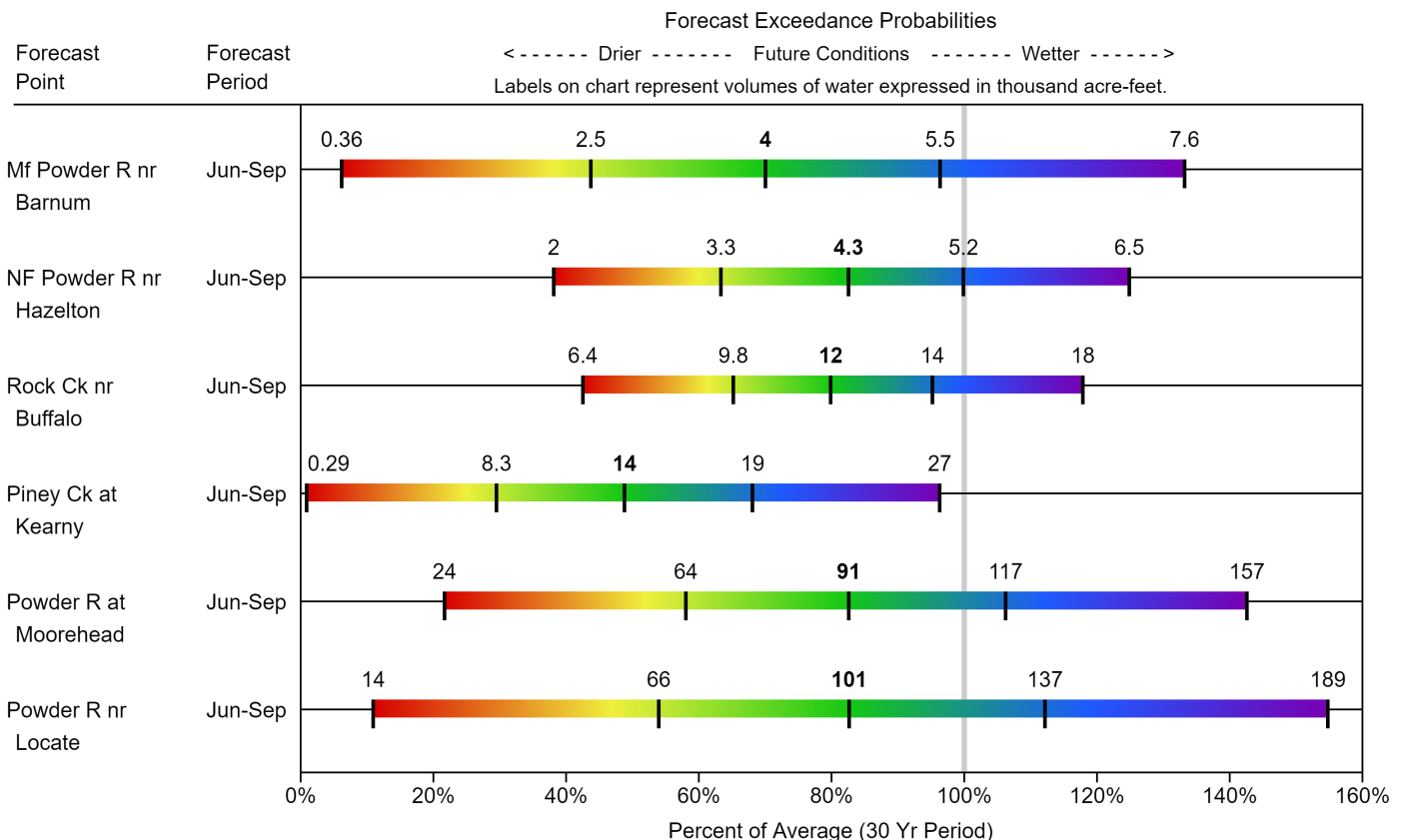
Streamflow

The 50% exceedance forecasts for the June through September period are well below average for the basin. The Middle Fork of the Powder River near Barnum should yield around 70% of average. The North Fork of the Powder River near Hazelton to yield around 83%. The Powder River near Morehead to yield around 83% of average. *See the following for detailed runoff volumes.*

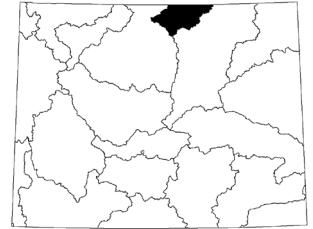
		Forecast Exceedance Probabilities for Risk Assessment						
		Chance that actual volume will exceed forecast						
POWDER RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
MF Powder R nr Barnum	JUN-JUL	0.05	1.8	3.2	67%	4.6	6.7	4.8
	JUN-SEP	0.36	2.5	4	70%	5.5	7.6	5.7
NF Powder R nr Hazelton	JUN-JUL	1.51	2.7	3.6	80%	4.4	5.6	4.5
	JUN-SEP	1.99	3.3	4.3	83%	5.2	6.5	5.2
Rock Ck nr Buffalo	JUN-JUL	3.8	6.7	8.6	76%	10.6	13.5	11.3
	JUN-SEP	6.4	9.8	12	80%	14.3	17.7	15
Piney Ck at Kearny	JUN-JUL	0.25	6.1	10.8	43%	15.5	22	25
	JUN-SEP	0.29	8.3	13.7	49%	19.1	27	28
Powder R at Moorehead	JUN-JUL	15.1	49	73	79%	96	130	92
	JUN-SEP	24	64	91	83%	117	157	110
Powder R nr Locate	JUN-JUL	7.3	52	82	81%	113	157	101
	JUN-SEP	13.5	66	101	83%	137	189	122

- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

POWDER RIVER BASIN
Water Supply Forecasts
June 1, 2020

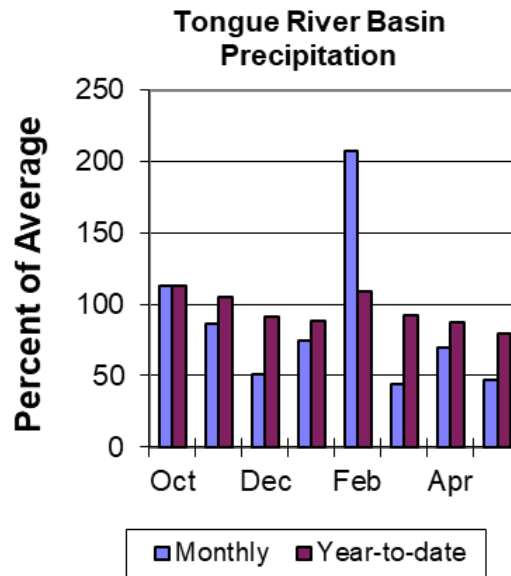
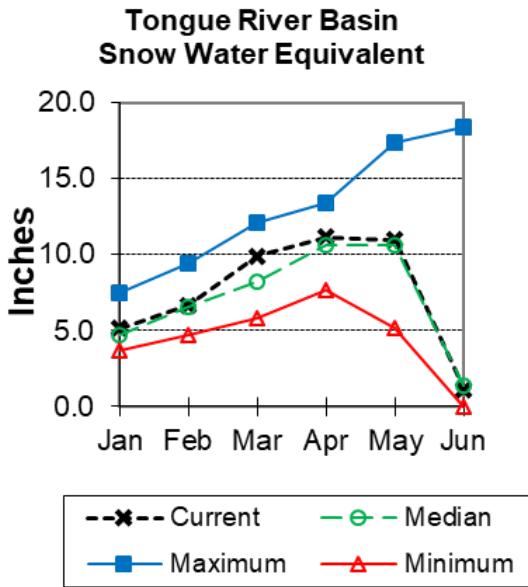


Tongue River Basin



Snow

Upper Tongue River drainage SWE is at 80% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Last month's precipitation was 47% of average. Year-to-date precipitation is 79% of average in the basin.

Reservoirs

The Tongue River Reservoir is at 154% of average.

	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Average % Capacity	Current % Average	Last Year % Average
Tongue River Res	80.7	82.8	52.6	79.1	102%	105%	66%	154%	157%
Basin-wide Total	80.7	82.8	52.6	79.1	102%	105%	66%	154%	157%
# of reservoirs	1	1	1	1	1	1	1	1	1

Streamflow

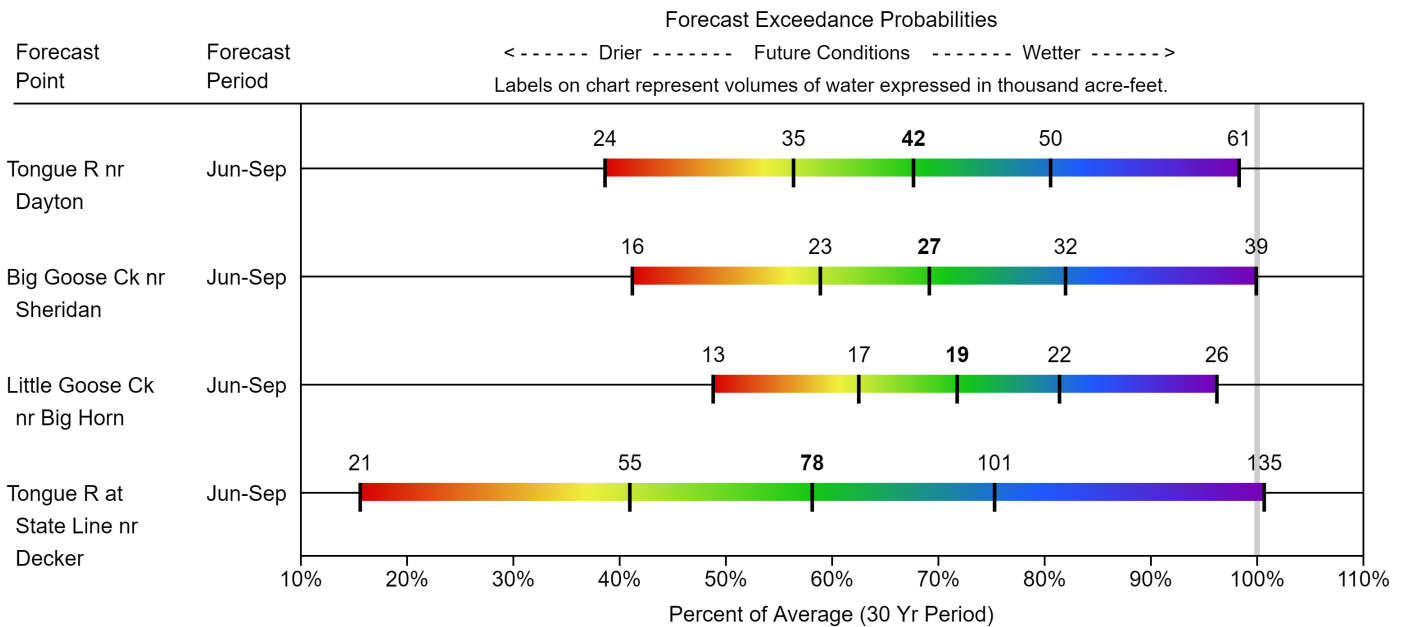
The 50% exceedance forecasts for the June through September period are well below average for the basin. The yield for Tongue River near Dayton is forecasted to be 68% of average. Big Goose Creek near Sheridan to yield around 69%. Little Goose Creek near Bighorn yielding 72% of average. The Tongue River Reservoir Inflow will be about 58% of average. *See below for detailed runoff volumes.*

Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

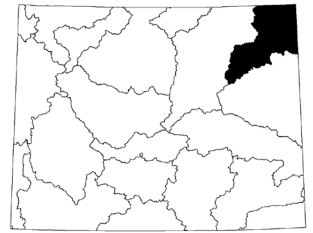
TONGUE RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Tongue R nr Dayton								
	JUN-JUL	15.8	25	32	65%	38	47	49
	JUN-SEP	24	35	42	68%	50	61	62
Big Goose Ck nr Sheridan								
	JUN-JUL	8.7	15.2	19.6	63%	24	30	31
	JUN-SEP	16.1	23	27	69%	32	39	39
Little Goose Ck nr Bighorn								
	JUN-JUL	7.3	10.1	12	63%	13.9	16.7	19.1
	JUN-SEP	13.2	16.9	19.4	72%	22	26	27
Tongue River Reservoir Inflow								
	JUN-JUL	11.9	40	59	54%	79	107	110
	JUN-SEP	21	55	78	58%	101	135	134

- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

TONGUE RIVER BASIN
Water Supply Forecasts
June 1, 2020

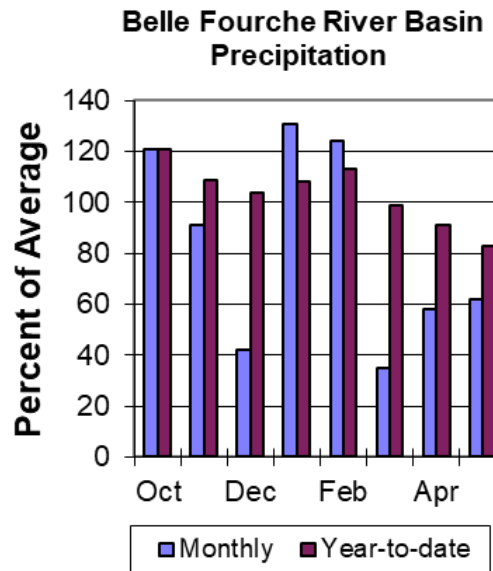
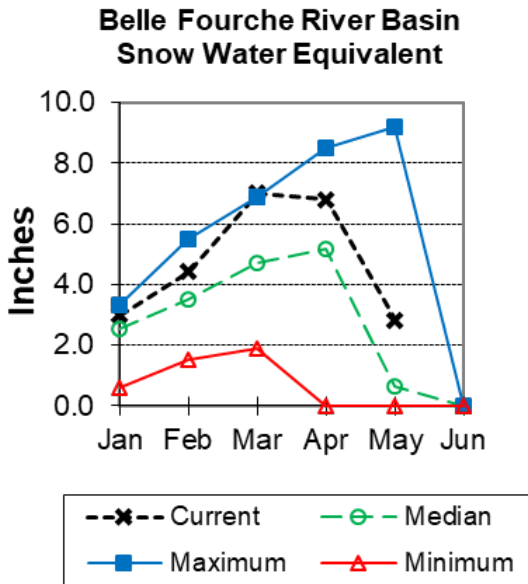


Belle Fourche River Basin



Snow

Currently there is no SWE in the Belle Fourche River Basin. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Precipitation for last month was 62% of average in the Belle Fourche basin. Year-to-date precipitation is 83% of average.

Reservoirs

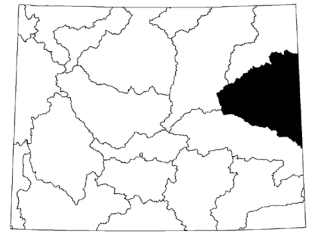
Combined storage for the 3 reservoirs in the basin is at 129% of average.

	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Average % Capacity	Current % Average	Last Year % Average
Belle Fourche	161.1	160.4	155.1	178.4	90%	90%	87%	104%	103%
Keyhole	175.7	192.0	100.9	193.8	91%	99%	52%	174%	190%
Shadehill	73.8	83.1	61.4	81.4	91%	102%	75%	120%	135%
Basin-wide Total	410.5	435.5	317.4	453.6	91%	96%	70%	129%	137%
# of reservoirs	3	3	3	3	3	3	3	3	3

Streamflow

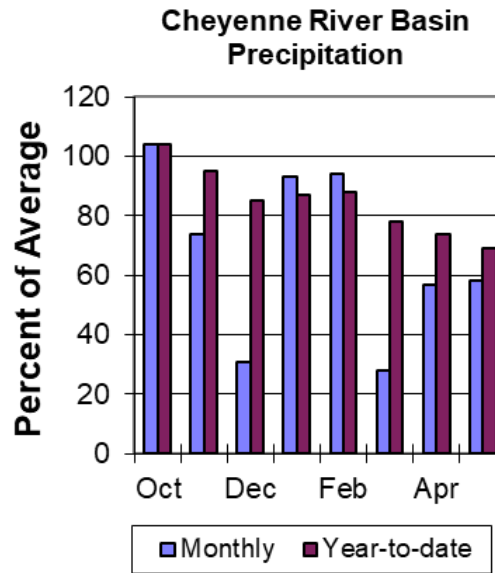
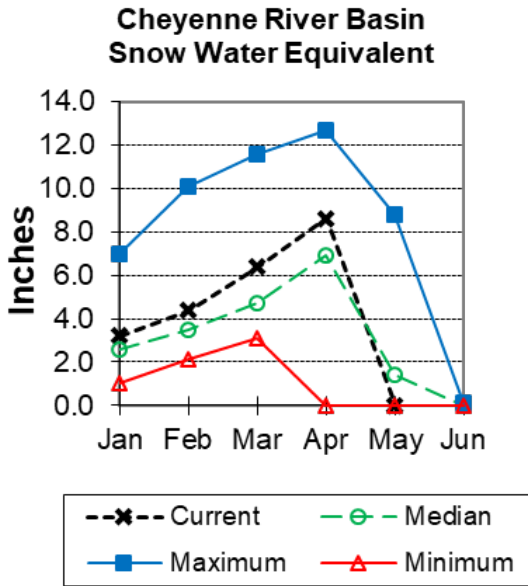
There are no streamflow forecast points for the basin.

Cheyenne River Basin



Snow

Currently there is no SWE recorded for sites in the Cheyenne River Basin. *See Appendix at the end of this report for a detailed listing.*



Precipitation

Precipitation for last month was 58% of average. Year-to-date precipitation is 69%.

Reservoirs

Combined storage for the 3 reservoirs in the basin is at 109% of average.

	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Average % Capacity	Current % Average	Last Year % Average
Angostura	109.8	111.5	101.3	122.1	90%	91%	83%	108%	110%
Deerfield	15.3	15.6	14.3	15.2	100%	102%	94%	107%	109%
Pactola	54.0	61.3	48.9	55.0	98%	111%	89%	110%	125%
Basin-wide Total	179.1	188.3	164.5	192.3	93%	98%	86%	109%	114%
# of reservoirs	3	3	3	3	3	3	3	3	3

Streamflow

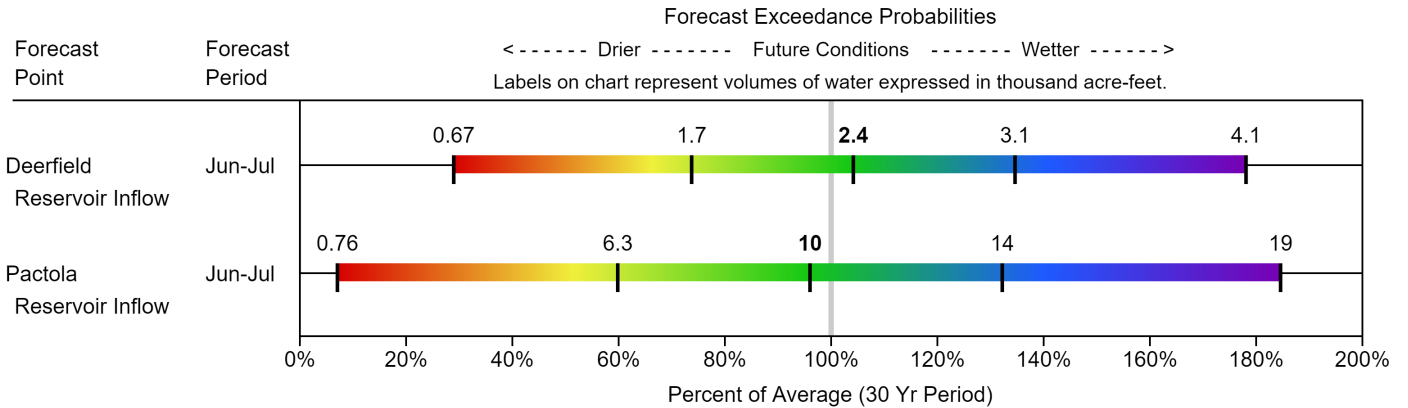
The Deerfield Reservoir Inflow yield is forecasted at 104% of average. Pactola Reservoir Inflow yield is 96% of average. *See the following for detailed runoff volumes.*

Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

CHEYENNE RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Deerfield Reservoir Inflow	JUN-JUL	0.67	1.7	2.4	104%	3.1	4.1	2.3
Pactola Reservoir Inflow	JUN-JUL	0.76	6.3	10.1	96%	13.9	19.4	10.5

- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

CHEYENNE RIVER BASIN
Water Supply Forecasts
June 1, 2020



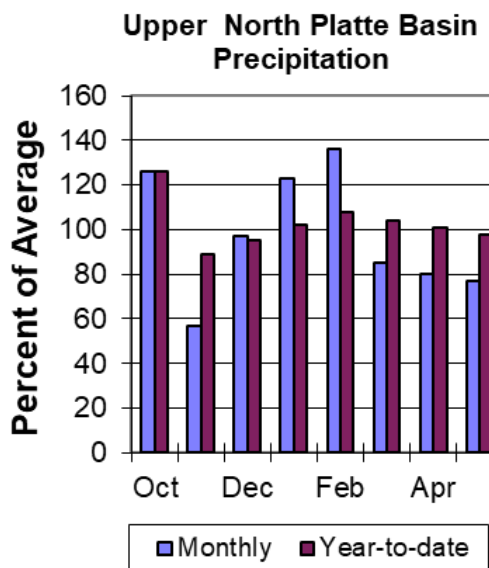
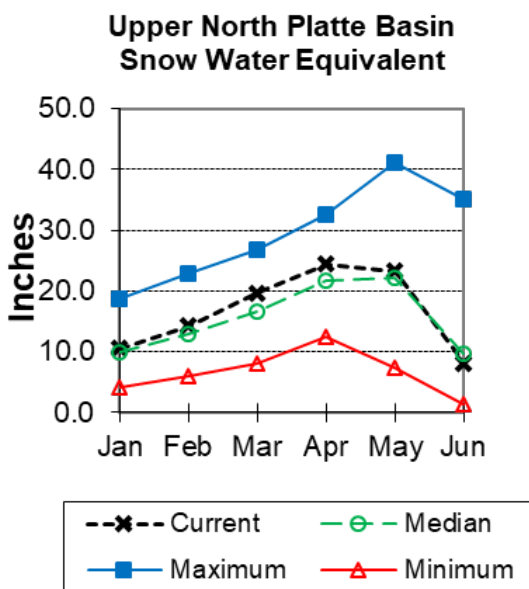
Upper North Platte River Basin



Snow

The Upper North Platte River Basin SWE above Seminoe Reservoir is 83% of median. North Platte above Northgate SWE is 76% of median. Encampment River SWE is 76% of median. Brush Creek SWE is 93% of median. Medicine Bow and Rock Creek SWE are 108% of median.

See Appendix at the end of this report for a detailed listing of snow course information.



Precipitation

Last month's precipitation was 77% of average. Total water-year-to-date precipitation is 98% of average.

Reservoirs

Seminoe Reservoir storage is at 129% of average.

	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Average % Capacity	Current % Average	Last Year % Average
Seminoe	782.8	721.8	607.1	1016.7	77%	71%	60%	129%	119%
Basin-wide Total	782.8	721.8	607.1	1016.7	77%	71%	60%	129%	119%
# of reservoirs	1	1	1	1	1	1	1	1	1

Streamflow

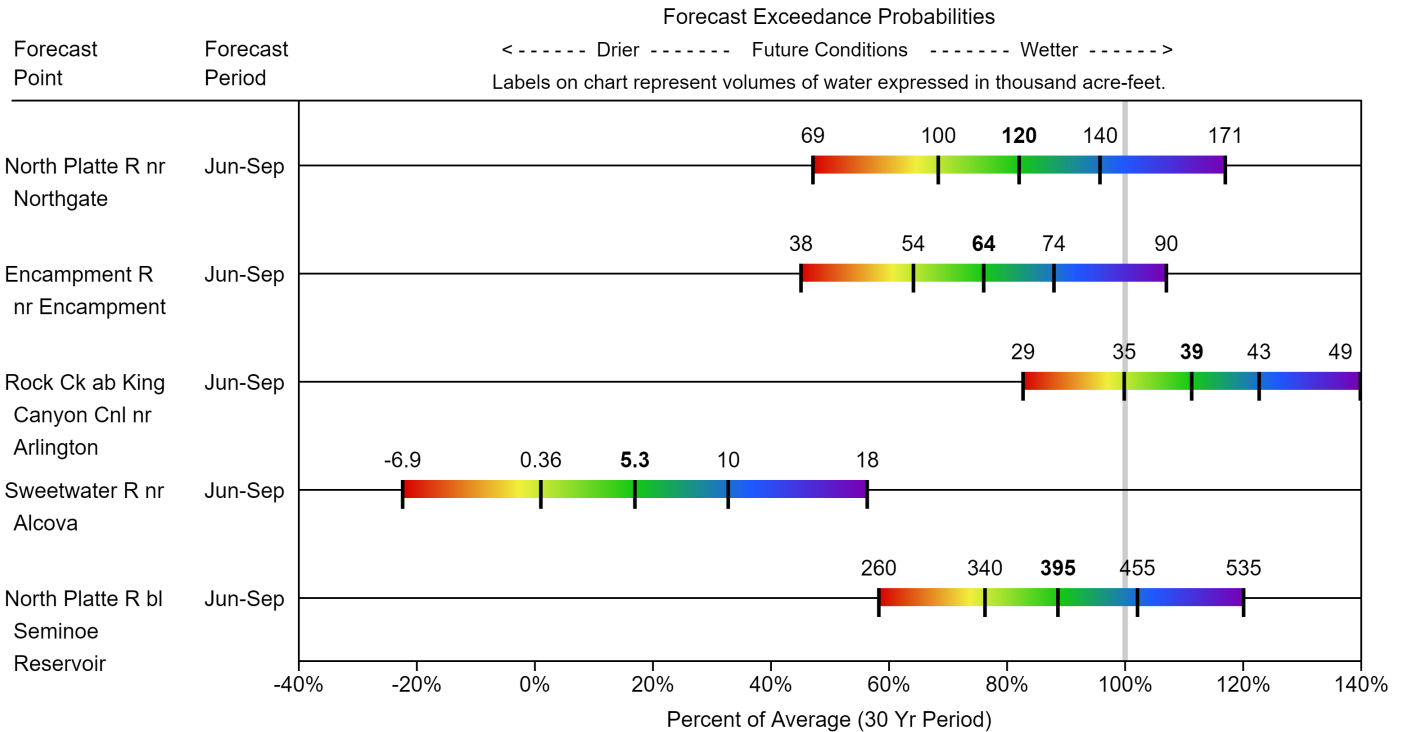
The 50% exceedance forecasts for the June through September period are below average for the Upper North Platte River Basin. The yield for the North Platte River near Northgate will be around 82% of average. The Encampment River near Encampment yield will be about 76%. Rock Creek near Arlington yield will be around 111%. Seminoe Reservoir inflow should be about 89%. *See the following page for more detailed information on projected runoff.*

Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

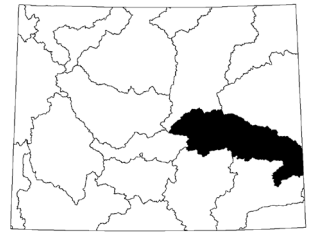
UPPER NORTH PLATTE RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
North Platte R nr Northgate								
	JUN-JUL	56	82	100	81%	118	144	123
	JUN-SEP	69	100	120	82%	140	171	146
Encampment R nr Encampment²								
	JUN-JUL	32	47	57	76%	67	82	75
	JUN-SEP	38	54	64	76%	74	90	84
Rock Ck nr Arlington								
	JUN-JUL	27	32	36	113%	40	46	32
	JUN-SEP	29	35	39	111%	43	49	35
Sweetwater R nr Alcova								
	JUN-JUL	-7.5	-1.49	2.6	10%	6.7	12.7	26
	JUN-SEP	-6.9	0.36	5.3	17%	10.2	17.5	31
Seminole Reservoir Inflow								
	JUN-JUL	215	290	345	88%	400	475	390
	JUN-SEP	260	340	395	89%	455	535	445

- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

UPPER NORTH PLATTE RIVER BASIN
Water Supply Forecasts
June 1, 2020

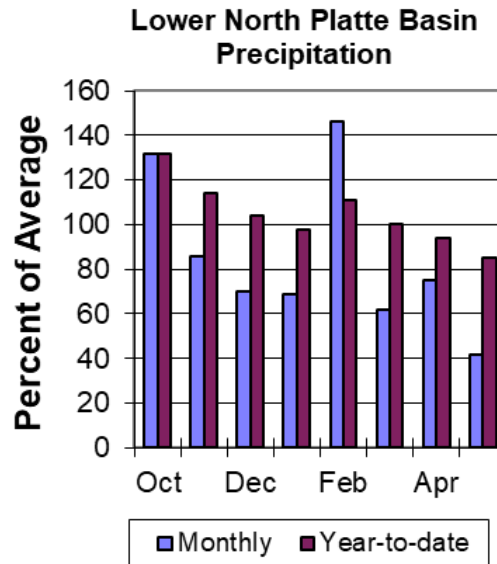
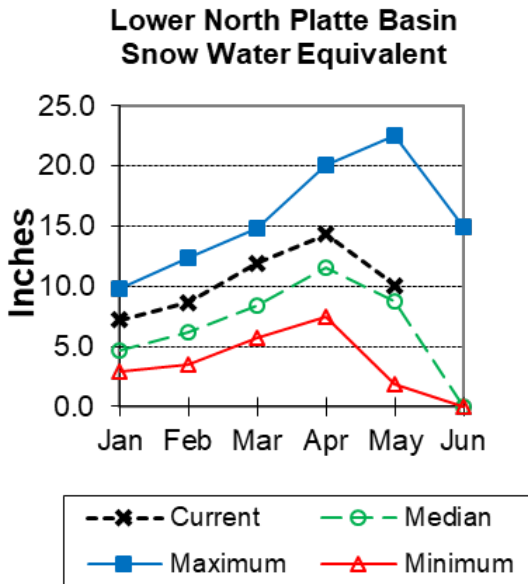


Lower North Platte River Basin



Snow

Currently there is no SWE recorded at sites in the Lower North Platte River Basin. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Last month's precipitation was 42% of average. The water year-to-date precipitation for the basin is currently 85% of average.

Reservoirs

Combined storage for the 4 reservoirs in the basin is at 119% of average.

	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Average % Capacity	Current % Average	Last Year % Average
Alcova	179.8	180.8	179.7	184.3	98%	98%	98%	100%	101%
Glendo	397.9	515.6	475.0	506.4	79%	102%	94%	84%	109%
Guernsey	28.0	32.3	34.3	45.6	61%	71%	75%	82%	94%
Pathfinder	971.6	833.1	633.8	1016.5	96%	82%	62%	153%	131%
Basin-wide Total	1577.3	1561.9	1322.8	1752.8	90%	89%	75%	119%	118%
# of reservoirs	4	4	4	4	4	4	4	4	4

Streamflow

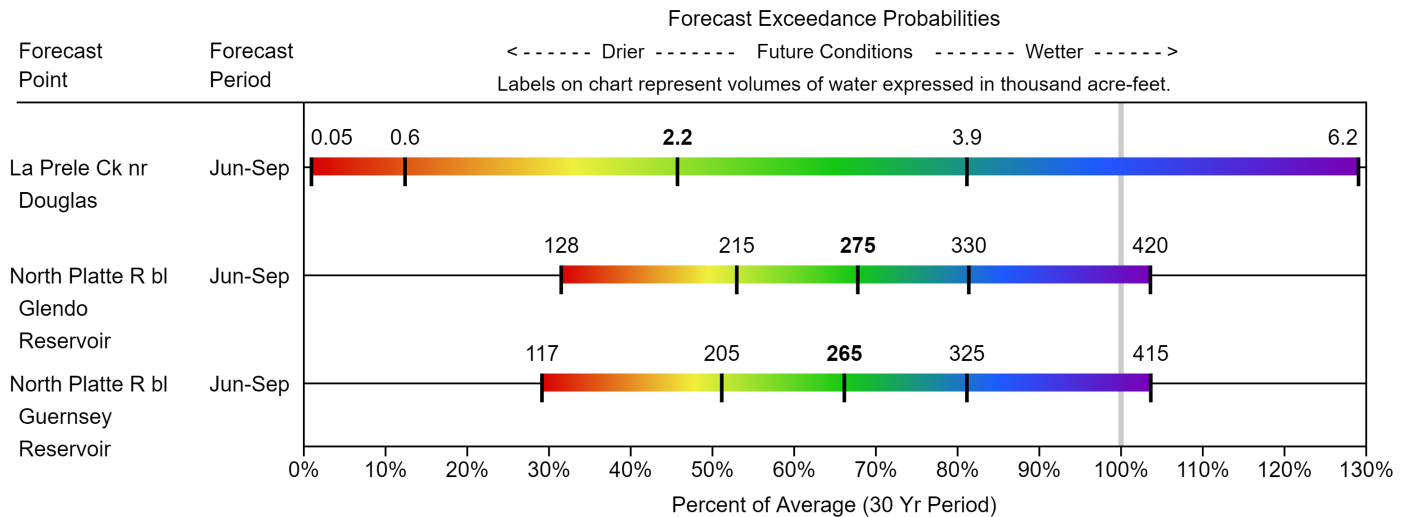
The 50% exceedance forecasts for the June through September period will be well below average. LaPrele Creek above LaPrele Reservoir is forecasted to yield 46% of average. North Platte River below Guernsey Reservoir to yield around 66% of average. *See the following for more detailed information on projected runoff.*

Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

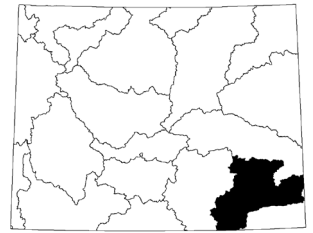
LOWER NORTH PLATTE RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
La Prele Ck ab La Prele Reservoir								
	JUN-JUL	0.04	0.33	1.89	42%	3.5	5.8	4.5
	JUN-SEP	0.05	0.6	2.2	46%	3.9	6.2	4.8
North Platte R bl Glendo Reservoir								
	JUN-JUL	115	195	250	67%	300	380	375
	JUN-SEP	128	215	275	68%	330	420	405
North Platte R bl Guernsey Reservoir								
	JUN-JUL	103	184	240	65%	295	375	370
	JUN-SEP	117	205	265	66%	325	415	400

- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

LOWER NORTH PLATTE RIVER BASIN
Water Supply Forecasts
June 1, 2020

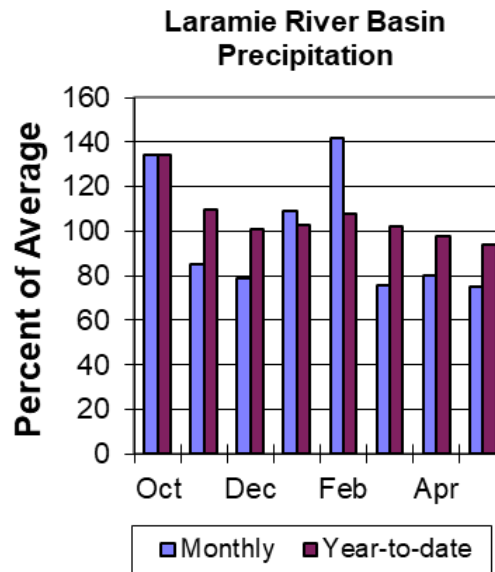
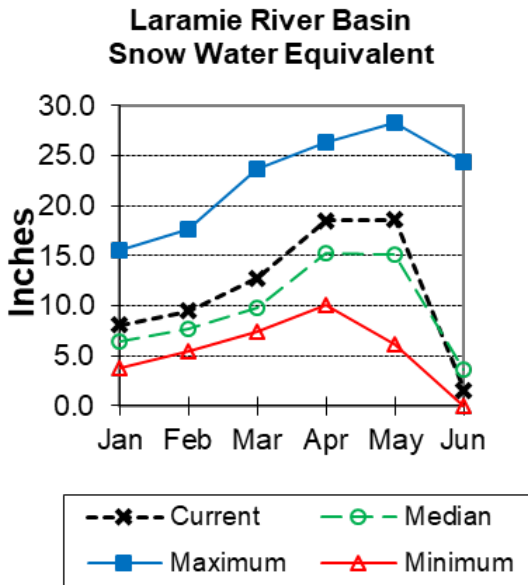


Laramie River Basin



Snow

SWE for the entire Laramie River Basin (above mouth entering North Platte) is 43% of median. SWE for the Laramie River above Laramie is 3% of median. SWE for the Little Laramie River is 105% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Last month's precipitation was 75% of average. The water year-to-date precipitation for the basin is currently 94% of average.

Reservoirs

No reservoir data for this basin.

Streamflow

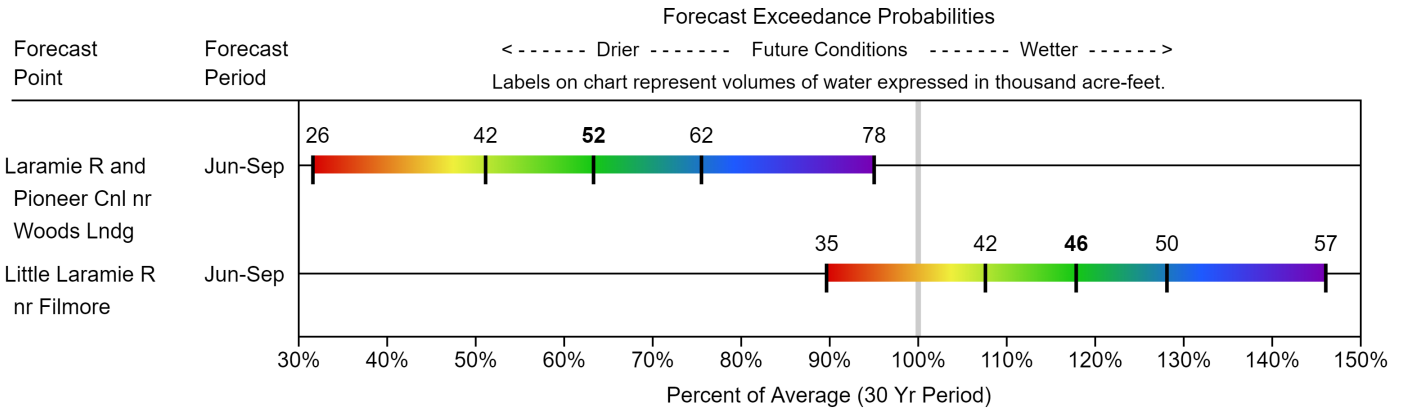
The 50% exceedance forecasts for the June through September period at Laramie River near Woods Landing should yield around 63% of average. The Little Laramie near Filmore should produce about 118% of average.

Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

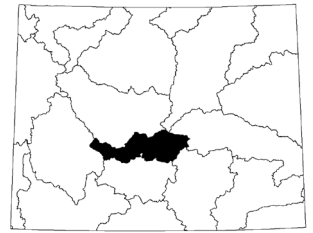
LARAMIE RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Laramie R nr Woods								
	JUN-JUL	20	34	44	62%	53	67	71
	JUN-SEP	26	42	52	63%	62	78	82
Little Laramie R nr Filmore								
	JUN-JUL	31	37	41	117%	45	51	35
	JUN-SEP	35	42	46	118%	50	57	39

- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

LARAMIE RIVER BASIN
Water Supply Forecasts
June 1, 2020

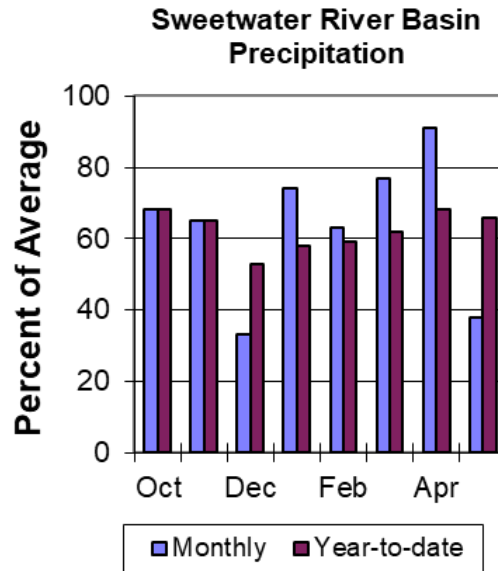
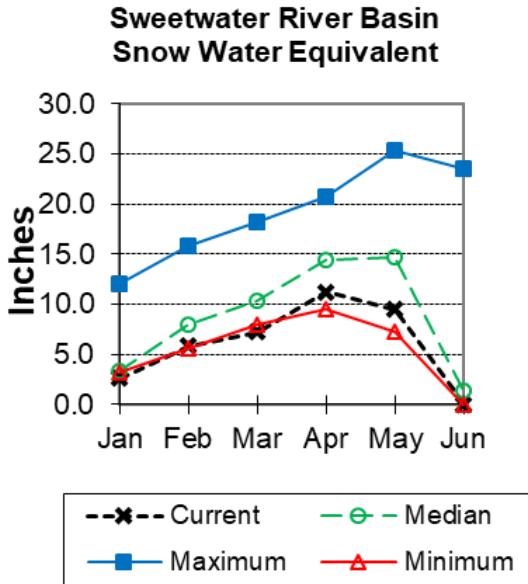


Sweetwater River Basin



Snow

Sweetwater River Basin SWE is at 0% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Last month's precipitation was 38% of average. The water year-to-date precipitation for the basin is currently 66% of average.

Reservoirs

Pathfinder is storing at 153% of average for this time of year.

	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Average % Capacity	Current % Average	Last Year % Average
Pathfinder	971.6	833.1	633.8	1016.5	96%	82%	62%	153%	131%
Basin-wide Total	971.6	833.1	633.8	1016.5	96%	82%	62%	153%	131%
# of reservoirs	1	1	1	1	1	1	1	1	1

Streamflow

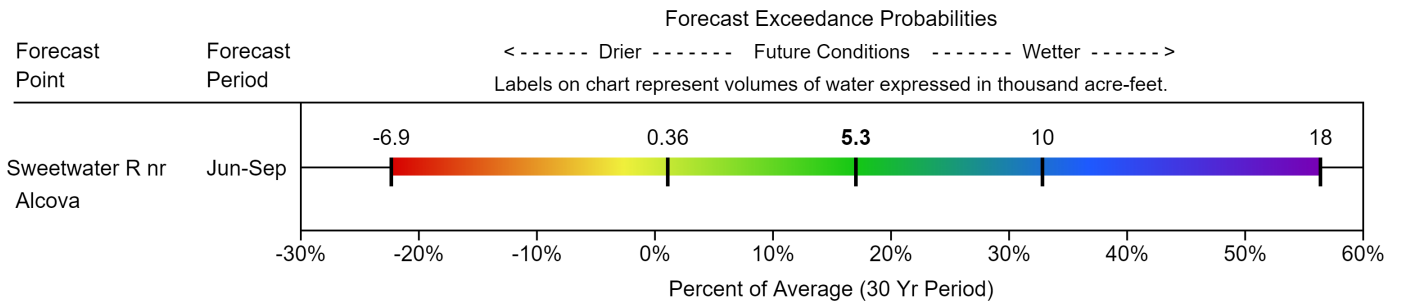
The following is the streamflow forecast for the June through September period. The Sweetwater River near Alcova will yield about 17% of average. *See below for detailed information on projected runoff.*

Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

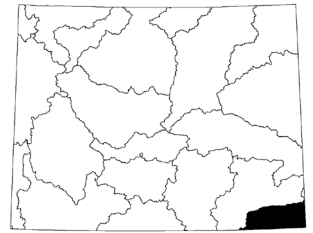
SWEETWATER RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Sweetwater R nr Alcova								
	JUN-JUL	-7.5	-1.49	2.6	10%	6.7	12.7	26
	JUN-SEP	-6.9	0.36	5.3	17%	10.2	17.5	31

- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

SWEETWATER RIVER BASIN
Water Supply Forecasts
June 1, 2020

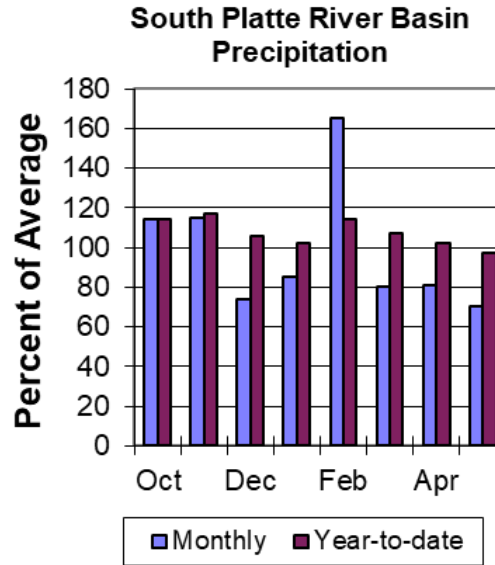
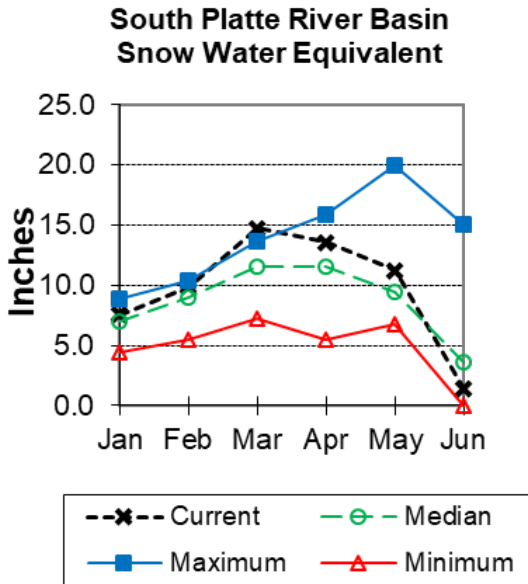


South Platte River Basin (WY)



Snow

South Platte River Basin SWE in WY is 38% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Last month's precipitation was 70% of average. The water year-to-date precipitation for the basin is currently 97%.

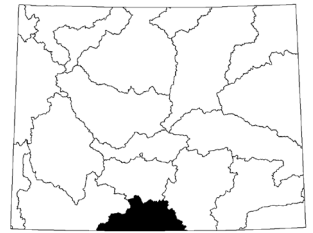
Reservoirs

No reservoir data for the basin.

Streamflow

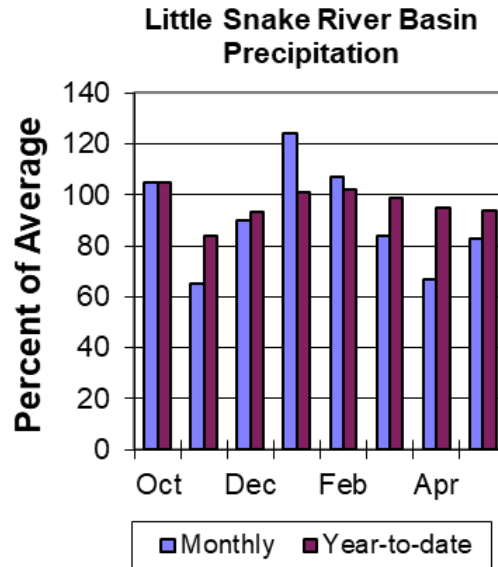
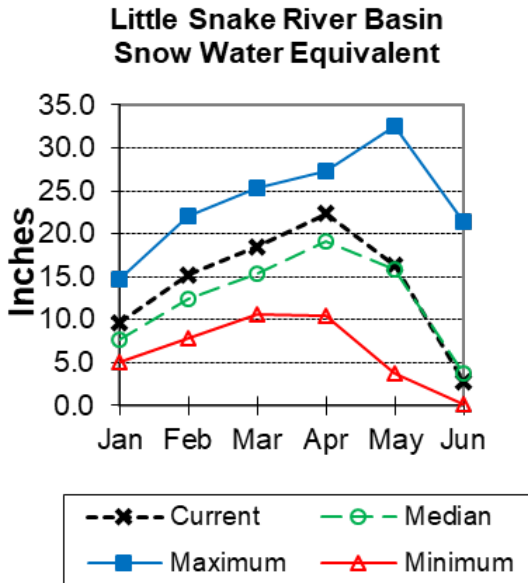
There are no streamflow forecast points for the basin.

Little Snake River Basin



Snow

Little Snake River drainage SWE is 72% of median. See *Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Precipitation across the basin was 83% of average. The Little Snake River Basin water-year-to-date precipitation is currently 94% of average.

Reservoirs

No reservoir data for the basin.

Streamflow

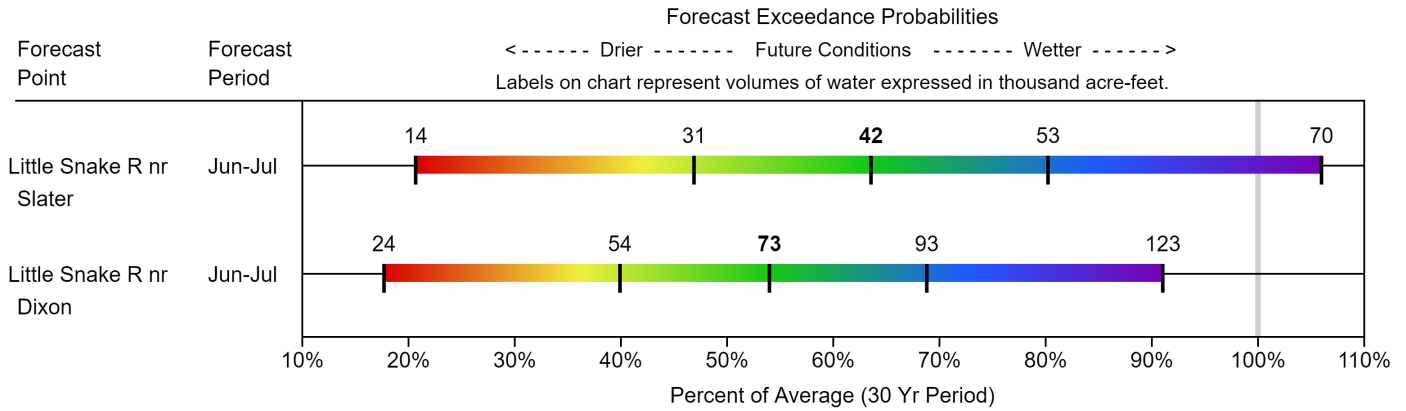
The 50% exceedance forecasts for the June through July period will be well below average. The Little Snake River near Slater is forecasted to yield around 64% of average. *See below for detailed information on projected runoff.*

Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

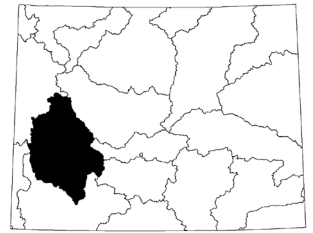
LITTLE SNAKE RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Little Snake R nr Slater ²	APR-JUL	117	134	145	93%	156	173	156
	JUN-JUL	13.7	31	42	64%	53	70	66
Little Snake R nr Dixon ²	APR-JUL	225	255	270	78%	290	320	345
	JUN-JUL	24	54	73	54%	93	123	135

- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

LITTLE SNAKE RIVER BASIN
Water Supply Forecasts
June 1, 2020

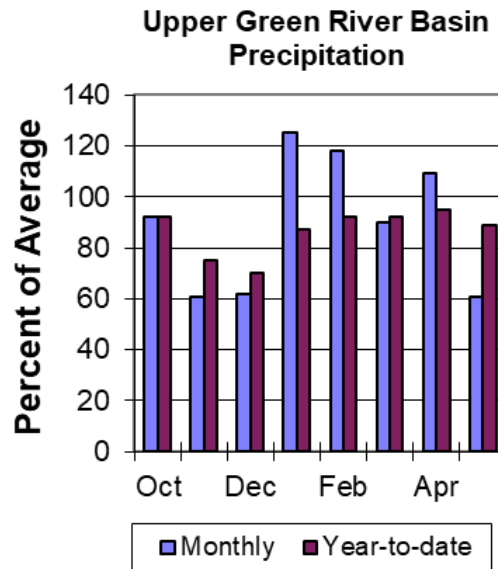
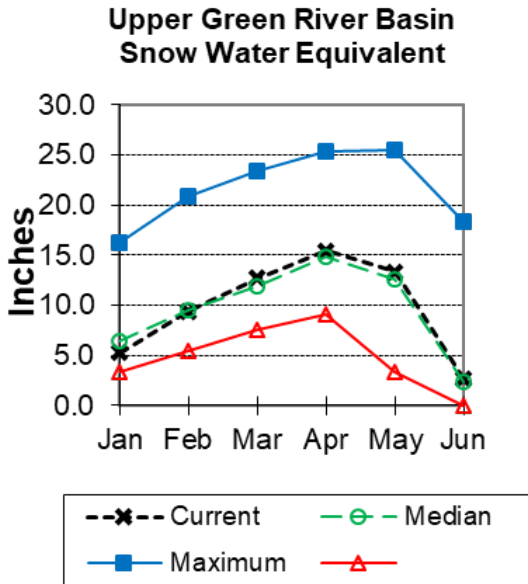


Upper Green River Basin



Snow

The Upper Green River Basin SWE (above Fontenelle Reservoir) is 114% of median. Green River Basin above Warren Bridge SWE is 154% of median. West Side of Upper Green River Basin SWE is 149% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Precipitation for sites in the basin was 61% of average last month. Water year-to-date precipitation is 89% of average.

Reservoir

Combined water storage in the basin was at 122% of average for the 2 reservoirs.

	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Average % Capacity	Current % Average	Last Year % Average
Big Sandy	31.4	29.2	29.1	38.3	82%	76%	76%	108%	100%
Fontenelle	203.5	204.1	164.0	344.8	59%	59%	48%	124%	124%
Basin-wide Total	234.9	233.3	193.1	383.1	61%	61%	50%	122%	121%
# of reservoirs	2	2	2	2	2	2	2	2	2

Streamflow

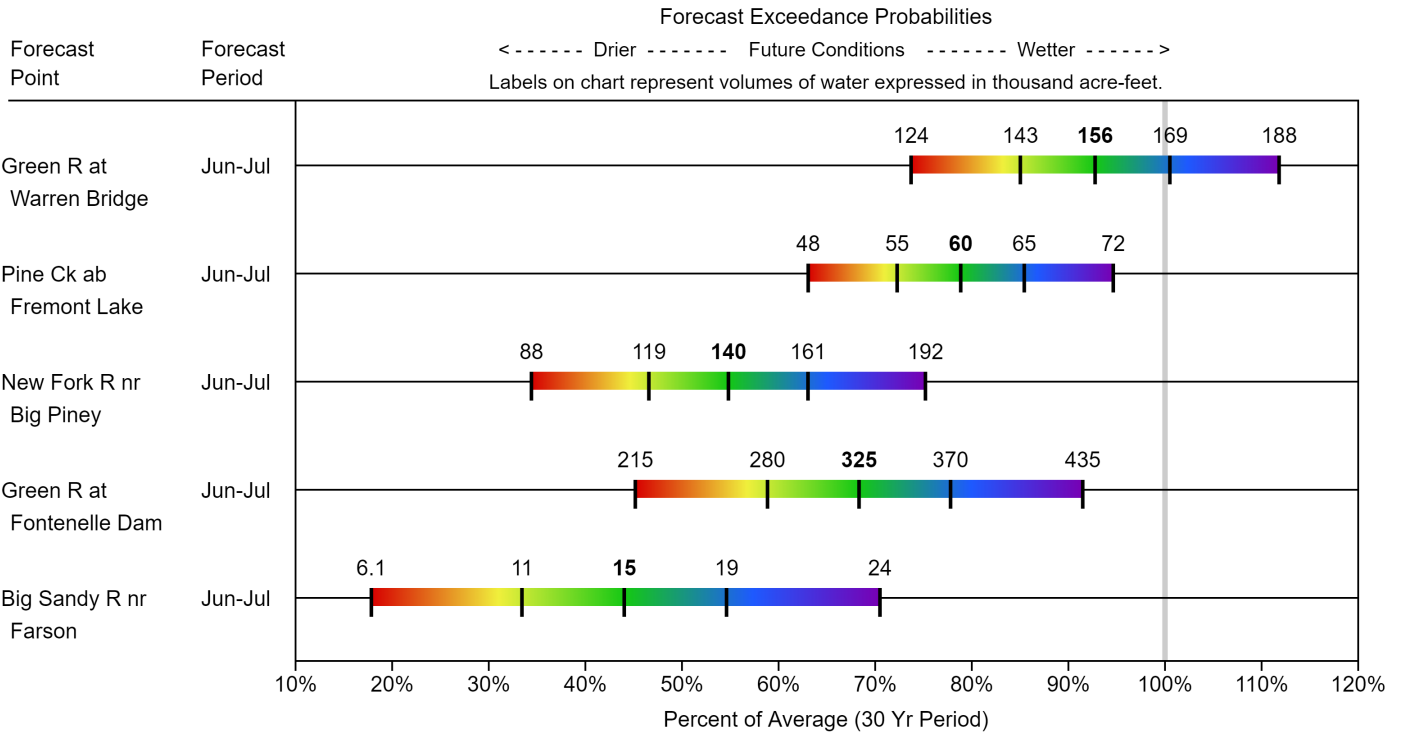
The 50% exceedance forecasts for the June through July period will be well below average. The yield on the Green River at Warren Bridge is about 93% of average. New Fork River near Big Piney yield will be around 55% of average. Fontenelle Reservoir Inflow is estimated to be about 68% of average. *See the following for a more detailed forecast.*

Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

UPPER GREEN RIVER BASIN	Forecast Period	Forecast Exceedance Probabilities for Risk Assessment						
		90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Green R at Warren Bridge								
	APR-JUL	191	210	225	92%	235	255	245
	JUN-JUL	124	143	156	93%	169	188	168
Pine Creek ab Fremont Lake								
	APR-JUL	65	72	77	79%	82	89	98
	JUN-JUL	48	55	60	79%	65	72	76
New Fork R nr Big Piney								
	APR-JUL	169	200	220	62%	240	275	355
	JUN-JUL	88	119	140	55%	161	192	255
Fontenelle Reservoir Inflow								
	APR-JUL	460	525	570	79%	615	680	725
	JUN-JUL	215	280	325	68%	370	435	475
Big Sandy R nr Farson								
	APR-JUL	16.4	22	25	48%	29	34	52
	JUN-JUL	6.1	11.4	15	44%	18.6	24	34

- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

UPPER GREEN RIVER BASIN
Water Supply Forecasts
June 1, 2020



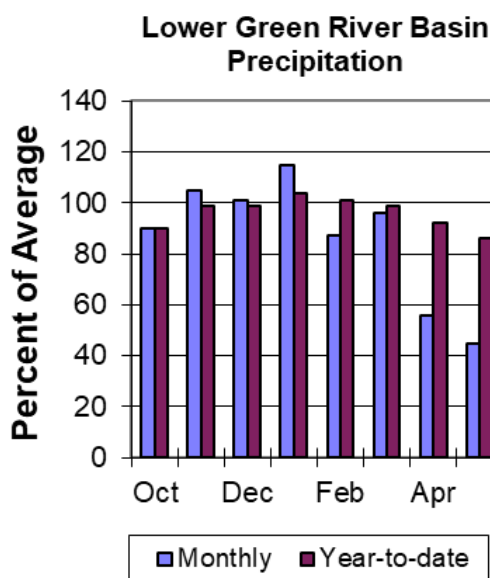
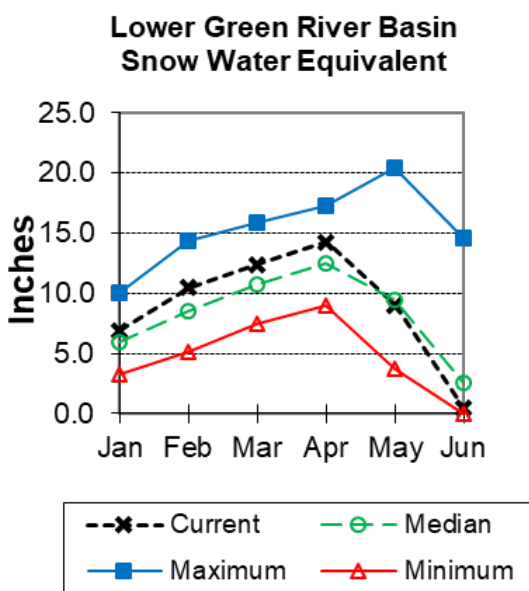
Lower Green River Basin



Snow

Lower Green River Basin SWE is at 16% of median. Hams Fork drainage SWE is 24% of median. Blacks Fork drainage SWE is 6% of median. SWE for the entire Green River Basin (above Flaming Gorge) is at 91% of median.

See Appendix at the end of this report for a detailed listing of snow course information.



Precipitation

Precipitation for the basin last month was 45% of average. The basin year-to-date precipitation is currently 86% of average.

Reservoirs

Combined storage for the 3 reservoirs in the basin was at 106% of average at the end of last month.

	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Average % Capacity	Current % Average	Last Year % Average
Fontenelle	203.5	204.1	164.0	344.8	59%	59%	48%	124%	124%
Flaming Gorge Reservoir	3227.6	3376.5	3070.0	3749.0	86%	90%	82%	105%	110%
Viva Naughton Res	39.9	40.8	41.5	42.4	94%	96%	98%	96%	98%
Basin-wide Total	3471.0	3621.3	3275.5	4136.2	84%	88%	79%	106%	111%
# of reservoirs	3	3	3	3	3	3	3	3	3

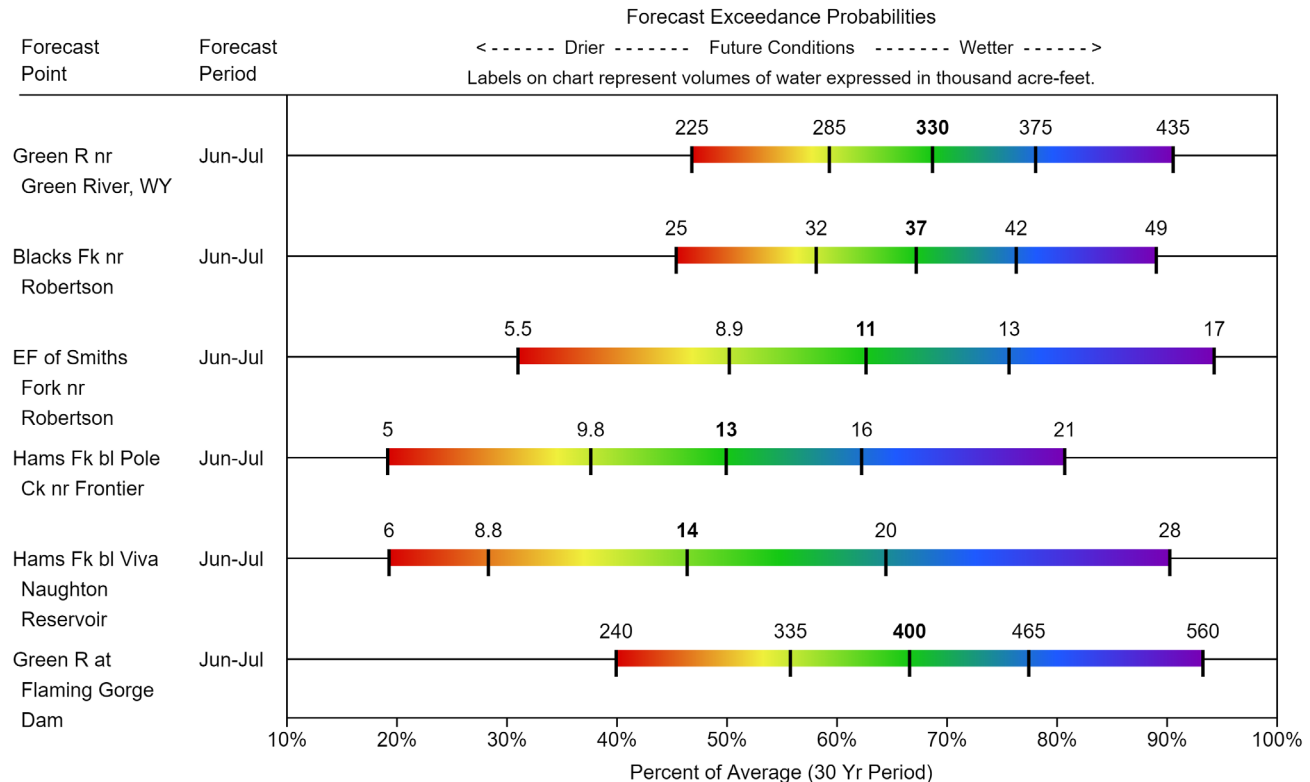
Streamflow

The following are the 50% exceedance forecasts for the June through July period. The Green River near Green River will yield about 69% of average. The Flaming Gorge Reservoir inflow will be about 67% of average. *See the following page for more detailed information on projected runoff.*

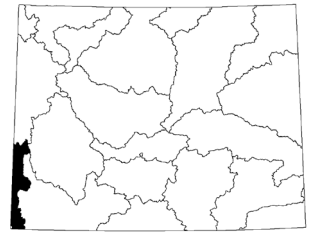
		Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						
LOWER GREEN RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Green R nr Green River, WY								
	APR-JUL	480	540	585	80%	630	690	730
	JUN-JUL	225	285	330	69%	375	435	480
Blacks Fk nr Robertson								
	APR-JUL	68	75	80	93%	85	92	86
	JUN-JUL	25	32	37	67%	42	49	55
EF of Smiths Fork nr Robertson 2								
	APR-JUL	21	24	26	96%	29	32	27
	JUN-JUL	5.5	8.9	11.1	63%	13.4	16.7	17.7
Hams Fk bl Pole Ck nr Frontier								
	APR-JUL	28	33	36	67%	39	44	54
	JUN-JUL	5	9.8	13	50%	16.2	21	26
Viva Naughton Reservoir Inflow								
	APR-JUL	42	44	50	68%	56	64	74
	JUN-JUL	6	8.8	14.4	46%	20	28	31
Flaming Gorge Reservoir Inflow 2								
	APR-JUL	570	665	730	74%	795	890	980
	JUN-JUL	240	335	400	67%	465	560	600

- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

LOWER GREEN RIVER BASIN
Water Supply Forecasts
June 1, 2020



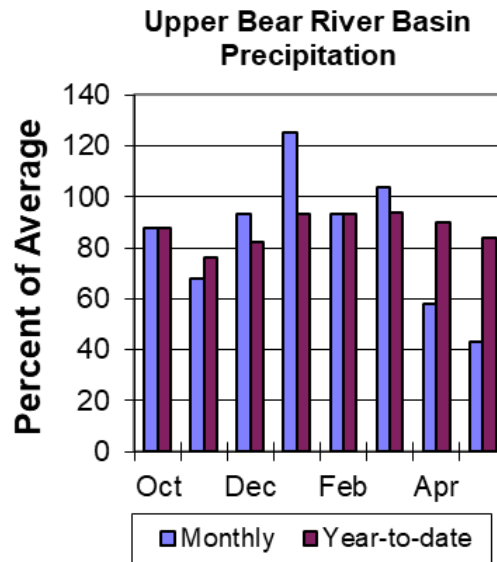
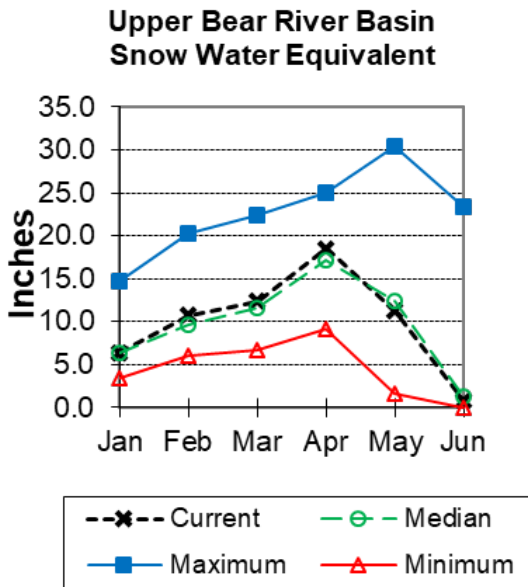
Upper Bear River Basin



Snow

SWE in the Upper Bear River Basin of Utah is 57% of median. SWE in the Wyoming portion of the Bear River drainage (Smiths and Thomas Forks) is 108% of median.

See Appendix at the end of this report for a detailed listing of snow course information.



Precipitation

Precipitation for last month was 43% of average in the basin. The year-to-date precipitation for the basin is 84% of average.

Reservoirs

Storage in Woodruff Narrows Reservoir was at 128% of average for the end of last month.

	Current (KAF)	Last Year (KAF)	Average Capacity (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Average % Capacity	Current % Average	Last Year % Average
Woodruff Narrows Reservoir	58.3	58.0	45.5	57.3	102%	101%	79%	128%	127%
Basin-wide Total	58.3	58.0	45.5	57.3	102%	101%	79%	128%	127%
# of reservoirs	1	1	1	1	1	1	1	1	1

Streamflow

The 50% exceedance forecasts for the June through September period will be well below average. The Bear River above Reservoir near Woodruff to yield around 28% of average. The Smiths Fork River near Border Jct. will yield around 89%. *See the following page for more detailed information on projected runoff.*

Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast

UPPER BEAR RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Bear R nr UT-WY State Line								
	JUN-JUL	11.4	25	35	53%	44	58	66
	JUN-SEP	16.1	32	43	55%	54	70	78
Bear R ab Resv nr Woodruff								
	JUN-JUL	0.57	4	15.6	27%	31	54	57
	JUN-SEP	0.64	5.8	18.1	28%	31	59	64
Smiths Fk nr Border								
	JUN-JUL	34	40	44	88%	48	54	50
	JUN-SEP	46	53	58	89%	63	70	65

1) 90% and 10% exceedance probabilities are actually 95% and 5%

2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions

3) Median value used in place of average

Appendix - Snowpack Data

In Word double click the object below to view entire document



BSnow_6_2020.pdf

Appendix - Precipitation Data

In Word double click the object below to view entire document



BPrecip_6_2020.pdf

Issued by:

Matthew Lohr (Chief)
U.S.D.A.
Natural Resources Conservation Service
Washington D.C.

Released by:

Astrid Martinez
State Con.
N R C S
Casper, Wyoming

The Following Agencies and Organizations Cooperate with the Natural Resources Conservation Service on the Snow Survey Work.

FEDERAL:

United States Department of the Interior (National Park Service) United States Department of Agriculture
(Forest Service)

United States Department of the Interior (Bureau of Reclamation)

United States Department of Commerce NOAA (National Weather Service)

State:

The Wyoming State Engineer's Office

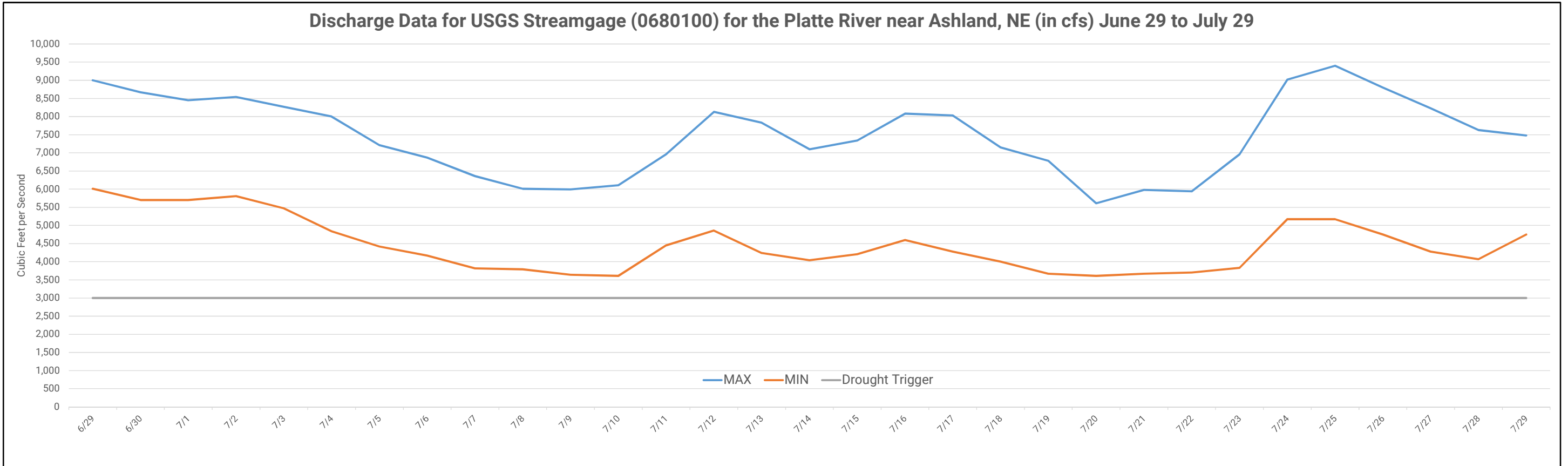
The University of Wyoming

Local:

The City of Cheyenne

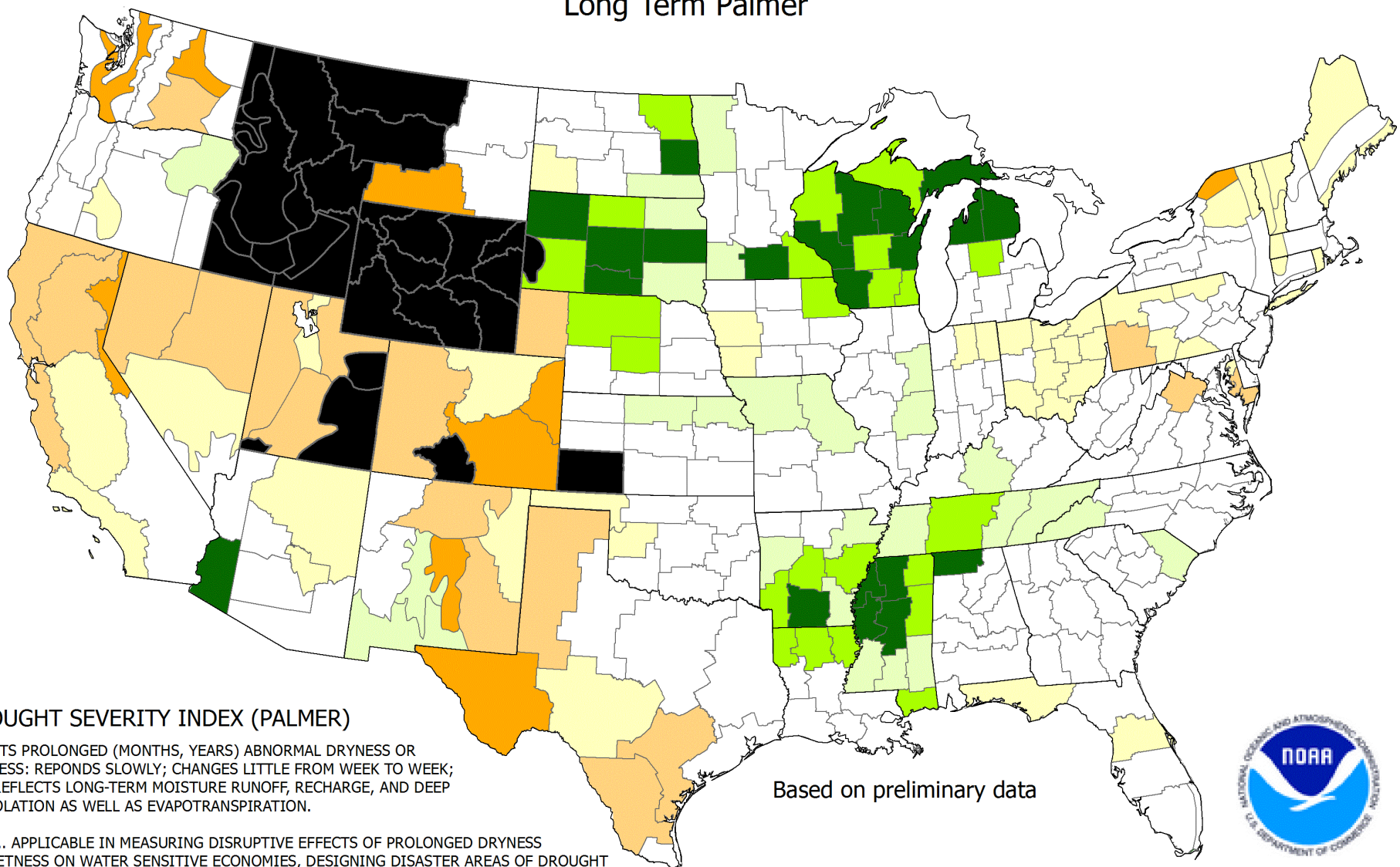
The City of Rawlins

Date	6/29	6/30	7/1	7/2	7/3	7/4	7/5	7/6	7/7	7/8	7/9	7/10	7/11	7/12	7/13	7/14	7/15	7/16	7/17	7/18	7/19	7/20	7/21	7/22	7/23	7/24	7/25	7/26	7/27	7/28	7/29
MAX	9,000	8,670	8,450	8,540	8,270	8,000	7,210	6,870	6,360	6,010	5,990	6,110	6,960	8,130	7,830	7,100	7,340	8,080	8,030	7,150	6,780	5,610	5,980	5,940	6,960	9,020	9,400	8,800	8,230	7,630	7,480
MIN	6,010	5,700	5,700	5,810	5,470	4,840	4,420	4,170	3,820	3,790	3,640	3,610	4,450	4,860	4,240	4,040	4,210	4,600	4,280	4,000	3,670	3,610	3,670	3,700	3,830	5,170	5,170	4,750	4,280	4,070	4,750
Drought Trigger	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000



These data are provisional and subject to revision.

Drought Severity Index by Division Weekly Value for Period Ending Jul 25, 2020 Long Term Palmer



DROUGHT SEVERITY INDEX (PALMER)

DEPICTS PROLONGED (MONTHS, YEARS) ABNORMAL DRYNESS OR WETNESS; REponds SLOWLY; CHANGES LITTLE FROM WEEK TO WEEK; AND REFLECTS LONG-TERM MOISTURE RUNOFF, RECHARGE, AND DEEP PERCOLATION AS WELL AS EVAPOTRANSPIRATION.

USES... APPLICABLE IN MEASURING DISRUPTIVE EFFECTS OF PROLONGED DRYNESS OR WETNESS ON WATER SENSITIVE ECONOMIES, DESIGNING DISASTER AREAS OF DROUGHT OR WETNESS; AND REFLECTING THE GENERAL LONG-TERM STATUS OF WATER SUPPLIES IN AQUIFERS, RESERVOIRS AND STREAMS.

LIMITATIONS... IS NOT GENERALLY INDICATIVE OFFSHORT-TERM (FEW WEEKS) STATUS OF DROUGHT OR WETNESS SUCH AS FREQUENTLY AFFECTS CROPS AND FIELD OPERATIONS (THIS IS INDICATED BY THE CROP MOISTURE INDEX).

Based on preliminary data



- 4.0 or less (Extreme Drought)
- 3.0 to -3.9 (Severe Drought)
- 2.0 to -2.9 (Moderate Drought)
- 1.9 to +1.9 (Near Normal)
- +2.0 to +2.9 (Unusual Moist Spell)
- +3.0 to +3.9 (Very Moist Spell)
- +4.0 and above (Extremely Moist)
- Missing/Incomplete

UNITED STATES DEPARTMENT OF THE INTERIOR
DOWN PAYMENT (BILL) REQUEST

Make Remittance Payable To: U.S. Geological Survey
Billing Contact: Lisa B. Dietsch, Admin Officer Phone: 402-328-4116

Bill #: 90826441
Customer: 6000000136
Date: 07/09/2020
Due Date: 09/07/2020

Remit Payment To: United States Geological Survey
P.O. Box 6200-27
Portland, OR 97228-6200

Payer: LOWER PLATTE NORTH NRD
P.O. BOX 126
WAHOO NE 68066

Additional forms of payment may be accepted. Please email GS-A-HQ_RMS@USGS.GOV or call 703-648-7683 for additional information.

To pay through Pay.gov go to <https://www.pay.gov>.

Checks must be made payable to U.S. Geological Survey. Please detach the top portion or include bill number on all remittances.

Amount of Payment: \$ _____

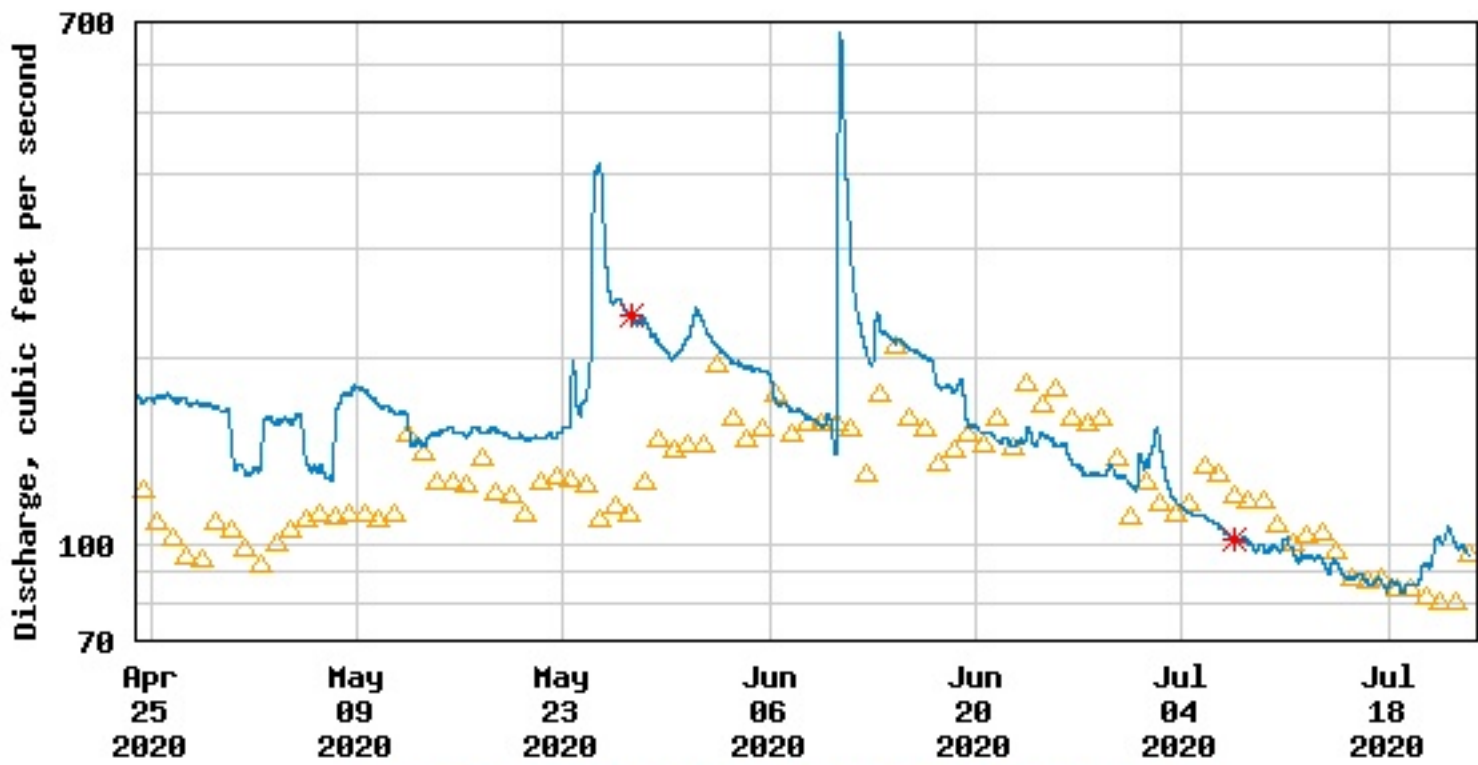
Date	Description	Qty	Unit Price		Amount
			Cost	Per	
07/09/2020	Streamgages at Shell Creek near Columbus and Wahoo Creek at Ashland, and one real-time groundwater level monitoring site, as agreed upon in the Joint Funding Agreement between Lower Platte North Natural Resources District and U.S. Geological Survey. JFA No. 20NRJFA00170 USGS Billing Contact Anne Wettstead 402-328-4182 20NRJFA00170	1	17,090.00	1	17,090.00
Amount Due this Bill:					17,090.00

Accounting Classification:
Sales Order: 88634
Sales Office: GENR
Customer: 6000000136
Accounting #: 11098445

TIN: *****2716

lpnnrd @ lpnnrd.org

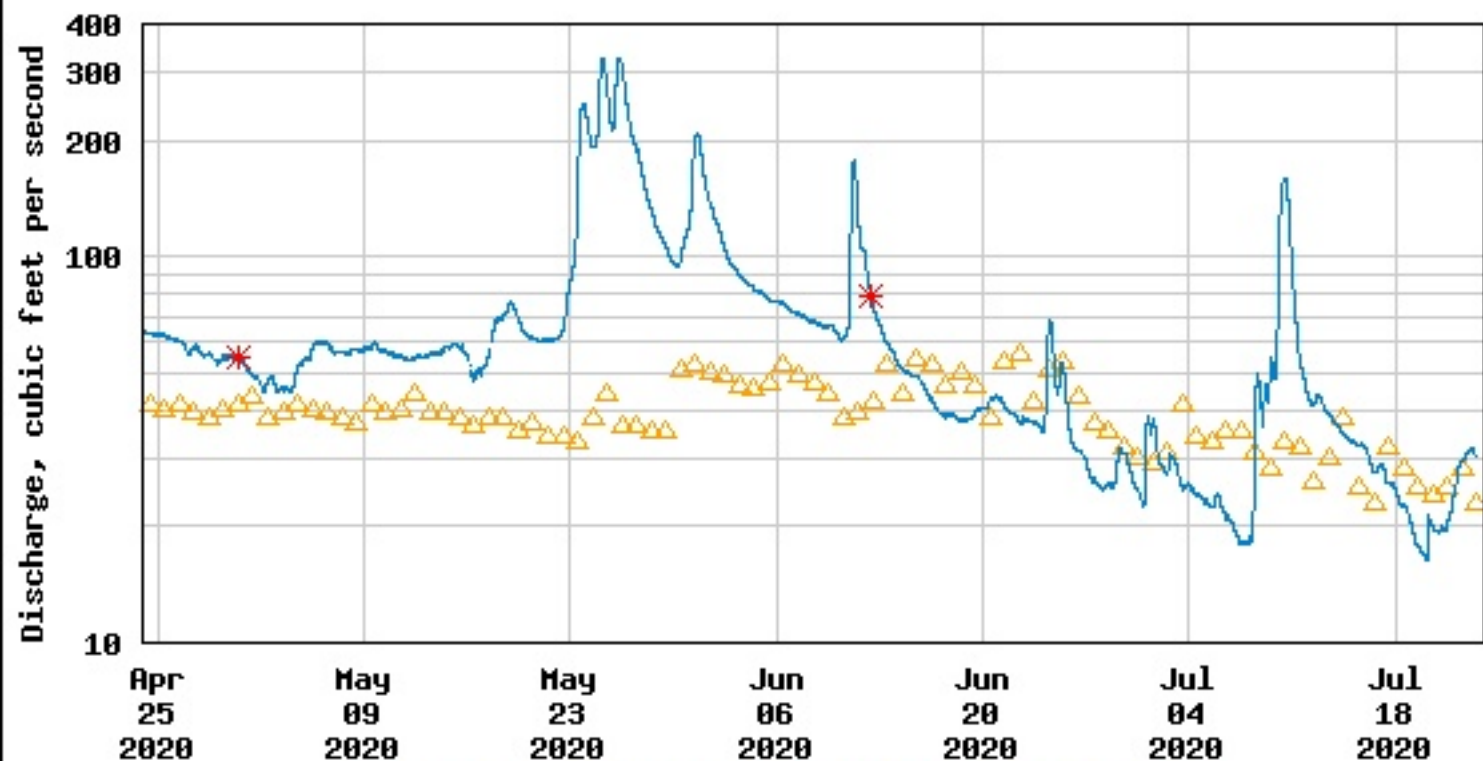
USGS 06804700 Wahoo Creek at Ashland, Nebr.



----- Provisional Data Subject to Revision -----

- △ Median daily statistic (29 years)
- * Measured discharge
- Discharge

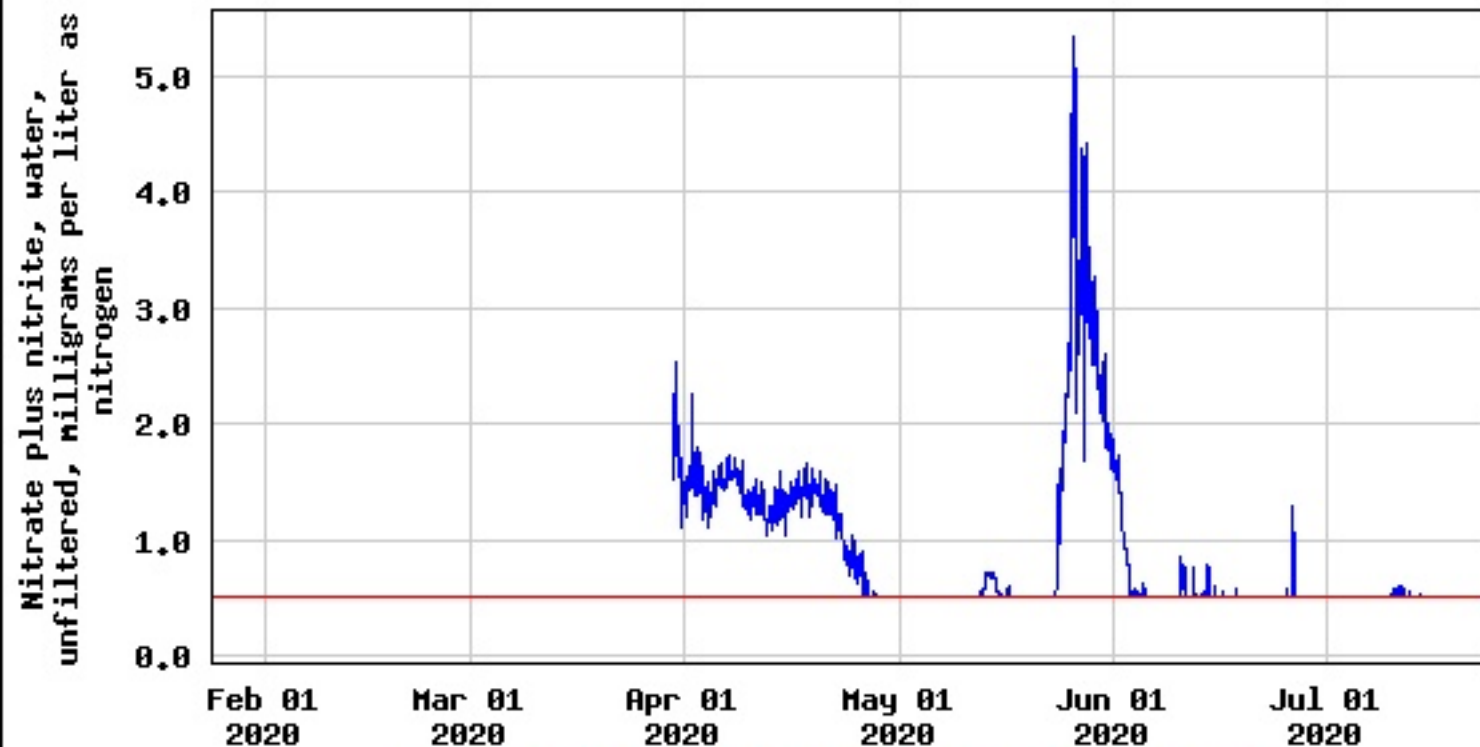
USGS 06795500 Shell Creek near Columbus, Nebr.



----- Provisional Data Subject to Revision -----

- △ Median daily statistic (28 years)
- ★ Measured discharge
- Discharge

USGS 06796500 Platte River near Leshara, Nebr.

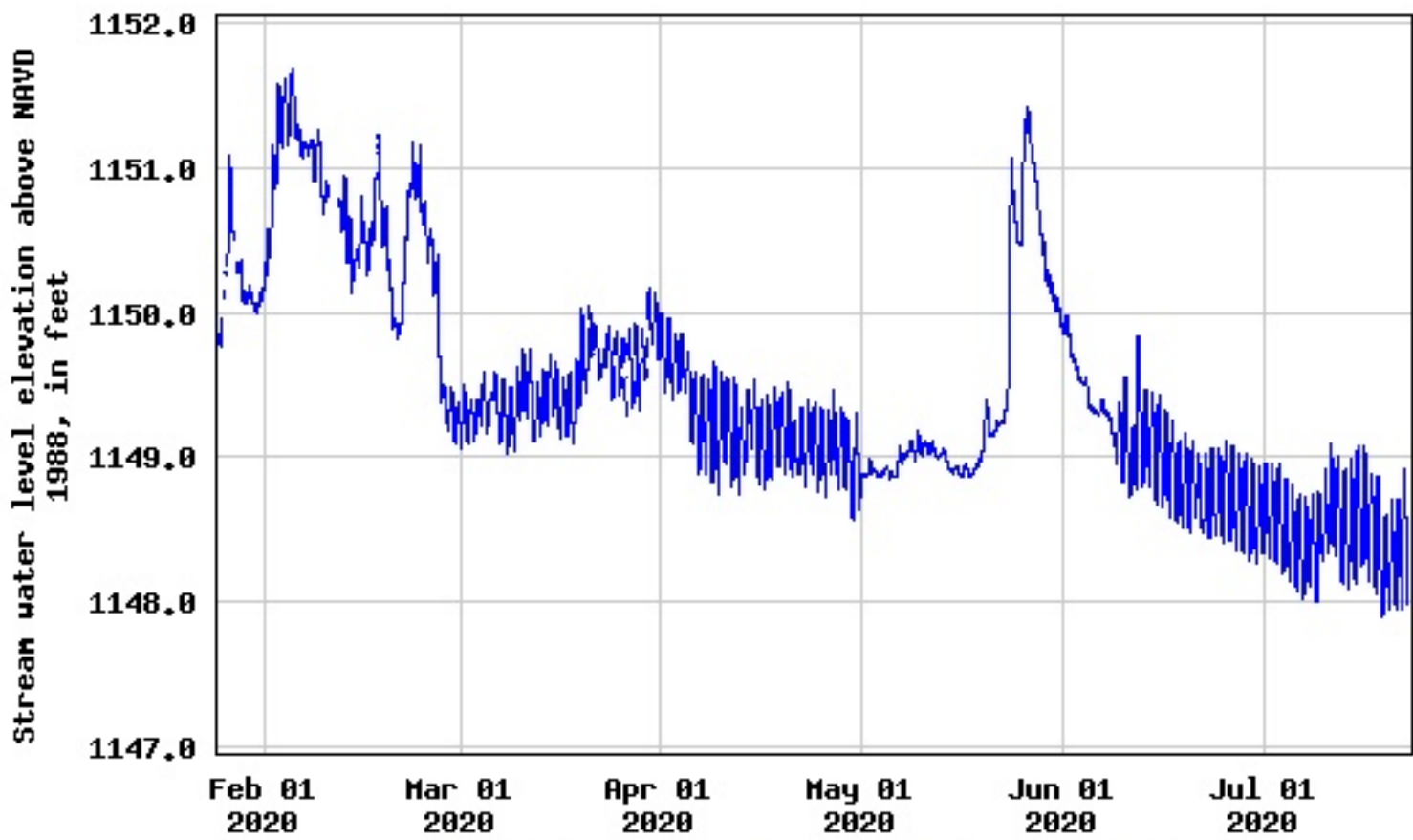


----- Provisional Data Subject to Revision -----

— Nitrate plus nitrite

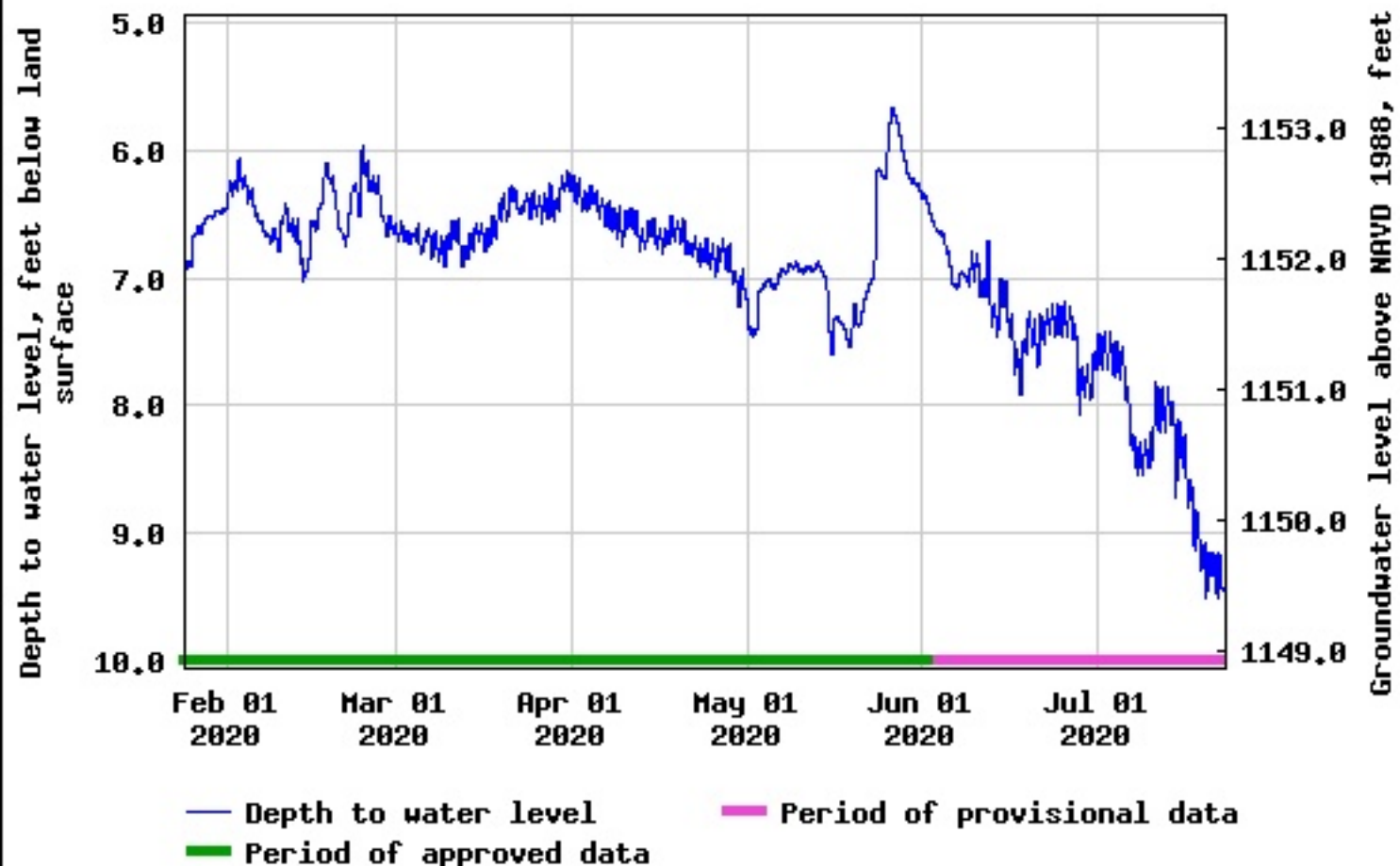
— Minimum reporting limit on the nitrate monitor

USGS 06796500 Platte River near Leshara, Nebr.



---- Provisional Data Subject to Revision ----

USGS 411903096245501 16N 9E33ABCD1 LPNNRD-80



Itinerary of Chief Lohr's Visit to Nebraska

Tuesday, August 4

- **9:30 p.m.** Craig will pick up Chief Lohr at the Lincoln airport from United flight #5535 and take him to his hotel.

Wednesday, August 5

- **7:30 a.m.** Craig will pick up Chief Lohr at the hotel. They will ride together to [Lake Wanahoo Education Building](#).
- **8:30 a.m.** Arrive Lake Wanahoo

Meet with Lower Platte North Natural Resources District staff/board members, Wahoo NRCS field office staff and other staff/partners including: Brad Soncksen, NRCS Assistant State Conservationist for Programs; Joanna Pope, NRCS State Public Affairs Officer; Steve Nelson, President of the Nebraska Farm Bureau; Ralph Pieke, former NRD board member; Dean Edson, Executive Director of the Nebraska Association of Resources Districts; and Kent Zimmerman, president of the National Association of State Conservation Agencies (others?)

* Brad and Joanna can travel to Wahoo together in a vehicle. Brad can ride back to Lincoln with Jim Reedy and Brian Baskerville (check out van or larger GOV to spread out) to keep numbers low for Rogers Memorial Farm visit since they are asking for small number of visitors.

- **8:30 – 8:45 a.m.** Welcome Chief Lohr to Nebraska and provide introductions – Craig Derickson, Nebraska NRCS State Conservationist
- **8:45 – 9:00 a.m.** NRCS employees introduce themselves and briefly share about the work they're doing
- **9:00 – 9:45 a.m.** NRD Discussion – Eric Gottschalk, Lower Platte North NRD General Manager and Tom Mountford, Lower Platte North NRD Assistant Manager
 - Overview/history of the NRD system and its roles and responsibilities
 - Lake Wanahoo
 - Important conservation field work in the Lower Platte North NRD
 - Shell Creek (Ralph Pieke)
 - History of PL-566 dams in the Lower Platte North NRD
 - Wahoo Creek Watershed
- **9:45 – 10:00 a.m.** Overview of the Nebraska Association of Resources Districts roll – Dean Edson, Executive Director of NACD
- **10:00 – 10:15 a.m.** Nebraska Department of Natural Resources/National Association of State Conservation Agencies update - Kent Zimmerman, NASCA President
- **10:15 – 10:30 a.m.** Break

- **10:30 – 11:15 a.m.** Demo of LIDAR and survey equipment – Jim Reedy, NRCS State Technology Engineer & Josh Charles, Soil Conservation Technician
- **11:15 – 11:45 a.m.** Demo of GIS tools used for wetland determinations – Brian Baskerville, NRCS Area Technology Specialist
- **11:45 – 12:30 p.m.** Lunch (Eric offered to purchase lunches from Subway. We can eat at the Wahoo Environmental Education Center or if we're running behind, we can eat on the road)
- **12:30 – 12:45 p.m.** Travel to Beginning Farmer site
- **12:45 – 1:30 p.m.** Tour/visit with beginning farmer Joe Petersen about how he's worked with NRCS to make conservation improvements on his farm – Jami Thoene, NRCS Resource Conservationist and State Beginning Farmer/Rancher Coordinator will facilitate
- **1:30 – 2:00 p.m.** Travel to [Rogers Memorial Farm](#) – 18630 Adams Street, Lincoln NE (Invited in addition to those presenting on site: Corey Schmidt, NRCS District Conservationist; Mike Bergert, NRCS Resource Conservationist, Steve Wellman, Nebraska Department of Agriculture Director, Orval Gigstadt. We have been requested by the Rogers Farm staff to keep attendee size small due to COVID. All attendees will need to mask up. If raining, will only have access to bldg. the size of a 2-stall garage. No rest rooms available. Will make pit stop in Waverly).
- **2:00 – 3:00 p.m.** Tour farm and cover crop plots, followed by a presentation about the tillage study - Paul Jasa, Extension Engineer
- **3:00 – 3:30 p.m.** Soil Health Demonstration – Aaron Hird, NRCS State Soil Health Specialist
- **3:30 – 4:00 p.m.** Travel to Mike McDonald's field near Douglas, NE (Invite: Britt Weiser, NRCS State Resource Conservationist; Neil Dominy, NRCS Assistant State Conservationist for Partnerships and Initiatives, Doug Wagner, NRCS Area Conservationist)
- **4:00 – 4:30 p.m.** View Mike's cover crop field and learn about his role in the Soil Health Taskforce
- **4:30 – 5:15 p.m.** Travel back to the hotel
- **6:30 – 8:30 p.m.** Dinner with Chief (10-12 maximum, outdoors if possible)

Thursday August 6

- **7:00 a.m.** - Craig and Allen Gehring will pick up Chief Lohr at his hotel. (Chief will need to check out of hotel.) During the drive Allen Gehring, NRCS State Engineer will provide an overview of EWP and watershed projects in Nebraska.
- **7:00 - 8:00 a.m.** Travel to Kirkpatrick Wildlife Management Area just west York (*NRD could be rain alternative site*) Invite: Andy Bishop, Rainwater Basin Joint Venture Coordinator; Kim Siebert, area landowner; Dave Eigenberg, Upper Big Blue Natural Resources District General Manager; Roric Pallman, Rainwater Basin Joint Venture board member; Brad Dunbar, Lindsay Cooperation; Gayle Marsh, landowner; James Huntwork, NRCS Area Conservationist; Josh Bowers and the York NRCS field office staff. (**Should make a rest room stop at rest area along I-80 just before York.*)
- **8:00 - 8:15 a.m.** Introductions and History of RWBs the JV and partnership – Andy Bishop, RWBJV Coordinator

- **8:15 – 8:35 a.m.** Kim Siebert will talk about how he's using his cattle to graze Kirkpatrick WMA through public/private partnership between NRDs/RWBJV/NRCS to help manage wetland and provide forage for his cattle. [See story here](#)
- **8:35 – 9:15 a.m.** Irrigation Innovation
 - "Divots in the Pivots" RCPP - Gayle Marsh and Brad Dunbar
 - NRD Irrigation projects - Dave Eigenberg
 - NRD water programs in the Platte Valley for the past 30 years - James Huntwork
- **9:15 – 10:30 a.m.** Travel back to the Federal Building
- **10:30 a.m. – 10:45 a.m.** Break
- **10:45 – 11:15 a.m.** Meet with NRCS employees in Room 397 A&B include field staff via Teams
- **11:15 a.m.** Lunch brought into 397 A&B for Chief and combined Nebraska state office and National Soil Survey Center (NSSC) leadership staffs
- **11:30 a.m.** Begin discussion on NSSC operations via Teams for offsite National Leaders – Nebraska state office leadership staff invited to stay. Each National Leader will have 10 minutes to highlight what their branch is doing for NRCS and the conservation partnership
- **12:50 p.m.** Kellogg Soil Survey Lab tour including processing, archive, and lab
- **1:30 p.m.** Return to 372 or Nebraska NRCS state office for wrap up.
- **1:45 p.m.** Head to Lincoln airport
- **3:16 p.m.** Chief Lohr's flight leaves Lincoln

NRCS Staff should make every attempt to carpool to keep number of GOVs low at each site. Should also try to reserve larger GOVs and spread out within the vehicle, masks on, windows cracked. Masks will be required at indoor locations and at Rogers Memorial Farm – even while outside. Remember to social distance at all tour sites, including for photos. Other partner agencies may have different COVID-19 safety protocol, but we need to follow NRCS policy and do everything we can to keep the Chief safe and comfortable while traveling.

SWCP Monthly Report

SWCP # STATUS NAME

APPROVED SMALL DAM PROJECTS:

15-S-12 Approved Mike Chvatal

APPROVED SUMMER PROJECTS:

20-S-1	Dennis Beranek
20-S-2	Randy Beranek
20-S-3	Rick Beranek
20-S-4	Elaine Kaspar
20-C-1	Louis Lutjelusche*
20-C-2	Terry & Spring Wendt*
20-C-3	Randy Brabec*
20-P-1	Keith Runge*
20-P-2	Jeff Lusche*
20-D-1	Diers Family Farm

TOTAL SUMMER APPROVALS

APPROVED FALL PROJECTS:

20-B-1	Joseph Hanis
20-B-2	Dwayne Lanc
20-S-5	John Kaspar
20-S-6	Dave Vrana
20-S-7	Robert & Linda Fickes
20-S-8	Dennis Brabec*

TOTAL FALL APPROVALS

TOTAL FY20 SWCP APPROVAL

PAID PROJECTS

<i>SWCP #</i>	<i>STATUS</i>	<i>NAME</i>
20-C-2	PAID	Terry & Spring Wendt

Total SWCP PAID:



July 30, 2020

SWCP LOCAL
SWCP TREE ALLOCATION
STATE ALLOCATION
CASH CARRY-OVER
AMOUNT SPENT
CASH BALANCE
ALLOCATION %

AMOUNT PROJECT

\$ 46,356.00 Small Dam

\$ 10,000.00 TOT

\$ 10,000.00 TOT

\$ 10,000.00 TOT

\$ 12,500.00 WASCOB/TO

\$ 12,123.00 Planned grazing system

\$ 12,500.00 Planned grazing system

\$ 6,534.56 Grass Waterway

\$ 11,276.95 Livestock well (solar)

\$ 10,759.69 Livestock well (solar)

\$ 18,964.65 Livestock well (solar)

\$ 114,658.85

\$ 12,500.00 WASCOB w/ TO

\$ 12,500.00 TOT/WASCOB w/TO

\$ 12,500.00 TOT/WASCOB w/TO

\$ 3,210.00 Terrace enlargement

\$ 10,000.00 TOT/WASCOB w/TO

\$ 20,130.09 Grassed Waterway

\$ 70,840.09

\$ 185,498.94

LANDS FOR CONSERVATION

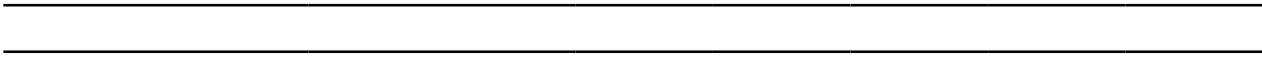
	<i>AMOUNT</i>	<i>PROJECT</i>	<i>Name</i>
\$	7,464.60	Planned Grazing System	

\$

7,464.60

TOTALS





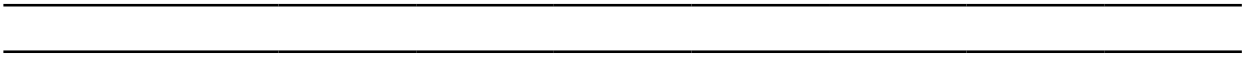
VATION (GRANT FUNDED)

Acres

Amount

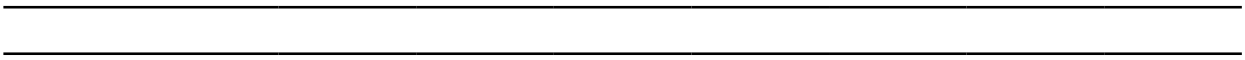
-83 \$ (15,770.00)



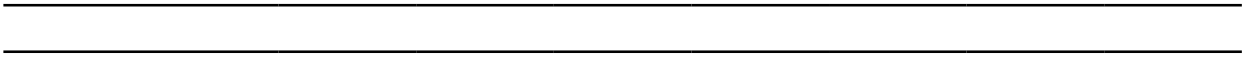






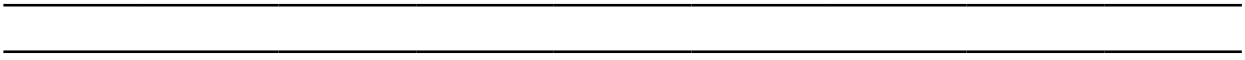






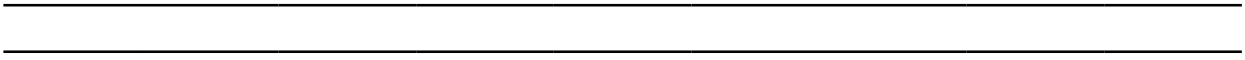






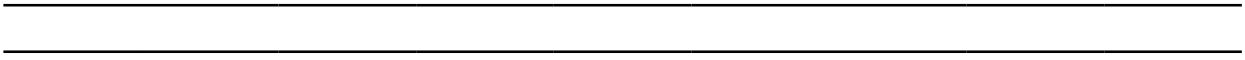






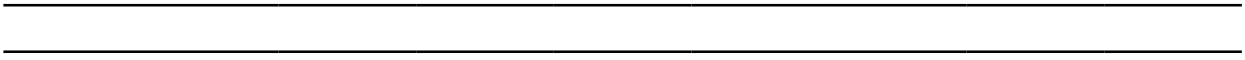






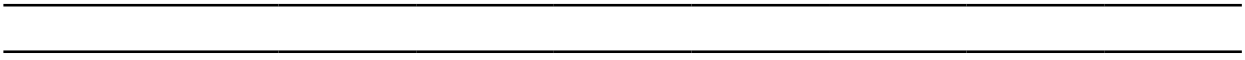






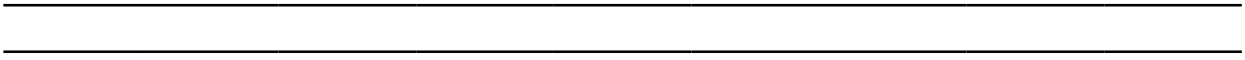






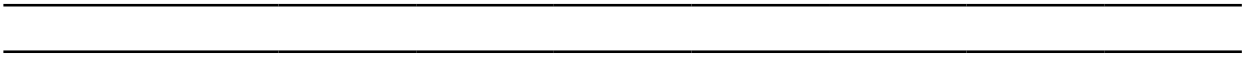




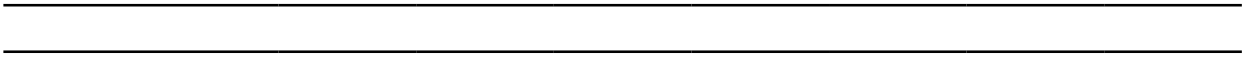






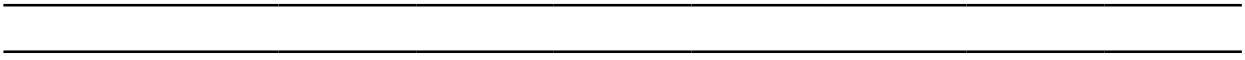






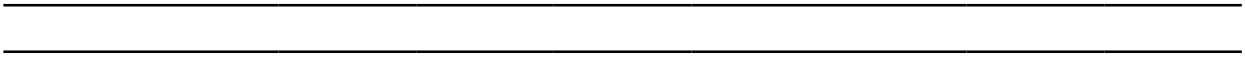




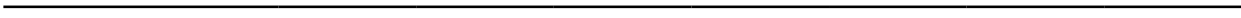


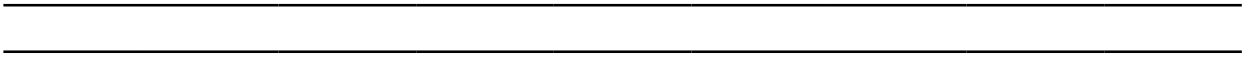






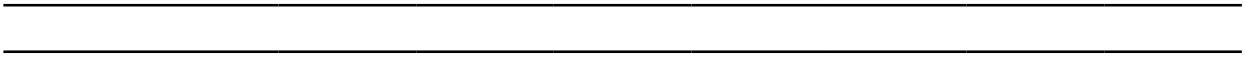






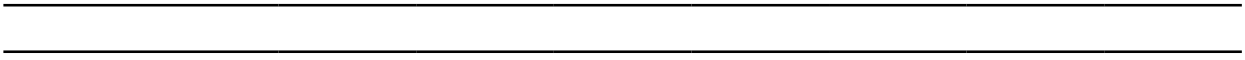






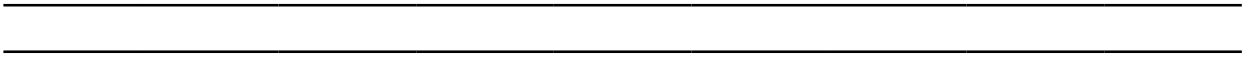






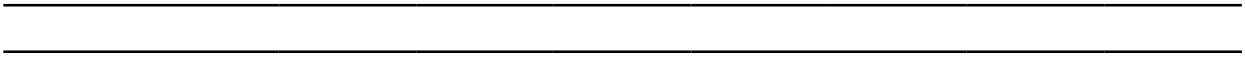






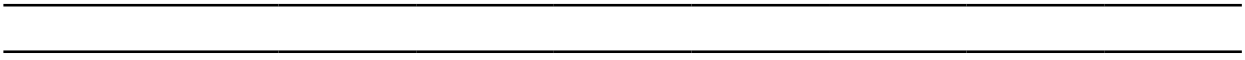






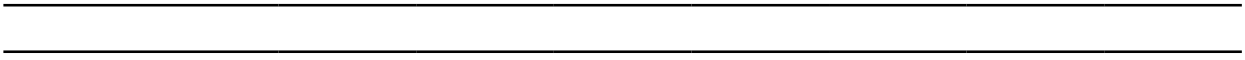






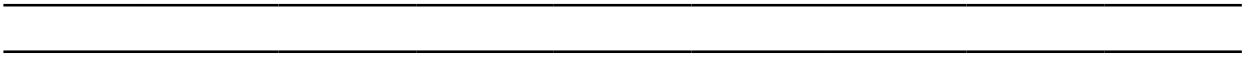






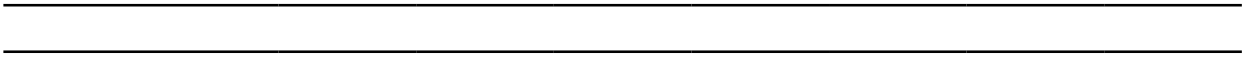




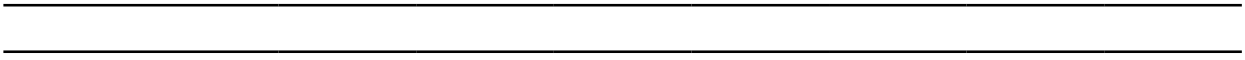






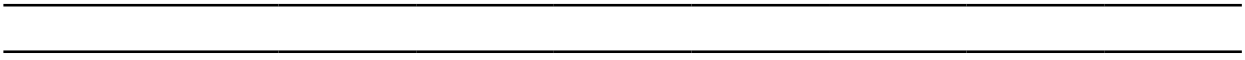






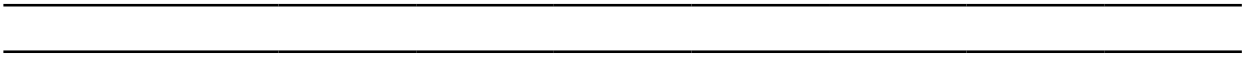




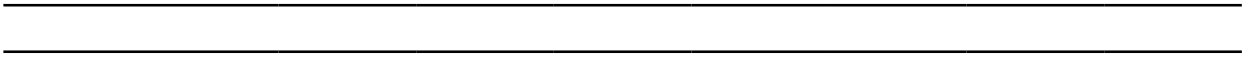














Project Implementation Plan

Shell Creek Corridor Enhancement and Conservation Implementation

56-17xx

Contract Reference Number:

Project Sponsor

Lower Platte North Natural Resources District
P.O. Box 126
511 Commercial Park Road
Wahoo, NE 68066
(402) 443-4676
Contact: Tom Mountford, (402) 443-4665. <tmountford@lpnrd.org>

Project Partners

Lower Platte North Natural Resources District. Coordinate the project and provide funding and technical assistance to install BMPs. Provide direction and assistance in developing watershed and project implementation plans. Contact: Tom Mountford, (402) 443-4665. tmountford@lpnrd.org

Shell Creek Watershed Improvement Group. Coordinate project promotion and recruitment of conservation participants. Provide assistance in developing watershed and project implementation plans. Contact: Matt Bailey. mattbailey@yahoo.com

USDA – Natural Resources Conservation Service. Provide funding and technical assistance for BMP installation through EQIP and other USDA programs. Contact: Melissa Foreman, (402) 564-0506. melissaforeman@hotmail.com

Nebraska Environmental Trust. Provide funding for installation of BMPs.

Nebraska Department of Environmental and Energy. Provide funding and technical assistance for BMP implementation and project management. Provide direction and assistance in developing watershed and project implementation plans.

Project Area

The project area includes five HUC-12 priority areas in the lower end of the watershed: Taylor Creek (102002010208), Brewery Hill-Shell Creek (102002010209), St. Paul’s Church (102002010101), Headwaters Loseke Creek (102002010102), and Schaad Creek (102002010103). The project area also includes a 3,000 feet corridor adjacent to the main stem of Shell Creek and its major tributaries.

Funding

Section 319 Funds:	\$365,000	Other Federal:	\$197,486
Non-federal Match:	\$244,000	Other Non-federal:	\$106,373

Project period

May 15, 2020 – June 30, 2022

Shell Creek Corridor Enhancement and Conservation Implementation

BACKGROUND

The Shell Creek watershed encompasses more than 304,000 acres in northeast Nebraska. The stream is a major tributary of the lower Platte River that influences the wellfields of Lincoln and Omaha. Three segments of Shell Creek are impaired for recreation and/or aquatic life uses due to E. coli concentrations or aquatic habitat disturbance.

The Shell Creek Watershed Improvement Group (SCWIG), a coalition of area farmers, formed in 1999 to address flooding and water quality issues in Shell Creek. With assistance from Nebraska Department of Environmental Quality (DEQ), Lower Platte North Natural Resources District (NRD) and USDA Natural Resources Service (NRCS), SCWIG developed and implemented the first watershed management plan for Shell Creek between 2005 and 2015.

Significant progress was made in getting effective management practices implemented on agricultural lands. For example, the use of conservation tillage applied to cropland increased from approximately 14% to 85% (67% No Till) over the life of the first management plan. Atrazine impairment of Aquatic Life Use was removed recently from Segment LP1-20700 in 2018 following implementation of the 2005 Shell Creek Watershed Management Plan. However, Atrazine management will remain a priority in this project to protect the recent delisting.

A new watershed plan, Shell Creek Environmental Enhancement Plan, developed and approved in 2015-2016, continues implementation of cropland BMPs to reduce erosion and Atrazine run off, but puts greater emphasis on reducing E. coli runoff and the impact of hydrologic alteration stream and riparian area on aquatic habitat. The plan also puts greater emphasis on protecting groundwater in wellhead protection areas from leaching of nitrate and other contaminants.

New efforts to protect surface waters will be concentrated in five priority sub-watersheds in the lower end of the watershed and within a 3,000 feet corridor along the main stem and tributary channels of Shell Creek. Efforts to protect community source water supplies (groundwater) will be concentrated in the delineated wellhead protection areas in the Shell Creek watershed.

GOALS AND OBJECTIVES

This project will advance the goals and objectives of the Shell Creek Watershed Environmental Enhancement Plan. For convenience, the goals and objectives of this project are cross-referenced to the management plan goals (G#), objectives (O#) and tasks (T#) in parentheses.

Goal 1: Efficiently and effectively implement actions to restore and protect natural resources from degradation and impairment (G1).

Objective 1: Maintain collaborative partnerships to advance management of natural resources (O2/T1,2,3).

Task 1: Continue SCWIG leadership in developing and promoting watershed management activities.

Task 2: Continue coordination of USDA, NRD and Section 319 programs in the watershed.

Task 3: Support the new USDA source water protection initiative in wellhead protection areas.

Objective 2: Actions will be strategically employed to restore and protect natural resources (O3/T2,3).

Task 1: Prioritize targeting of agricultural BMPs in five priority watersheds and the stream corridor.

Task 2: Prioritize targeting of stream BMPs in the Special Priority Areas for tributary stabilization and stream channel renovation.

Task 3: Install select BMPs approved for watershed-wide implementation.

Task 4. Install select BMPs for nutrient and irrigation management in wellhead protection areas.

Objective 3: Project Activities will be continually assessed and reported to appropriate audiences (O4/T2,3).

Task 1: Maintain a record of type, quantity and area of impact of BMP implemented.

Task 2: Maintain a record of stakeholder participation in project events and activities.

Task 3: Continue weekly Atrazine monitoring (May-June) at ambient monitoring site.

Task 4. Conduct weekly E. coli monitoring (May-September) at ambient monitoring site.

Task 5. Conduct weekly E. coli monitoring (May-September) at a new site near Schuyler.

Task 6: Re-evaluate stream and cropland conditions in the watershed.

Task 7: Submit semi-annual reports of accomplishments and activities to project partners.

Goal 2: Watershed stakeholders will understand water quality deficiencies in Shell Creek and support restoration and protection of water resources (G2).

Objective 1: Knowledge gaps that impede project participation by key stakeholders will be identified and addressed (O1/T2).

Task 1: Collect information on stakeholder knowledge about watershed conditions, water quality and management options through one-on-one contact and a mail-in survey.

Task 2: Develop and distribute a flier on guidance on accessing available conservation programs to support BMP implementation.

Task 3: Develop and distribute an educational brochure to enhance watershed stakeholders' understanding of stream hydrology and stream geo-morphology.

Task 4: Develop and distribute an educational brochure on the impact of soil health on water quality management.

Objective 2: Tools to effectively transfer knowledge and facilitate management of natural resources will be developed, improved and employed (O2/T1,2,3,4).

Task 1: Distribute an educational traveling display to promote understanding of watershed management issues.

Task 2: Promote project activities and BMPs through 1 meeting or field demonstration and releases through commercial and social media networks.

Task 3: Provide periodic training about BMPs, watershed dynamics and project management to SCWIG members at three monthly meetings.

Task 4: Improve volunteer monitoring and training opportunities for local school groups.

Task 5: Hire a part-time Producer Liaison to recruit and help producers enroll in BMP cost share programs.

Goal 3: The productivity and sustainability of water, land and biological resources of Shell Creek will be improved (G3).

Objective 1: Sub-watershed contributions of Atrazine and E.coli loads will be significantly reduced (O1/T1).

Task 1: Evaluate reduction of Atrazine and E.coli through monitoring at the Columbus gauging station and Schuyler monitoring site.

Task 2: Model pollutant load reductions from installed BMPs.

Objective 2: Sub-watershed contributions of sediment and nutrient run-off to streams will be significantly reduced (O1/T2).

Task 1: Evaluate reduction of sediment and nutrients through modeling of installed BMPs.

Objective 3: Stability of stream and land resources will be significantly improved (O2/T1,2,3,4,5).

Task 1: Evaluate reduction of stream erosion through site observation and modeling of installed BMPs.

Objective 4: The health and productivity of the flora and fauna community will be significantly improved (O3/T1,2).

Task 1: Evaluate re-establishment or increase in desirable flora and fauna in the stream and riparian zone at stream renovation sites through observation and volunteer monitoring.

PROJECT DESCRIPTION

This project initiates implementation of the 2017 Shell Creek Watershed Environmental Enhancement Plan. It incorporates both traditional cropland and pastureland treatment and near and in-stream treatments to abate contamination of the stream and its tributaries by Atrazine and E. coli, and to enhance habitat to improve aquatic life in the stream. The project is expected to reduce run-off of nitrogen, phosphorus and sediment as well, although those are not the primary focus of the practices to be implemented. Nutrient and irrigation management practices implemented in wellhead protection areas are expected to reduce leaching of nitrate to groundwater. A multi-modal approach to applying practices will be employed following the NRCS ACT model, which layers synergistic practices that avoid (A) exposure or application of contaminants, control (C) contaminants where they exit or are applied, and trap (T) contaminants in run-off to prevent their discharge into surface waters.

Operation and Administration

The Lower Platte North Natural Resources District will administer external grants and coordinate selection and implementation of conservation practices among available programs. The Shell Creek Watershed Improvement Group (SCWIG) will provide leadership in contacting producers and landowners and encouraging their participation in conservation programs and project activities. SCWIG

will play a key role in organizing watershed outreach activities and advising partner agencies on opportunities to work with interested stakeholders. NRCS and NDEE will administer EQIP and Section 319 programs, respectively, to support implementation of BMPs.

Agricultural Practices

The project will provide resources to address nonpoint source contamination from both crop and livestock production. NRCS will extend EQIP funding to the Shell Creek watershed through the general EQIP program **and through the Source Water Protection Initiative**. Participants in cost share programs for agricultural practices will be determined by a screening tool designed to target the most effective BMPs for E. coli and Atrazine management in priority sub-watersheds and the stream corridor **and for nutrient and irrigation management in wellhead protection areas**. The stream corridor extends 1,500 feet on both sides (total 3,000 feet) of Shell Creek and its tributaries. Priority practices are those noted by NRCS or other sources to be effective in avoiding, controlling or trapping E. coli or Atrazine.

Priority practices targeted for cropland include: crop rotation, integrated pest management, waste (manure) utilization, water and sediment control basins, wetland development and restoration, no till, field borders and buffers, riparian buffers and filter strips, grass waterways, and cover crops. Irrigation and nutrient management practices and well decommissioning are prioritized for Wellhead Protection Areas approved as Special Priority Areas in the watershed management plan. Eligible wellhead protection areas include Newman Grove, Lindsay, Platte Center, and Schuyler.

Supplemental practices, such as terraces and tile outlets, may be supported by program funds if they complement other priority practices that reduce E. coli and Atrazine runoff installed as part of the implementation contract. **Upland wildlife habitat may be supported where it may reduce the congregation of wildlife near streams, or intercepts and filters E. coli and Atrazine from runoff.**

A special complementary practice, Lands for Conservation, is designed to extend the construction season for installing structural practices. This practice provides a land rental payment to set aside the footprint of the construction area for structural practices. The land must be available for construction no later than August 1. It must have adequate pre-construction cover to prevent erosion and must be planted to a cover crop post construction. **A complementary practice, such as continuous no till, must be applied to the field where the structural practice is installed to qualify for Land for Conservation funding.**

This project will introduce and evaluate a new practice, Annual Cover Strip. This practice will be applied to drainage ways where permanent waterways may not be required. The practice consists of planting a temporary small grain cover such as wheat, rye or oats along the drainage way as an over-winter cover crop. This area may be farmed over during the cropping season. The practice also may be applied as a temporary buffer strip along stream channels. Continuous no till is required in the field where this practice is installed to be eligible for cost share.

Priority practices targeted for livestock operations include: exclusion fencing, managed grazing systems, relocation of feeding and loafing areas, composting, water diversion, water and sediment basin, wetland creation, and vegetative treatment systems. Supplemental practices include: pasture and hay planting, range planting, fencing, controlled access and controlled stream crossing. **Upland wildlife habitat may be supported where it may reduce the congregation of wildlife near streams, or intercepts and filters E. coli from runoff.**

Stream and Streambank Practices

Priority practices for streambed and streambank stabilization include: grade stabilization structures, channel vegetation, streambank and shoreline protection, channel stabilization, riparian buffers and filter strips, floodplain benches, meander and oxbow renovation and protection, wetland creation or enhancement, and aquatic habitat enhancement. When necessary, livestock exclusion practices also will be supported to protect treated areas. Preference will be given to applications that include suites of complementary practices and practices with greater longevity.

Streambed and streambank practices are prioritized for two Special Priority Areas identified in the management plan: the Tributary Stabilization Areas to control head cuts and the Stream Channel Renovation Areas to improve morphologic and hydrologic stability of Shell Creek. Streambank stabilization practices also will be used to protect public infrastructure within the stream corridor priority area.

Urban and Residential Practices

Urban and residential areas are broadly defined for this project as public, commercial, and private properties within municipalities as well as the residential and non-production facilities of rural properties. Practices targeted for these areas are intended to take advantage of opportunities to address a specific high profile local need or to provide opportunities to promote the project through demonstration. **Septic system up-grades will be allowed throughout the watershed**, but preference will be given to applications within the priority areas. Well decommissioning will be allowed throughout the watershed, but preference will be given to applications within wellhead protection areas. Urban BMPs, such as rain gardens and bio-swales will be targeted to properties within municipalities for demonstration and promotion of the watershed management plan.

Outreach

The Shell Creek project will be supported by an active outreach program to recruit participation in conservation efforts. Members of SCWIG and staff of partner agencies will work one-on-one and collectively with operators and landowners to assist them in enrolling in conservation programs and implementing BMPs. **Employment of a part time Producer Liaison will enhance this effort.** Information and education on nonpoint source pollution management will be disseminated through meetings, tours and demonstrations. Volunteer stream monitoring by area schools will be continued to engage students and the public in learning about and responding to water quality issues in Shell Creek.

Student Volunteer Monitoring Program

Students of Newman Grove High School have monitored six sites along Shell Creek since 2003. Samples are collected monthly from May through August and analyzed in the school laboratory as part of their science education program. This project will extend that program to additional schools, including Schuyler High School and Lakeview High School. More monitoring sites will be added and some existing sites will be relocated to provide more strategic isolation of tributaries and sub-watersheds. At least one site will be co-located with a site monitored by NDEE to provide calibration of the students' data. Students will collaborate in sharing data among the schools and will present the results of their monitoring efforts annually to SCWIG and to the NRD Board.

PRACTICES AND LOAD REDUCTIONS

The table below predicts the sediment, nitrogen, phosphorus and E. coli load reductions expected from implementing the priority BMPs for this project.

Practice	Area Controlled (ac)	<i>E. coli</i> (cfu/100ml)	Total Phosphorous (lb)	Total Nitrogen (lb)	Sediment (tons)
Streambank Stabilization ¹ (2)	140	455	1,510	873	1,820
1 Grade Control Structure (1)	120	78	---	---	1,560
Exclusion Fencing (12,000 LF)	600	1,950	3,237	1,872	3,900
Alternate Water Supply (2)	--	2	--	--	--
Livestock Waste Control Facility	---	13,000	22	13	26
Livestock Pen Relocation	---	32,500	54	31	65
Vegetative Treatment System (2)	2	13,000	53	25	52
Onsite Waste Water System (5)	--	3	13	7	0
Cover Crop	1,083	3,520	11,686	6,758	14,079
Buffer Strip	50	163	540	312	650
Grass Waterway	200	650	2,158	1,248	2,600
Annual Cover Strip ²	750	2,438	8,093	4,680	9,750
Lands for Conservation ³	100	325	1,079	624	1,300
No Till ⁴	250	813	2,698	1,560	3,250
Terrace and Tile Outlet ⁵	1,000	3,250	10,790	6,240	13,000
Total		72,147	41,933	24,243	52,052

¹The streambank stabilization sites include bio-engineering methods to capture and reduce Atrazine and E. coli. It also includes installation of a buffer strip above the stabilization site.

²An annual cover crop of small grains planted along a drainage way or along a stream bank to intercept and infiltrate water and pollutants. Must include continuous no till.

³Lands for Conservation will be eligible for funding when paired with supporting practices such as no till and/or cover crop.

⁴No Till is an effective practice to reduce the mobilization of Atrazine and E.coli in run-off. However, it will not be funded in this project with Section 319 funds, but may be funded by other partners. Non-federal funds used for no Till will be eligible for match credit.

⁵Traditional terraces and grade control structures on agricultural will not be funded in this project with Section 319 funds, but may be funded by other partners. Practice must include continuous no till to be credited as match.

EVALUATION

Progress in implementing this project will be tracked through semi-annual reports and feedback questionnaires at public meetings and events. Students from local schools will continue annual presentations of their volunteer monitoring results to project partners and the public. NDEE and the NRD will continue monitoring the ambient site near Columbus and establish a secondary monitoring site downstream near Schuyler. These two sites will bracket the priority sub-watersheds (upstream and downstream) where the majority of BMPs will be installed to better evaluate the impact of the project. *E. coli* and Atrazine samples will be collected weekly at both sites in May through June and *E. coli* will be collected from both sites in July through September. NDEE will conduct a mid-term progress and financial review.

SCHEDULE

Activity	2020			2021				2022	
	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Complete project approval									
Let bids for construction projects									
Construct 2 streambank stabilization sites									
Design and Engineer Future Water Quality Structures									
Implement cropland BMPs									
Implement Livestock BMPs									
Construct tributary grade stabilizations									
Field demonstration and tours									
Student Volunteer Monitoring									
SCWIG meetings and training sessions									
Performance and financial reviews									
Project Reports									
Wrap-up Open House									
Project Final Report									

PROJECT BUDGET

Item	Section 319	EQIP	NET	NRD	County	Landowner	Total
Personnel	18,980	0	11,650	8,670	0	0	39,300
NRD Staff	0	0	0	7,500	0	0	7,500
Producer Liaison	12,480	0	8,320	0	0	0	20,800
Travel/meals/lodging	500	0	300	200	0	0	1,000
Mileage	6,000	0	3,030	970	0	0	10,000
Water Quality Structures (sub-total)	144,000	0	36,000	24,000	102,000	0	306,000
Project Management	0	0	0	0	6,000	0	6,000
Site Survey	0	0	1,200	800	8,000	0	10,000
Design and Permitting	0	0	6,000	4,000	40,000	0	50,000
Construction	144,000	0	28,800	19,200	48,000	0	240,000
BMPs (sub-total)	105,220	197,486	55,350	15,160	0	95,943	469,159
Exclusion Fencing	4,800	12,000	4,800	0	0	2,400	24,000
Alternate Water Supply	400	1,000	300	0	0	300	2,000
Livestock Waste Control Facility	7,500	25,000	5,000	0	0	12,500	50,000
Vegetative Treatment System	15,000	50,000	10,000	0	0	25,000	100,000
Livestock Pen Relocation	15,000	30,000	9,000	0	0	6,000	60,000
No-Till Conversion	2,250	7,500	1,500	0	0	3,750	15,000
Terraces ¹	0	25,000	7,500	5,000	0	12,500	50,000
Cover Crop	4,875	16,250	3,250	0	0	8,125	32,500
Buffer Strips	2,145	3,236	500	80	0	1,618	7,579
Grass Waterways	6,000	20,000	4,000	0	0	10,000	40,000
Annual Cover Strip ²	2,250	7,500	1,500	0	0	3,750	15,000
Septic System Upgrade	15,000	0	0	0	0	10,000	25,000
Lands for Conservation ³	30,000	0	8,000	10,080	0	0	48,080
Outreach (sub-total)	96,800	0	1,000	600	0	0	98,400
Information/Education	1,800	0	750	450	0	0	3,000
Watershed Evaluation/Plan Revision	80,000	0	0	0	0	0	80,000
Student Volunteer Monitoring Prog.	15,000	0	250	150	0	0	15,400
Total	\$365,000	\$197,486	\$104,000	\$48,430	\$102,000	\$95,943	\$912,859

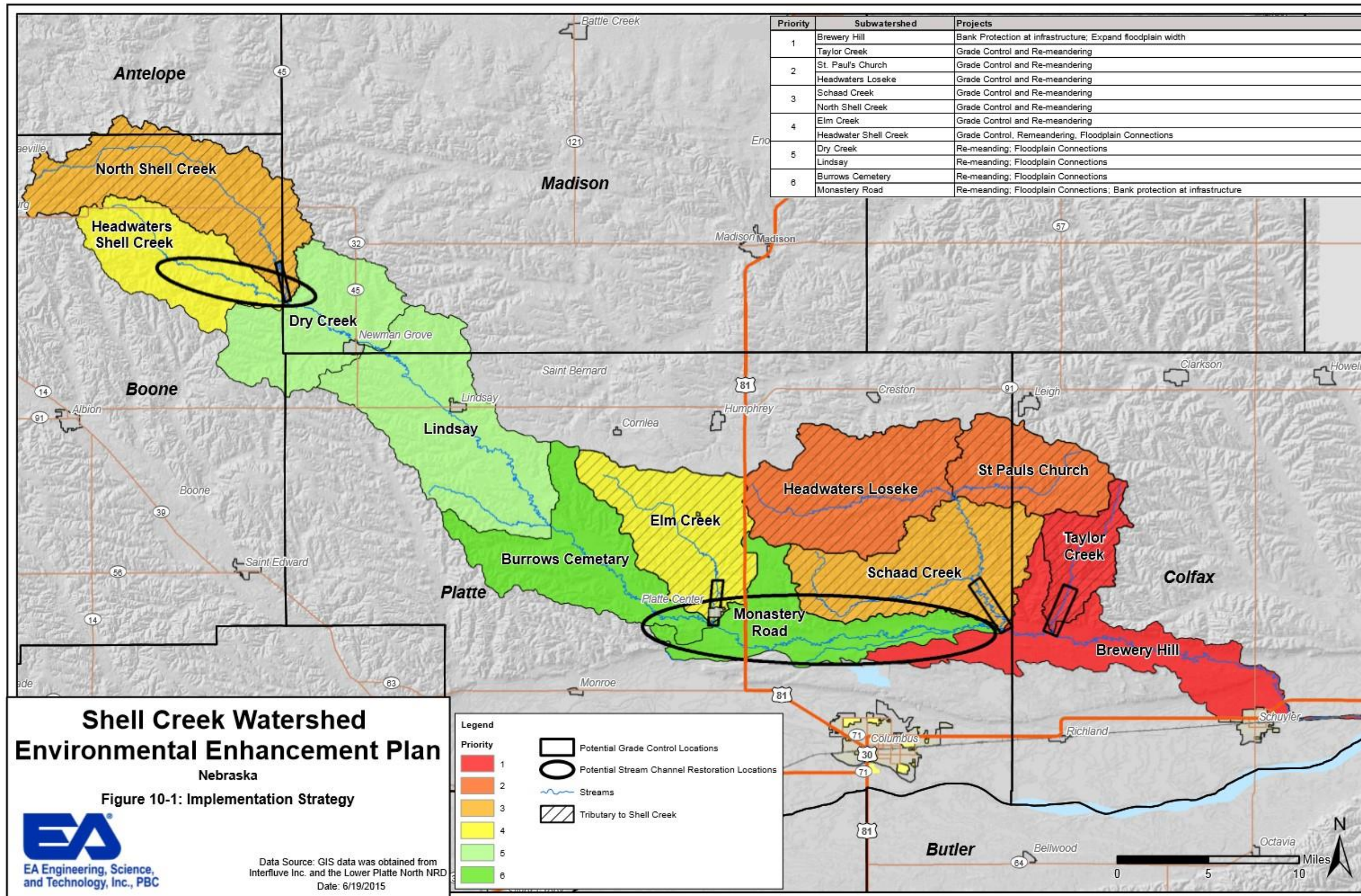
Budget Narrative

Personnel includes salaries and benefits associated with staff time for coordination and administration of the project. Materials and supplies includes costs for offices products, printing, publishing and mailing fees, meeting and demonstration supplies, supplies and materials for monitoring, and similar needs. Travel includes costs associated with attending meetings, conferences, field days and producer assistance associated with conducting and promoting the project. Costs for the student volunteer monitoring program include field and laboratory supplies; instruments and equipment; transportation costs and teacher stipends. All other budget items are contractual costs associated with installing practices and implementing activities of the project.

¹Traditional terraces on ag land are generally excluded from Section 319 funding, but may be supported or credited as match provided other secondary treatments (e.g., continuous no till, pest management) reducing E. coli or Atrazine loads also are implemented on the land treated.

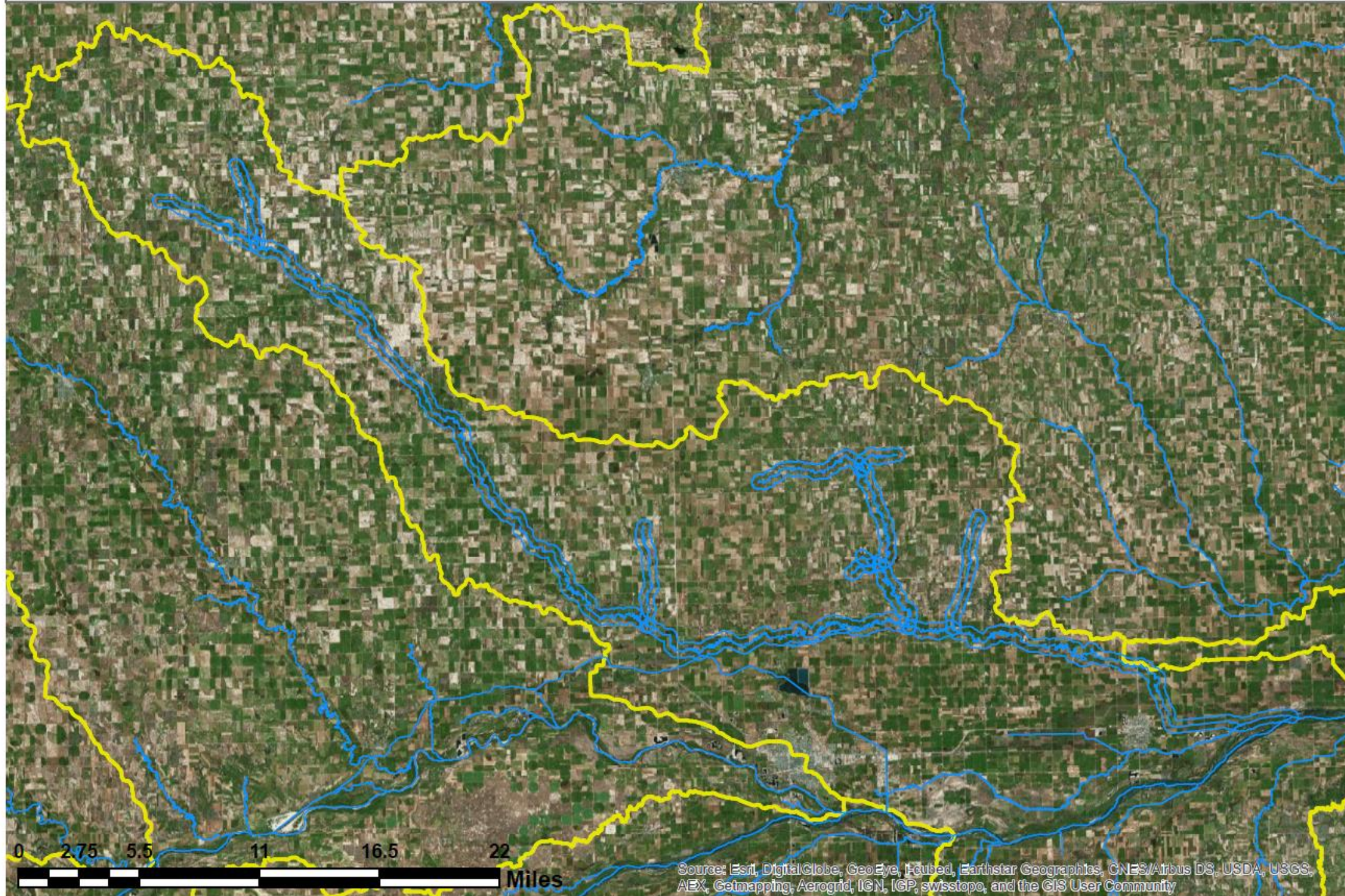
²Annual cover strip practice is a practice of planting a cover crop into drainage areas that otherwise might be a grassed waterway. The field must be in continuous no till to be eligible for this practice.

³Lands for Conservation requires continuous no till to be practiced on lands receiving installation of a structural practice. The treatment area must have adequate pre-construction cover and be planted to a cover crop post construction.





Shell Creek and Tributaries Buffer



Project Implementation Plan Review Checklist

The attached checklist is intended for EPA's use in providing consistency in the evaluation of PIPs. This checklist can also be used by states in their RFP/RFA, PIP sub-grant processes, and templates. The checklist was completed in March, 2013, as a result of EPA and state collaboration on kaizen process improvement. Checklist items link to the requirements of federal grant regulations, section 319 program guidelines, the environmental results order, and grants policy issuance.

The checklist may be revised as lessons are learned after EPA applies it to PIP reviews. A revised process chart and examples or excerpts of PIPs that meet required items will be developed to accompany the checklist.

“Standard Requirements” in the checklist include items applicable to all PIPs. “Additional Requirements for the use of Watershed Project Funds” include items applicable to PIPs that are slated for watershed project funds (known as incremental funds prior to FY 2014). Many of the checklist items for watershed project funds can be fulfilled through reference in the PIP to the current Watershed-based Plan (WBP). A pre-existing WBP should be reevaluated for necessary updates or revisions to the WBP according to a milestone/schedule in the WBP itself or according to the state's workplan. Generally, WBPs may need to be updated on a 5 year basis as appropriate and updates may include monitoring data, new TMDLs, and progress on milestones.

Project Implementation Plan Review Checklist

Project Title Shell Creek Corridor Enhancement and Conservation Implementation
State Nebraska
Grant Appropriation Year 2018
Project Number (EPA/GRTS) 6
Grant Number 007403267

Project Start Date May 15, 2020
Project End Date June 30, 2022

319 Program Funds _____
319 Project Funds \$365,000

Technical Advisor's Determination:

Accept with comments _____

(choose one: Accept, Accept with Comments, Needs Revision)

Technical Advisor Name (typed):

Kimberly Hill

Kimberly J. Hill

Technical Advisor Signature

June 10, 2020

Date (typed)

General Comments:

NDEE should coordinate with their wetlands coordinator to ensure the streambank component does not alter the flow of the stream or require a 404 permit.

√ = complete; I = incomplete; N/A = not applicable

Standard Requirements

- √ 1 The state identifies via transmittal letter or email, the priorities, goals, objectives, or milestones from the state's Nonpoint Source Management Program (NPSMP) that are relevant to the PIP under review.
This project will further the goals of our state program by implementing a water quality management plan to restore a water resource, reduce pollutant loads and strengthen partnerships.

- √ 2 The state identifies the grant fiscal year(s) of PIP funding.
2018

Clean Water Act Section 319 Program

- √ 3 Project start and end dates are within the state awarded grant period.
[Yes, start date is May 15, 2020 through June 30, 2022.](#)
-
- √ 4 If the PIP is implementing a subsequent phase of an ongoing project, the current status and any accomplishments of the previous project phase(s) are briefly summarized in the PIP.
[This information is included in the background.](#)
- √ 5 The PIP identifies the geographical extent of the project.
[Information included.](#)
- N/A 6 Projects whose major purpose is Information and Education clearly identify the target audience and the mechanism for evaluating the effectiveness of the activity.
[N/A](#)
- √ 7 Goals, outputs, outcomes, and measures of success are identified in the PIP.
http://www.epa.gov/region7/grants_funding/pdf/grant_work_plan_requirements_and_checklist.pdf :
- **Results of Activities (Outputs)** – the project identifies the anticipated products/results from the accomplishment of work plan activities.
 - **Projected Environmental Improvement (Outcome)** – information regarding the environmental improvement that is anticipated at the completion of the program/project. Environmental improvements are changes or benefits to the environment that are a result from the accomplishment of work plan commitments and outputs.
 - **Established Baseline for Measurement** – the PIP provides a baseline for measuring the results of the project and discusses how this baseline will be used to determine whether the project resulted in environmental improvement (i.e., current condition, new condition).
- [Goals are listed on pages 1-3. Very good job!](#)
- √ 8 The PIP includes a detailed implementation schedule and milestones.
[A schedule is included on page 7.](#)
- √ 9 The budget clearly breaks out each source of funds: Section 319 and match, other EPA, other federal, state funds, state in-kind, local funds, local in-kind, landowner contributions, and other funds.
[Budget is provided on page 8.](#)

Clean Water Act Section 319 Program

- √ 10 The PIP includes a budget narrative. The narrative should describe the purpose and types of any travel, explain and justify any equipment (cost per unit \$5,000 or more), and describe any contracts, including the scope of work or services to be provided.

An acceptable budget narrative is provided on page 9.

- √ 11 PIP budget costs are necessary, eligible, reasonable, and allocable.

Yes.

Additional Requirements for the use of Watershed Project Funding

- √ 12 The PIP contains a reference to the appropriate WBP, its date(s) of completion, revision or updates, and describes what components or phases of the WBP are being implemented by the PIP.

Information included.

- √ 13 The PIP identifies its HUC-12(s) and smaller subwatersheds where implementation will occur.

Information included.

- √ 14 A PIP designed to protect unimpaired waters is based on either a WBP containing the nine elements, or an accepted alternative plan to guide project implementation. The PIP, implementing a WBP or an accepted alternative plan to protect unimpaired surface and/or ground water, directly addresses priorities for protection of water quality outlined in the state NPS Management Program. Surface waters addressed in the protection-based PIP are assessed and included in the State Integrated Report.

Information included.

- √ 15 The PIP identifies types of BMPs to be implemented, quantities, Section 319 cost per type, total cost per type, and the critical areas for implementation.

This information is included. Great job!!

- √ 16 The PIP includes estimated load reductions per each type of applicable BMP.

Load reductions are provided by BMP type. Excellent!!

- √ 17 If water quality monitoring is done by the project, the monitoring objectives, costs, time frames, and water quality parameters are clearly identified in the PIP.

Clean Water Act Section 319 Program

A volunteer project involving the school district. Innovative!!!

Progress Report for Wahoo Creek Watershed Dams Sites



Lower Platte North NRD

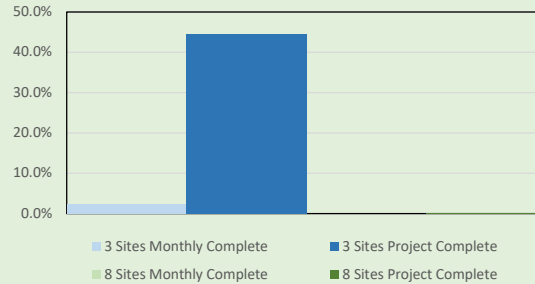
For Work Completed During The Month Of : **June, 2020**
(through 7/1/2020)

Project # 018-3423 Dam Site 26A, 26B, &27 Project Phase	Phase Budget	Billings for Month		Project Total Billings to Date	
		Current Earned/Billings	% Completed This Month	JTD Earned/Billings	% Completed Overall
010 - Project Management/Meetings	\$ 21,840	\$ 170.94	0.8%	\$ 6,654.79	30.5%
020 - Geotechnical Engineering	\$ 222,485	\$ 14,039.29	6.3%	\$ 190,140.89	85.5%
030 - Dam Design	\$ 173,160		0.0%	\$ 44,845.67	25.9%
040 - Permitting	\$ 79,960	\$ 47.82	0.1%	\$ 6,539.48	8.2%
050 - Survey and Legal Descriptions	\$ 10,780		0.0%	\$ 11,360.33	105.4%
060 - Community/Public Participation	\$ -			\$ -	
070 - Construction Services	\$ 75,600			\$ -	
				\$ -	
3 Sites Totals	\$ 583,825	\$ 14,258.05	2.4%	\$ 259,541.16	44.5%

Project # A18-3423 (separate invoice) Sites 55, 66, 77, 82, 83, 84, 85, &86 Project Phase	Phase Totals	Billings for Month		Project Total Billings to Date	
		Current Earned/Billings	% Completed This Month	JTD Earned/Billings	% Completed Overall
100 - Project Management/Meetings	\$ 62,400		0.0%	\$ -	0.0%
110 - Geotechnical Engineering	\$ 607,460		0.0%	\$ -	0.0%
120 - Dam Design	\$ 436,278		0.0%	\$ -	0.0%
130 - Permitting	\$ 251,140		0.0%	\$ -	0.0%
140 - Survey and Legal Descriptions	\$ 28,875		0.0%	\$ -	0.0%
150 - Community/Public Participation	\$ 30,000		0.0%	\$ 429.02	1.4%
160 - Other	\$ -			\$ -	
8 Sites Totals	\$ 1,416,153	\$ -	0.0%	\$ 429.02	0.0%

Billings For Month	\$ 14,258.05
Total Billings To Date	\$ 259,970.18
Project Budget	\$ 1,999,978
Budget Remaining	\$ 1,740,007.82

% Budget Spent Per Site



* As suggested by the NRCS at the 3-11-19 LPNNRD board meeting, design will be slowed down for a few weeks while the watershed plan is being completed. We will continue with the geotechnical analysis

Summary Of Work Completed This Month	
<u>Sites 26A, 26B, & 27</u>	<u>Eight Sites</u>
	- No work on these sites
	-
Over the previous month we have completed the first drafts of the reports for dams #26A, #26B, and #27 and are working through peer review and quality control. Each dam has similar recommendations for staged construction and selective fill but differ on seepage recommendations. Our reports detail the potential for uplift failures and remedial measures. We also prepared and presented a slide show of our progress to the LPNNRD board.	

Planned Work For Next Month

For questions regarding billings, please contact Mike Placke at (402) 458-5957 or mplacke@olsson.com

Invoice



601 P St Suite 200
PO Box 84608
Lincoln, NE 68501-4608
Tel 402.474.6311, Fax 402.474.5063

July 22, 2020
Invoice No: 362579

Tom Mountford
Assistant Manager
Lower Platte North NRD
PO Box 126
Wahoo, NE 68066-0126

Invoice Total \$14,258.05

Olsson Project # 018-3423 Lower Platte North NRD Wahoo Creek Watershed & 11 Dam Sites
Professional services rendered June 14, 2020 through July 11, 2020 for work completed in accordance with agreement.

Phase 010 Sites 26A 26B & 27 Project Management

Labor

	Hours	Amount	
Senior Engineer	1.00	170.94	
Totals	1.00	170.94	
Total Labor			170.94
		Total this Phase	\$170.94

Phase 020 Geotechnical Engineering

Labor

	Hours	Amount	
Industry Expert	1.25	289.23	
Team Leader	16.50	3,459.45	
Project Engineer	61.50	6,977.79	
Associate Engineer	28.00	2,865.52	
Student Technician - Level 1	10.00	447.30	
Totals	117.25	14,039.29	
Total Labor			14,039.29
		Total this Phase	\$14,039.29

Phase 040 Permitting

Labor

	Hours	Amount	
Student Technician - Level 1	1.00	47.82	
Totals	1.00	47.82	
Total Labor			47.82
		Total this Phase	\$47.82

Billing Limits

	Current	Prior	To-Date
Total Billings	14,258.05	246,873.41	261,131.46
Limit			583,825.00
Balance Remaining			322,693.54

AMOUNT DUE THIS INVOICE \$14,258.05

Outstanding Invoices

Number	Date	Balance
358319	5/26/2020	19,185.48
360106	6/24/2020	12,706.55
Total		31,892.03

Email invoice to tmountford@lpnnrd.org

Authorized By: Michael Placke

**Joint Water Management Advisory Board
Meeting Minutes, August 4, 2020 - 9:00 A.M.
Fremont Municipal Building, City Council Chambers,
400 East Military, Fremont Nebraska**

1. **Meeting called to order.** A meeting of the Joint Water Management Advisory Board (JWMAB) was called to order by Bob Missel. It was noted that a copy of the Open Meetings Act is posted continually for public inspection near the entrance door and a notice of the meeting was printed in the Fremont Tribune.
2. **Roll call.** Authorized representatives and guests attending in person and by Zoom were asked to identify themselves and are shown on the attached attendance sheet. A quorum was established by only those attending in person.
3. **Approval of the May 19, 2020 meeting minutes.** A motion was made by Ruzicka and seconded by Nielsen to approve the meeting minutes as submitted. Ayes: City of Fremont: Jacobus and Jensen; Ames Dike: Hansen; SID #5: Wagner and Vlach; SID #7: Vlach; Lower Platte North Natural Resource District (LPNNRD): Ruzicka, Saeger, and Pollard; Dodge County: Missel; Inglewood: Nielsen; and North Bend Drainage: Ruzicka and Taylor. Nays: none. Motion carried 8-0.
4. **Grant Updates.**
 - a. **Elkhorn Township Drainage Study.** Smith reported that Dodge County received notice from Nebraska Emergency Management Agency (NEMA) that they will be forwarding the Advance Assistance Grant application to the Federal Emergency Management Agency (FEMA) for comments and approval. Smith has been working with Haggerty (State consultant) on a final review of the application.
 - b. **Platte River Cameras and Sensors.** Mountford and Smith reported that all of the interlocal agreements are in place and the equipment will be installed in several phases. The first phase consists of 5 cameras. Once the Local Hazard Mitigation Plan has been approved, the grant application can be submitted for approval.
 - c. **Platte River Breach (Rod & Gun Club).** Miyoshi, Mountford, and Smith reported that the Community Development Block Grant (CDBG) funds have been approved and all of the interlocal agreements for the local match are in place. SID#3, Ventura will begin dredging this month and will continue through December. They also received the Army Corps of Engineers permit for the project.
 - d. **North Bend Drainage District.** Ruzicka said the District submitted a Notice of Interest for Hazard Mitigation Grant Program (HMGP) funds of \$1.7 million to make improvements to the North Bend Drainage ditch to mitigate future flooding events. The local match of the grant would be 25% or \$425,000. Tom Smith reported he is working on the grant application. The application must be sent to NEMA by August 28 for a final submission to FEMA on September 17. Requests for Proposals were solicited from engineering firms and proposals from two firms were reviewed by a committee of the Board. The committee recommended the proposal from FYRA be accepted. Newton passed out a draft Letter of Commitment that Dodge County, Lower Platte North NRD, City of North Bend, North Bend Drainage District, and City

of Fremont will be required to have approved by their respective governing bodies for the final grant submission. Newton also discussed a draft interlocal agreement that proposes to split the local match as follows: Dodge County, Lower Platte North NRD, City of North Bend, and City of Fremont - \$100,000 each; and North Bend Drainage District - \$25,000. Newton pointed out the Letter of Commitment and Interlocal Agreement are required by the grant application. He noted that CDBG funds will be pursued to cover the 25% local match, but if the CDBG funds are not secured, the participants listed above will be required to fund the local match.

A motion was made by Jensen and seconded by Frank to accept the recommendation of the committee to award the engineering of the North Bend Drainage ditch improvements to FYRA, and recommend the local match be split as follows: Dodge County, Lower Platte North NRD, City of North Bend, and City of Fremont - \$100,000 each; and North Bend Drainage District - \$25,000. The motion carried 8-0 by roll call vote.

e. Joint Water Management Advisory Board Resiliency Plan.

i. Hazard Mitigation Grant Program. Lottie Mitchell reported that the grant was not prioritized for HMGP funds.

ii. EDA FY2019 Disaster Supplemental Funding. Mitchell reported that the U.S. Economic Development Administration (EDA) indicated that all of their 2019 grant funds have been obligated.

iii. Water Sustainability Fund. Lalit Jha, JEO reported that an application was submitted on July 15 for a watershed & flood prevention operations (WFPO) grant from the National Resources Conservation Service (NRCS). He said we might hear something about the application in mid-September.

f. Ames Dike. Grant Hanson reported the project funded by CDBG funds was nearing completion, but several minor items remain. He praised the assistance he received from Northeast Nebraska Economic Development District.

g. Community Development Block Grant, Disaster Recovery Funds. Susan Nickerson, Jenny Mason, and Steve Charleston with the Nebraska Department of Economic Development (NDED) explained NDED's role with CDBG funds and a possible opportunity to apply for planning grant.

5. Other grants. Smith reported that Dodge County is working with 9 applicants that are interested in potentially using grants funds to help elevate their home out of the floodplain. Jha reported that FEMA just released information about Building Resilient Infrastructure and Communities (BRIC) grant funds for flood mitigation and planning. He will email the information out to everyone.

6. Member Updates. Vlach reported that FEMA denied SID #5's (Timberwood) request for permanent repairs, despite the fact that emergency repairs had already been approved.

7. Public Comments. none

8. Adjournment. A motion was made by Vlach and seconded by Nielsen to adjourn the meeting at 10:05 am. By roll call vote, the motion was approved 8-0.

JOINT WATER MANAGEMENT ADVISORY BOARD ATTENDEES 8/4/20

BOB MASSEL - DODGE CO.

BRIAN NEWTON - FREMONT

MARK JENSEN - FREMONT

SUSAN JACOBUS - FREMONT

Grant Hansen - Ames Dike

RANDY WAGNER - LAKE VENTURA

John Lynn North Bend Drainage District

Gene Ruychka Lower Platte North NRD

Larry Ruychka North Bend Drainage Dist.

Tom Mountford Lower Platte North NRD

John Miyoshi Fremont Rod & Gun Club

FRANK TOLLAND LPN NRD Director

Kon Vluch Timberwoods SID

Albert Nielsen Inglewood

Zoom ATTENDEES

SCOTT BETSCHMAN - Mayor, FREMONT

LUCY JNA - JEO

DAN FRICKE - JEO

JERESA BUSSE - NORTH BEND

RUSS PETERSON - VENTURA

JEAN MASON - NODD

SUSAN NICKERSON - NODD

STEVE CHARLSTON - NODD

TO BE COMPLETED BY NEMA HM STAFF	
Eligible activity under FEMA HMGP	Choose an item.
If no, is it potentially eligible under PA?	Choose an item.
If ineligible, please provide a brief explanation:	Click or tap here to enter text.
Local Hazard Mitigation Plan Verification	Choose an item.
NEMA Point of Contact assigned to project	Choose an item.
Date NOI received:	Click or tap to enter a date.

State of Nebraska Notice of Interest (NOI) Form FEMA Hazard Mitigation Assistance

This Notice of Interest (NOI) form gathers information required to apply for FEMA Hazard Mitigation Grant Program (HMGP) funds through the Nebraska Emergency Management Agency (NEMA). The HMGP provides funds following a presidentially declared disaster to enable communities to implement *critical mitigation actions*. HMGP funds may be used to fund 75 percent of eligible project costs and require at least 25 percent local match.

This Notice of Interest form must be completed and returned to NEMA in order to be considered for an invitation to complete a full grant application. Applicants must have a FEMA approved **Local Hazard Mitigation Plan (LHMP)**. The proposed mitigation project must be consistent with the LHMP and an eligible activity consistent with [FEMA's Hazard Mitigation Assistance Guidance \(2015\)](#) in order to be considered for a project award. Please contact the NEMA Hazard Mitigation team to discuss program eligibility and requirements: nema.hazardmitigation@nebraska.gov. Return this form to nema.hazardmitigation@nebraska.gov.

Part 1: Applicant Information

1. Applicant Name: **North Bend Drainage District**
2. Type of Jurisdiction: **Special District Government**
3. What is the jurisdiction's current population size? **Approximately 60 miles of drainage ditches, includes ditches that protect City of North Bend and City of Fremont.**
 4. Primary Point of Contact Information: **Larry Ruzicka**
 - a. Name: **Larry Ruzicka**
 - b. Title: **President**
 - c. Agency/Organization: **North Bend Drainage District**
 - d. Mailing Address: **1856 County Road 7, North Bend NE 68649**
 - e. Email Address: **lruzicka23@hotmail.com**
 - f. Phone Number: **402-720-8828**
5. Does the jurisdiction participate in the National Flood Insurance Program (NFIP)? **No**
6. If yes, what is the jurisdiction's NFIP number (CID)? **Click or tap here to enter text.**

Part 2: Local Hazard Mitigation Plan Information

1. What plan does the jurisdiction participate in? **Lower Platte NRD Other**
2. What is the jurisdiction's Local Hazard Mitigation Plan Expiration Date? **May 2020**
3. Where in the Local Hazard Mitigation Plan is the objective of this project located? Please provide the specific reference. **Goal 2, Objective 2.2**

Part 3: Project Information

1. What type of **mitigation activity** does this project propose? **Stormwater System and Drainage Improvements** **Choose an item.**

If other, please describe: **Click or tap here to enter text.**

2. **Project location.** *If available, please include a map of the proposed project area with the NOI submission.*
 - a. Latitude and Longitude: **Start 41.453926, -96.840533, End 44.499292, -96896156**
 - b. Street Address: **North Bend Cutoff Ditch**
 - c. Is the project located in the 100-year flood plain? **Yes Start 41.453926, -96.840533, END 41.485034, -96.880164**

If unknown, use the FEMA Map Center to locate the project area: <https://msc.fema.gov/portal/home>

3. Project Description

- a. Please provide a general description of the project scope of work:
Stabilize and Raise elevation of east (high) bank along North Bend Cutoff Ditch, improving ditch capacity to channel water back towards the Platte River.
- b. What structures, critical facilities, or critical infrastructure will this project mitigate/protect:
Drainage Ditches, City of North Bend and surrounding nearby developments, county roads, state highways 30 and 79, streets and city sewer and well-heads.
- c. DR-4420 specific: Were these structures damaged in the disaster incident between March to July 2019?
Yes, scope of work includes segments of the bank from County R to Platte River
If YES, is the community receiving **Public Assistance and/or 406 mitigation** funding for these facilities?
Yes, for the portions impacted scope of work includes shoring up banks, ditch cleaning, does not include elevation of bank.
- d. Provide a brief narrative of damages from past events to structures/facilities and/or infrastructure which will be mitigated by this project:
The flooding and structural damage will be mitigated
➤ Are these damages documented, if yes, how?:

Recently with FEMA Disaster DR4420 Drainage District is a PA Applicant.

Did the critical facility or infrastructure experience loss of function during the 2019 event and/or past events? Provide a brief summary on impacts to services to the community, customers, and/or users. **The North Bend Cutoff Ditch serves as the channel to capture storm water and flood waters from the Platte River and Shell Creek diverting flood water back into the Platte River before entering the City of North Bend and impacting state highways 79. In March 2019, a portion of the ditch bank breached allowing flood waters to inundate the City of North Bend, County Roads, State Highways 30 & 79, and rail line. The City of North Bend was evacuated and disrupted for several weeks.**

Click or tap here to enter text.

- e. What is the anticipated level of protection after mitigation?

Moderate to High

- f. What, if any, studies have been conducted in the project area (hydraulic & hydrologic, FEMA Flood Insurance Study, drainage reports, planning or feasibility studies, etc.)

Unknown, North Bend Drainage District is part of the Dodge County Joint Water Management Board that has submitted an NOI for Study and Plan for Flood Resiliency but has been denied in July and December 2019.

4. Cost Estimate

- a. Total Project Cost: **1.7 Million Dollars**
- b. As mentioned above, HMGP requires a 25 percent local match. Please list possible local match sources:
City of North Bend, Lower Platte NRD, Dodge County, North Bend Drainage District

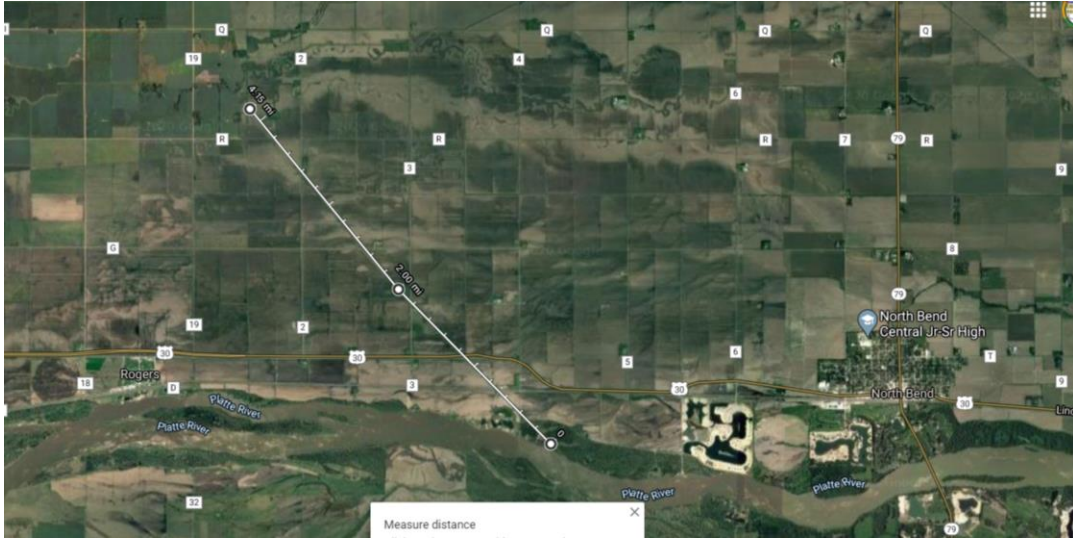


Figure 1: North Bend Cutoff Ditch



in partnership with

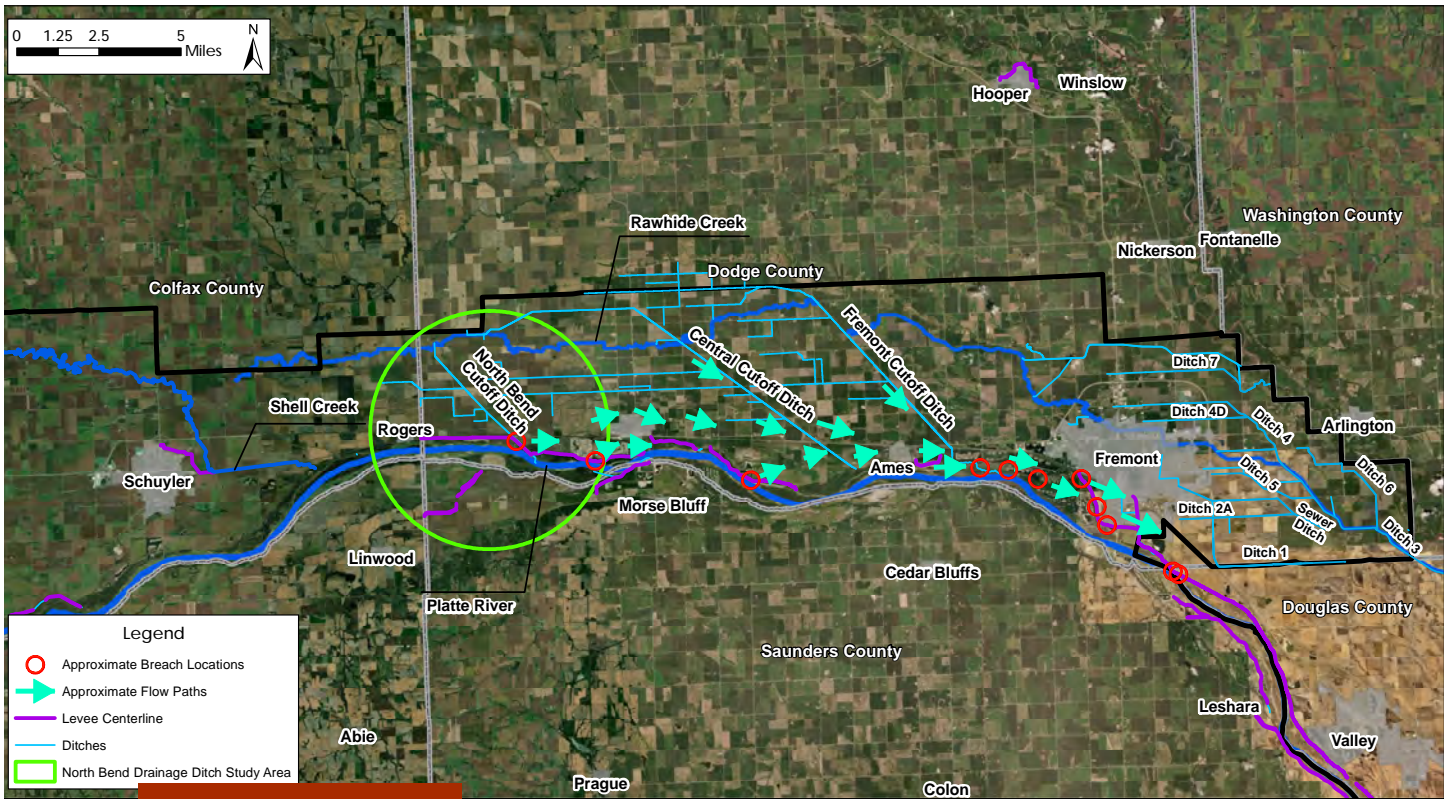


PROPOSAL FOR

CONSULTING SERVICES IN REGARDS TO A HAZARD MITIGATION GRANT PROGRAM (HMGP) APPLICATION

North Bend Drainage District

July 7, 2020



JEO CONSULTING GROUP, INC.



Contacts

Kevin Kruse, PE
 Project Manager
 p: 402.450.3598
 e: kkruse@jeo.com

Lalit Jha, PE, D.WRE, CFM
 Project Principal
 p: 402.443.8010
 e: ljha@jeo.com



2700 Fletcher Avenue
 Lincoln, Nebraska 68504
 p: 402.435.3080
 f: 402.435.4110



July 7, 2020

City of Fremont
Attn: Brian Newton, City Administrator
400 East Military Avenue
Fremont, Nebraska 68025

RE: Proposal for Consulting Services in Regards to a Hazard Mitigation Grant Program (HMGP)
Application for North Bend Drainage District

Dear Selection Committee Members:

Efforts to recover from the March 2019 flood and to make the Dodge County Area more flood resilient are continuing with the Joint Water Management Advisory Board (JWMAB)'s effort to support North Bend Drainage District with ditch and bank measures that would mitigate the threat of future damages. NEMA/FEMA's request for a full Hazard Mitigation Grant Program (HMGP) application is encouraging and a big step forward to make this project a reality.

JEO Consulting Group, Inc. (JEO) was on site before the flood waters receded and helped eight communities in Dodge County respond, recover, and now we are ready to provide engineering services on flood mitigation projects. JEO has included Ideation, experts in FEMA's Benefit-Cost Tool, to support development of the HMGP application.

- **VESTED INTEREST:** Most of the damages in the Dodge County area have a hydrologic connection. JEO is working on over ten local drainage/flood control projects with JWMAB members in response to flood damages. Having access to aerial photography, hydrologic and hydraulic (H&H) models, survey, and repair concepts will save costs by not duplicating efforts.
- **FLOOD RESILIENCY AND RISK REDUCTION PROJECT IMPLEMENTATION:** The magnitude of the March 2019 floodwater showed the weak points along the river and the drainage system and clarified inadequacies in the upland drainage ditches and drains. Our team understands that actions at the west end of the planning area could either benefit or harm downstream communities and landowners. Our initial review of the hydrology during the flood has given us ideas on this holistic vision behind the plan.
- **FUNDING KNOWLEDGE:** Working with federal funding presents multiple obstacles and is always a challenge. JEO features Mary Baker, a FEMA funding specialist who has recently been coordinating with multiple small communities on flood repair and mitigation projects, as well as Terry Meier, a funding specialist with significant experience with the CDBG and Water Sustainability Fund programs. Furthermore, our design engineers are experienced with FEMA's BCA Toolkit, design specifications, and guidelines for several grant programs that will bring further cost savings regardless of the funding strategy.

I look forward to the opportunity to further discuss the details of our qualifications and JEO's willingness to continue work with the JWMAB.

Sincerely,

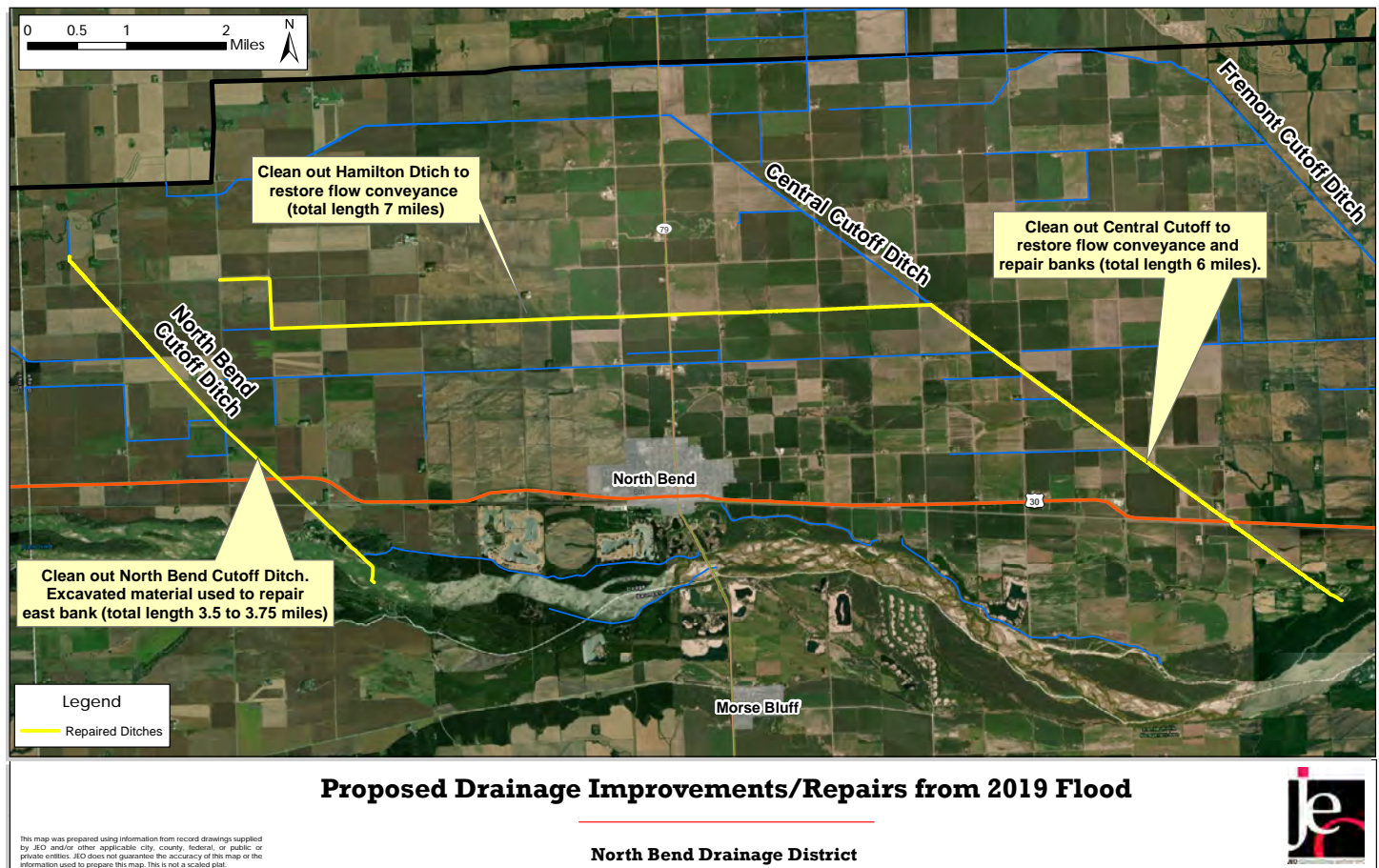
Kevin Kruse, PE
Project Manager

Lalit Jha, PE, D.WRE, CFM
Project Principal

PROJECT UNDERSTANDING AND APPROACH

PROJECT UNDERSTANDING

During the historic flooding in 2019, the Platte River near North Bend saw unprecedented flood levels. As flood levels in the river swelled, it overtopped banks upstream of North Bend as it continued to travel easterly. JEO, as part of our ongoing work with several communities in the Platte River Corridor, was highly involved in flood fighting actions during the flood event, as well as repairs to critical infrastructure following the flood. As part of this effort in working with communities directly impacted by the flood from Columbus to Fremont, JEO gained vital insight into the flood damages, as well as the intricacies of the various flood infrastructure.



The North Bend Cutoff Ditch was constructed to intercept local flows and re-direct them to the Platte River. To improve this system's ability to intercept and redirect floodwaters, the North Bend Drainage District (NBDD) has submitted a Notice of Intent (NOI) to the Nebraska Emergency Management Agency (NEMA) that documents their intent to apply for Hazard Mitigation Grant Program (HMGP) funds. The project proposed by the NBDD includes significant cleaning out of the existing ditch and building up of the east (downstream) bank to prevent flows from continuing east. After discussing this project with representatives from NEMA, the project has been selected to proceed with the development of a full grant application that will be submitted to NEMA/FEMA during the summer of 2020. The NBDD, with assistance from the Lower Platte North Natural Resources District (LPNNRD) and the Dodge County Emergency Manager, is currently developing the grant application and will be submitting to NEMA. Following the initial review of the HMGP grant application, a Request for Information (RFI) from NEMA is anticipated which will request supplemental information from NBDD further supporting the final application.

The HMGP administered by FEMA is a statewide, competitive program. The current funding allocation will be distributed among those projects deemed to be cost effective at mitigating risks, while providing sufficient benefits to warrant the cost. A successful grant application for this project must include the following information:

1. Detailed project description:

- Engineering background including issues/problems to be mitigated.
- Conceptual design of the proposed project with sufficient detail.
- Detailed project cost opinion including anticipated construction quantities, estimate of professional services, land acquisition costs, and long-term maintenance.

2. Detailed description of pre- and post-project conditions:

- How will the project reduce flood risk?
- How do the post-project flood conditions (flood depth, flow rate, etc) compare to the pre-project conditions?
- What are downstream impacts to the project?
- Detailed evaluation of benefits provided by the project, with benefits monetized for inclusion into the Benefit-Cost Analysis (BCA).

3. Description of alternate solutions evaluated.

4. Summary of damages that will be avoided with project implementation.

5. Environmental and historic preservation impacts:

- Coordination is necessary (during the grant application phase) with several state and federal agencies to confirm that environmental/historical permits are either not necessary or will be secured through the final design phase.

6. Anticipated property acquisition needs (if any).

7. Detailed BCA using FEMA:

- Monetized benefits over the life-span of the project must outweigh project costs.

8. Anticipated project schedule.

JEO has successfully assisted several communities with the development of HMGP applications and has a strong understanding of the process, as well as the requirements of the application. JEO understands the NBDD and JWMAB are currently developing the initial grant application with an anticipated submittal date in July 2020. Any other information necessary for the grant will be included in an RFI process and must be reviewed and approved by NEMA (state level) prior to the final grant application being forwarded to the reviewers at FEMA (federal level).



Since 2015, JEO has successfully assisted communities in securing \$4.3 million of federal funds through the Hazard Mitigation Grant Program for design and construction of vital flood risk reduction projects.

PROJECT APPROACH

Based on our team's solid experience in securing HMGP funding, we have developed the following phased project approach. The final approach and associated fee structure will be developed upon final review of the initial grant application (currently being developed by the NBDD and the JWMAB and the anticipated RFI from NEMA. Both the draft grant application and the RFI were not available for review at the time of development of this Request for Proposal.

PROJECT KICK-OFF MEETING

Due to the complexity of the project and the numerous moving parts, JEO anticipates facilitating a detailed project kick-off to review the grant application (developed by NBDD) and the project specifics. A comprehensive funding strategy that may include HMGP, CDBG, or other outside sources of funding will be discussed.

ADDITIONAL FUNDING STRATEGIES

JEO understands that in addition to the current request for FEMA funds through HMGP, additional funding sources may be necessary. Funding programs such as the CDBG, Water Sustainability Fund, and other sources may be utilized for the local share (25% of project total) if HMGP funds are allocated. If HMGP funds are not available, these funding programs could be pooled together to keep the project viable. The JEO team has direct experience working with communities to develop creative funding strategies to meet overall project goals.

PHASE 1 - GRANT APPLICATION DEVELOPMENT

Upon receipt of the initial grant application and pending RFI from NEMA, the JEO team will review outstanding items with the NBDD and representatives of the JWMAB to develop a scope of work, fee structure, and anticipated schedule to support the NBDD and JWMAB.

Based on JEO's recent experience with the HMGP funding applications, efforts to develop the necessary components for a complex project such as that proposed can take time and require significant back and forth with FEMA and its contractor assisting with the process. In order to fully develop a successful application and respond to eventual RFIs, it is likely that a comprehensive hydrologic and hydraulic model, as well as conceptual project design with detailed cost opinion may be necessary. If those elements are necessary, JEO will work with the NBDD/JWMAB to determine the best scope of work and associated fees required to address the RFIs. Identifying substantial benefits of the project will be key. Therefore, a focus at the outset will be to identify potential benefits to focus evaluations on the other side of the cost/benefit ratio equation.

HYDROLOGIC AND HYDRAULIC ANALYSIS

If hydrologic and hydraulic analysis is requested, JEO can develop a robust two-dimensional analysis to evaluate the overland flow scenarios and determine a holistic flood risk reduction improvement. JEO is also involved in other related discussions including hydrologic and hydraulic evaluations of this same area that are being considered for other grant opportunities. **If selected, JEO does anticipate reviewing the likelihood and potential schedules of all of the project opportunities to utilize a common model for development of comprehensive strategies for the Lower Platte Corridor, which would bring cost savings and consistency to JWMAB communities.**

BENEFIT-COST ANALYSIS

If a detailed BCA is requested, JEO will utilize the required FEMA BCA software v 6.0 to document and calculate the benefit-cost ratio. The documentation and monetization of both damages avoided by the project, as well as costs of the project will also be vital for a successful application. JEO understands the JWMAB and NBDD have already begun to gather and document damages as part of the initial grant application submission.

COORDINATION WITH ENVIRONMENTAL AND HISTORICAL PERMITTING AGENCIES

Coordination and consultation with the Nebraska Game and Parks Commission, U.S. Fish and Wildlife Service, Nebraska State Historical Society, the Nebraska Department of Transportation, among others is required for the application. If requested, JEO will initiate the discussion with the various agencies to verify that pre-application consultation was conducted.

PHASE 2 - DESIGN, PERMITTING, AND CONSTRUCTION (PENDING GRANT APPROVAL)

Pending authorization and the obligation of funds, JEO anticipates initiating the design and construction document development. It is anticipated that this phase will include construction drawings, plans, and specifications necessary to publicly bid the project. Plans will include all details and right-of-way/property acquisition needs and will be signed and sealed by a professional engineer licensed in the State of Nebraska. This phase will also include development of necessary permit applications (USACE, Local Floodplain, etc.).

Our team also includes specific expertise in providing construction administration support to manage the construction phase of the project, including site observation, construction engineering, pay application review, and approval and final coordination with NEMA/FEMA for project close-out.

PROPOSED TEAM

TEAM ORGANIZATION AND ABILITY TO COMPLETE PROJECT

We have set up our team for this project based on the expected scope of work. **Each of the team members listed below, in addition to others not listed, have worked on projects listed as experience in this proposal package and bring a depth of experience to serve you.**

JEO utilizes a company-wide system called Deltek to monitor project staffing resources on active and planned projects. Each project is entered into the system with timelines and anticipated hours assigned to each project team member. This data is updated on a regular basis to provide a real-time view of the availability each staff member. The proposed members of this team have the availability to complete your project within the proposed schedule.

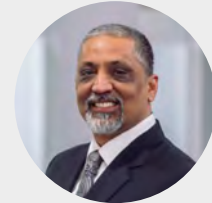
NORTH BEND DRAINAGE DISTRICT



QA/QC
Dan Fricke, PE, CFM



PROJECT MANAGER
Kevin Kruse, PE



PROJECT PRINCIPAL
Lalit Jha, PE, D.WRE, CFM

PROJECT TEAM MEMBERS

**BENEFIT-COST ANALYSIS |
HYDROLOGY & HYDRAULICS**
Patrick Hartman, PE

**OPINION OF COST |
LEAD DESIGNER**
Justin Stine, PE

TECHNICAL ADVISOR
Steve McMaster, CFM¹

GRANT DEVELOPMENT
Mary Baker
Terry Meier

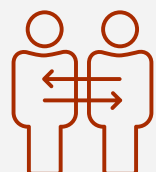
SURVEY
Jeff Serafin, LS

DESIGN/CONSTRUCTION
Jake Miriovsky, PE
Ross Lawrence, PE, CFM

Subconsultant:
1- Ideation

STAFF AVAILABILITY

Kevin Kruse serves as a Senior Project Manager and the Operations Manager for the Water Resources Engineering department. He is aware of each team member's workload and anticipated hours assigned for this project, and all projects. The proposed members of this team have the availability to complete your project within the proposed schedule, and Kevin will make adjustments during the project to ensure the schedule is maintained.



FIRM PROFILES



JEO CONSULTING GROUP, INC.

Since 1937, JEO has provided engineering consulting services, unsurpassed in skill, creativity, and cost-efficiency. From our modest beginnings, JEO has grown into a highly skilled and respected consulting firm, serving individuals and communities throughout the Midwest. JEO has 13 offices located in Iowa, Nebraska, and Kansas. **The JEO team of professional engineers, architects, planners, surveyors, community engagement specialists, environmental scientists, and finance experts all work in concert with skilled technicians and support personnel to exceed our clients' expectations.**

JEO's Water Resources Engineering Department (WRED) includes 34 staff members who specialize in levee and flood mitigation, stormwater and floodplain management, dam and lake design, environmental planning, stream/wetland improvements, and hydrologic and hydraulic modeling. We are proud to say JEO features one of the largest water resources engineering service groups in Nebraska and focuses on exactly this type of project. We continue to invest in development of this service to ensure we provide the best-in-practice service to our clients.

JEO has over 250 staff members. Our staff of professionals include:

- Professional Engineers
- Environmental Scientists
- Engineering/Architecture Technicians
- Registered Land Surveyors
- Surveyors In Training/Survey Technicians
- Registered Architects
- Community Planners
- LEED Accredited Professionals
- Certified Floodplain Managers
- Community Development/Funding Specialists
- Community Engagement Specialists
- Certified Pool Operators

PROJECT SUBCONSULTANT:  ideation

Ideation has specialized experience in benefit-cost analysis, including development and maintenance of FEMA's BCA Tool, as well as the methodologies and data underlying the BCA Tool and delivering training of BCA and hazard mitigation courses. Ideation offers assistance with all aspects of applying for and managing hazard mitigation plans and project sub-awards, including developing or reviewing benefit-cost analyses. Ideation's experience delivers expertise to state and local government clients across the entire hazard mitigation spectrum.

Ideation staff have assisted states and communities with the development of new BCAs and the review of completed BCAs. As FEMA's exclusive training delivery contractor, Ideation has delivered more than 100 BCA trainings for FEMA, state, tribal, territory, and local government staff since 2010. They understand what the end user needs to learn and have incorporated the years of knowledge into the development and maintenance of the training materials. Using their experience in conducting BCAs, Ideation is able to provide answers to participants' detailed questions about their mitigation projects.

Core Competencies

Ideation staff has expertise in the following areas:

- Hazard mitigation application development and review
- Benefit-cost analysis
- Community resiliency
- Training on the topics of benefit-cost analysis and the complete federal award life cycle
- Community and stakeholder consultation and engagement
- Environmental (ecosystem services) and natural capital
- Mitigation policy development and analysis of policy change implications



KEVIN KRUSE, PE

Project Manager



EDUCATION

- M.S. in Civil Engineering
University of Nebraska
- B.S. in Civil Engineering
University of Nebraska

REGISTRATION

- Professional Engineer
Nebraska
Kansas
Iowa
Wyoming

TENURE

- Industry - 20 Years
- JEO - 20 Years

QUALIFICATIONS

Kevin is a senior project manager in the Water Resources Engineering department at JEO. During his career at JEO, Kevin has been the lead designer and project manager on several large-scale stormwater projects. He has expertise in urban stormwater design, permitting, master planning, hydrology and hydraulics, and construction administration.

PROJECT EXPERIENCE

- North Bend Levee Flood Damage Repairs, North Bend, Nebraska
- 56th and Morton Drainage Improvements and HMGP Application, Lincoln, Nebraska
- Storm Water Improvements, Lincoln, Nebraska
 - 66th and Ballard
 - 69th and Walker
 - 48th and Holdrege
 - Fletcher from 57th to 63rd
 - Turner Ditch
- Forest Lake Blvd Drainage Improvements and HMGP Application, Lincoln, Nebraska
- Storm Sewer Improvements and HMGP Application, Valentine, Nebraska
- Big Sioux River Levee Flood Damage Repairs, North Sioux City, South Dakota



LALIT JHA, PE, D.WRE, CFM

Project Principal



EDUCATION

- M.S. in Civil/Environmental Engineering
South Dakota School of Mines
- B.S. in Civil Engineering
Nagpur University

REGISTRATION

- Professional Engineer
Nebraska
- Diplomat, Water Resources Engineering
- Certified Floodplain Manager

TENURE

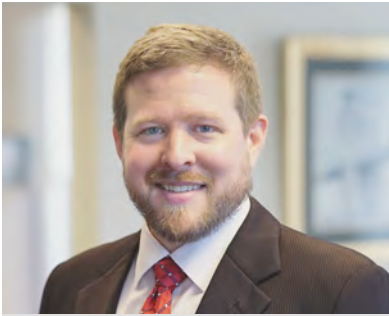
- Industry - 25 Years
- JEO - 19 Years

QUALIFICATIONS

Lalit currently serves as vice president of the Water Resources Engineering department and provides services in program and project management, business development, and client management. Lalit has over 25 years of experience in water resources engineering. His experience includes flood risk reduction studies and projects, floodplain management and mapping, stormwater management, levees, dams, watershed master planning, flood and natural hazard mitigation, regulatory coordination and permitting, capital improvement plans, stakeholder involvement/outreach programs, and program/project management. He works with agencies such as FEMA, NDEE, NRCS, USACE, NeDNR, NEMA, NGPC, and NDOT. His funding experience includes obtaining grants from FEMA, Water Sustainability Fund, NeDNR, NRCS, NRDs, NDEE, CDBG, Economic Development Administration, and NET.

PROJECT EXPERIENCE

- 56th and Morton Drainage Improvements and HMGP Application, Lincoln, Nebraska
- Forest Lake Blvd Drainage Improvements and HMGP Application, Lincoln, Nebraska
- Flood Risk Reduction, Grand Island, Nebraska/Central Platte NRD



DAN FRICKE, PE, CFM

QA/QC



EDUCATION

- B.S. in Civil Engineering
University of Nebraska

REGISTRATION

- Professional Engineer
Nebraska
Iowa
Idaho
Wyoming
- Certified Floodplain Manager

TENURE

- Industry - 16 Years
- JEO - 14 Years

QUALIFICATIONS

Dan is a project manager in the Water Resources Engineering department at JEO. For the bulk of his professional career, Dan’s focus has been large-scale flood risk reduction evaluations and strategy development for communities in Nebraska and Iowa. Dan has experience in hydrologic and hydraulic analyses including riverine systems, interior drainage based on joint probability, and USACE risk and uncertainty analyses associated with flood risk reduction improvements. Dan is currently serving as project manager and lead project engineer on a number of levee and flood risk reduction projects.

PROJECT EXPERIENCE

- Emergency Assessment of the Platte River Upstream of Fremont, Nebraska
- Salt Creek Levee System-Wide Improvement Framework (SWIF), Lower Platte South NRD
- Levee Program, Missouri River Levee System-Wide Improvements, Council Bluffs, Iowa
- Multiple Section 408 Levee Improvements Feasibility, Design, and Construction: Waterloo, Hooper, Columbus, and Howells, Nebraska



PATRICK HARTMAN, PE

Benefit-Cost Analysis | Hydrology & Hydraulics



EDUCATION

- M.S. in Civil Engineering
University of Nebraska
- B.S. in Civil Engineering
University of Nebraska

REGISTRATION

- Professional Engineer
Nebraska

TENURE

- Industry - 8 Years
- JEO - 5 Years

QUALIFICATIONS

Patrick has a broad range of experience in hydrologic and hydraulic (H&H) modeling, floodplain mapping, and FEMA benefit-cost analysis. Patrick is highly proficient in using GIS as a tool for H&H analysis, and has an extensive base of experience with most major GIS data types and data sets. Prior to JEO, Patrick was the State of Nebraska Section 319 Program Coordinator, and thus understands intuitively many of those requirements.

PROJECT EXPERIENCE

- 56th and Morton Drainage Improvement and HMGP Application, Lincoln, Nebraska
- Forest Lake Blvd Drainage Improvements and HMGP Application, Lincoln, Nebraska
- West Side Drainage Improvement HMGP Application, South Sioux City, Nebraska
- Wastewater Treatment Flood Protection HMGP Application, Fort Calhoun, Nebraska
- Urban Drainage Preliminary Engineering Study, Lincoln, Nebraska
- Bloomfield Floodplain Assessment, Bloomfield, Nebraska



JUSTIN STINE, PE

Opinion of Cost | Lead Designer



EDUCATION

- B.S. in Civil Engineering
University of Nebraska

REGISTRATION

- Professional Engineer
Nebraska
Iowa
Kansas
Missouri
Montana

TENURE

- Industry - 21 Years
- JEO - 19 Years

QUALIFICATIONS

Justin is a senior engineer with a diversity of experiences in complex studies and designs in water resources and environmental engineering. His current focus is study, design, and construction of stormwater infrastructure, flood risk reduction projects, streambank rehabilitation and stabilization, and coordination with regulatory agencies. He also has design experience with recreation facilities, water supply wells, sewer collection, and wastewater treatment facilities.

PROJECT EXPERIENCE

- 56th and Morton Drainage Improvement and HMGP Application, Lincoln, Nebraska
- Forest Lake Blvd Drainage Improvements and HMGP Application, Lincoln, Nebraska
- Fairview Storm Sewer Improvements - Phases I and II, Albion, Nebraska
- System-Wide Improvement Framework (SWIF), Lower Platte South NRD
- Underseepage and Stability Improvement Design, Council Bluffs, Iowa
- Raccoon River Levee Alternatives, Des Moines, Iowa



STEVE McMASTER, CFM

Technical Advisor



EDUCATION

- M.A. in Geography
Southern Illinois University
- B.A. in Geology/Geography
University of Minnesota

REGISTRATION

- Certified Floodplain Manager

TENURE

- Industry - 22 Years
- Ideation - 9 Years

QUALIFICATIONS

Steve has 22 years of experience in hazard mitigation, including 14 years of combined experience coordinating hazard mitigation programs for state governments and eight years in the private sector as a senior hazard mitigation specialist. Steve has served as a task order manager and as a subject matter expert for FEMA's benefit-cost analysis (BCA) tool, hazard mitigation assistance (HMA) grant programs, and loss avoidance studies. Steve has assisted local governments and non-profit organizations with BCA and project application development.

PROJECT EXPERIENCE

- FEMA, HMA Courses, Training Manager and Senior Instructor
- FEMA, BCA Toolkit, and Tribal HMGP Toolkit Updates
- FEMA, Hazard Mitigation Applications, Benefit-Cost Analysis, Loss Avoidance Studies



MARY BAKER

Grant Development



EDUCATION

- B.A. in Human Development and Family Wellness
University of Nebraska

TENURE

- Industry - 24 Years
- JEO - 1 Year

QUALIFICATIONS

Prior to joining JEO, Mary worked for the State of Nebraska for over 12 years, the last five of which were as the State Hazard Mitigation Officer for Nebraska’s Emergency Management Agency. Mary has a strong knowledge of FEMA’s funding requirements, policies, and grant management. Mary’s strengths are in program and project management, relationship building, professional networking, as well as exemplary communication skills, both verbal and written. As an Air Force and Nebraska Air National Guard retiree, Mary’s military career spanned over 24 years serving as a professional military educator, aviator, and commander’s first sergeant.

PROJECT EXPERIENCE

- Floodplain Structure Elevations and Acquisition, Fremont, Nebraska
- 2019 Flood Assistance, Winslow, Nebraska
- Floodplain Property Acquisitions, Platte County, Nebraska
- Property Acquisitions, Papio-Missouri River NRD



TERRY MEIER

Grant Development



EDUCATION

- B.A. in Mathematics and Economics
Northwestern College

REGISTRATION

- Certified Community Development Block Grant Administrator

TENURE

- Industry - 31 Years
- JEO - 12 Years

QUALIFICATIONS

Terry has over 31 years of professional grant writing experience. He joined JEO as a funding specialist after serving 17 years with the Southeast Nebraska Development District, where he was responsible for the implementation of all aspects of community betterment initiatives. He has successfully written applications that have resulted in over \$270 million in community betterment projects. Terry is well-versed in all phases of project development, including community needs identification, prioritization, strategic planning, and implementation. Terry has an abundance of knowledge in obtaining federal, state, regional, local, and private grants including the CDBG, USDA-RD, DWSRF, and CWSRF programs.

PROJECT EXPERIENCE

- Disaster Recovery Funding Plan, Hamburg, Iowa
- Nebraska Disaster Recovery Assistance with CDBG, NEMA, and FEMA
 - Berm Restoration, Ithaca, Nebraska
 - Relief Storm Sewer, Schuyler, Nebraska
 - Elm Creek Watershed Study, Platte Center, Nebraska
 - Lagoon Enhancement, Alexandria, Nebraska
 - Watershed and Interior Drainage Study, Hickman, Nebraska



JEO'S FUNDING RESOURCES

Funding is critically important for turning ideas into reality. It is truly an integral part of the project development. **Despite its importance, quality projects are often delayed—or even canceled—due to the lack of appropriate funding.** An awareness of available funding options is a critical “first step” in addressing a project’s funding needs.



Terry Meier comes to JEO from Southeast Nebraska Development District (SEND), thus his knowledge of grants in general, and specifically his knowledge of the requirements related to state and federal funding, is great!



The JEO funding department understands how crucial it is to educate and inform community leaders on funding options, so they can make responsible decisions on how best to proceed with their project. Uncovering all available resources ensures our clients that no stone has been left unturned when it comes to funding.

Terry Meier (JEO’s funding specialist) will consider all grants, loans, tax credits, and statutorily-authorized programs that may help fund projects. Terry has over 31 years of proven grant writing experience. **During that time, he has successfully written applications that have resulted in over \$270 million in community betterment projects.**



As the former State Hazard Mitigation Officer for the Nebraska Emergency Management Agency, Mary Baker knows NEMA and FEMA requirements, policies, and grant management.



Mary Baker will bring her experience from working at the State of Nebraska for over 12 years, including five years as the State Hazard Mitigation Officer for the Nebraska Emergency Management Agency. **Mary has a strong knowledge of FEMA’s funding requirements, policies, and grant management.**

Not many local firms offer a full-time funding specialist whose primary focus is on assisting our clients with public grants and loans. Nor do many have a NEMA/FEMA expert.

AREAS OF FUNDING EXPERTISE

- Community strategic planning
- Community assessment, needs identification, and prioritization
- Public facilitation
- Project development and coordination
- Issues facing rural development
- Local capital campaigns
- Economic development planning
- Downtown revitalization planning
- Tourism development projects
- Housing needs assessment and implementation
- Business transfer issues
- Grant writing and administration



“Funding is critically important for turning **IDEAS** into **REALITY.**”

SIMILAR PROJECTS

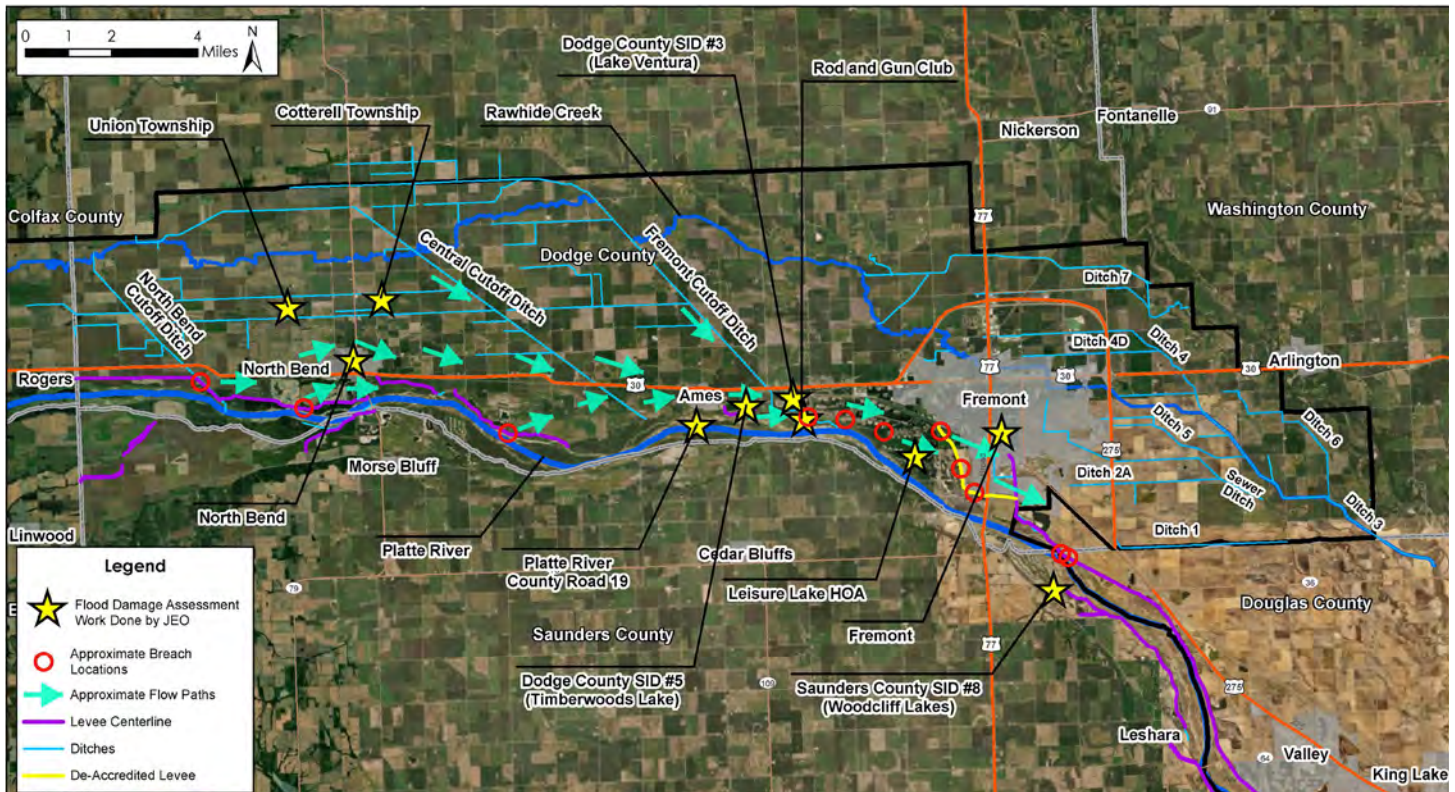


HAZARD MITIGATION GRANT PROGRAM EXPERIENCE

	FEMA Grant Program and Benefit-Cost Analysis	Hydrologic and Hydraulic Analysis	Engineering/Design/Drafting/Survey	Utility Coordination	Status
56 th and Morton Drainage Improvements and HMGP Application, Lincoln, NE	●	●	●	●	Construction complete 7/2020 Total project cost \$4.7 million Total project benefit \$10.7 million (BCR 1.99)
Storm Sewer Improvements, Valentine, NE	●	●	●	●	Design funded through HMGP \$636,750 Construction funded locally Construction completed 5/2017
South Table Creek Bank Stabilization, Nebraska City, NE	●	●	●	●	Construction complete 9/2015 Total project cost \$450,000 Total project benefit \$1.0 million (BCR 2.20)
Forest Lake Blvd Drainage Improvements and HMGP Application, Lincoln, NE	●	●	●	●	Final application submitted 7/3/2020 Total project cost \$1.2 million Total project benefit \$1.4 million (BCR 1.17)
Interior Drainage and Pump Station, Seward, NE	●	●			Final application submitted 6/2020 Total project cost \$1.4 million Total project benefit \$1.6 million (BCR 1.15)
West Side Drainage Improvements, South Sioux City, NE	●	●			Application currently in development for submittal in July 2020
Wastewater Treatment Flood Protection, Fort Calhoun, NE	●	●			Application currently in development for submittal in July 2020
Hazard Plan Update, HMGP Project Screening, and BCA, Lower Platte North NRD	●	●			Plan update is currently underway and anticipated for completion and approval by FEMA in summer 2020
Diversion Channel HMGP and BCA, Battle Creek, NE	●	●	●	●	Project is currently on hold due to property acquisition
Hazard Mitigation Plan Update, HMGP Project Screening, and BCA, Lower Platte South NRD	●	●			Plan was approved by FEMA in March 2020

The March 2019 flood has engaged community leaders into action. Now is the time to act and the JEO team is focused on developing implementable projects that can be funded by outside dollars. JEO's roots are with helping Nebraska communities, counties, local governments, and Natural Resources Districts to obtain funding for their projects. Our culture is small town centric and that will drive us to make this project a success. JEO was here before the flood and will remain committed to your community well into the future.

POST 2019 FLOOD ASSISTANCE DODGE COUNTY, NEBRASKA



EMERGENCY ASSESSMENT OF THE PLATTE RIVER, UPSTREAM OF FREMONT, DODGE COUNTY, NEBRASKA

Dan Fricke was part of the Society of American Military Engineers (SAME) Emergency Response Team. The team assessed the problem, with regards to the City of Fremont at County Road 19 and repairing the Ames Diking team. They proposed mitigation alternatives and developed a preliminary plan to mitigate increased flood risk to the city.

HAZARD MITIGATION PLAN/PARCEL LEVEL MITIGATION, CITIES OF FREMONT AND SCHUYLER, NEBRASKA

As part of the Lower Platte North NRD Hazard Mitigation Plan Update, JEO is completing a review of flood risk for a selected set of parcels within the City of Fremont jurisdiction and is using this information to inform the city on flood risk reduction mitigation actions. JEO is using the March 2019 flood impact information as a guide to determine which structures to assess.

FLOOD DAMAGE ASSESSMENTS, DODGE COUNTY PLATTE RIVER CORRIDOR, NEBRASKA

During the March 2019 flood event, JEO assisted seven organizations with flood damage assessments, damage cost estimates, and recommendations for short- and long-term projects to put infrastructure back in place and to mitigate future damages. Services also included assistance in communicating with NEMA and FEMA, concepts for immediate repairs, and some long-term solutions. These organizations included Cotterell Township, Lake Ventura, Leisure Lake HOA, North Bend, Rod and Gun Club, Timberwoods Lake, and Union Township.

FLOOD DAMAGE ASSESSMENT AND REPAIRS, CITY OF SCHUYLER, CITY OF NORTH BEND, CITY OF FREMONT, TIMBERWOODS LAKE, LAKE VENTURA, FREMONT ROD AND GUN CLUB, WOODCLIFF LAKES, NEBRASKA

The JEO team completed a flood damage assessment to support recovery and FEMA public assistance.

MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN, LOWER PLATTE NORTH NRD

The Lower Platte North NRD is currently using JEO, the original plan author, to provide the district's second five year update. JEO staff has become familiar with the flood risk, proposed mitigation actions, and created strong working relationships with Dodge County Emergency Management and the other 25 plan participants throughout this process.

56TH AND MORTON DRAINAGE IMPROVEMENTS AND HMGP APPLICATION LINCOLN, NEBRASKA



The tributary to Salt Creek along 56th Street experienced frequent flooding. JEO conducted a detailed hydrologic and hydraulic evaluation for the watershed to accurately assess flood risks and develop CIP project recommendations. Conceptual recommendations included widening the existing channel, replacement of an existing city street bridge, and removal of a private bridge to improve conveyance. During this process, it was estimated that the project would reduce food depths by as much as four feet to withstand even the ten year storm event. Overall, a very large area would receive significant food risk reduction. Following the evaluation, it was determined that funding assistance would be necessary to make the project a reality. FEMA HMGP grant funds were applied for and secured. A detailed benefit-cost analysis was performed to demonstrate a high degree of cost-effectiveness, supporting the grant application.

The final design of the channel improvements included many features. Grade control was included in three locations to halt downcutting of the channel. Riprap bank stabilization was included at strategic locations, especially around bridge abutments and culvert outlets. The channel itself was sized and shaped to not only accommodate flood flows, but also rehabilitate the channel into a more natural condition. The project cost is estimated at \$5.8 million and includes 4,500 feet of channel rehabilitation and a new 120 foot bridge at Fletcher Avenue. The completion of this project will yield about \$11 million dollars in benefits, including reduction of structural flooding, avoided economic losses, reduction of damage to infrastructure, and environmental benefits.

REFERENCE

City of Lincoln
Ben Higgins
p. (402) 441-7589



“ The flood risk reduction project in the area of 56th and

Morton demonstrates the power of collaboration to solve problems. The city’s partnership with JEO, the Lower Platte South NRD, and the property owners has resulted in an effective solution, one that can serve as a model for other areas and other cities that face flash flooding issues. I also want to thank the voters of Lincoln for passing the stormwater bond issue that funded the city’s share of this important project.”

- Chris Beutler
Former Mayor, City of Lincoln




For more information on the project, please go to: www.56thmorton.com



JEO is currently in the design phase of an improvement to South 67th Street and Forest Lake Boulevard. As part of this effort, JEO is completing a Hazard Mitigation Grant Program application to FEMA to request funding for the construction phase of the project. Through previous phases, JEO has completed a comprehensive two-dimensional hydrologic and hydraulic evaluation of the pre- and post-project conditions to confirm flood depth reductions at both street crossings.

Previous evaluation phases also included significant stakeholder and public involvement efforts to inform the design phase and to develop a holistic design that was both functional and acceptable to the area residents. The proposed project will significantly reduce flood depths and reduce flood risk to 10 private residences along the project reach, as well as reduce street overtopping which currently limits access to the neighborhoods by emergency vehicles. The project includes additional culvert barrels at both South 67th Street, as well as Forest Lake Boulevard, in addition to streambank improvements in select areas along the length of the channel. The current schedule is to be completed with design in the fall of 2020 and construction to begin in 2021.

REFERENCE
City of Lincoln
Ben Higgins
p. (402) 441-7589

 For more information on the project, please go to: www.lincolnforestlakeproject.com

FEMA FUNDING EXPERIENCE NEBRASKA AND IOWA



Since 2010, JEO has featured a specialized group of hazard mitigation planners and engineers who have become proficient with FEMA funding programs, such as the Public Assistance (PA) Program, Hazard Mitigation Grant Program, Pre-Disaster Mitigation (PDM), and Flood Mitigation Assistance (FMA). Our team is familiar with the FEMA Public Assistance Program and Policy Guide (PAPPG) through our continuous work on FEMA PA projects.

Over the last decade, our FEMA funding team has maintained solid professional relationships with the Nebraska Emergency Management Agency, Nebraska Department of Natural Resources, and FEMA staff. Whether a mitigation project or disaster response, our team knows who to call to obtain information quickly.

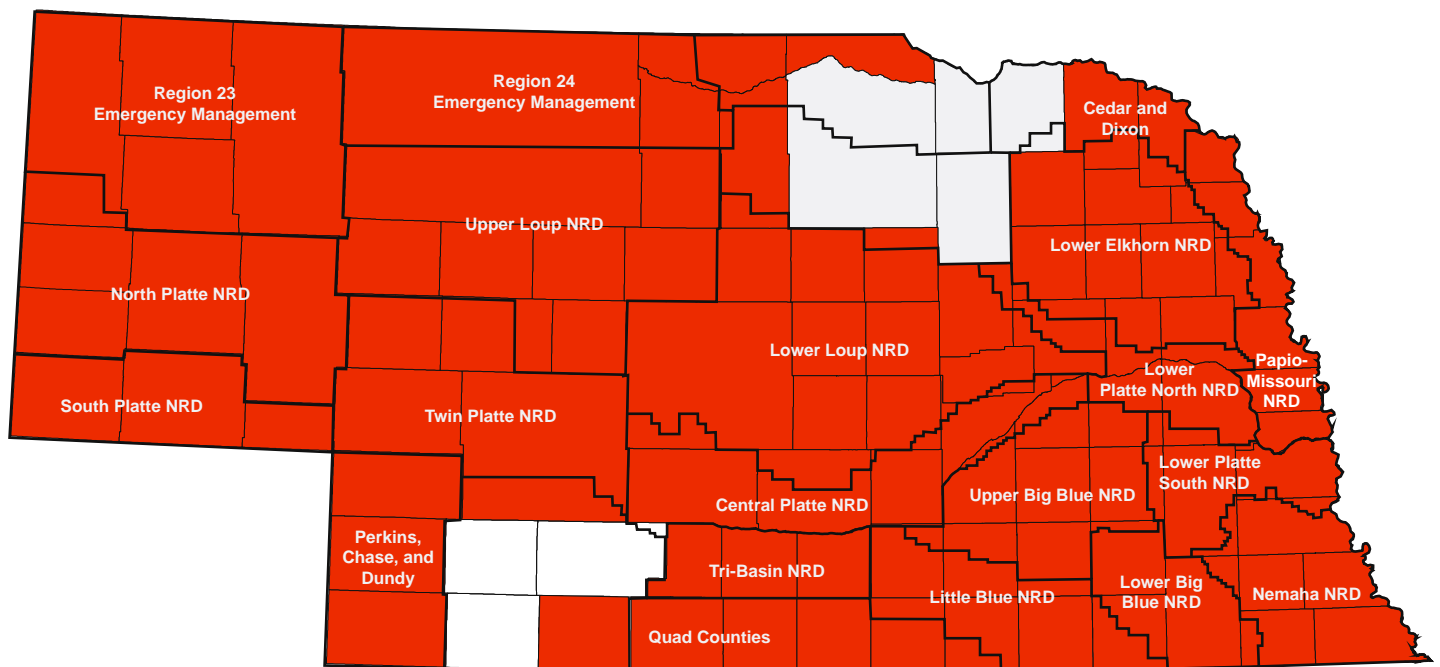
The JEO team has successfully written FEMA planning grants and project grant applications for over 60 projects throughout Nebraska since 2010. JEO team members have written grants that provided over \$270 million to the communities we serve in Nebraska and Iowa. Our team has also assisted in securing over \$130 million for flood risk reduction projects to our clients in Nebraska and Iowa.



- FEMA Grant ~\$25 million
- WSF (Water Sustainability Fund) Grant ~\$30 million
- State of Iowa Flood Mitigation Program ~\$70 million
- CDBG-HUD, NRCS, NET, DEQ ~\$5 million

FEMA FUNDED PLANNING EXPERIENCE

JEO has worked with most counties in Nebraska to obtain funding to produce and update hazard mitigation plans dating back to 2010.



PROPOSED TIMELINE

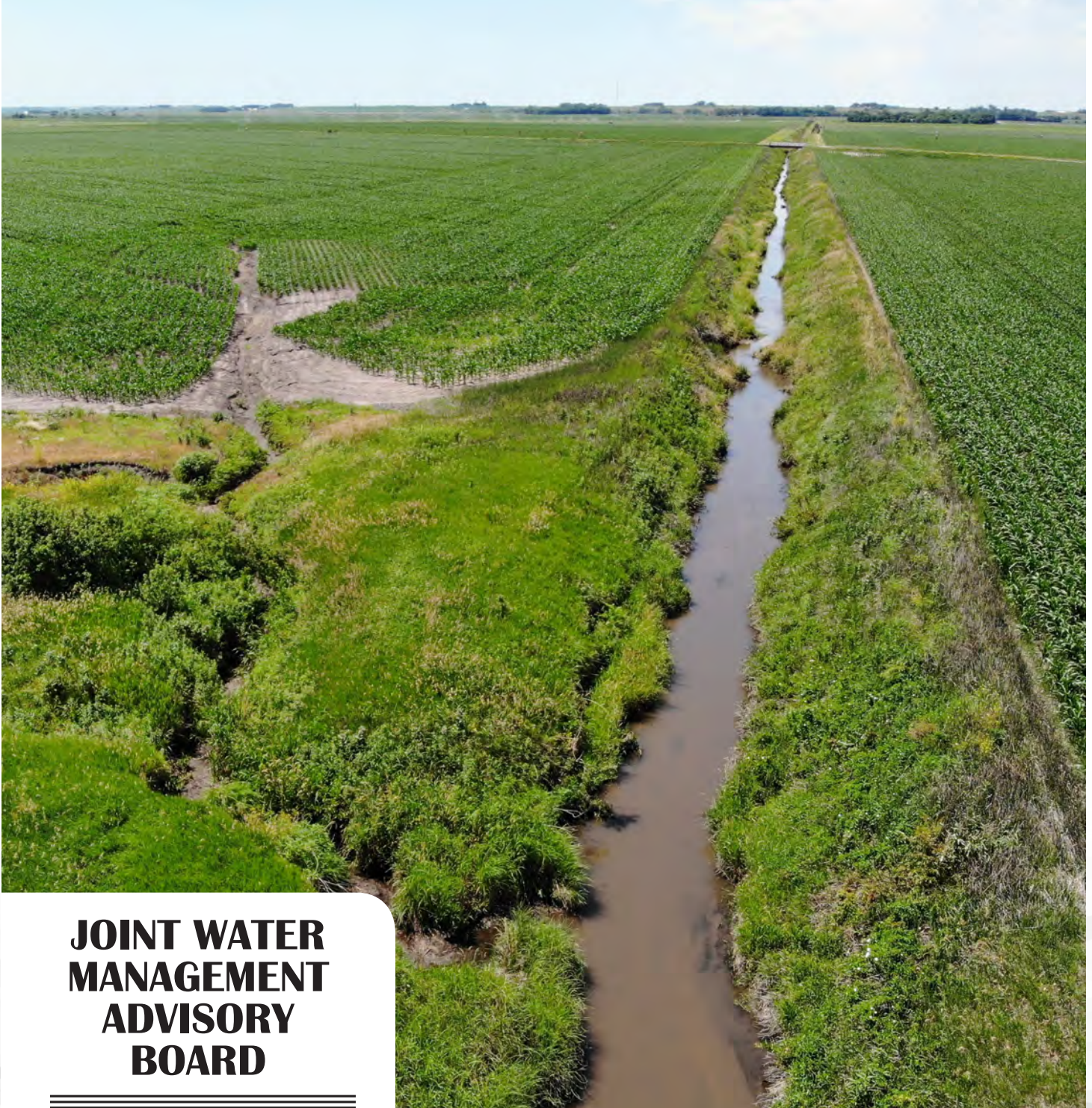
The following timeline is dependent on 100% funding of the project with the HMGP funds. A modified timeline may be necessary if alternate funds are utilized.

TASKS	2020						2021												2022											
	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT			
Submittal of Initial Grant Application Packet (JWMAB/ NRD)	●																													
Notice to Proceed		●																												
Receipt of First Round of NEMA Comments/RFI		●																												
Response to NEMA (Pending Review of RFI)			●																											
Final Submission of Application to FEMA (Pending Review, Approval by NEMA)			■																											
Obligation of HMGP Funds and Authorization to Proceed with Design Phase								●																						
Final Design of Improvements									■																					
Submittal of Final Design, Updated Funding Request to NEMA/FEMA for Construction Phase														●																
Obligation of HMGP Funds and Authorization to Proceed with Construction Phase																●														
Bidding/Negotiation																			■											
Construction																					■									

NORTH BEND CUTOFF DITCH

ASSISTANCE WITH HMGP APPLICATION AND ENGINEERING OF BANK MITIGATION AND RESILIENCY MEASURES

QUALIFICATIONS AND PROJECT PROPOSAL



JOINT WATER MANAGEMENT ADVISORY BOARD

400 East Military Avenue
Fremont, NE 68025



LETTER OF INTEREST

FYRA ENGINEERING

7 July 2020

Joint Water Management Advisory Board (JWMAB)
c/o City of Fremont
Attn: Brian Newton, City Administrator
400 East Military Avenue
Fremont, NE 68025

Re: Professional Services for the North Bend Drainage District (District)
North Bend Cutoff Ditch - Assistance with HMGP Application and Engineering of Bank Mitigation and Resiliency Measures

Dear Selection Committee:

FYRA Engineering (FYRA) is pleased to submit for your review and consideration, our qualifications and project proposal for professional services for the above-referenced project. FYRA possesses all of the required skill sets in-house to complete this work. Our roles are described within this proposal.

FYRA brings the Hazard Mitigation Grant (HMG) experience to provide the North Bend Drainage District with initial grant application (completion) expertise, assistance in preparing Requests for Information (RFI) and the subsequent grant management services through post-construction grant requirements. Given the listed selection criteria in the RFP, we are confident that we are best suited to assist you on this project, as described with the following four criteria:

1. We have documented in our approach how we would move this project forward with the understanding that the repair, mitigation and resiliency measures desired for the ditch must both meet District needs and fit within the NEMA 404 program to maximize outside funding. FYRA has recent and relevant experience in both drainage channel repair projects and working with NEMA/FEMA on repair/mitigation projects to maximize funding. This experience is detailed in our approach and experience matrix contained within.
2. FYRA has unmatched experience in securing funding for water resources projects. This includes funding available through local, state, and federal programs. We have either completed or are currently working on six NEMA/FEMA-funded projects utilizing 2019 disaster relief/mitigation funds. These projects are for the City of Deshler, Nebraska (Deshler Parcel Level Flood Risk Management Plan), Lower Platte North NRD (Camp Ashland Fuse Plug Levee Repair and Lake Wanahoo Spillway Repair/Mitigation), Lower Loup NRD (Duncan East Drainage District Repair), Lower Elkhorn NRD Elkhorn River (Scribner, NE) Bank Repair/Stabilization, and the Sarpy County SID 101 (Chris/Hanson Lakes) Short-term and Long-term Flood Damage Repair and Floodproofing Resiliency projects. All five of these clients can attest to the support we have offered in managing the entire process from NOI submittal through post-project close out. (The projects are all at various levels of initiation through construction.)
3. In addition to the similarly funded projects we list above for recent/relevant experience, FYRA takes great pride in our long-term success in helping Midwest clients with their water resources engineering needs. The project experience matrix included within this proposal details other similar projects that not only highlight our experience on similar projects, but also the trusted relationships we have built with local clients with similar needs. Our success on past projects is what we attribute our firm success to.
4. We have addressed our ability to staff this project with the experienced professionals shown within. We do what it takes to meet project deadlines, and our client references for the current NEMA/FEMA

LETTER OF INTEREST

FYRA ENGINEERING

projects, and all of our projects, can attest to our commitment. We would not be where we are today if we didn't deliver quality projects on time.

We trust that our enthusiasm and commitment to this project shines through in our proposal. We will work for you to help secure funding and will remain invested throughout implementation of the final project. We understand that we will not receive compensation for our work if the grant application is not approved/funded.

FYRA has a long and successful history of implementing water-focused projects in Nebraska, and we welcome the opportunity to continue bringing our passion for this type of work to the JWMAB and North Bend Drainage District. Our team has the capabilities, resources, availability, and critical experience to effectively implement flood resiliency measures.

Thank you for the opportunity to submit this project proposal. If you have any questions or need clarification on any of the information presented, please do not hesitate to contact me. I look forward to hearing from you soon and the opportunity for FYRA to create a long-term relationship with the JWMAB and the District.

For the Team,



Michael K. Sotak, PE



NORTH BEND CUTOFF DITCH

ABOUT FYRA

FYRA ENGINEERING



Our Name

Founded in 2012 by four engineers with expertise in water resources engineering, **FYRA** is a consulting engineering firm known for responsiveness, agility, and service that's truly personal. Taken from the Swedish word for the number four, **FYRA** represents our four founders but it's more than just a number. Synonymous with the fourth gear of a race car and the launching of a rocket, our name represents our ability to adapt quickly to an ever-changing landscape and the responsiveness we strive to show to each and every one of our clients.

We Build Relationships

As a water resources engineering firm, we design stormwater solutions, analyze floodplains, prepare technical assessments and studies, build and repair dams and levees, and restore streams and lakes. While our projects are varied, we view every one of them as opportunities to deliver results and build relationships with our clients.

Many of our clients are Midwest state agencies and municipalities who have been working with our team members for at least 20 years and trust our track record of success. They continue to partner with us because they know they are not numbers here. They're people. We believe we all share a strong work ethic, listen well and show an uncommon attention to detail with every project we undertake. We enjoy unique projects and have been privileged to work on some of the most challenging projects in the Midwest. We tailor our approach to our clients' needs and design projects with their unique concerns and requirements in mind.



NORTH BEND CUTOFF DITCH

PROJECT UNDERSTANDING AND APPROACH

FYRA ENGINEERING

PROJECT UNDERSTANDING

The North Bend Cutoff Ditch (Ditch) sustained damage during the 2019 flood due to high waters and velocities that caused localized scour and other damage due to a combination of saturated embankments, bank scour, damaged protective measures, and ice flows.

After initially pursuing repair and improvements through the JWMAB's planned comprehensive study of the Dodge County area, the North Bend Drainage District (District) was encouraged by NEMA to submit a Notice of Intent (NOI) for necessary repairs and desired mitigation for their individual component of the project since the overall comprehensive project has not yet been funded with NEMA/FEMA funds. The NOI has been submitted and an application is to be submitted by mid-July in order to take advantage of uncommitted mitigation funds associated with the State of Nebraska's 2019 flood disaster recovery award.

The JWMAB and the District needs first from its consultant familiarity with the application process and an understanding of how the initial stages of the application and feasibility investigation process will affect later phases of the project including materials to be used, mitigation dollars available, and how to separate costs and project components into the repair and mitigation "categories". The consultant will help finalize the application and respond to RFIs during this phase.

Assuming funding is approved, the project then becomes more of a traditional design/bid/build project delivery with the consultant performing normal duties related to the preparation of design documents, bidding, and construction observation. During this time, periodic correspondence with NEMA/FEMA is required to update the project information in the grant portal such as anticipated costs, project schedule, and other program requirements.

PROJECT APPROACH

Given our stated understanding of the project, for the purpose of this project proposal, we have focused on the following responsibilities (bolded sections below) your consultant will provide services for.

COORDINATION WITH NEMA/FEMA AND PROJECT PARTNERS

FYRA is currently working with NEMA/FEMA on multiple projects, providing these same services to several NRDs and local municipalities, and have found that a rapid response keeps your project, "on top of the pile". Developing a history of providing detailed, accurate information helps reviewers work through your responses faster. We understand that providing the application reviewers, who are extremely busy, quick action will bring your project to the forefront. Once this project is approved for funding, FYRA will provide assistance to the JWMAB with any contractual matters so that work can begin on the next project steps quickly.

Once design begins and depending on the representative who is responsible for your funding, you can expect to participate in weekly to bi-weekly coordination calls with NEMA/FEMA. These are usually very short meetings and typically just to check on project progress. These meetings provide an excellent avenue to ask questions and clarify any ambiguities in project direction. FYRA can participate in these calls with you, or for you, and provide you with summaries so that the discussions are well documented.

The next step for your consultant may be assisting with the Benefit:Cost Analysis (BCA). To use mitigation funds, FEMA requires a BCA exceeding 1. FEMA will likely run an initial analysis on the construction cost estimated in the original application, and if it is close to 1, they may require some additional information from the applicant. FYRA is highly adept in providing BCAs for State and Federal projects and can assist when needed.

Once construction begins, NEMA/FEMA will request updates on progress and cost. Often, specific costs may need to be separated from others to meet requirements of multiple funding sources. FYRA has provided these summaries in the past, and believe these are important in providing a clear channel of communication between off-site FEMA reviewers and project sponsors.

Through construction and even post-construction, NEMA/FEMA will require documentation of all payments to contractors, sub-contractors, or other suppliers. FYRA will manage this detailed paperwork for you and work with the General Contractor to provide all necessary information which means reimbursement for this project will be issued in a timely manner.

PROJECT UNDERSTANDING AND APPROACH

FYRA ENGINEERING

With our past experience with NEMA/FEMA funding and project implementation, we understand the following tasks are important to keep your project moving forward. Collectively, this approach will make the required grant coordination as painless as possible:

- Gaining access to the grant portal and define roles of the consultant in portal maintenance.
- Immediately review all cost estimates previously prepared.
- Being MORE than prepared for regularly scheduled coordination meetings and addressing required submittals with detailed and accurate information.
- Keeping current on all cost projections.
- Using appropriate language and materials (to fit within the funding programs and alleviate concerns from off-site reviewers) in the design of the repairs/mitigation measures.
- Develop a project cash flow schedule that works with reimbursement schedules and keep current on all information required to receive reimbursement as soon as possible.

NORTH BEND CUTOFF DITCH PERFORMANCE

Due to the size, flat grades, and hydrologic inter-connections of the North Bend Cutoff Ditch (Ditch) and the surrounding infrastructure, the development of a reliable, predictable hydrologic and hydraulic model is difficult at best. FYRA's approach would be to use the "boots on the ground" historical understanding of the system to make management and design decisions. It is understood that Shell Creek has long been the "nemesis" of the system, but also that improvements are being made in the Shell Creek Watershed by the LPNNRD, NDOT, and landowners that are addressing the problem, at least in part. Other changes to surrounding drainage infrastructure, such as improvements to the Fremont enhanced ditch bank, the straightening of Maple Creek, the river berm protecting the Riverview development, and other projects all present new challenges to the system and alter how the system performs. This understanding, which will guide the approach and design, is contained in the following discussions about ideas to improve Ditch performance. These ideas have been summarized into the following categories to match the Ditch deficiencies noted to date which include debris and sediment accumulation, insufficient capacity and overtopping, and bank sloughing.

Debris and Sediment Accumulation

Debris and sediment will accumulate due to two primary factors; the size of the particles being carried and the velocity of the stream that is carrying the material. While the nature of the materials is not going to change, land management practices such as vegetation, cover cropping, and many others can help to reduce the volume of sediment being carried and therefore what is deposited in the Ditch.

While ditch grades cannot be modified enough to make a meaningful difference, maintenance and keeping a uniform channel cross section can help to reduce pinch points and localized areas where sediment and debris are likely to be deposited.

Overall, ditch management and maintenance has been performed quite well, given the condition of the ditch today. Minor improvements in maintenance frequency and some features to improve the ease of maintenance can be considered in the overall design to help reduce future deposition problems. This can also serve as a long-term in-kind contribution of the NBDD to the project in lieu of cash resources.

Insufficient Capacity and Overtopping

Overall the ditch has performed very well throughout the years. Overtopping events have been limited and not often catastrophic with the exception of 2019. It is understood that the overtopping locations have varied over the years but are generally concentrated in the southern portion of the ditch, where Platte River backwater reduces ditch capacity.

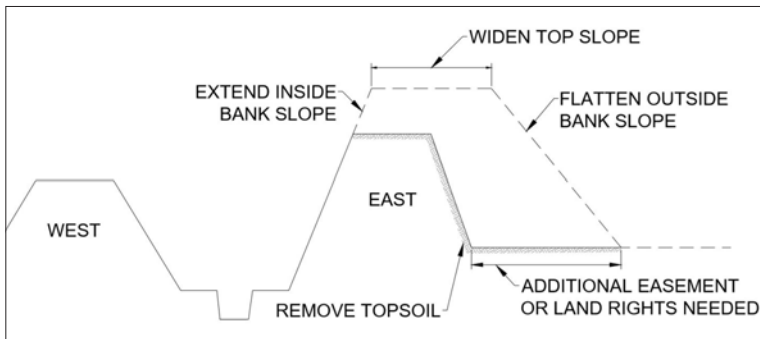
The planned raises to the east enhanced ditch bank will help to eliminate overtopping frequency and severity. The planned widening of the ditch bank will help to eliminate damage from any future overtopping that does occur. FYRA will assist in analyzing the ditch bank geometry and perform a cost analysis on raises of varying heights (potentially up to



The confluence of the NBCD and the O'Hare ditch shows how inefficient hydraulics can cause sediment deposition.

PROJECT UNDERSTANDING AND APPROACH

FYRA ENGINEERING



The planned raises, top width increases, and any flattening of the outside bank slope will require additional easements to be acquired from adjacent landowners.

18 inches), and planned widening (potentially up to 26 feet) that has been estimated to date. This will assist in the cost and risk-based decision on how much bank fill to potentially add.

Additionally, FYRA will analyze the system and determine where sediment/debris accumulates and where other pinch points exist that are reducing ditch capacity. This will be done by looking at capacity within the ditch, but also across the ditch as overtopping events are analyzed to protect neighboring property to the east.

Bank Sloughing

It is understood that sloughing occurs along the ditch banks. This occurs when there is an instability in the soils and their ability to stand on a slope. Slope steepness, soil materials, vegetative cover and degree of saturation all factor into the potential to create small sloughing, which are small slides or slope failures. FYRA will categorize the location of sloughing and help to analyze the nature of the sloughing to assist in creating standard repair and maintenance procedures to try and address them throughout the ditch.



This image shows a consistent slough line evidenced by the change in vegetation pattern that was likely caused by a saturated inside ditch line. The sloughed area is now impeding the invert of the channel and reducing channel capacity as well.

FYRA has worked with other NRDs to address bank sloughing in various systems in southeast Nebraska. In the past, bank stabilization using riprap was the primary method of stabilizing bank sloughs in the region. Since the 2019 flood, riprap and other rock materials have seen an extreme increase in material and hauling costs. Because of this, FYRA developed a lower cost method to address bank sloughing which utilizes inexpensive geogrids and geowebbs to stabilize bank slopes. We will look at various types of slough stabilization methods for this project and determine the most cost effective and sustainable method for this ditch.

We have stated above our understanding of these three technical issues above and know that additional focuses may occur during the investigation/inspection of the ditch such as any needed culvert repairs or other ditch features. Once a complete "wish list" of repairs and mitigation measures is assembled, we will work with the project sponsors to determine how large of a NEMA/FEMA funded project can be prepared and will design a bid package that maximizes the value the NBDD can get from the funding available. FYRA will use our

experience in similar past projects to pay close attention to constructability issues such as borrow area quality/location, access routes along a linear path, staging and work areas needed for the type of construction equipment that will be needed, and how this is all affected by the linear nature of the project.

In conjunction with the design, FYRA will pay special attention to identifying those benefitting and contributing to the project. We understand that CDBG Block Grant money has been identified to cover the local cost share of the NEMA/FEMA grant. This is a rare, but amazing opportunity when federal money is allowed to match federal money.

PROPOSED TEAM MEMBERS

FYRA ENGINEERING

JOINT WATER
MANAGEMENT
ADVISORY BOARD

NORTH BEND DRAINAGE DISTRICT

STAKEHOLDERS
NEMA AND FEMA
LANDOWNERS AND
UTILITIES

PROJECT MANAGER



Mike Sotak, PE, D.WRE

CLIENT MANAGER
FUNDING ASSISTANCE
ECONOMICS
QUALITY CONTROL

PLANNING AND DESIGN TEAM



Lindy Rogers, PE

DITCH DESIGN
CONSTRUCTION DOCUMENTS
CONSTRUCTION OBSERVATION/
OVERSITE



Bob Gregalunas, PE

HYDROLOGY & HYDRAULICS
DITCH DESIGN
GEOTECHNICAL ASSESSMENTS



Janel Kaufman, PE

ENVIRONMENTAL PERMITTING
QUALITY CONTROL



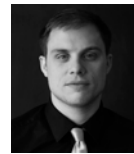
Sara Mechtenberg, PE

CONSTRUCTION DOCUMENTS



Ryan Roenigk, EI

DITCH DESIGN
CONSTRUCTION DOCUMENTS
CONSTRUCTION OBSERVATION




Eric Suing, EI

CONSTRUCTION DOCUMENTS
CONSTRUCTION OBSERVATION

TEAM MEMBERS AND PREVIOUS EXPERIENCE

FYRA ENGINEERING

The following Project Team and Previous Experience matrix highlights a few of the individuals from the FYRA Team that are proposed to work on this project in key roles, and details project experience and individual experience relevant to their roles. As you can see, our team offers a broad depth of experience and understanding that relates specifically to this project and the funding and technical expertise required. Our team has built our reputation on delivering quality products, on time. As with every project pursuit, we carefully assess our ability to deliver on every project. Our team has the capacity to complete this project on time, with the staff shown in this matrix.

Project Team and Previous Experience Staff Chart by Task and Project						
General Project Task						
	Mike Sotak, PE, D.WRE	Bob Gregalunas, PE	Lindy Rogers, PE	Janel Kaufman, PE	Ryan Roenigk, EI	Eric Suing, EI
Project Management	A,B,C,D		E,F,G,H,I,J,K			
NEMA/FEMA Funding Assistance	A,B,C,D		A,B,K			
Earthen Drainage Ditch Design		F,H,I	E,F,G,H,I,J			
Channel Hydraulics		A,D,F,G,H,I, K, L	F,G,H,I,J,K		I	
Penetrations Repair		F,G,H,I	E,F,G,H,I,J		F,G,I,J	E,G,J
Geotechnical Assessment		F,H,I	F,H,I			
Environmental Permitting			E,F,G,H,I,J	A,E,F,G,H,I,J		
Construction Observation Performed/Planned			E,F,G,H,I,J		F,G	B,E,F,G,J

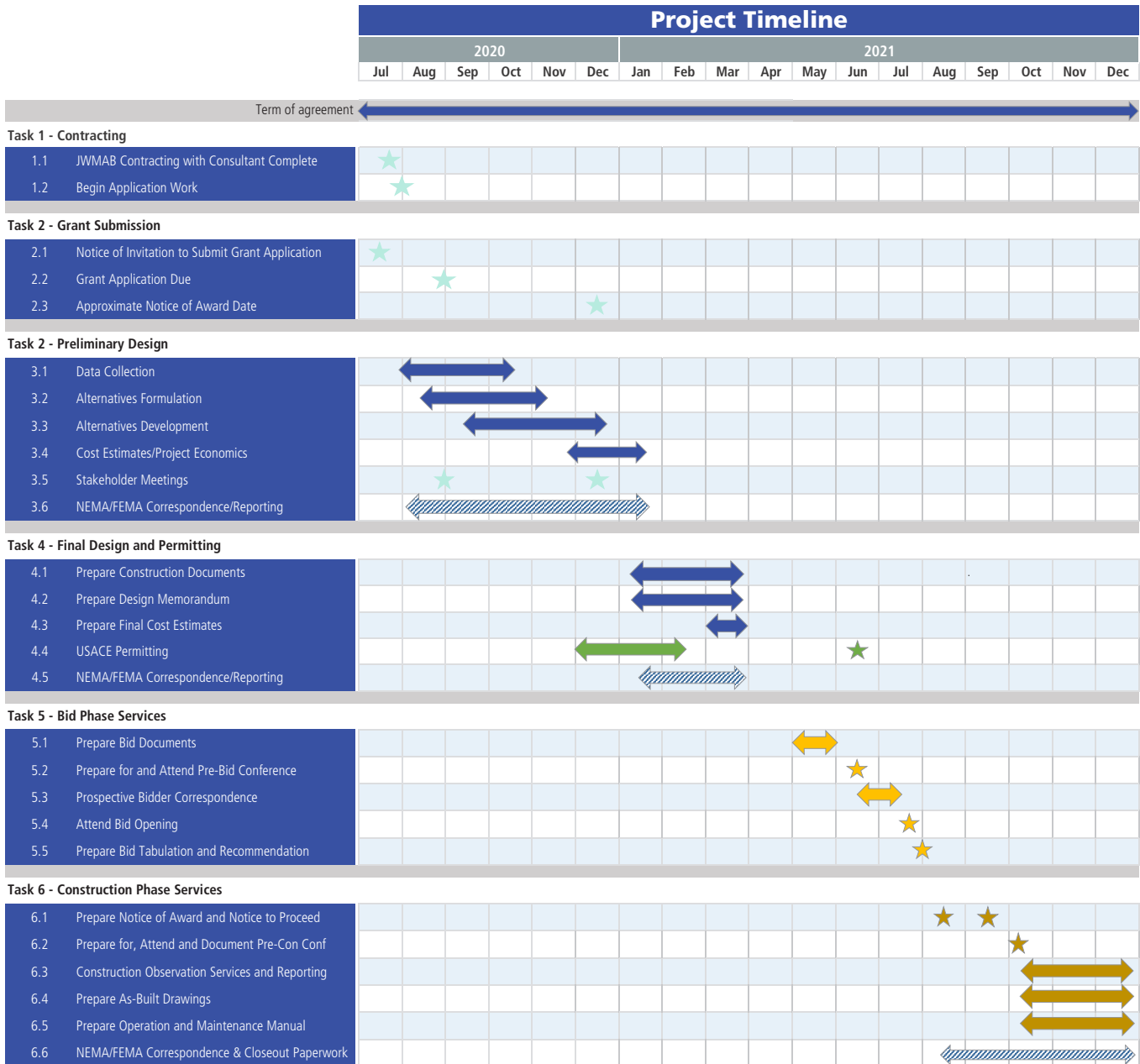
Indicates Firm Principal

Experience	
A	Wanahoo Dam Stilling Basin Rehabilitation
B	Camp Ashland Fuse Plug Levee Repair
C	SID 101 Floodproofing
D	LENRD Elkhorn River Bank Stabilization
E	No Name Dike Rehabilitation Project
F	Big Papio Levee Culverts Project
G	Little Papillion Creek Levee Penetration Repair
H	Federal Levees R-613 and R-616-613
I	Investigative Phase for Papillion Levee Certification
J	Salt Creek Penetration Repairs
K	City of Deshler Parcel Level Flood Risk Mitigation Plan
L	Leshara Levee Breach Repair

PROPOSED PROJECT TIMELINE

FYRA ENGINEERING

The schedule below reflects a realistic look at a likely timeline for the project. Coordination with NEMA/FEMA has sometimes been very quick on past projects, and slow on others, so some leniency was given for that variability. There is also some leniency for USACE permitting timeframes in order to prepare for a construction season in the late summer/fall of 2021. FYRA is willing to discuss accelerating any part of the schedule that we are personally responsible for.



PROJECT EXPERIENCE

FYRA ENGINEERING

SID 101 FLOODPROOFING STUDY

SARPY COUNTY, NEBRASKA

Sarpy County (Nebraska) Sanitary and Improvement District (SID) 101 is a Platte River left bank sand pit community made up of five unconnected sand pit lakes and approximately 350 homes. The community has been affected by Platte River flooding several times over the past few decades and during March of 2019, very few homes and cabins weren't inundated with flood waters as Platte River water surface elevations nearly matched the effective 100-year flood level.

SID 101 hired FYRA Engineering to conduct a flood proofing study that would assess flood proofing options from the current level at which overland (from Platte River) flooding begins up to the 100-year water surface elevation. The study will assess permanent and temporary floodproofing solutions to try and build flood resiliency within the community.

FYRA is assessing the cost of floodproofing the SID at 1' depth increments and by associating those depths with flood frequencies on the Platte River, can create a risk-based cost analysis and assist the SID factors. This project

economics and innovative design solution capabilities that continue to serve lake communities.

This project is currently pursuing NEMA/FEMA Hazard Mitigation Funds for implementation. FYRA has begun preparing information for the anticipated Benefit Cost Analysis (BCA).

CLIENT

Olmsted and Perry Consulting Engineers
10730 Pacific Street, Suite 232
Omaha, Nebraska 68114
Mr. Jim Olmsted, PE
402.399.8552

PROJECT START: October 2019

PROJECT COMPLETION: Current

PROJECT SIGNIFICANCE

This project highlight's FYRA riverine modeling, risk-based project economics, innovative mitigation methods that were adapted to fit the needs of this particular location and implementation budget. This project is also pursuing HMGP funds through NEMA/FEMA.



NORTH BEND CUTOFF DITCH

PROJECT EXPERIENCE

FYRA ENGINEERING

BIG PAPIO LEVEE CULVERTS - FINAL DESIGN AND CONSTRUCTION

DOUGLAS AND SARPY COUNTIES, NEBRASKA

FYRA Engineering was contracted for the final design and construction observation of 13 aging stormwater penetrations along the Big Papio Creek levees. After completing an alternatives analysis phase, FYRA met with the client to determine the desired design solutions for each penetration. It was determined that there would be three penetrations that would require full removal and replacement, six penetrations that would use a combination of remove/replace and sliplining culvert rehabilitation, three penetrations that would be rehabilitated with sliplining, and one penetration that would be abandoned in place. Two of the penetrations fell within federal channeled sections and all of the penetrations were part of the PL 84-99 program. This required coordination and design reviews from the Omaha District US Army Corps of Engineers. The project also required 408 and 404 approval from the USACE planning and regulatory divisions.

A hydrologic study was performed on each penetration to determine base flows for each area. Two of the sites used HEC-HMS to determine basin hydrology and timing. By using HEC-HMS and an unsteady state HEC-RAS model, FYRA was able to determine the precise timing of the flow and ensure that culverts were efficiently designed. Utilizing the unsteady state models not only saved the client significant material costs, but also ensured the local landowner that the proposed

culverts would pass flows as needed and would eliminate farm field flooding that had been a continual problem.

FYRA provided bid phase and construction observation services as part of this project. This allowed the client to ensure the project was constructed as intended and provided one point of contact.

CLIENT

Papio-Missouri River NRD
8901 South 154th Street
Omaha, Nebraska 68138
Mr. Marlin Petermann, PE
Mr. Martin Cleveland, PE
402.444.6222

PROJECT START July 2014

PROJECT COMPLETION July 17

PROJECT SIGNIFICANCE

This project shows FYRA's attention to detail during the alternatives analysis phase. This detailed analysis helps to develop the most cost-effective and long-term rehabilitation plan for each conduit. This project also showcases FYRA's understanding of design considerations for linear ditch projects.



NORTH BEND CUTOFF DITCH



PROJECT EXPERIENCE

FYRA ENGINEERING

WANAHOO DAM STILLING BASIN REHABILITATION PROJECT

SAUNDERS COUNTY, NEBRASKA

The Lake Wanahoo Dam stilling basin suffered damage in the 2019 flood including the removal of a portion of the stilling basin's end sill and the development of a large scour hole that has undermined the basin's existing concrete apron. This high hazard potential structure on the north side of Wahoo, Nebraska is owned and operated by the Lower Plate North NRD.

FYRA was hired in the fall of 2019 and has investigated the basin area using bathymetric surveying equipment and has utilized a local fire department's dive team to get an accurate depiction of what damage occurred underwater.

A spillway repair and improvement has been designed and the project is ready for fall 2020 construction. The inability to feasibly draw down water elevations significantly in the area has led to a design utilizing wet construction methods and materials.

This project is currently using approved FEMA Hazard Mitigation funds for implementation. FYRA has assisted the NRD with FEMA coordination and securing construction funds for the project.

CLIENT

Lower Platte North NRD
Tom Mountford
Assistant General Manager
511 Commercial Park Road
Wahoo, NE 68066
tmountford@lpnrd.org

PROJECT START October 2019

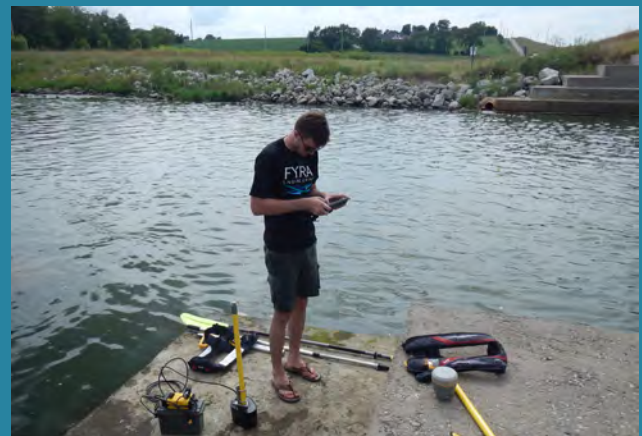
PROJECT COMPLETION Current

PROJECT SIGNIFICANCE

This project is currently using repair/mitigation funds through NEMA/FEMA and showcases FYRA's understanding of the funding process and how to maximize funds for the local sponsor.



NORTH BEND CUTOFF DITCH



PROJECT EXPERIENCE

FYRA ENGINEERING

CAMP ASHLAND FUSE PLUG LEVEE REPAIR

SAUNDERS COUNTY, NEBRASKA

The Camp Ashland fuse plug levee was removed during the 2019 flood as part of levee operations spelled out in a local agreement to reduce flood damage in the area.

The original USACE design was used to develop a set of construction documents that could be easily assembled and bid in short time. FYRA prepared those plans in less than two weeks. Construction was then bid immediately, and the project was under construction in less than three weeks.

This project utilized approved FEMA Disaster Recovery funds for the levee repair. FYRA has assisted the NRD with FEMA coordination and documentation of funds used through construction.

CLIENT

Lower Platte North NRD
Bob Heimann
Maintenance Supervisor
511 Commercial Park Road
Wahoo, NE 68066
bheimann@lpnnrd.org

PROJECT START September 2019

PROJECT COMPLETION December 2019

PROJECT SIGNIFICANCE

This project showcases FYRA's ability to accelerate a project schedule and meet the needs of a project funded with emergency funds from NEMA/FEMA for flood repair.



NORTH BEND CUTOFF DITCH



PROJECT EXPERIENCE

FYRA ENGINEERING

ELKHORN RIVER BANK REPAIR/MITIGATION PROJECT

DODGE COUNTY, NEBRASKA

The Elkhorn Riverbank near Scribner, Nebraska was severely damaged during the 2019 flood. An existing USACE Section 14 River Restoration project was flanked and the river shortcut it's downstream path around a bridge and over a highly traveled highway north and east of Scribner, NE.

FYRA was hired to design both a project repair to the USACE Section 14 project and mitigation measures to improve riverine hydraulics and develop a risk-based approach to improving the channel capacity and bank to handle more flow, but also pass future flood flows that exceed channel capacity in a more stable fashion.

The Lower Elkhorn NRD is partnering with the City of Scribner and the Dodge County Highway Department to plan improvements to the area that improve flood resiliency.

This project is pursuing FEMA Disaster Recovery and Hazard Mitigation funds for the riverbank repair and improvement. FYRA is assisting the NRD with FEMA coordination through the application process.

CLIENT

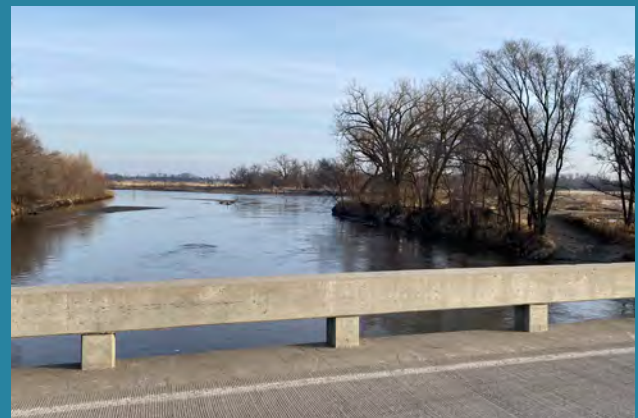
Lower Elkhorn NRD
Curt Becker
Projects Manager
1508 Square Turn Boulevard
Norfolk, NE 68701
cbecker@lenrd.org

PROJECT START March 2019

PROJECT COMPLETION Current

PROJECT SIGNIFICANCE

FYRA is currently working with the LENRD to maximize repair/mitigation for funding on this bank stabilization project.



NORTH BEND CUTOFF DITCH



PROJECT EXPERIENCE

FYRA ENGINEERING

NO NAME DIKE CULVERT REHABILITATION PROJECT PROJECT

DOUGLAS COUNTY, NEBRASKA

The Papio-Missouri River Natural Resources District (P-MRNRD) contracted FYRA Engineering for the design, permitting and construction observation of these 2 aging stormwater penetrations along the No Name Dike Levee System in Douglas County, Nebraska.

While performing maintenance work in the vicinity of these penetrations, the P-MRNRD noticed corrosion on the sides of the corrugated metal pipes. A video inspection was then performed on both penetrations which revealed large perforations throughout both pipes. FYRA performed an alternatives analysis for several non-invasive rehabilitation methods and a full removal and replacement. Non-invasive rehabilitation methods that were looked at included sliplining with SnapTite high density polyethylene (HDPE) pipe, placing a cured in place pipe (CIPP) liner, and coating the pipe with centrifugally cast concrete pipe (CCCP). The cost analysis revealed that CCCP rehabilitation would be the most economical. Because this levee system is enrolled in the PL 84-99 program, the USACE Omaha District Levee Safety Group performed a technical review of the project. Future USACE guidance on levee penetrations will only allow rehabilitation methods that include a liner pipe and grouting between the liner pipe and host pipe on penetrations that have areas of void in the pipe, so the USACE discouraged the use of the CCCP method. It was then decided that the best method of rehabilitation would be sliplining with SnapTite and grouting the annular space. Final design on this method was completed and the project went out for bid in late

Construction is expected to begin in August 2020. Due to the proximity of water at the inlet and outlet of the penetrations, continuous dewatering and coffer dam construction will be required prior to placing the liner. It is expected that there are several voids around the culverts and these voids will be grouted. Construction is expected to take 30 working days. FYRA Engineering will provide construction observation services as part of this project to ensure that the project is constructed as intended and will provide one point of contact between the contractor and the client. Preparation of weekly field reports, change applications, and pay applications will be part of these construction services.

CLIENT

Papio-Missouri River NRD
8901 South 154th Street
Omaha, Nebraska 68138
402.444.6222

Mr. Marlin Petermann, PE

Mr. Martin Cleveland, PE

PROJECT START December 2018

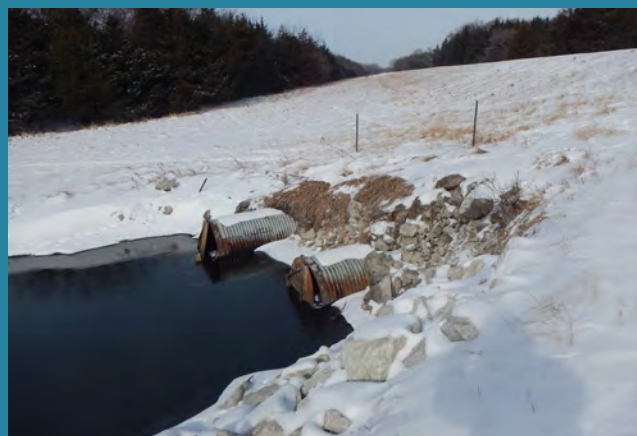
PROJECT COMPLETION Current

PROJECT SIGNIFICANCE

This project demonstrates FYRA's ability to evaluate multiple methods of rehabilitation to develop plans that are economical, non-invasive and approved by the USACE. This project further showcases FYRA's understanding of the design nuances of linear (ditch/levee) projects.



NORTH BEND CUTOFF DITCH



MICHAEL K. SOTAK, PE, D.WRE

FYRA ENGINEERING



EDUCATION

MASTERS OF BUSINESS
ADMINISTRATION - UNIVERSITY
OF NEBRASKA-LINCOLN (2001)

BS CIVIL ENGINEERING -
UNIVERSITY OF NEBRASKA-
LINCOLN (1992)

PROFESSIONAL REGISTRATIONS

DIPLOMATE, WATER RESOURCES
ENGINEER (D.WRE) FROM THE
AMERICAN ACADEMY OF WATER
RESOURCES ENGINEERS

PROFESSIONAL ENGINEER:
NEBRASKA (#E8759, 1997),
IOWA (#16681, 2003), KANSAS
(#17431, 2002), MISSOURI (PE-
2006031321, 2006, INACTIVE),
ARIZONA (#35258, 2000),
SOUTH DAKOTA (#13778, 2018),
NCEES (#21734, 2003)

AFFILIATIONS

SOCIETY OF AMERICAN MILITARY
ENGINEERS

AMERICAN SOCIETY OF CIVIL
ENGINEERS

AMERICAN COUNCIL OF
ENGINEERING COMPANIES

NATIONAL SOCIETY OF
PROFESSIONAL ENGINEERS

ASSOCIATION OF STATE DAM
SAFETY OFFICIALS

OMAHA SUBURBAN ROTARY

OMAHA ENGINEERS CLUB

LEADERSHIP OMAHA CLASS 25

Mike has 29 years of experience in water resources engineering, serving as a lead staff engineer and project manager for several projects. He has extensive experience on projects for natural resources districts including watershed planning, economic analyses, river restoration/bank stabilization and levee and dam design. He also has extensive grant writing and funding program identification experience. Mike's experience in watershed planning has been gained largely by bringing aged PL-566 and watershed improvement projects not implemented to current standards through cost and benefit updating related to design services and flood reduction and recreation economics.

Mike has led diverse teams of design and NEPA professionals through the project formulation, planning and design phases of all types of water resources projects including some of the more unique projects in the Midwest. He has served as the field, design and project manager on several structural watershed improvement projects and has personally been involved with the design and construction of over 100 dams since 1990. Lastly, he has rendered risk assessment studies in relation to the formation and implementation of Emergency Action Plans.

Finally, Mike brings a passion of preparing successful funding applications for projects, helping clients acquire tens of millions of dollars from Federal, State and other funding sources.

HONORS & AWARDS

American Consulting Engineers Council/Nebraska Grand Project Award – Campbell's Nursery Dam, 2006

WORK EXPERIENCE

FYRA Engineering | Omaha, Nebraska
July 2012 to Current • Principal Engineer/Owner

Tetra Tech | Omaha, Nebraska
January 2008 to June 2012 • Program Manager/Office Lead

Olsson Associates | Omaha, Nebraska
July 2001 to December 2007 • Project Engineer/Water Resources Group Leader

Olsson Associates | Phoenix, Arizona
July 2000 to July 2001 • Project Engineer/Office Manager

Olsson Associates | Omaha, Nebraska
July 1997 to July 2000 • Office Manager/Water Resources Group Leader

Olsson Associates | Lincoln, Nebraska
September 1990 to July 1997 • Assistant Engineer

RELEVANT PROJECT EXPERIENCE

LEVEES

MISSOURI RIVER FEDERAL LEVEE SYSTEMS R-613 AND R-616-613 LEVEE CERTIFICATION DESIGN AND PERMITTING • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • SARPY COUNTY, NE (2012-CURRENT)
Project manager and civil engineer of record for the final design of \$30M in levee improvements required for FEMA accreditation. The 18.2 miles of earthen levee system protects billions in local infrastructure and commerce. Proposed levee modifications include levee raises, closure section reconstruction at two locations, drainage penetration and flood gate structure updates/reconstruction, and seepage berm and relief well placement. The project requires a Major 408 permit which is being coordinated with the U.S. Army Corps of Engineers NWO levee safety team.

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BIG PAPIILLION CREEK LEVEE CULVERTS REPAIR - PHASES 1 AND 2 • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • DOUGLAS AND SARPY COUNTY, NE (2015-CURRENT) Civil engineer of record for the investigation and alternatives development for the repair of 29 aging levee penetrations within the Big Papillion Creek Levees. This project consisted of site investigations, utility research, evaluation of each penetration for invasive and non-invasive methods of rehabilitation, development of best cost solutions for each penetration and 404 permitting for each site. Project included a final recommendation report for P-MRNRD to be submitted to the USACE for review under the guidelines of the PL 84-99 program and section 408 permitting requirements.

INVESTIGATIVE PHASE FOR PAPIILLION LEVEE CERTIFICATION • CITY OF PAPIILLION • PAPIILLION, NE (2019) Quality control engineer for the investigative phase of the West Branch Papillion Creek levee certification project.

NORTH LAKE – PLATTE RIVER LEVEE INSPECTION • NORTH LAKE PARK ASSOCIATION • SARPY COUNTY, NE (2014) Project engineer for the levee inspection and recommendation report for North Lake's Platte River Levee. Project involved an intensive site investigation to locate all levee deficiencies and an in depth evaluation of both riverside and landside levee conditions. Prepared an in depth report detailing all observations at 35 different levee locations. Recommendations were made to North Lake Park Association to identify areas in need of immediate attention and long-term operation and maintenance items that should be implemented.

WHITETAIL LAKE LEVEE CERTIFICATION • WHITETAIL LAKE HOA • PLATTE COUNTY, NE (2009) Design engineer for the investigation and planning of levee improvements to meet FEMA accreditation needs for the ring levee along the Loup and Platte Rivers.

DAMS

LONG PINE CREEK WATERSHED PLAN • MIDDLE NIOBRARA NATURAL RESOURCES DISTRICT • BROWN COUNTY, NE (CURRENT) Mike will assist with overall project management functions, coordinate the WAC/TAT teams for the Community-Based Planning and provide overall quality control oversight.

RESTORATION OF THE WEST LAKE COMPLEX (LAKE OF THE HILLS) • PRELIMINARY AND FINAL DESIGN • SCOTT COUNTY CONSERVATION BOARD • SCOTT COUNTY, IA (CURRENT) Quality Control manager and designer for the small dam impoundments (water quality basins) and dam riser/outlet modifications to facilitate drainage and dredging within reservoir.

PAPIILLION CREEK WATERSHED REGIONAL DETENTION SITE WP 2 - PRELIMINARY DESIGN • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • SARPY COUNTY, NE (CURRENT) Project manager and civil engineer of record for the preliminary design of a rehabilitation of an existing dam site including hydrology and hydraulics, reservoir planning, dam layout, geotechnical engineering, permitting and utility relocations for a high hazard dam that is part of the Papillion Creek Watershed Management Plan. Responsible for client and agency coordination, design decisions and oversight of preliminary design documents.

DEADMANS RUN WEST TRIBUTARY/FLEMING FIELDS DETENTION BASIN • LOWER PLATTE SOUTH NATURAL RESOURCES DISTRICT • LINCOLN, NE (CURRENT) Mike served as the client and project manager for the project and performed overall design direction and quality control review of technical submittals.

LAKE WINNEBAGO DAM RELOCATION • RENAISSANCE INFRASTRUCTURE GROUP • CASS COUNTY, MO (CURRENT) Project manager for the investigation and economic analysis for relocating the existing dam at Lake Winnebago downstream to increase the size of the lake. Includes the review of available existing information and a refined hydraulic analysis of a gated dam to develop the lowest cost alternative for the project.

PAPIILLION CREEK WATERSHED REGIONAL DETENTION SITES WP 6&7 PLANNING AND FINAL DESIGN • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • SARPY COUNTY, NE (CURRENT) Project manager and civil engineer of record for the feasibility analysis, final design, permitting and construction of two high hazard dams and reservoirs as part of the Papillion Creek Watershed Management Plan. The project included dam and spillway design, fisheries structures, upstream water quality basins, and new/existing roadway design and improvements. Responsible for client and agency coordination, design decisions and oversight of construction documents.

PCWP FLOOD CONTROL ECONOMICS STUDY • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • DOUGLAS COUNTY, NE (CURRENT) Lead economist in study of economic impacts of multiple dams in Papillion Creek Watershed. Project economics included use of FEMA and GIS-based practices.

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PAPILLION CREEK WATERSHED HYDROLOGIC MODELING UPDATE • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • DOUGLAS AND SARPY COUNTIES, NE (CURRENT) Quality control reviewer for hydrometeorological study to update hydrologic modeling within the Papillion Creek Watershed and assess anticipated changes on levee systems, dam designs and resulting water surface elevations of the regulated floodplain.

SOUTHERN SARPY WATERSHED MANAGEMENT PLAN (WMP) • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • SARPY COUNTY, NE (CURRENT) Project management oversight and economics/financing for project.

OAK-MIDDLE & UPPER SALT 2015 DAM REHABILITATIONS • LOWER PLATTE SOUTH NATURAL RESOURCES DISTRICT • LANCASTER COUNTY, NE (2015) Project manager and lead designer for the rehabilitation of two spillways at NRCS-implemented watershed dam sites.

BIG SANDY CREEK RECONNAISSANCE STUDY • LITTLE BLUE NATURAL RESOURCES DISTRICT • NEAR DAVENPORT, NE (2013) Project manager for the investigation and economic analysis of a reconnaissance study for Davenport Dam. The study includes a technical feasibility analysis of site hydrology and dam hydraulics, and an economic assessment of the impacts of a proposed dam on local infrastructure, groundwater recharge, flood reductions and recreation benefits.

UPPER SALT CREEK WATERSHED REHABILITATION OF 10 AGING DAMS - DESIGN, PERMITTING AND CONSTRUCTION • LOWER PLATTE SOUTH NATURAL RESOURCES DISTRICT • LANCASTER COUNTY, NE (2012) Project manager for the investigation and feasibility study for the most cost effective method of rehabilitating the principal spillway for ten aging dams. This included field investigations, conceptual design and cost comparisons of alternative rehabilitation methods.

WEeping WATER CREEK WATERSHED SITE 8A DAM REHABILITATION • LOWER PLATTE SOUTH NATURAL RESOURCES DISTRICT • CASS COUNTY, NE (2012) Project manager and civil engineer of record for the investigation, design, permitting and construction of the rehabilitation of an aging dam structure including the renovation of the armored stilling basin and outlet channel.

FORT PECK RESERVOIR RISER CURTAIN DESIGN • UNITED STATES CORPS OF ENGINEERS, OMAHA DISTRICT • FORT PECK, MT (2012) Quality control reviewer for temperature control curtain planned for Fort Peck reservoir.

UPPER SALT CREEK WATERSHED REHABILITATION OF 10 AGING DAMS-FEASIBILITY REPORT • LOWER PLATTE SOUTH NATURAL RESOURCES DISTRICT • LANCASTER COUNTY, NE (2012) Project manager for the investigation and feasibility study for the most cost effective method of rehabilitating the principal spillway for ten aging dams. This included field investigations, conceptual design and cost comparisons of alternative rehabilitation methods.

WEeping WATER CREEK WATERSHED SITE 4J DAM REHABILITATION • LOWER PLATTE SOUTH NATURAL RESOURCES DISTRICT • CASS COUNTY, NE (2011) Project manager and civil engineer of record for the investigation, design, permitting and construction of the rehabilitation of an aging dam structure including the stabilization of the upstream wave attenuation berm and renovation of the armored stilling basin.

MILL CREEK WATERSHED SITE 5 DAM REHABILITATION • LOWER PLATTE SOUTH NATURAL RESOURCES DISTRICT • CASS COUNTY, NE (2010) Project manager and civil engineer of record for the investigation, design, permitting and construction of the rehabilitation of an aging road dam structure including the improvement to the internal drainage system to address seepage issues.

WEeping WATER CREEK WATERSHED FLOOD CONTROL STRUCTURES - PROJECT ECONOMICS • LOWER PLATTE SOUTH NATURAL RESOURCES DISTRICT • EASTERN NE (2008) Project manager for NEPA and engineering services provided to the Lower Platte South Natural Resources District (LPSNRD) Weeping Water Creek Watershed Project economics including 19 flood control structures. Provided breach risk assessment, flood reduction analysis, and analysis for recreation applications.

SAND CREEK DAM SITES • LOWER PLATTE NORTH NATURAL RESOURCES DISTRICT • NE (2008) Civil engineer for U.S. Army Corps of Engineers Sand Creek dam sites 2, 3, 6, 12, 13, 15, 16.

LAKE WANAHOO DAM DESIGN AND PERMITTING • LOWER PLATTE NORTH NATURAL RESOURCES DISTRICT • WANAHOO, NE (2008) Project manager and civil engineer of record for the design of a high hazard dam and reservoir, including the design of a roller compacted concrete auxiliary spillway. This was a multi-agency project that required management of several funding sources and coordination with Nebraska Department of Roads for the highway that was designed along the backside of the dam. Fisheries structures were

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designed for the reservoir to improve habitat and angler access.

SAND CREEK ENVIRONMENTAL RESTORATION PROJECT • UNITED STATES ARMY CORPS OF ENGINEERS • NEAR WAHOO, NE (2008) Project manager for U.S. Army Corps of Engineers Section 206 Program project that analyzed various land treatment, structural and non-structural measures to provide both flood control and pollutant reduction.

SILVER CREEK WATERSHED PROJECT • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • BURT COUNTY, NE (2008) Design engineer for dam design to provide flood control, sediment storage, and grade stabilization for Papio-Missouri River Natural Resources District (NRD), which included up design from class "C" to class "A" hazard classification.

LEIGH DAM • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • LEIGH, NE (2007) Project manager and civil engineer of record for a high hazard dam and reservoir near Leigh, Nebraska. Responsible for the investigation, design and permitting of the dam embankment and associated in-lake fisheries structures.

LAKE WANAHOO UTILITIES RELOCATION • UNITED STATES ARMY CORPS OF ENGINEERS, OMAHA DISTRICT • WAHOO, NE (2006) Design engineer for Lake Wanhoo Utilities Relocation (USACE Sand Creek Study), Wahoo, Nebraska. Site sanitary sewer connected through dam corridor via deep foundation alignment.

STEVENS CREEK WATERSHED DAM AND SKY RANCH SITES • LOWER PLATTE SOUTH NATURAL RESOURCES DISTRICT • NE (2005) Design engineer for LPSNRD Stevens Creek Watershed Dam Sites A2-1, A3-2, A5-A6-A7-A9-A9-6, A11-2, A17-1, and Sky Ranch sites. Ten high hazard sites designed for flood control and stream grade stabilization in developing watershed east of Lincoln, Nebraska.

CAMPBELL'S DAM ENGINEERING DESIGN • CAMPBELL'S NURSERY • LINCOLN, NE (2005) Design engineer for Campbell's Dam, in Lincoln. High hazard site designed in upscale neighborhood and incorporated first fuse-plug spillway in Nebraska.

WATERFORD ESTATES DAM • LINCOLN, NE (2004) Design engineer for Waterford Estates Dam in Lincoln, Nebraska. This high hazard site is redesign of Stevens Creek Sky Ranch site with the pool enlarged for private development.

GAEBEL DAM DESIGN • LOWER PLATTE SOUTH NATURAL RESOURCES DISTRICT • CASS COUNTY, NE (2004) Design engineer for Gaebel Dam in Cass County. High hazard site designed for rural flood control south of Louisville, Nebraska.

PAWNEE COUNTY LAKE - LARGE, MULTI-PURPOSE RESERVOIR STUDY • NEMAHA NATURAL RESOURCES DISTRICT • SOUTHEAST NE ON NE/KS STATE BORDER (2003) Project manager for large, multi-purpose reservoir study in southeast Nebraska. Responsible for providing flood control evaluation in Kansas, recreation analysis, potable water supply and economic stimulus analysis.

PIGEON-JONES CREEK WATERSHED STRUCTURE 15 DESIGN • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • DAKOTA COUNTY, NE (2003) Design engineer for P-MRNRD Pigeon-Jones Creek Watershed Structure 15 in Dakota County. Preliminary design of high hazard site was completed for funding through Nebraska Resources Development Fund.

PIGEON CREEK SITE 3 DESIGN • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • HUBBARD, NE (2003) Design engineer for P-MRNRD Pigeon Creek Site 3, Hubbard, Nebraska. High hazard site was designed for flood control through Hubbard, Nebraska and for possible private development around the lake.

RAIKES FLOOD CONTROL STRUCTURE DESIGN • RON RAIKES • ASHLAND, NE (2003) Design engineer for Raikes Flood Control Structure, Ashland, Nebraska. Site designed for rural flood control and cattle watering.

KC ROAD PARKWAY DAM ENGINEERING • CITY OF OLATHE • OLATHE, KS (2002) Design engineer for City of Olathe's KC Road Parkway Dam. Site designed to upgrade high hazard structure to meet current dam design criteria as part of park renovation and included R.C. spillway formed into limestone abutment.

SAND CREEK WATERSHED - WATERSHED-WIDE ENVIRONMENTAL RESTORATION PROJECT • U.S. ARMY CORPS OF ENGINEERS, OMAHA DISTRICT • EASTERN NE (2002) Provided non-dollar quantifiable assessment of restoration output units in ECO-EASY. Also provided evaluation of flood control, recreation and performed risk assessments.

MAPLE CREEK WATERSHED PROJECT FLOOD CONTROL EVALUATIONS • LOWER ELKHORN NATURAL RESOURCES DISTRICT • NORTHEAST NE (2001)

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Project manager for evaluations of 28 flood control structures in northeast Nebraska watershed originally proposed under PL-566. Provided evaluation of flood control, recreation and risk assessment.

JOHNSON COUNTY DETENTION STUDY • JOHNSON COUNTY, KS (2001) Project engineer for study of potential urban flood reduction benefits in Johnson County, Kansas.

ROAD DAM SITE 14AD-13-4 • LOWER PLATTE SOUTH NATURAL RESOURCES DISTRICT • BUTLER COUNTY, NE (1991) Design engineer for road dam site 14ad-13-4, Butler County, Nebraska, LPSNRD. Site was designed to provide flood protection in the watershed in lieu of replacing damaged county road bridge.

WEeping WATER CREEK WATERSHED DAM SITES DESIGN ENGINEERING • LOWER PLATTE SOUTH NATURAL RESOURCES DISTRICT • NE (2000) Design and field engineer for Weeping Water Creek Watershed Dam Sites 4f, 4j, 5h, 5k, 7g, 8a, 15b, 15g, 6b, 7c, 21a, 2a, 2l, 15l, 17d, 17l, and 19c, Lower Platte South NRD. Sites designed for rural flood control in Southeastern Nebraska watershed, providing recreation and flood control for several small towns.

UPPER LITTLE NEMAHA WATERSHED DAM SITES • NEMAHA NATURAL RESOURCES DISTRICT • NE (2000) Design engineer for Upper Little Nemaha Watershed Dam Sites 21, 23, 25, 31, 61, 42, 50, 63, Nemaha NRD. Sites designed for rural flood control in Southeastern Nebraska watershed.

WALNUT CREEK LAKE (FORMERLY PAPIO DAM SITE 21) • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • PAPHILLION, NE (1997) Project manager for economic, environmental (NEPA) and technical evaluations related to high-hazard, multi-purpose reservoir in Paphillion, Nebraska. Analysis included flood reduction, recreation and dam breach risk assessment.

SKULL CREEK DAM SITE ENGINEERING • LOWER PLATTE NORTH NATURAL RESOURCES DISTRICT • NE (1997) Design engineer for LPNDRD Skull Creek Dam Sites 30, 31 and 55. Watershed flood control project provided flood control and recreation benefits in Central Nebraska.

LAKE WANAHOO STUDY • LOWER PLATTE NORTH NATURAL RESOURCES DISTRICT • WAHOO, NE (1994) Project manager for evaluations of high-hazard, multi-purpose reservoir near Wahoo, Nebraska. Analysis included flood reduction, recreation application and risk assessment. Project design was completed within Environmental Impact Statement for project.

SKULL CREEK WATERSHED PROJECT EVALUATION • LOWER PLATTE NORTH NATURAL RESOURCES DISTRICT • EASTERN NE (1994) Project manager for four flood control and recreation structures in Eastern Nebraska originally proposed under PL-566. Provided evaluation of flood control, recreation, and associated risk assessments.

ROAD DAM SITES • LOWER PLATTE SOUTH NATURAL RESOURCES DISTRICT • CASS COUNTY, NE (1993) Design and field engineer for road dam sites 7, 12ba, 36cb, Cass County, LPSNRD. Sites provided flood control in lieu of replacing damaged county road bridges.

UPPER LITTLE NEMAHA WATERSHED PROJECT • NEMAHA NATURAL RESOURCES DISTRICT • SOUTHERN NE (1993) Project manager for economic, environmental (NEPA) and technical analysis of 21 flood control structures in southeastern Nebraska. Project included evaluations for flood reduction, recreation, and breach risk assessment.

STEVENS CREEK WATERSHED PROJECT - FLOOD CONTROL AND OPEN SPACE STUDY • LOWER PLATTE SOUTH NATURAL RESOURCES DISTRICT • LINCOLN, NE (1993) Project manager for study of flood control and open space in watershed east of Lincoln. Project involved flood control study, flood mitigation, and risk assessment.

RIVERS AND STREAMS

ELKHORN RIVER AT 240TH STREET BANK STABILIZATION DESIGN AND PERMITTING, LONG-TERM SOLUTION • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • SARPY COUNTY, NE (CURRENT) Project manager and civil engineer of record for the final design and permitting for bank stabilization of flood damages near 240th Street. The planned design will restore a historic channel of the Elkhorn River, providing backwater habitat for the Pallid Sturgeon, while diverting channel energy away from the 240th Street corridor and its related infrastructure. Currently developing the 404 individual permit application and submission package.

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WAHOO CREEK WATERSHED PLAN-ENVIRONMENTAL ASSESSMENT • LOWER PLATTE NORTH NATURAL RESOURCES DISTRICT • WAHOO, NE (CURRENT) Project manager, taking the lead role in the preparation of multiple funding applications for the Wahoo Creek Watershed Plan-EA. This included the NRCS Regional Conservation Partnership Program (RCPP) and Natural Resources Commission Water Sustainability Fund (WSF) funding applications for planning, design, and construction of two dam sites (Sites 26 and 27) that were identified in the 1998 Wahoo Creek Watershed Plan-EIS (Plan-EIS). Outside funding also included an NRCS Watershed and Flood Prevention Operations (WFPO) grant for the planning and design of eight additional dam sites included in the 1998 Plan-EIS. Collectively, nearly \$15M was awarded to this project. FYRA's economic analysis included flood damage reduction benefits, recreation benefits and land value improvement benefits to compare against the project costs.

PAPIO-MISSOURI RIVER BASIN WATER QUALITY MANAGEMENT PLAN • NORTHEAST NEBRASKA • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT (CURRENT) Quality Reviewer for developing a basin-wide water quality management plan that adheres to the EPA's nine elements for watershed planning for the area that drains to the waterbodies located within the Papio-Missouri River NRD's boundaries. This includes data assessment and analysis for modeling pollutant loads and developing management solutions for the basin, as well planning components prioritization, implementation and public outreach. Stakeholder coordination and public outreach efforts were performed and all planning efforts were coordinated with the Nebraska Department of Environmental Quality to ensure the plan qualifies for their Section 319 Funding Program.

STANDING BEAR BOAT RAMP IMPROVEMENT • NEBRASKA GAME AND PARKS • NE (CURRENT) Quality control review of boat ramp, access parking lot modification, rock jetty and localized dredging.

PONCA STATE PARK BOAT RAMPS • NEBRASKA GAME AND PARKS • NE (2014) Quality control reviewer.

MULBERRY BEND BOAT RAMP • NEBRASKA GAME AND PARKS • NE (2014) Quality control reviewer.

ELKHORN RIVER IPA BANK STABILIZATION CONSTRUCTION SERVICES • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • DOUGLAS COUNTY, NE (2012) Project manager and civil engineer of record for \$1.3M in construction of bank stabilization for 2010 Elkhorn River flood damages through the five mile stretch of the Improvement Project Area (IPA). Project challenges during construction included contractor access for working within the river corridor and permitting constraints.

ELKHORN RIVER AT WATERLOO BANK STABILIZATION REVIEW • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • WATERLOO, NE (2012) Review engineer for bank stabilization measures designed for the Elkhorn River near Waterloo, Nebraska.

2011 MISSOURI RIVER HIGH WATER MARKS • UNITED STATES CORPS OF ENGINEERS, OMAHA DISTRICT • MISSOURI RIVER VALLEY, NE (2012) Quality control reviewer for post-2011 flood high water marks surveyed, set and recorded along Missouri River from mouth to headwaters.

ELKHORN RIVER IPA BANK STABILIZATION DESIGN AND PERMITTING • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • DOUGLAS COUNTY, NE (2012) Project manager and civil engineer of record for the investigation, design and permitting for bank stabilization of 2010 Elkhorn River flood damages through the five mile stretch of the Improvement Project Area (IPA). This included developing construction plans and specifications for 13 locations identified as needing immediate attention during the investigation phase. A 404 nationwide permit was obtained for the majority of the work and a Regional General Permit 11-02 was obtained for one stabilization site.

ELKHORN RIVER AT 240TH STREET BANK STABILIZATION DESIGN, PERMITTING AND CONSTRUCTION - SHORT TERM SOLUTION • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • SARPY COUNTY, NE (2012) Project manager and civil engineer of record for the design and permitting of flood damaged bankline near 240th Street that needs immediate attention. A short-term solution was developed to qualify for a 404 nationwide permit that would provide interim protection, while the long-term solution is designed and permitted. Construction plans and specifications were developed, the 404 nationwide permit was obtained and construction oversight was provided during implementation.

DEADMANS RUN CHANNEL IMPROVEMENTS PROJECT • LOWER PLATTE SOUTH NATURAL RESOURCES DISTRICT • NE (1993) Field engineer for Lower Platte South NRD Deadman's Run Channel Improvements. Channel armoring provided erosion protection for channel through developed Lincoln, Nebraska.

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LAKES/WATER QUALITY

WEST LAKE (LAKE OF THE HILLS) • SCOTT COUNTY CONSERVATION BOARD - IOWA DEPARTMENT OF NATURAL RESOURCES • DAVENPORT, IOWA (CURRENT) Lead Quality Control Reviewer for all watershed and in-lake design components, construction specifications, and cost estimates. Review focused on proposed dredging and sediment storage operations, shoreline erosion and improvement alternatives, and assessment of feasibility/constructability of all design features.

NPPD SUTHERLAND CANAL • NEBRASKA PUBLIC POWER DISTRICT • NE (CURRENT) Quality control reviewer.

STORM LAKE DREDGING ENHANCEMENT • CITY OF STORM LAKE • STORM LAKE, IA (CURRENT) Principal engineer and contributing author.

CARTER LAKE WATER QUALITY IMPROVEMENTS CONSTRUCTION SERVICES • METROPOLITAN AREA PLANNING AGENCY • CARTER LAKE, IA AND OMAHA, NE (2013) Project manager for \$3.5M construction project which implemented in-lake management practices focusing on nutrient reduction of 320-acre Carter Lake. Includes shoreline stabilization, detention basin construction, hydraulic dredging and spoils disposal. In-water construction and complex water budget issues added to the project complexity. The project utilized six funding sources and required coordination and involvement with thirteen stakeholder agencies/organizations.

SUNDOWN LAKE DREDGING - PRELIMINARY AND FINAL DESIGN • SUNDOWN LAKE RECREATION IMPROVEMENT ZONE BOARD • MORAVIA, IA (CURRENT) Designer for preliminary and final design of modifications to an existing dam structure to serve as a settling basin for a dredging project within the reservoir.

RESTORATION OF THE WEST LAKE COMPLEX (LAKE OF THE HILLS) • PRELIMINARY AND FINAL DESIGN • SCOTT COUNTY CONSERVATION BOARD • SCOTT COUNTY, IA (CURRENT) Quality Control manager and designer for the small dam impoundments (water quality basins) and dam riser/outlet modifications to facilitate drainage and dredging within reservoir.

LAKE MANAWA WATER QUALITY IMPROVEMENTS PROJECT • IOWA DEPARTMENT OF NATURAL RESOURCES • COUNCIL BLUFFS, IA (CURRENT) Principal engineer responsible for project coordination, dredging design and final implementation. Led the community-based planning component for the water quality improvements. Performed coordination with project stakeholders to determine feasibility and preferred management alternatives.

BLAIR SOUTH/PLACID POND, WASHINGTON COUNTY, NE (CURRENT) Principal engineer responsible for the coordination and oversight of a drainage study analyzing streambank incision and erosion encroaching upon the newly constructed Highway 30. A HEC-HMS analysis was completed to determine discharge to the area for various events and various alternatives were analyzed to determine possible solutions to the area. Alternatives included analysis of a detention structure with a broke-back culvert outlet and associated energy dissipators, stream bank stabilization using sheet pile, and creating a channel to divert flows through the property and then discharge through a series of drop structures in the existing stream. Project included wetland delineation and coordination with the USACE regulatory group.

FIVE ISLAND LAKE RESTORATION - WATERSHED MANAGEMENT PLAN AND PRELIMINARY DESIGN • EMMETSBURG, IOWA (2018) Lead designer for lake outlet modification to facilitate improved hydraulic performance and lake drawdown for dredging and other water quality improvements.

LAKE MITCHELL RESTORATION PROJECT • CITY OF MITCHELL • MITCHELL, SOUTH DAKOTA (2018) Project engineer for employing the Seven Steps of Lake Management and developing the water quality management plan to improve the water quality at Lake Mitchell. Project included development of a water budget and nutrient mass balance model and the lake response model and community-based planning efforts and development of preferred management practices.

LITTLE BLUE WATER QUALITY MANAGEMENT PLAN EA • LITTLE BLUE NATURAL RESOURCES DISTRICT (2015) Contributing engineer, reservoir design and recharge. Responsible for assessing an array of options for water quantity improvements in the Little Blue River watershed including groundwater recharge, flow augmentation and floodplain/wetland storage of channel flows. Project costs and environmental impacts were assessed at a reconnaissance level.

CUB CREEK 12A RESERVOIR RENOVATION • LAKETECH • BEATRICE, NE (2015) Quality control engineer for reservoir renovation.

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CITY OF OMAHA AND P-MRNRD BASIN WATER QUALITY MANAGEMENT PLAN • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • NE (2015) Quality reviewer.

GINGER COVE LAWSUIT • GINGER COVE • DOUGLAS COUNTY, NE (2015) Principal engineer.

BATHYMETRIC SURVEYS • LITTLE BLUE NATURAL RESOURCES DISTRICT (2015) Quality control reviewer.

RIVERSIDE ALUM INJECTION AND NB STUDY • RIVERSIDE LAKES • WATERLOO, NE (2014) Quality control reviewer.

CARTER LAKE WATER QUALITY IMPROVEMENTS FINAL DESIGN AND PERMITTING • METROPOLITAN AREA PLANNING AGENCY • CARTER LAKE, IA, AND OMAHA, NE (2012) Project manager and civil engineer of record that performed the design and permitting of best management practices to improve the water quality in Carter Lake. This included features such as shoreline stabilization, wetland creation, wet detention basins and dredging. Developed construction plans, specification and bid tabulations, and obtained the necessary 404 nationwide permit for the construction activities.

CARTER LAKE WATERSHED MANAGEMENT AND FINAL ALTERNATIVES ANALYSIS • METROPOLITAN AREA PLANNING AGENCY • CARTER LAKE, IA, AND OMAHA, NE (2009) Project manager for developing the watershed management plan to improve the water quality Carter Lake in order to remove it from the 303(d) list of impaired waters. Assessed the cost effectiveness and site specific feasibility of watershed and in-lake best management practices to reduce the pollutant loading to the lake. Determined the most cost effective combination of alternatives to reach the water quality goals and take into final design and construction.

LAKE MANAWA DIAGNOSTIC AND FEASIBILITY STUDY • IOWA DEPARTMENT OF NATURAL RESOURCES • COUNCIL BLUFFS, IA (2008) Project manager for development of diagnostic and feasibility study for Lake Manawa to improve water quality including a major dredging project and the implementation of watershed better management practices to improve water quality.

CUNNINGHAM LAKE AQUATIC HABITAT IMPROVEMENT PROJECT DESIGN, PERMITTING AND CONSTRUCTION • NEBRASKA GAME AND PARKS COMMISSION • OMAHA, NE (2006) Project manager for Nebraska Game and Parks Commission Cunningham Lake Aquatic Habitat Improvement Project. Project provided riser modification, habitat enhancement, in-lake shoreline erosion control, fishery enhancements and dredging to improve water quality.

CUNNINGHAM LAKE LAND USE ANALYSIS PROJECT • CITY OF OMAHA • OMAHA, NE (2005) Project manager for City of Omaha Cunningham Lake Land Use Analysis Project. Project created overlay district to help guide the appropriate BMPs for watershed development to help protect water quality work recently performed in Cunningham Lake.

STORMWATER

SADDLE HILLS DEMONSTRATION – 2 • CITY OF OMAHA • OMAHA, NE (2015) Quality control reviewer of construction documents.

OAKBROOK CHANNEL CULVERT STUDY • CITY OF OMAHA • OMAHA, NE (2015) Project manager and principal design engineer.

REAMS STORMWATER SYSTEM INSPECTIONS 2014 AND 2015 • REAMS ENTERPRISES • OMAHA, NE (2014 & 2015) Quality control reviewer.

BLAIR HAZARD MITIGATION GRANT • CITY OF BLAIR • BLAIR, NE (2015) Quality control reviewer.

SADDLE HILLS GRANT APPLICATION • CITY OF OMAHA • OMAHA, NE (2014) Quality control reviewer.

26TH & CORBY NEIGHBORHOOD COMBINED SEWER SEPARATION STUDY AND DESIGN • CITY OF OMAHA • OMAHA, NE (2012) Stormwater design engineer for the investigation, modeling and design of the partial separation of the combined sewers in the neighborhood.

RAVEN OAKS STORM DRAINAGE IMPROVEMENTS • CITY OF OMAHA • OMAHA, NE (2001) Design engineer for City of Omaha Raven Oaks Storm Drainage Improvements. The residential storm sewer improvement project addressed some localized drainage problems and a few safety issues related to overland flow of stormwater runoff.

MICHAEL K. SOTAK, PE, D.WRE

OWNER-PRINCIPAL ENGINEER

OTHER

MISSOURI RIVER FEDERAL LEVEES R-613/616-613 LEVEE CERTIFICATION WSF APPLICATION • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • BELLEVUE, NE (2015) Primary author and principal engineer.

PAPILLION CREEK WATERSHED DAMS WP-6&7 WSF APPLICATION • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • SARPY COUNTY, NE (2015) Primary author and principal engineer.

NEBRASKA WATER FUNDING TASK FORCE (LB517) FACILITATION AND CONSULTATION • STATE OF NEBRASKA - NEBRASKA STATE LEGISLATURE IN ACCORDANCE WITH 2013 LEGISLATIVE BILL 517 • NE (2013) Consultant team member responsible for the development of ranking and weighting criteria for the proposed Water Sustainability Fund, given input from the Task Force. Other responsibilities included the organization of current sustainability-themed projects throughout Nebraska from which the annual program funding level was set.

CARTER LAKE WELL DESIGN AND PERMITTING • CITY OF OMAHA • OMAHA, NE (2010) Civil engineer of record for the planning and design of the supplemental supply well and delivery system to Carter Lake.

MAPPING AND DATA MANAGEMENT FOR MASTER PLAN • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • OMAHA, NE (1998) Provided mapping services and database management, Papio-Missouri River NRD 10-year Master Plan.

PRESENTATIONS

Sotak, Michael K. 2007. Space Saving Fuse Plug Spillway in Lincoln, Nebraska. In: Association of State Dam Safety Officials 2007 West Regional Technical Seminar; Omaha, Nebraska.

Sotak, Michael K. 2007. Surprise! You Own a High Hazard Dam In: Kansas Dam Safety Seminar 2007; Wichita, Kansas.

Sotak, Michael K. 2007. Fuse Plug Auxiliary Spillway In: Kansas Dam Safety Seminar 2007; Wichita, Kansas.

Sotak, Michael K. 2009. Lake Manawa Geophysical Investigation In: Kansas Dam Safety Seminar 2009; Lawrence, Kansas.

Sotak, Michael K. 2010. A Unique Approach to Investigating Levees – A Toolbox Approach In: American Society of Professional Floodplain Managers (ASFPM) National Conference, Oklahoma City, Oklahoma.

Sotak, Michael K. 2012. Geophysical Investigations for Levee Systems – Killing Several Birds with One Stone In: United States Society on Dams (USSD) National Conference.

Sotak, Michael K. 2013. Sliplining vs. Cut & Cover Spillway Rehabilitation – Lessons Learned. Association of State Dam Safety Officials National Conference, Providence, Rhode Island.

Sotak, Michael K. 2015. Rehabilitating CMP Pipes with HDPE. American Public Works Association – Eastern Nebraska Spring Conference, Omaha, Nebraska.

Sotak, Michael K. 2017. The Conjunctive Management Analysis Tool (CMAT) - Gaining Confidence on Your NRD's Water Use - Nebraska Association of Resources Districts Legislative Conference, Lincoln, Nebraska.

Sotak, Michael K. 2017. Papillion Creek Hydrology Updates - Nebraska APWA Spring Conference.

REFERENCES

Marlin Petermann, P-MRNRD, 402.444.6222

Paul Zillig, General Manager, Lower Platte South NRD, 402.476.2729

George Antoniou, Iowa DNR, 515.725.8449

BOB GREGALUNAS, PE

OWNER-PROJECT ENGINEER



EDUCATION

BS CIVIL ENGINEERING -
UNIVERSITY OF NEBRASKA-
LINCOLN (2005)

REGISTRATIONS

PROFESSIONAL ENGINEER:
NEBRASKA (#E13416, 2010)

AFFILIATIONS

NEBRASKA FLOODPLAIN AND
STORMWATER MANAGERS
ASSOCIATION

SOFTWARE

ARCGIS
HEC-HMS
HEC-RAS (1D AND 2D)
GEOSTUDIO
SLOPE/W
SEEP/W
HEC-SSP
HEC-FDA
SMS
SRH2D
RIVERFLO-2D
SITES

Bob has over 15 years of experience on watershed development projects, hydrologic and hydraulic investigations, joint probability assessments, dam design, canal inspections, levee design and stormwater management. Bob has worked on some of the most complex hydrologic and hydraulic water resources projects in the state of Nebraska and has an unparalleled understanding of project modeling. He has used his exceptional modeling expertise to investigate and modify basin hydrology, analyze some of the most complex riverine systems in the area, guide alternatives development, support project permitting requests, develop project economics to support project funding and implementation, and analyze floodplains and floodway extents. Bob has also developed his own models and programs which have been used to assist clients and the public to better understand system responses to changes in hydrology and/or hydraulics.

Most recently, Bob has completed a risk and reliability analysis utilizing HEC-FDA for Federal Levee System R-613/R-616-613, performed a two-dimensional river analysis on the Elkhorn River Bank Stabilization Project, and utilized HEC-HMS and HEC-RAS (steady and unsteady state) to assist with the alternatives analysis of drainage structure sizing for the Papio-Missouri River NRD. He is also working with new hydrometeorological methods to develop a more accurate hydrologic model that will be used for floodplain mapping in the Papillion Creek basin.

Bob is also well versed in stochastic modeling applications which allow his clients to make intelligent, risk-based decisions about project design functions. Collectively, Bob's talents have led to significant savings for his clients and reliable projects that stand the test of time.

WORK EXPERIENCE

FYRA Engineering, Omaha, Nebraska
July 2012 to Current • Project Engineer/Owner

Tetra Tech, Omaha, Nebraska
January 2008 to June 2012 • Program Manager/Office Lead

Tetra Tech, Omaha, Nebraska
April 2008 to June 2012 • Engineer in Training/Project Engineer

Olsson Associates, Omaha, Nebraska
December 2005 to March 2008 • Engineer in Training

RELEVANT PROJECT EXPERIENCE

MODELING

INDIAN CREEK HYDROLOGIC AND HYDRAULIC STUDY • HGM ASSOCIATES • LINN COUNTY, IA (2020)
Responsible for review of H&H modeling for Indian Creek in Council Bluffs, Iowa. The Project found significant modeling discrepancies from as-built conditions that severely impacted modeled performance. The Project is currently moving forward as a LOMR filing to correct these issues. The Project will ultimately remove 70% of mapped parcels from the floodplain.

180TH AND GILES HYDROLOGIC AND HYDRAULIC STUDY • SARPY COUNTY PUBLIC WORKS DEPARTMENT • SARPY COUNTY, NE (2016)
Responsible for assisting project engineer with a H&H study and evaluation of an existing culvert at 180th and Giles and alternatives analysis to prevent future road overtopping of 180th Street. Responsible for initial site assessment and site survey, set up of preliminary hydrologic model utilizing HEC-HMS, development of project hydrology and tailwater elevations from the South Papillion Creek, set up of a hydraulic model utilizing HEC-

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RAS, assessment of existing culverts and project alternatives with HY8, and preliminary project report.

NPPD SUTHERLAND CANAL • NEBRASKA PUBLIC POWER DISTRICT • LINCOLN COUNTY, NE (2016) Project engineer for the investigation of hydraulics and biological impact on the loss of conveyance capacity in the canal, as well as the source of aquatic plant life that must be disposed of at John A Gentleman power plant. A site investigation was performed, as well as reviews of hydraulic modeling and baseline geomorphological assessment. FYRA provided sediment removal extents based on hydraulic performance and expected sediment mobility.

PAPILLION CREEK HYDROLOGY UPDATE • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • SARPY AND DOUGLAS COUNTIES, NE (CURRENT) Responsible for the review and update of hydrologic models used by FEMA for remapping efforts in Sarpy and Douglas Counties and determination of storm-size that was utilized in the HEC-HMS hydrologic model. Calibrated the hydrologic model to past storm events and updated the hydraulic analysis of Big Papillion Creek utilizing an unsteady-state model in HEC-RAS.

SOUTHERN SARPY WATERSHED MANAGEMENT PLAN • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • SARPY COUNTY, NE (CURRENT) Project engineer working on a watershed management plan for southern Sarpy County. The multiphase project has included hydrologic and hydraulic (H&H) analyses for existing and future conditions, stream stability assessments and outlooks, as well as preliminary policies, plans, and actions for future inclusion in the Watershed Management Plan. Future phases will include finalization of the plan as well as more detailed, FEMA-compliant H&H analysis/mapping, and detailed stream stability work to assess project needs as development pressures increase.

PAPILLION CREEK SUPPLEMENTAL WATERSHED WORK PLAN-EA • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • PAPILLION, NE (CURRENT) Project engineer working on an update for an outdated NRCS plan to construct seven watershed structures to control stream grade degradation in the Papillion Creek Watershed. Work has included preliminary hydrologic and hydraulic analyses, structure design concepts and field work to ascertain stream stability and project needs. Future work will include updating of the WFPO plan document for submission to NRCS to attain federal funding for the construction of the seven watershed projects.

PLATTE RIVER MODELING • PAPIO-MISSOURI RIVER NRD • SARPY COUNTY, NE (CURRENT) Due to changes within the Platte River floodplain, the existing hydraulic model was deemed too inaccurate to estimate flood elevations. In an effort to improve upon the existing modeling, a 2-D HEC-RAS model was assembled along the lower Platte River to support the R-613 Levee Certification project. The 2-D hydraulic model took into account the dramatic effects of the mobile bed of the Platte River in an effort to calibrate the modeling of the largest event on record. Mobilized bed depths of up to 18-feet were found along several constrictions in the river alignment. The calibrated modeling assisted the creating of a steady-state 1-D HEC-RAS model through simplification of the complex ineffective areas as well as guiding the Manning's adjustments. Resulting base flood elevations were lowered by up to 1.4 feet over the steady state model with better calibration results.

LEVEES/CANALS

INVESTIGATIVE PHASE FOR PAPILLION LEVEE CERTIFICATION • CITY OF PAPILLION • SARPY COUNTY, NE (CURRENT) Prepared a levee analysis with updated hydrologic and hydraulic data to determine the most cost effective alternatives that would allow for future levee certification and accreditation by FEMA. The investigative phase included a full-site investigation including wetland delineations, ordinary high water mark determinations and stream assessments in culvert locations that may be modified. Bridge modifications were assessed to determine if improved hydraulics would lower improvement costs. Oversaw a full geotechnical investigation with laboratory testing and slope stability, seepage and settlement analysis.

MISSOURI RIVER FEDERAL LEVEE SYSTEMS R-613 AND R-616-613 • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • SARPY COUNTY, NE (CURRENT) Completed an economic analysis for the levee modifications supporting an application for EDA grant request. HEC-HMS was used to investigate the possibility of a new pumping station. Completed an interior drainage analysis required for FEMA accreditation using HEC-HMS. Performed hydrologic and hydraulic modeling for the interior drainage analysis to determine flooding impacts on the landside of the levees system at each drainage penetration using HEC-HMS and HEC-RAS models. HEC-SSP was utilized for an updated hydrologic study on the lower Platte River incorporating a joint-probability assessment at the Missouri/Platte River confluence. Performed a risk and reliability assessment on all three rivers systems using

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HEC-FDA to analyze possible impacts due to the project construction.

NORTH LAKE – PLATTE RIVER LEVEE INSPECTION • NORTH LAKE PARK ASSOCIATION • CASS COUNTY, NE (2014) Civil engineer for the levee inspection and recommendation report for North Lake's Platte River Levee. Project involved an intensive site investigation to locate all levee deficiencies and an in depth evaluation of both riverside and landside levee conditions. Final deliverable included a recommendation report for North Lake Park Association to identify areas in need of immediate attention and long term operation and maintenance items that should be implemented. These recommendations included of riverside slope stabilization methods, landside (lake side) shore protection and slope stabilization, vegetation removal and monitoring, rodent extermination, and filling of rodent holes with cementitious grout.

CANAL INSPECTIONS • UNITED STATES BUREAU OF RECLAMATION • STATEWIDE WASHINGTON (2010) Staff engineer performing field inspections of existing U.S. Bureau of Reclamation canals in Washington State. Field inspections included lined and unlined canal sections walkthroughs to document potential integrity issues of the canal prism due to scour/sedimentation, sloughing/slope failure, concrete panel failure, vegetation, and seepage.

PAPILLION CREEK WATERSHED REGIONAL DETENTION SITE WP 6 & WP 7 – FINAL DESIGN • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • SARPY COUNTY, NE (CURRENT) Project engineer for the feasibility analysis and final design of two high hazard dams and reservoirs as part of the Papillion Creek Watershed Management Plan. The project included dam and spillway design, fisheries structures, upstream water quality basins, and new/existing roadway design and improvements. Responsible for H&H analysis and Geotech oversight.

DAMS

LONG PINE CREEK WATERSHED PLAN • MIDDLE NIOBRARA NATURAL RESOURCES DISTRICT • BROWN COUNTY, NE (CURRENT) Project engineer working on the hydrologic, hydraulic and stream stability aspects of the WFPO plan. These considerations include geomorphologic understanding of the area streams, flood frequency studies, meteorological trend analysis of stream flow rates, ecological implications of changing stream geometry and flow frequency, and infrastructure risk assessment.

PAPILLION CREEK WATERSHED REGIONAL DETENTION SITE WP2 - PRELIMINARY DESIGN • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • SARPY COUNTY, NE (CURRENT) Project engineer for the preliminary design and final geotechnical design of a regional detention structure within the Papillion Creek watershed. The project has included hydrologic and hydraulic analysis utilizing the latest meteorological guidance developed during the Papillion Creek DFIRM remapping project to establish design elevations and structure sizing. Geotechnical investigation included a full-site study of a unique site with a large scale glacial sand deposit beneath the dam foundation.

PAPILLION CREEK WATERSHED REGIONAL DETENTION SITE WP 6 & WP 7 – FINAL DESIGN • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • SARPY COUNTY, NE (CURRENT) Project engineer for the feasibility analysis and final design of two high hazard dams and reservoirs as part of the Papillion Creek Watershed Management Plan. The project included dam and spillway design, fisheries structures, upstream water quality basins, and new/existing roadway design and improvements. Responsible for H&H analysis and Geotech oversight.

LAKE WINNEBAGO DAM RELOCATION • RENAISSANCE INFRASTRUCTURE GROUP • CASS COUNTY, MO (2014) Project engineer for the investigation and economic analysis for relocating the existing dam at Lake Winnebago downstream to increase the size of the lake. Includes the review of available existing information and a refined hydraulic analysis of a gated dam to develop the lowest cost alternative for the project.

BIG SANDY CREEK RECONNAISSANCE STUDY • LITTLE BLUE NATURAL RESOURCES DISTRICT • NEAR DAVENPORT, NE (2013) Project engineer for the investigation and economic analysis of a reconnaissance study for Davenport Dam. Includes the review of existing information, updating hydrology and hydraulic analyses using HEC-RAS/HEC-HMS, compute control elevations for dam design using SITES, water budget including groundwater recharge, computation of groundwater recharge benefits, and development of cost-benefit analysis.

FORKVIEW DAM BREACH ANALYSIS • NORTH AMERICAN COAL • WOOD COUNTY, TX (2010) Project engineer for dam breach analysis of Forkview Dam for inclusion in required Emergency Action Plan. HEC-HMS was used to develop the flood hydrograph and simulate the dam breach. An iterative approach was taken with HEC-RAS/HEC-HMS to tune the breach parameters to

BOB GREGALUNAS, PE

OWNER-PROJECT ENGINEER

downstream controlling hydraulic conditions.

SAND CREEK RESTORATION PROJECT - SEVEN UPSTREAM SITES • LOWER PLATTE NORTH NATURAL RESOURCES DISTRICT • SAUNDERS COUNTY, NE (2008) Project engineer for a comparative study of NRCS to USACE design criteria for seven water quality reservoirs upstream of Lake Wanahoo. Project included dam design, dam breach analysis, unsteady hydraulic modeling, and risk and uncertainty assessment.

RIVERS/STREAMS

ELKHORN RIVER AT 240TH STREET BANK STABILIZATION DESIGN AND PERMITTING, LONG-TERM SOLUTION • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • SARPY COUNTY, NE (2015-2020) Project engineer performing 1-D and 2-D hydraulic modeling for stream stability work along the Elkhorn River. HEC-RAS and SMS (SRH2D) were utilized to model proposed alternatives for stabilizing a significantly altered bend of the Elkhorn River through creation of a cut-off channel.

HIGHWAY 137 BRIDGE REPAIR • NEBRASKA DEPARTMENT OF TRANSPORTATION • NEWPORT, NE (CURRENT) Project Engineer overseeing the design of an emergency repair along the Niobrara River at HWY 137. During the March 2019 flood event, significant damage was caused to an existing slope stability project along a bridge abutment. The project fixes this damage and has been robustly designed to withstand a flood of similar severity.

PONCA STATE PARK AND MULBERRY BEND BOAT RAMPS • NEBRASKA GAME AND PARKS • DIXON AND DAKOTA COUNTIES, NE (2018) Project engineer performing statistical analysis on the Missouri River to establish stage-probability relationships in non-gauged areas. The relationships were used as a decision-making tool in designing new boat ramps that could provide better site access in times of low water. The analysis included long-term degradation trends in the Missouri River channel due to the loss of upstream sediment sources.

MISSOURI RIVER FEDERAL LEVEE SYSTEMS R-613 AND R-616-613 LEVEE CERTIFICATION DESIGN AND PERMITTING • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • SARPY COUNTY, NE (CURRENT) Completed an economic analysis for the levee modifications supporting an application for EDA grant request. HEC-HMS was used to investigate the possibility of a new pumping station. Completed an interior drainage analysis required for FEMA accreditation using HEC-HMS.

NDOT EMERGENCY SITES #5 AND #12 • NEBRASKA DEPARTMENT OF TRANSPORTATION • NORTHEAST, NE (2019) FYRA Engineering was selected to assist with emergency stream stability work at two sites in northeast Nebraska. Following significant rainfall events, several sites developed issues ranging from bank erosion and migration, to failure of an existing grade control structure, which threatened a highway bridge. Working with NDOT, FYRA quickly designed simple structures to combat bank erosion, as well as several options to replace a failed grade control structure. While each site had challenges, the grade control structure was unique due to the inability to dewater the site and large scour hole that had formed with the previous structure's failure. The rapid turnaround allowed the projects to be submitted for emergency funding with FHWA and are currently under construction.

PLATTE RIVER MODELING • PAPIO-MISSOURI RIVER NRD • SARPY COUNTY, NE (2018) Due to changes within the Platte River floodplain, the existing hydraulic model was deemed too inaccurate to estimate flood elevations. In an effort to improve upon the existing modeling, a 2-D HEC-RAS model was assembled along the lower Platte River to support the R-613 Levee Certification project. The 2-D hydraulic model took into account the dramatic effects of the mobile bed of the Platte River in an effort to calibrate the modeling of the largest event on record. Mobilized bed depths of up to 18-feet were found along several constrictions in the river alignment. The calibrated modeling assisted the creating of a steady-state 1-D HEC-RAS model through simplification of the complex ineffective areas as well as guiding the Manning's adjustments. Resulting base flood elevations were lowered by up to 1.4 feet over the steady state model with better calibration results.

CITY OF BLAIR SOUTH CREEK FLOOD MITIGATION • CITY OF BLAIR, NE • WASHINGTON COUNTY, NE (2018) Responsible for a feasibility analysis to determine if a drainage control structure could be constructed upstream to reduce floodplain extents (and subsequent flood damages). Oversaw development of a rainfall-runoff model (HEC-HMS) and a hydraulic model (HEC-RAS) to size an online drainage structure capable of reducing peak flows and flooding extents. Directed field survey efforts to collect channel, culvert, and roadway crossing information needed for model development. Also assisted with development of a Hazard Mitigation

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Grant Application to FEMA for potential federal funding to assist the City in addressing the flood-related issues.

NO-RISE CERTIFICATE FOR TD2 • TD2 • SARPY COUNTY, NE (2018) Responsible for oversight of a no-rise model for levee construction by a private landowner along the Platte River. The modeling consisted of three seasons (open water snow, open water rain, and ice affected) and spanned three overlapping FEMA models which did not correspond well to mapped conditions.

WANN PLANT NO RISE • WESTERN SAND & GRAVEL CO. • ASHLAND, NE (2017) Responsible for QA/QC of hydrologic and hydraulic modeling of the Wann Plant for WS&G. The plant desired to expand operations and required a no-rise permit to attain a floodplain development permit. Several alternatives were modeled before an optimal mining plan was discerned to prevent a rise from occurring.

BLUE RIVER BRIDGE SOUTH OF FAIRBURY • NEBRASKA DEPARTMENT OF TRANSPORTATION • JEFFERSON COUNTY, NE (2017) Lead H&H engineer on the project responsible for hydrologic and hydraulic analysis of existing and proposed bridge structures for Blue River Bridge to determine performance of proposed structure in relation to the effective Base Flood Elevation ensuring that FEMA guidelines were followed. A scour analysis was completed to determine the stability of the proposed structure.

US HIGHWAY 30 – ROGERS TO FREMONT EXPRESSWAY • NEBRASKA DEPARTMENT OF TRANSPORTATION • DODGE COUNTY, NE (2017) Project engineer responsible for H&H assessments of the Platte River and Rawhide Creek for project design and floodplain permitting. Performed ice jam analysis and seasonal hydrology for both taking existing levees and other flood control measures into consideration.

SOUTH LOGAN CREEK • NEBRASKA DEPARTMENT OF TRANSPORTATION • WAYNE, NE (2018) Lead H&H engineer on the project responsible for a 2-D hydraulic analysis (HEC-RAS) of a failing bridge structure on Logan Creek. Developed emergency and long-term repair options to protect Highway 15.

ELKHORN RIVER IPA BANK STABILIZATION DESIGN AND PERMITTING • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • DOUGLAS COUNTY, NE (2012) Design engineer performing 1-D and 2-D hydraulic modeling with sedimentation and scour simulations for stream stability work along the Elkhorn River. Hydraulic modeling in HEC-RAS and SMS (SRH2D) supported design work associated with mitigation and stability improvements following a significant flooding event in 2010.

2011 MISSOURI RIVER HIGH WATER MARKS • UNITED STATES CORPS OF ENGINEERS OMAHA DISTRICT • MISSOURI RIVER VALLEY (2012) Quality control reviewer and survey specialist for post-2011 flood high water marks surveyed, set and recorded along Missouri River from mouth to headwaters.

NURSERY BRIDGE HYDRAULIC MODELING • UNITED STATES ARMY CORPS OF ENGINEERS • WASHINGTON (2011) Design engineer performing hydraulic modeling for stream restoration work within a degrading channel downstream of a drop structure. Work included multiple sensitivity models to assess previous hydraulic modeling assumptions, design of A-Weir step pools for grade control, and meeting flow/velocity requirements for sustained fish passage. HEC-RAS and SMS (SRH2D) were used to model the stream and proposed improvements and direct design alternatives.

H&H ANALYSIS • UNION PACIFIC RAILROAD • NATIONWIDE (2008) Project engineer performing hydrologic and hydraulic investigations of railroad structure replacements throughout the United States. Studies included: site investigations, field survey, rainfall-runoff modeling using TR55, TR20, and HEC-HMS, steady and unsteady-state hydraulic routing using HEC-RAS, sediment and scour analysis, 401/404 and floodplain permitting, as well as failure analysis.

LAKES/WATER QUALITY

LAKE MANAWA WATER BUDGET AND NUTRIENT MASS BALANCE • IOWA DEPARTMENT OF NATURAL RESOURCES • COUNCIL BLUFFS, IA (CURRENT) Project engineer to develop water budget and analyze groundwater/surface water interaction of Lake Manawa, as well as to develop a nutrient mass balance model to assess water quality alternatives. Incorporates groundwater piezometer readings and water quality samples collected by FYRA staff.

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STORM LAKE DREDGING ENHANCEMENT • CITY OF STORM LAKE • STORM LAKE, IA (CURRENT) Project Engineer performing water balance modeling and alternative modeling for Riverside Lakes. Water balance modeling was constructed utilizing stochastic techniques to understand the uncertainty associated with the limited information available. Several alternatives were investigated and simulated to understand their impact on long-term water balance of the lake.

SUNDOWN LAKE HYDRAULIC DREDGING • SUNDOWN LAKE RURAL IMPROVEMENT ZONE • MORAVIA, IA (CURRENT) Providing hydraulics and geotechnical review and guidance related to water handling and sediment consolidation/dewatering components of a hydraulic dredging project to remove and store between 125,000 and 175,000 cubic yards of consolidated sediment from Sundown Lake, a private lake in Southern Iowa. Developed dewatering pump specifications, reviewed sediment underdrain design, and performed benchtop/laboratory study of sediment to estimate consolidation and dewatering rate of dredged slurry material.

RIVERSIDE LAKES BATHYMETRY AND DREDGING • RIVERSIDE LAKES • WATERLOO, NE (CURRENT) Project Engineer performing water balance modeling and alternative modeling for Riverside Lakes. Water balance modeling was constructed utilizing stochastic techniques to understand the uncertainty associated with the limited information available. Several alternatives were investigated and simulated to understand their impact on long-term water balance of the lake.

HEGI FARM DRAINAGE STUDY • BWJ ATTORNEYS • LINCOLN, NE (2013) Project Engineer and Expert Witness at a trial for Hegi Farms. The Project consisted of providing expert witness testimony and modeling regarding a drainage problem associated with recent construction by multiple parties.

CARTER LAKE WATERSHED MANAGEMENT AND FINAL ALTERNATIVES ANALYSIS • METROPOLITAN AREA PLANNING AGENCY • CARTER LAKE, IA, AND OMAHA, NE (2009) Project engineer for hydrologic and hydraulic investigation or proposed improvements to Carter Lake. Study included proposed seepage impacts, optimizing pumping scenarios, and a water budget utilizing stochastic methods.

LAKE MANAWA DIAGNOSTIC AND FEASIBILITY STUDY • IOWA DEPARTMENT OF NATURAL RESOURCES • COUNCIL BLUFFS, IA (2008) Project engineer for analysis of water budget and groundwater/surface water interaction of Lake Manawa. Work included stochastic modeling as well as seepage modeling with BlueBird and SeepW, and rainfall-runoff modeling with HEC-HMS.

STORMWATER

BLAIR HAZARD MITIGATION GRANT • CITY OF BLAIR • BLAIR, NE (2015) Project Engineer for hydrologic and hydraulic investigation into an online detention structure to mitigate flooding throughout Blair, Nebraska. The Project included a Hazard Mitigation Funding Application, FEMA BCA, and HAZUS modeling. The Project was halted for a subsequent LOMR filing when an error in H&H modeling was found that eliminated the need for the online detention structure.

BLAIR FLOODPLAIN MITIGATION FEASIBILITY STUDY • CITY OF BLAIR • BLAIR, NE (2015) Project Engineer for the hydrologic and hydraulic analysis associated with the remapping of several DFIRM panels through the City of Blair.

26TH AND CORBY NEIGHBORHOOD COMBINED SEWER SEPARATION STUDY AND DESIGN • CITY OF OMAHA • OMAHA, NE (2012) Design engineer for hydrologic and hydraulic investigation of combined sewer separation project. Modeling of the existing combined system included sensitivity analysis of downstream conditions and multiple proposed scenarios within Autodesk Storm and Sanitary Analysis (SSA). HEC-HMS was used to calibrate and validate rainfall-runoff assumptions within SSA.

AREA 34 WATER BALANCE • BARRICK/CORTEZ GOLD MINES • UT (2010) Project engineer developing a water balance simulation utilizing Monte Carlo simulations for a leachate storage pool and pumping system at a proposed gold mine. Work included development of functional water balance model incorporating proposed system design, meteorological assessments to develop statistical distributions for precipitation and evaporation data, modeling to assess design compliance with the International Cyanide Management Code (ICMC). HEC-HMS was utilized to formulate rainfall-runoff curves for incorporation into the probabilistic analysis. Unsteady-state HEC-RAS was utilized to model flow through diversion channels to assess potential of overtopping and violation of ICMC.

LIBERTY FUELS LIGNITE MINE • NORTH AMERICAN COAL • KEMPER COUNTY, MI (2010) Design engineer for hydrologic and hydraulic investigation of a proposed lignite mine for inclusion in Environmental Impact Study and necessary FERC permitting. HEC-HMS was utilized for rainfall-runoff and reservoir operations modeling. Steady-state and unsteady-state HEC-RAS models were

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developed to support levee design and assessment of changes in sediment load to a downstream wildlife management area.

WEST PAPIILLION CREEK WATERSHED DFIRM MAPPING REVIEW • CITY OF PAPIILLION • PAPIILLION, NE (2008) Project engineer for independent review of recently completed DFIRM mapping of West Papillion Creek. Review of HEC-RAS and HEC-HMS Model of mapping revisions with reference to proposed flood reduction reservoirs.

OTHER

MISSOURI RIVER FEDERAL LEVEES R-613/616-613 LEVEE CERTIFICATION WSF APPLICATION • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT (2015) Economic analysis.

PAPIILLION CREEK WATERSHED DAMS WP-6&7 WSF APPLICATION • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT (2015) Economic analysis.

CARTER LAKE WELL DESIGN AND PERMITTING • CITY OF OMAHA • OMAHA, NE (2010) Project engineer for the planning and design of the supplemental supply well and delivery system to Carter Lake.

PRESENTATIONS

GREGALUNAS, ROBERT. The Impact of Coincidental Flooding. In: Nebraska Floodplain and Stormwater Managers Association Conference 2019; Nebraska City, Nebraska.

GREGALUNAS, ROBERT. Changing Floodplains. In: Nebraska Planning and Zoning Association Annual Conference 2016; Kearney, Nebraska.

GREGALUNAS, ROBERT. ABC's of Levee Inspections. In: Association of State Flood Plain Managers Annual Meeting 2011; Louisville, Kentucky.

GREGALUNAS, ROBERT. Missouri River High Water Marks. In: Nebraska Floodplain and Stormwater Managers Association Conference; Kearney, Nebraska.

GREGALUNAS, ROBERT. Elkhorn River Flooding Post Flood Modeling and River Repair. In: Nebraska Floodplain and Stormwater Managers Association Conference 2013; Nebraska City, Nebraska.

GREGALUNAS, ROBERT. The Conjunctive Management Analysis Tool (CMAT) - Gaining Confidence on Your NRD's Water Use - Nebraska Association of Resources Districts Legislative Conference, Lincoln, Nebraska, January 2017.

LINDY ROGERS, PE

OWNER-PROJECT ENGINEER



EDUCATION

BS CIVIL ENGINEERING - TEXAS
A&M UNIVERSITY (1994)

REGISTRATIONS

PROFESSIONAL ENGINEER:
NEBRASKA (#E-17243)
TEXAS (#87037)
MISSOURI (#2020002922)
NCEES (19-077-94)

AFFILIATIONS

AMERICAN PUBLIC WORKS
ASSOCIATION (APWA) – DIRECTOR
AND COMMUNICATIONS CHAIR

SOCIETY OF AMERICAN
MILITARY ENGINEERS (SAME)

NEBRASKA FLOODPLAIN AND
STORMWATER MANAGERS
ASSOCIATION (NEFSMA)

PAPILLION AREA LIONS CLUB

PAPILLION LA VISTA COMMUNITY
SCHOOLS BOARD OF DIRECTORS
MEMBER

CHI HEALTH MIDLANDS CAMPUS
COMMUNITY BOARD MEMBER

LEADERSHIP SARPY 2012-2013

SAME STUDENT MENTOR

MODELS & SOFTWARE

AUTOCAD CIVIL 3D

ARCGIS

GLOBAL MAPPER

HEC-HMS

HEC-RAS

SWMM 5

Lindy has over 26 years of civil engineering experience, with extensive experience in hydrologic and hydraulic modeling, levee analysis and design, stormwater pollution prevention, stormwater management design, residential and land development design, roadway design, and recreational trail design.

Lindy has been involved with student mentoring in various levels throughout her career. Currently, Lindy serves as a mentor with the Society of American Military Engineer's Student Mentoring Program and also serves on an advisory board focused on educating young ladies on careers in engineering. Lindy has worked with several area schools to assist educators in developing hands-on field studies and classroom teaching sessions that can be integrated with grade-specific curricula to better engage students in engineering, scientific principals, and general problem solving.

WORK EXPERIENCE

FYRA Engineering | Omaha, Nebraska
July 2012 to Current • Project Engineer/Manager/Owner

Tetra Tech | Omaha, Nebraska
October 2009 to June 2012 • Project Engineer

Ehrhart Griffin and Associates | Omaha, Nebraska
February 1996 to August 2006 • Project Engineer

Vickery and Associates | San Antonio, Texas
August 1994 to October 1995 • Engineer-in-Training

Ehrhart Griffin and Associates | Omaha, Nebraska
May 1992 to May 1994 • Survey Crew Member and CADD Technician

PROJECTS

LEVEES

FEDERAL LEVEE SYSTEMS R-613 AND R-616-613 LEVEE CERTIFICATION DESIGN, PERMITTING AND CONSTRUCTION • PAPIO-MISSOURI RIVER NRD • SARPY COUNTY, NE (CURRENT) Project engineer for the final design of \$22M in levee improvements required for levee certification and FEMA accreditation. The 18.2 miles of earthen levee systems protect billions in local infrastructure and commerce. Levee modifications include levee raises, closure section reconstruction at two locations, drainage penetration and flood gate structure rehabilitation/reconstruction, and seepage berm/relief well placement. Project work for the certification phase includes hydrologic and hydraulic modeling, sediment scour analysis, NEPA coordination, planning and cost analysis, and overall project coordination. All design information is being compiled into the project GIS database which will be used to provide the client with up-to-date and easily accessible information and system history. The project received 408 approval, which was coordinated with the USACE Omaha District Levee Safety group. Construction was delayed on this project because of the 2019 flood, but is currently underway. Construction is expected to be complete in 2021.

LITTLE PAPIO CHANNEL CULVERTS REHABILITATION • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • OMAHA, NE (CURRENT) Project engineer responsible for the preliminary and final design phases for 45 aging culvert penetrations through the federally constructed Little Papio Channel system. The preliminary design phase includes site investigations, topographic surveys, utility investigations, and detailed review and reporting of culvert video inspections. A list of culvert deficiencies was developed, and recommendations for rehabilitation methods will be provided to the client. Detailed cost estimates are being developed to assist the client with rehabilitation method

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selection. A full wetland delineation and associated report is being completed. Final design will include a detailed study of contributing drainage basins and hydrology for each culvert, culvert analysis to determine the optimum sizing of each structure which included HEC-HMS and HEC-RAS investigations on contributing drainage channels, design of bank stabilization methods at culvert outlets and an on-site constructability review with suppliers and contractors to ensure designed options were viable and cost-effective solutions. Coordination occurred with the City of Omaha and several private businesses will take place. Because these culverts all fall within a federally constructed channeled sections, this project requires a technical 408 review from the USACE Omaha District Levee Safety Group and 404 permits from the USACE Omaha District Regulatory Group.

NO NAME DIKE CULVERT REHABILITATION • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • OMAHA, NE (CURRENT) Project engineer responsible for the rehabilitation design of two aging CMP culverts through No Name Dike Levee along the Platte River left bank. The work included a site investigation and survey, review of culvert videos and assessment of the existing culvert conditions, development of a drainage report to assess discharge to the culverts, alternatives analysis of applicable rehabilitation methods, and the preparation of final construction documents including construction plans and specifications. Bidding just occurred on this project and FYRA will perform construction observation services on this project beginning in August.

SALT CREEK PENETRATION REPAIRS • LOWER PLATTE SOUTH NATURAL RESOURCES DISTRICT • LANCASTER COUNTY, NE (CURRENT) Project engineer responsible for rehabilitation of 4 aging CMP culvert through the Salt Creek federally constructed levee. The work included site investigations and site surveys, review of culvert videos and assessment of the existing culvert conditions, development of a drainage report to assess discharge to the culverts, alternatives analysis of applicable rehabilitation methods, and preparation of final construction documents including construction plans and bid documents and construction specifications. Because these culverts are within a federally constructed levee, a 408 approval of alterations was required and was coordinated with the USACE Omaha District Levee Safety Group. 404 permits were also coordinated with the USACE Omaha District Regulatory Division. FYRA will manage the project bidding and construction observation.

BIG PAPION CREEK LEVEE CULVERTS REPAIR – ALTERNATIVES DEVELOPMENT AND FINAL DESIGN PHASES 1 AND 2 • PAPIO-MISSOURI RIVER NRD • OMAHA, NE (CURRENT) Project engineer responsible for both the alternative analysis/development stage and final design stage for 29 aging culvert penetrations through the Big Papio levees. The alternatives analysis phase included site investigations, topographic surveys, utility investigations, and detailed review and reporting of culvert video inspections. A list of culvert deficiencies was developed, and recommendations were provided to the client. Detailed cost estimates were also developed to assist the client with rehabilitation method selection. The final design phase of the project included wetland delineations and reports, a detailed study of contributing drainage basins and hydrology for each culvert, culvert analysis to determine the optimum sizing of each structure which included HEC-HMS and HEC-RAS investigations on contributing drainage channels, design of bank stabilization methods at culvert outlets and an on-site constructability review with suppliers and contractors to ensure designed options were viable and cost-effective solutions. Coordination occurred with the City of Omaha and the City of Bellevue for culverts within the respective city limits. Because several of these culverts fall within federally constructed leveed/channeled sections or levees enrolled in the PL 84-99 program, these projects required technical review and 408 approval from the USACE Omaha District Levee Safety Group and 404 permits from the USACE Omaha District Regulatory Group.

CAMP ASHLAND FUSE PLUG REPAIR • LOWER PLATTE NORTH NRD • ASHLAND, NEBRASKA (2019) Engineer involved with the repair of the fuse plug that is an integral part of the Clear Creek Federal Levee System. Prepared construction documents, technical specifications and cost estimates for the project.

VALMONT LEVEE ASSESSMENT AND RISK ANALYSIS • VALMONT INDUSTRIES • VALLEY, NEBRASKA (2019) Project engineer responsible for the levee assessment and risk analysis for the levee that provides flood protection to the Valmont Industries plant in Valley, Nebraska. Work included a site survey and database development of all levee features, and comparison of existing levee height to the Platte River effective 1% Annual Chance Event water surface elevations to determine areas of risk. A technical memorandum was prepared that provided information on levee heights, road crossings, utilities, and encroachments, and made recommendations on how Valmont could reduce future flood risk to their site.

EMERGENCY ASSESSMENT OF THE PLATTE RIVER UPSTREAM OF FREMONT, NEBRASKA • OMAHA SAME POST STATE EMERGENCY RESPONSE TEAM (SERT) • FREMONT, NE (2019) Key member of the five person volunteer State Emergency Response Team responsible for assessing the condition of a series of levees upstream of Fremont. During the 2019 March flood event along the Platte River, several levees in the vicinity breached or became compromised and became areas of significant concern to the Dodge County and Nebraska

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Emergency Management teams. The team was deployed immediately and began a site assessment upstream near the Ames Diking levee which was breached. The group continued the site assessment downstream into Fremont and then began to review drone imagery of the entire area to determine the areas of risk. Within 36 hours, the team prepared a detailed assessment that defined the areas of vulnerability, provided a preliminary cost estimate for repair of the breached areas along with funding guidance, and developed a recommended path forward to reduce risk of flooding in the City of Fremont.

INVESTIGATIVE PHASE FOR CITY OF PAPIILLION LEVEE CERTIFICATION • CITY OF PAPIILLION • PAPIILLION, NE (2019) Project Engineer responsible for the investigative phase of the West Branch Papillion Creek levee certification project. In coordination with Papio-Missouri River Natural Resources District, the City of Papillion is investigating the viability of certifying the West Branch Papillion Creek levees. These levees were constructed by the Papio-Missouri River Natural Resources District in the late 1990s, but development in the watershed and increases in discharges through this area caused FEMA mapping updates to show that the levee provides no flood protection to the surrounding area. The work included an environmental site assessment and wetland delineation report, detailed site investigation and survey to categorize all the levee appurtenances, and development of a GIS database for the client to use in the future. Updates to the FEMA effective HEC-RAS model were made to include updated LiDAR and levee survey information and updated hydrology. A full geotechnical investigation was completed that included borings in the levee, and assessment of slope stability, seepage and settlement in the existing and proposed levee section. A final recommendation was made that include preliminary plans for levee modifications, a detailed cost estimate and full cost:benefit analysis.

O'KEEFE RESIDENCE • MR. TIMOTHY O'KEEFE • ASHLAND, NE (2016) Project engineer responsible for the review of the O'Keefe residence design plans in reference to the North Lake levee along the Platte River. The technical memorandum provided recommendations to strengthen the North Lake levee in the areas of the residence.

NORTH LAKE – PLATTE RIVER LEVEE INSPECTION • NORTH LAKE PARK ASSOCIATION • CASS COUNTY, NE (2014) Project engineer for the levee inspection and recommendation report for North Lake's Platte River Levee. Project involved an intensive site investigation to locate all levee deficiencies and an in-depth evaluation of both riverside and landside levee conditions. Prepared an in-depth report detailing all observations at 35 different levee locations. Recommendations were made to North Lake Park Association to identify areas in need of immediate attention and long-term operation and maintenance items that should be implemented.

FEDERAL LEVEE SYSTEMS R-613 AND R-616-613 INVESTIGATIVE PHASE AND ALTERNATIVE ANALYSIS PHASE • PAPIO-MISSOURI RIVER NRD • SARPY COUNTY, NE (2012) Project engineer for the investigative and alternative analysis phases required for FEMA accreditation. The investigative phase included levee inspections and final inspection report in accordance with the U.S. Army Corps of Engineers Levee Safety Program, stakeholder coordination, cost:benefit analysis, review of existing hydrology and hydraulics utilizing HEC-RAS, interior drainage analysis (HEC-HMS), and system analysis. Responsibilities during the alternative analysis phase included coordination of geophysical resistivity analysis and geotechnical field investigations, development of levee setback scenarios, sediment/scour research and analysis along the Papillion Creek and Missouri River, update of Platte River and Papillion Creek hydraulics, and 2011 flood inventory into GIS database.

LAKES/WATER QUALITY

BEVERIDGE MIDDLE SCHOOL WATER QUALITY AND DETENTION BASIN DESIGN • DLR ARCHITECTS • OMAHA, NE (2016) Lead engineer responsible for determining site hydrology and design of two water quality and water quantity basins and associated outlet structures required for a building site improvement project for the Omaha Public Schools.

CARTER LAKE WATER QUALITY IMPROVEMENTS FINAL DESIGN AND PERMITTING • METROPOLITAN AREA PLANNING AGENCY • CARTER LAKE, IA AND OMAHA, NE (2011) Responsible for storm sewer routing and wet detention pond design focused on the nutrient reduction of 320-acre Carter Lake. Utilized SWMM 5 to analyze existing storm sewer and proposed wet detention impacts.

RIVERS/STREAMS

BLAIR SOUTH/PLACID POND • NEBRASKA DEPARTMENT OF TRANSPORTATION • WASHINGTON COUNTY, NE (CURRENT) Project engineer responsible for the assessment and alternatives analysis required to mitigate erosion damage from a culvert passing under a Nebraska State Highway near Blair, Nebraska. Prior to the construction of the highway discharge from the area flowed into a stream which was adjacent to a private landowners property. Changes in the discharge timing and velocities caused the stream channel to begin

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migrating through the private property. Responsibilities on the project included determining site hydrology and developing HEC-RAS hydraulic models that looked at several alternatives to mitigate the channel migration and head cut of the existing stream.

PARCEL LEVEL FLOOD RISK ASSESSMENT AND MITIGATION PLAN • CITY OF DESHLER • DESHLER, NE (CURRENT) Project engineer responsible for developing a parcel levee flood risk assessment for the City of Deshler, Nebraska. Developed documents and coordinated all reporting as required for all projects funded with FEMA Hazard Mitigation Grant dollars. Oversaw the development of updated hydrologic (HEC-HMS) and hydraulic (HEC-RAS) models to better understand the method and extents of flooding and options that may be considered to mitigate flooding. Responsible for site survey and development of parcel level and city level mitigation options that would provide flood mitigation in the area. Conducted all public meetings to inform residents of the plan, met with individual parcel owners, prepared parcel level reports for each parcel in the study area, and prepared an update to the City of Deshler's Hazard Mitigation Plan that included a technical memorandum of all the work completed during the study and assessment.

STORMWATER

LONG ROAD CULVERT DESIGN • SID NO. 3 • SAUNDERS COUNTY, NE (2020) Project engineer responsible for the design of a road culvert through Long Lane. In the past, a culvert ran under Long Lane to discharge water from an upstream pond. Long Lane acted as a low-hazard dam until the original culvert and associated riser failed and washed the road away. The design for this project required coordination with the Nebraska Dam Safety division to ensure that the culvert was designed so that water was not impounded behind the road and that Long Lane would not be considered a dam. Coordination also occurred with the USACE Omaha District Regulatory Division to ensure mitigation of wetlands would not be required. Construction drawings, bid documents and project specifications were created and project bidding was facilitated. The project is currently under construction and FYRA is providing construction observation for the client.

HEMMINGSEN PROPERTY STORMWATER CALCULATIONS • CHERYL HEMMINGSEN • COUNCIL BLUFFS, IA (2018) Project engineer responsible for preparing a hydrologic study assessing the pre- and post-hydrologic conditions to a landowner's property from the construction of a residential subdivision upstream of the landowner's property.

SITE EVALUATION FOR OMAHA PUBLIC SCHOOLS • OMAHA PUBLIC SCHOOLS • OMAHA, NE (2016) Project engineer responsible for investigation of two sites that were candidates for future district schools. Investigation focused on stormwater and stormwater conveyance through the project sites to determine the probability of jurisdictional water ways and permitting requirements for future construction. Investigation included on-site inspection and surrounding drainage areas, research of historic drainage patterns, determination of USGS soil classifications, review of FEMA digital maps, and review of Title 117 stream and lake databases. Site specific narratives and recommendations were prepared to assist the Omaha Public Schools in site selection decisions.

MONTESSORI CO-OP SCHOOL RAIN GARDEN AND DRAINAGE SWALE • MONTESSORI CO-OP • OMAHA, NE (2016) Project engineer responsible for preliminary design of several on-site rain gardens to help alleviate current drainage problem areas and develop an educational space for active learning. Project work included site investigations to determine on-site drainage patterns, contributing drainage, and hydrology. Work also involved interaction with school parent groups to determine needs, wishes, and maintenance participation. Plans were developed for two rain gardens to capture and detain overland flow and roof drains and remediate on-site drainage issues. Assisted parent co-op in successfully applying for a grant to assist with construction and plant purchases for rain gardens.

CITY OF BLAIR LOMR SUBMITTAL FOR CAUBLE CREEK • CITY OF BLAIR • WASHINGTON COUNTY, NE (2016) Lead engineer responsible for refining basin hydrology and hydraulics along Cauble Creek. Involved in public meetings to present the results of the study to the public, coordination with FEMA STARR team for the LOMR submittal and client coordination. The project was approved by FEMA in November 2018.

CITY OF BLAIR HAZARD MITIGATION GRANT • CITY OF BLAIR • WASHINGTON COUNTY, NE (2016) Engineer responsible for development of a FEMA Hazard Mitigation Grant Application for a proposed detention site to reduce flood hazards along South Creek in the city of Blair, Nebraska. Developed a feasibility study and cost estimate of a possible detention site for flood mitigation. After determining that efficiencies could be gained through updating hydrology and hydraulics for South Creek, led the team to refine basin hydrology to determine design storm discharges and the hydraulic model to develop an accurate floodway model for LOMR submittal. The project

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was approved by FEMA in September 2018.

CITY OF BLAIR HAZARD MITIGATION GRANT • CITY OF BLAIR, NEBRASKA • WASHINGTON COUNTY, NE (2015) Project manager for the evaluation of a proposed detention structure within the City of Blair, Nebraska. This project involved recreating the effective HEC-RAS model for Cameron Ditch Tributary 1, and using this model, evaluated the proposed detention structure. A cost:benefit analysis using FEMA's BCA Module was completed to determine the maximum flood benefit that can be provided. Project included preparation of a Hazard Mitigation Grant application for the selected alternative and final presentation to Blair City Council members and city staff.

26TH & CORBY NEIGHBORHOOD COMBINED SEWER SEPARATION STUDY AND DESIGN • CITY OF OMAHA PUBLIC WORKS DEPARTMENT • OMAHA, NE (2012) Design engineer responsible for assisting in the development of the stormwater model for the partial separation of the combined sewers in the project vicinity.

FIRST UNION SID 2005 • CITY OF LAFAYETTE • LAFAYETTE, CO (2006) Roadway design and construction plans for gravel roads in SID 2005. Responsible for roadway design and detailed drainage analysis to determine acceptable design cross sections for drainage and economy. Prepared all construction drawings including demolition plans, drainage plans, plan and profiles and detailed cross sections. Cross sections were shown at 10-foot intervals with stormwater to ensure all drainage was within acceptable limits as defined by the City of Lafayette.

HILLS OF CEDAR CREEK • DUGGAN LAND DEVELOPMENT • COUNCIL BLUFFS, IA (2005) Design engineer assisting in the design of stormwater detention basins and preparation of final construction drawings for a 110-acre, 245-lot residential subdivision in Council Bluffs, IA.

FERNDALE SUBDIVISION (PHASE I AND PHASE II) • DUGGAN LAND DEVELOPMENT • COUNCIL BLUFFS, IA (1998) Design engineer responsible for the design and preparation of construction documents for a 164-lot residential subdivision in Council Bluffs Iowa. Responsibilities included design and preparation of overlot grading and erosion control plans, drainage analysis and detention basin design. Prepared paving, sanitary sewer, storm sewer and erosion control plans in accordance with the City of Council Bluffs guidelines. Performed all design calculations for storm sewer. Responsible for monitoring all construction staking and field inspection activities during the construction phase of the project.

NORTHRIDGE SUBDIVISION • TOWN OF ERIE • ERIE, CO (1997) Design and preparation of construction documents for a 73-lot residential subdivision in Erie, Colorado. Prepared overlot grading and erosion control plans using Town of Erie and City of Denver guidelines for residential development. Designed and prepared roadway and utility plans and profiles for all subdivision roadways. Design included sanitary sewer and water layouts. Performed drainage calculations to design storm sewer system including several detention basins, storm release outfall structures and inverted siphons.

BOBOLINK DRAINAGE STUDY • CITY OF SAN ANTONIO • SAN ANTONIO, TX (1994) Analysis and redesign of an existing drainage channel within the City of San Antonio, Texas. Analyzed existing and proposed drainage conditions to determine areas of concern. Designed several options for drainage improvements and developed cost and quantity estimates for each option.

OTHER

PLATTE RIVER BICYCLE/PEDESTRIAN TRAIL • PAPIO-MISSOURI RIVER NRD • SARPY COUNTY, NE (2006) Responsible for design of trail, drainage analysis and culvert design for 2.4 miles of concrete bicycle/pedestrian trail. Prepared all construction drawings for the project including plan and profile sheets, and detailed cross sections for project length. Coordinated with utilities to develop alternate routings. Worked with the client on submittals required to procure government funding.

BELLEVUE LOOP TRAIL (PHASE III) • PAPIO-MISSOURI RIVER NRD • SARPY COUNTY, NE (1999) Responsible for design of 2.4 miles of concrete bicycle/pedestrian trail. Developed detailed plan and profile sheets for all bridge undercrossing areas to ensure that activities would not impact the respective floodway. Worked closely with the Papio-Missouri River NRD to ensure that flood protection level of levees were maintained at all times during construction. Obtained all permits and easements required for construction activities and worked closely with the client to ensure all forms and permits required for government funding were submitted and finalized.

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CHALCO HILLS CONNECTOR TRAIL • PAPIO-MISSOURI RIVER NRD • OMAHA, NE (1999) Responsible for design of 1-mile concrete connector trail. Developed all construction drawings.

HALLECK PARK TRAIL • PAPIO-MISSOURI RIVER NRD AND CITY OF PAPIILLION • PAPIILLION, NE (1998) Responsible for design of 2.7 miles of concrete bicycle/pedestrian trail. Developed detailed plan and profile sheets for all bridge undercrossing areas to ensure that activities would not impact the respective floodway. Worked closely with the Papio-Missouri River NRD to ensure that flood protection level of levees were maintained at all times during construction. Obtained all permits and easements required for construction activities and worked closely with the client to ensure all forms and permits required for government funding were submitted and finalized. Performed field inspection and coordination during construction phase of the project.

KEYSTONE TRAIL PHASE V • PAPIO-MISSOURI RIVER NRD • OMAHA, NE (1998) Responsible for design of 2.6 miles of concrete bicycle/pedestrian trail. Developed detailed plan and profile sheets for all bridge undercrossing areas to ensure that activities would not impact the respective floodway. Worked closely with the Papio-Missouri River NRD to ensure that flood protection level of levees were maintained at all times during construction. Obtained all permits and easements required for construction activities and worked closely with the client to ensure all forms and permits required for government funding were submitted and finalized. Performed field inspection and coordination during construction phase of the project.

WELD COUNTY ROAD 10.5 • WELD COUNTY, CO (1997) Roadway design for 1.1 miles of construction. Responsible for design of roadway, drainage, drainage channel and irrigation ditch crossing, as well as utility coordination. Prepared all construction drawings, coordinated for utility relocations and worked closely with the Colorado Department of Transportation to procure state funding for the project.

ROADWAY RENOVATION PROJECTS • TEXAS DEPARTMENT OF TRANSPORTATION • SAN ANTONIO, TX (1994) Preparation of construction plans for three roadway improvement projects within the City of San Antonio, Texas. Responsible for developing preliminary and final design of improved roadway sections. Created plan and profiles, cross sections and drainage plans, and assembled guidelines to ensure against stormwater pollution, erosion and sedimentation during the construction process. Developed preliminary cost and quantity estimates.

REFERENCES

MR. PAUL WOODWARD, PE | GROUNDWATER MANAGEMENT ENGINEER | PAPIO-MISSOURI RIVER NRD | PWOODWARD@PAPIONRD.ORG | 402.444.6222

MR. ALLEN SCHOEMAKER | DIRECTOR OF PUBLIC WORKS | CITY OF BLAIR, NEBRASKA | ARS@BLAIRNEBRASKA.ORG | 402.426.4195

JANEL KAUFMAN, PE

ENVIRONMENTAL ENGINEER/PERMITTING



Janel has over 12 years of experience in environmental permitting and civil engineering design across the country and her diverse background provides her with a unique perspective as an environmental engineer. Janel has worked on a wide variety of projects involved with every level of government (federal, state and local) and has worked on projects ranging from watershed plans to water rights determinations. She is extremely knowledgeable with the NEPA process and has been involved with projects in all aspects of permitting and design including site and watershed investigations, report writing, data collection and analysis, application development, and public involvement. Janel has a BS in Civil Engineering from the University of Nebraska, an MS in Civil and Environmental Engineering from the University of California-Berkeley, and is a licensed Civil Engineer.

EDUCATION

MASTER OF SCIENCE CIVIL AND ENVIRONMENTAL ENGINEERING UNIVERSITY OF CALIFORNIA - BERKELEY (2006)

BACHELOR OF SCIENCE CIVIL ENGINEERING - UNIVERSITY OF NEBRASKA - OMAHA (2005)

REGISTRATIONS

PROFESSIONAL ENGINEER: SOUTH CAROLINA (#28225, 2010)

AFFILIATIONS

ENGINEERS WITHOUT BORDERS

GARRETT ACADEMY PRE-ENGINEERING ADVISORY NEBRASKA FLOODPLAIN AND STORMWATER MANAGERS ASSOCIATION

NATIONAL ASSOCIATION OF ENVIRONMENTAL PROFESSIONALS

PARTNERSHIP 4 KIDS

SOFTWARE

AUTOCAD, AUTODESK, MICROSTATION AND INROADS

ARCGIS

HEC-2 AND HEC-RAS

GEOPAK DRAINAGE

HY-8

WORK EXPERIENCE

FYRA Engineering | Omaha, Nebraska
March 2016 to Current • Project Environmental Engineer

Union Pacific Railroad | Omaha, Nebraska
January 2015 to March 2016 • Project Design Engineer / Manager Structures Design

HDR Engineering, Inc. | Charleston, South Carolina
May 2007 to September 2012 • Environmental Engineer

Stetson Engineers | San Rafael, California
June 2006 to March 2007 • Water Resources Engineer

Omaha Public Power District | Omaha, Nebraska
April 2003 to July 2005 • Engineering Co-Op

PROJECT EXPERIENCE

WAHOO CREEK WATERSHED PLAN-ENVIRONMENTAL ASSESSMENT • LOWER PLATTE NORTH NATURAL RESOURCES DISTRICT • WAHOO, NE (CURRENT) Environmental engineer leading funding applications, NRCS and other agency coordination, stakeholder involvement, and Plan and Environmental Assessment development. Project includes preparing and submitting applications for funding assistance. Funding awarded to the project includes Natural Resources Commission Water Sustainability Fund, NRCS Regional Conservation Partnership Program, and NRCS Watershed and Flood Prevention Operations Program. Preparation of NRCS Watershed Plan and NEPA document includes analysis of watershed characteristics and alternatives analysis study to provide NEPA and Clean Water Act Section 404 compliant flood risk reduction to the watershed. Project also includes developing a public participation plan and leading the coordination of multi-agency and public meetings to help guide discussions regarding goals of project and involve stakeholders at all levels throughout the planning process. Environmental resources assessment includes threatened and endangered species review and coordination with USFWS, NGPC and NRCS, working with NRCS for the cultural resources review, social and demographic assessment, erosion and sedimentation, as well as preliminary design and economics analysis to determine cost:benefit ratio and selection of NED plan. Field assessment includes assessment of existing habitat, woodlands, and wetland and waters of the United States determination that complies with NRCS and USACE guidelines.

DUCK AND BUCK CREEK SUPPLEMENTAL WATERSHED PLAN-ENVIRONMENTAL ASSESSMENT • NEMAHA NATURAL RESOURCES DISTRICT • NEMAHA COUNTY, NE (2019) Environmental engineer leading NRCS and other agency coordination, stakeholder involvement and Environmental Assessment. Project includes preparation of an NRCS approved, NEPA compliant Supplemental Watershed Plan and Environmental Assessment and Clean Water Act Section 404 permit. Field assessment includes

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assessment of existing woodlands, including a tree survey, and identification of wetlands, other waters of the United States, and wetlands covered under the swampbusters provisions to comply with both NRCS and USACE guidelines.

PAPILLION CREEK SUPPLEMENTAL WATERSHED WORK PLAN-EA • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • PAPILLION, NE (CURRENT) Environmental engineer leading the planning effort of seven grade stabilization and flood damage reduction structures within the Papillion Creek Watershed. Preparation of the Supplemental Watershed Work Plan and Environmental Assessment includes NRCS and other agency coordination, assessment of sensitive resources, wetland delineations.

PAPILLION CREEK WATERSHED REGIONAL DETENTION SITE WP 2 - PRELIMINARY DESIGN • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • SARPY COUNTY, NE (CURRENT) Permitting lead for the Clean Water Act Section 404 individual permit for the rehabilitation of an existing dam site including wetland and other jurisdiction waters of the United States determination, stream assessment of current and future conditions using the Nebraska Stream Condition Assessment Protocol, agency coordination, and wetland and stream mitigation plan. Responsible for permitting oversight, client and agency coordination, leading field analysis, assisting with design decisions related to minimizing wetland impacts and other permitting obstacles, preparation and analysis of the 404(b)(1) alternatives analysis, and document preparation and review.

WEST LAKE (LAKE OF THE HILLS) SCOTT COUNTY CONSERVATION BOARD • IOWA DEPARTMENT OF NATURAL RESOURCES • DAVENPORT, IA (2019) Permitting lead for nine nationwide and one individual Clean Water Act Section 404 permits including wetland and other jurisdiction waters of the United States determination, identifying stream mitigation requirements using the Iowa Stream Mitigation Method, agency coordination, and wetland and stream mitigation plan. Responsible for permitting oversight, client and agency coordination, leading field analysis, assisting with design decisions related to minimizing wetland and stream impacts and other permitting obstacles, and 404 document preparation and review.

SOUTHERN SARPY WATERSHED MANAGEMENT PLAN • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • SARPY COUNTY, NE (CURRENT) Environmental engineer responsible for environmental resources analysis and stream stability analysis of Buffalo Creek Basin, Springfield Creek Basin and Zwiebel Creek Basin, and client and agency coordination. Project includes analysis of existing and future conditions, hydrologic and hydraulic analysis, and stream stability analysis using field and desktop assessments to identify and document areas of significant concern and assess potential effects of watershed development. Project also includes water quality analysis and environmental analysis, including desktop and field collection of data on environmentally sensitive areas; developing and implementing protocol to assess and analyze existing conditions, assess and mitigate potential impacts to environmentally sensitive areas; and compiling all data into GIS and within the written Plan.

BIG PAPIO LEVEE CULVERTS PROJECT PHASE 2 • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • DOUGLAS AND SARPY COUNTIES, NE (CURRENT) Environmental engineer and permitting lead for fifteen Clean Water Act Section 404 nationwide permits to replace levee penetrations. Responsibilities include field determination of wetlands and other jurisdictional waters of the United States, agency coordination, and document preparation and review.

BLAIR SOUTH DRAINAGE PROJECT • NEBRASKA DEPARTMENT OF TRANSPORTATION • WASHINGTON COUNTY, NE (CURRENT) Permitting lead for the Clean Water Act Section 404 permit for the stream and wetland restoration and enhancement of over 500 feet of deeply incised channel and existing wetlands including determination of wetlands and other jurisdiction waters of the United States, stream assessment of current and future conditions using the Nebraska Stream Condition Assessment Protocol, and agency coordination. Responsible for permitting oversight, client and agency coordination, leading field analysis, assisting with design decisions related to minimizing wetland impacts and designing a permissible project, and document preparation and review.

MISSOURI RIVER FEDERAL LEVEE SYSTEMS R-613 AND R-616-613 LEVEE CERTIFICATION DESIGN AND PERMITTING • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • SARPY COUNTY, NE (CURRENT) Environmental engineer responsible for assisting with field determination of wetlands and other jurisdictional waters of the United States and review of Clean Water Act Section 404 permit and NEPA Environmental Assessment documents.

OAKBROOK CHANNEL STABILIZATION DESIGN CITY OF OMAHA PUBLIC WORKS DEPARTMENT • OMAHA, NE (2018) Environmental engineer for agency coordination, analyzing existing and future conditions using the Nebraska Stream Assessment Protocol, obtaining Section 404 Nationwide permit, and minimizing stream impacts and design for stormwater pipe extension and channel

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restoration. Also responsible for tree survey, tree mitigation plan, and developing monitoring plan and documents.

PAPILLION CREEK WATERSHED REGIONAL DETENTION SITES WP 6&7 PLANNING, PERMITTING, AND FINAL DESIGN • PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT • SARPY COUNTY, NE (2017) Environmental engineer responsible for assisting with the Section 404 permit individual permit application, 404(b)(1) alternatives analysis, analysis of existing environmental resources, stream mitigation plan, and review of wetland determination and stream assessment documents of two regional detention dams that are part of the Papillion Creek Watershed Plan to reduce flooding on the Papillion Creek.

DAM REHABILITATIONS DESIGN, PERMITTING AND CONSTRUCTION • LOWER PLATTE SOUTH NATURAL RESOURCES DISTRICT • NE (CURRENT) Environmental engineer for desktop review and field assessment of project sites including determination of wetlands and other waters of the United States when applicable, and Section 404 permitting including agency and client coordination for the rehabilitation of aging NRCS-designed dam structures.

PAPILLION CREEK HYDROLOGY UPDATE • PAPIO-MISSOURI RIVER NRD • SARPY AND DOUGLAS COUNTIES, NE (2016) Responsible for the review and update of hydrologic models used by FEMA for remapping efforts in Sarpy and Douglas Counties and determination of storm size that was utilized in the HEC-HMS hydrologic model. Calibrated the hydrologic model to past storm events and updated the hydraulic analysis of Big Papillion Creek utilizing an unsteady-state model in HEC-RAS.

ENVIRONMENTAL SERVICES

BLAIR SOUTH, PLACID POND • NEBRASKA DEPARTMENT OF TRANSPORTATION • WASHINGTON COUNTY, NE (2018) Environmental engineer responsible for wetland delineation, wetland report, stream assessment, agency coordination, obtaining 404 Nationwide permit, and minimizing stream impacts.

PAPILLION LEVEE CERTIFICATION INVESTIGATIVE PHASE • CITY OF PAPILLION • PAPILLION, NE (CURRENT) Environmental engineer responsible for leading desktop review and field investigation of over five miles of existing levees to determine locations of wetlands and other jurisdictional Waters of the United States and preparation and review of reporting documents.

SCDOT US 17 WIDENING – ACE BASIN DESIGN-BUILD • SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION • BEAUFORT COUNTY, SC (2012) Environmental engineer for monitoring, evaluating, and reporting on environmental compliance of federal, state, and local guidelines, regulations, and laws. Assisted in the interpretation and implementation of engineering erosion control design plans to ensure environmental compliance.

I-385 IMPROVEMENTS • SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION • GREENVILLE COUNTY, SC (2011) Environmental engineer for analyzing environmental data and preparing USACE Nationwide Maintenance Permit and Environmental Compliance Plan.

US-78 OVER S-39 AND SCL RAILROAD • SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION • CHARLESTON COUNTY, SC (2011) Environmental engineer for writing and obtaining storm water permit for bridge replacement.

BASSETT REDEVELOPMENT • TOWN OF MOUNT PLEASANT • MOUNT PLEASANT, SC (2011) Project manager for writing and obtaining storm water permit for parking lot and side street redevelopment.

JOHNNIE DODDS IMPROVEMENTS PHASE 3 • TOWN OF MOUNT PLEASANT • MOUNT PLEASANT, SC (2011) Environmental engineer for performing storm water permit review for road improvement project.

STORMWATER

HUNGRY NECK BLVD. PHASE IV • TOWN OF MOUNT PLEASANT • MOUNT PLEASANT, SC (2010) 2012 Project engineer for performing drainage design using Geopak Drainage for a two-mile new location roadway project and the design of crossline drainage, storm water BMPs, and erosion control design. Wrote and obtained storm water permit. Conducted environmental investigations and analyzed environmental data to write and obtain Section 404/401 Nationwide permit.

HARBOR VIEW ROAD IMPROVEMENTS • CHARLESTON COUNTY • CHARLESTON COUNTY, SC (2012) Project engineer for performing drainage design using Geopak Drainage for a two-mile roadway widening project. Designed of cross line drainage, storm water BMPs, and

JANEL KAUFMAN, PE

ENVIRONMENTAL ENGINEER/PERMITTING

erosion control design. Wrote and obtained storm water permit. Participated in public meetings to communicate engineering design alternatives to the public and other interested groups and to provide assistance and advice to resolve public concerns and engineering design and environmental concerns.

SIX-MILE MASTER PLAN • TOWN OF MOUNT PLEASANT • MOUNT PLEASANT, SC (2012) Project engineer for assisting with erosion control design for parking lot expansion and road improvement. Lead, wrote, and obtained storm water permit.

SILAS CREEK WATERSHED PROJECT • WINSTON-SALEM, NC (2012) Project engineer for performing hydrologic calculations and creating, updating and calibrating XPSWMM watershed model for the Silas Creek watershed.

GEORGETOWN COUNTY STORM WATER ORDINANCE • GEORGETOWN COUNTY • GEORGETOWN COUNTY, SC (2011) Project engineer for writing and updating Storm Water Management Ordinance for Georgetown County, South Carolina.

CEL RIVER ROAD WIDENING • SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION • ROCK HILL, SC (2011) Project engineer for performing hydrologic and hydraulic analysis for drainage and erosion control design for 1.2-mile road widening project. Lead writer for Environmental Assessment NEPA document.

SCDOT US 17 WIDENING – ACE BASIN DESIGN REVIEW • SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION • BEAUFORT COUNTY, SC (2011) Project engineer for performing drainage and erosion control design review for the US 17 Design-build widening project.

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RAIL • ALAMANCE COUNTY, NC (2010) Project engineer for performing drainage and erosion control design on a 1.5-mile railroad siding and main line relocation project near Graham, North Carolina. Duties included field assessment of existing structures, ditch stability calculations, design of cross line drainage, and erosion control design.

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION OPEN-END HYDRAULICS CONTRACT • NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (2010) Project engineer for performing roadway drainage design, culvert hydraulics and bridge hydraulics on various roads, culverts and bridges throughout the state.

HUNGRY NECK/I-526/US 17 INTERCHANGE • TOWN OF MOUNT PLEASANT • MOUNT PLEASANT, SC (2010) Project engineer for performing drainage design using Geopak Drainage for a proposed interchange and the design of crossline drainage, storm water BMPs, and erosion control design. Wrote and obtained storm water permit.

DUKE ENERGY CORPORATION RECONSTRUCTION OF THE LEE RAIL SPUR • DUKE ENERGY CORPORATION • CHEROKEE COUNTY, SC (2010) Project engineer for performing hydrologic and hydraulic analysis of existing crossline culverts and providing design recommendations.

CHARLOTTE AREA TRANSIT SYSTEM NORTH CORRIDOR COMMUTER RAIL PROJECT • CITY OF CHARLOTTE • MECKLENBURG AND IREDELL COUNTY, NC (2009) Project engineer for performing drainage design on 25-mile railroad upgrade and track relocation. Duties included field data collection, hydraulic analysis of crossline drainage structures, ditch stability calculations, and erosion control design.

OTHER

PORT OF TUCSON UNIVERSAL CROSSOVER • UNION PACIFIC RAILROAD • TUCSON, AZ (2016) Project manager for coordination and track design of universal crossover and rail raise.

PORT OF TUCSON INDUSTRIAL LEADS • UNION PACIFIC RAILROAD • TUCSON, AZ (2016) Project manager for coordination and track design of multiple industrial leads.

LORDSBURG MANIFEST • UNION PACIFIC RAILROAD • NEW MEXICO (2016) Project manager for track design and structures design, coordination, and track design of Lordsburg Manifest Yard.

MCCONNELL AIR FORCE BASE ENVIRONMENTAL ASSESSMENT OF INSTALLATION DEVELOPMENT • U.S. DEPARTMENT OF DEFENSE • KS (2012) Project engineer for performing environmental investigations and data analysis to write noise sections of IDEA document.

JOINT BASE CHARLESTON ENVIRONMENTAL ASSESSMENT • U.S. DEPARTMENT OF DEFENSE • NORTH CHARLESTON, SC (2012) Project engineer for conducting environmental investigations and analysis, and writing the Cumulative Effects and Cumulative Impacts for Environmental Assessment.

JANEL KAUFMAN, PE

ENVIRONMENTAL ENGINEER/PERMITTING

FAIRCHILD AIR FORCE BASE ENVIRONMENTAL ASSESSMENT OF INSTALLATION DEVELOPMENT • U.S. DEPARTMENT OF DEFENSE 8 • WA (2012)
Project engineer for performing environmental investigations and data analysis to write noise sections of IDEA document.

I-95/US-301 INTERCHANGE IMPROVEMENT AND US-301 EXTENSION TO SC-6 • SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION • ORANGEBURG COUNTY, SC (2012) Project engineer for performing wetland field investigation, data analysis, and preparation for Jurisdictional Determination for USACE. Performed data analysis and assist with preparation of Environmental Assessment.

SC-707 • SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION • HORRY COUNTY, SC (2012) Project engineer for performing data analysis and impact calculations to prepare and submit Individual Permit for USACE.

WELLFORD LANDFILL METHANE AND GREENHOUSE GAS TO ENERGY PROJECT • SPARTANBURG COUNTY • SPARTANBURG COUNTY, SC (2011)
Project engineer for conducting field investigation for wetland and jurisdictional waters delineation and preparation of Jurisdictional Determination for USACE. Assisted in the analysis of environmental data to write Environmental Assessment NEPA document.

CSX TRANSPORTATION EROSION CONTROL • CSX TRANSPORTATION • TROUP COUNTY, GA (2011) Project engineer for performing multi-phase erosion control design on a railroad siding and storage track project in West Point, Georgia.

W. DAVIDSON AVE BRIDGE REPLACEMENT • CITY OF GASTONIA • GASTONIA, NC (2009) Project engineer responsible for creating and improving HEC-2 model for existing and proposed bridge conditions.

CONOCONNARRA SWAMP • SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION 8 • HALIFAX COUNTY, NC (2009) Project engineer for analyzing and updating HEC-RAS model for bridge replacement. Prepared Bridge Survey Report and No Rise Certification.

LITTLE FISHING CREEK • SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION • HALIFAX COUNTY, NC (2009) Project engineer for analyzing and updating HEC-RAS model for bridge replacement. Calculated and compared current and proposed FEMA flood zones and created Conditional Letter of Map Revision.

PROFESSIONAL REFERENCES

TOM MOUNDFORD • LPNDRD • 402.443.5339

AMY ZOTSKI • FHU • 402.858.3276

AMANDA GRINT • P-MRNRD • 402.315.1722

Joint Water Management Advisory Board
August 4, 2020 - 9:00 A.M.
Fremont Municipal Building, 2nd Floor Meeting Room,
400 East Military, Fremont Nebraska

Videoconference Meeting Participation Notice

In the interest of public health and safety, this meeting will be conducted both in person and online through the Zoom link below. Citizens may also call into the meeting by dialing one of the numbers listed below.

Join Zoom Meeting

<https://zoom.us/j/95129201187>

Meeting ID: 951 2920 1187

One tap mobile

+12532158782,,95129201187# US (Tacoma)

+13462487799,,95129201187# US (Houston)

Dial by your location

+1 253 215 8782 US (Tacoma)

+1 346 248 7799 US (Houston)

+1 669 900 9128 US (San Jose)

+1 301 715 8592 US (Germantown)

+1 312 626 6799 US (Chicago)

+1 646 558 8656 US (New York)

Meeting ID: 951 2920 1187

Find your local number: <https://zoom.us/u/ac226cSttq>

Zoom Tutorial:

https://support.zoom.us/hc/en-us/articles/206618765-Zoom-Video-Tutorials?_ga=2.150510262.1497980210.1584968460-1067452037.1584536802

Agenda:

1. Meeting called to order – Bob Missel
2. Roll call.
3. Approval of the minutes from the May 19, 2019 meeting.
4. Grant Updates
 - a.
 - b. Elkhorn Township Drainage Study – Tom Smith
 - c. Platte River Cameras and Sensors – Tom Mountford/Tom Smith
 - d. Platte River Breach (Rod & Gun Club) – Tom Mountford/Tom Smith
 - e. North Bend Drainage District – Larry Ruzicka/Tom Smith
 - i. Letters of commitment for local match

- f. Joint Water Management Advisory Board Resiliency Plan – Lottie Mitchell
 - i. Hazard Mitigation Grant Program
 - ii. EDA FY2019 Disaster Supplemental Funding
 - iii. Natural Resources Conservation Service Watershed & Flood Prevention Operations
 - g. Ames Dike – Grant Hanson
 - h. Community Development Block Grant Funding Opportunities – Susan Nickerson
5. Other grants
 6. Member updates
 7. Public comments
 8. Adjournment.

A meeting notice was printed in the Fremont Tribune and the agenda was posted at the Municipal Building on July 29, 2020, and was distributed to the governing partners of the advisory board. The official current copy of the agenda is available at Municipal Building, 400 East Military, office of the City Clerk. A copy of the Open Meeting Law is posted in the 2nd floor meeting room for review by the public.

**Joint Water Management Advisory Board
Meeting Minutes, May 19, 2019 - 9:00 A.M.
Fremont Municipal Building, 2nd Floor Meeting Room,
400 East Military, Fremont Nebraska**

1. **Meeting called to order.** A meeting of the Joint Water Management Advisory Board (JWMAB) was called to order by Bob Missel. It was noted that a copy of the Open Meetings Act is posted continually for public inspection near the entrance door and a notice of the meeting was printed in the Fremont Tribune.
2. **Roll call.** Authorized representatives and guests attending in person and by Zoom were asked to identify themselves and are shown on the attached attendance sheet. A quorum was established.
3. **Approval of the November 5, 2019 meeting minutes.** A motion was made by Nielsen and seconded by Saalfeld to approve the meeting minutes as submitted. Ayes: City of Fremont: Jacobus and Jensen; City of North Bend: Busse; Cotterell Dike: Eason; Ames Dike: Hansen; SID #5: Arps; Lower Platte North Natural Resource District (LPNNRD): Saeger and Pollard; Dodge County: Missel and Saalfeld; Inglewood: Nielsen; and North Bend Drainage: Ruzicka and Taylor. Nays: none. Motion carried 9-0.
4. **Dodge County Hazard Mitigation Grant Program (HMPG) projects update – Tom Smith, Dodge County Emergency Management Director.**
 - a. **Elkhorn Township Drainage Study.** Smith reported that Dodge County received that the Notice of Interest for a study of Elkhorn Drainage has been prioritized for an Advance Assistance Grant through the Nebraska Emergency Management Agency (NEMA). Smith is working with Haggerty (State consultant) on a final review of the plan.
 - b. **Platte River Gauge.** Smith reported that a grant of \$18,200, requiring a 25% local match, has been secured to install a river gauge on the Highway 77 Bridge. Smith will be working with various organizations to split the cost of the local match dollars as well as the ongoing operational costs.
 - c. **Residential Buyout and Construction.** Dodge County is working with 11 applicants that are interested in potentially using grants funds to help elevate their home out of the floodplain.
 - d. **Update on State Action Plan-Community Development Block Grant Disaster Recovery.** The State is working on the Action Plan and should be announcing the public comment period soon.
5. **Other flood related project updates.**
 - i. **Inglewood - Stormwater sewer system and lift station.** Albert Nielsen reported that Inglewood has hired JEO Consulting to help them with repairs to the sewer line, lift station, and Village streets damaged by the flood.
 - ii. **North Bend Drainage District - Drainage and bank improvement grant.** Larry Ruzicka reported that the District's Notice of Interest for \$1.7 million of work to the ditch and bank has been prioritized by NEMA. He noted that the flood waters from Shell Creek damaged the bank during the flood in 2019. The deadline to submit the full application to NEMA is June 30, but considering the information that is required, this deadline will be impossible to meet. In a recent call with NEMA, the deadline might be extended to

September 30, due to the COVID-19 pandemic. Newton suggested that the District develop a Request for Proposal (RFP) for design and construction, and solicit bids contingent upon an extension by NEMA, so the District would be prepared to meet a new application deadline. Members of the Board agreed with this approach.

- iii. **SID #3 (Ventura) flood mitigation efforts.** It was reported that Ventura Board approved a dredging project this summer and the dredged material will be placed in the open Rod & Gun Club breach.
- iv. **SID #5 (Timberwood) flood mitigation efforts.** Arps noted that FEMA has not yet prioritized the claim for their access road because of easement issues. Congressman Fortenberry, via Kim Kwapnioski, is aware of the issue.
- v. **Rod & Gun Club Levee repairs.** John Miyoshi reported that over \$200,000 has been spent filling the breach. There is now an opportunity to use the dredge material from Lake Ventura to help re-establish the levee, however the Corps of Engineers requires stabilization. Cost estimates from JEO for this work is estimated to be \$570,000. Club resources are completely spent of prior flood damage repairs over the past two years. Members of the Board discussed various grant funding sources, including Emergent Threat under the Community Development Block Grant program. The Club will work with Lottie Mitchell to explore these and other grant options.

6. City Grants update – Lottie Mitchell

a. HMGP – Hazard Mitigation Grant Program

- i. **JWMB Resiliency Plan.** A Notice of Interest was submitted, but the Governor’s Task Force did not recommend prioritization because the Corp of Engineers claimed they did much of the work when studying the levee for Fremont.
- ii. **Residential Mitigation Actions.** The City initially had 40 applicants interested in elevating their home, but do to the changing guidelines from NEMA, only 8 remain.

b. WSF – Water Sustainability Fund – matching funds for JWMB

Resiliency Plan. This was intended for the 25% match required by NEMA for the HMGP, but it was denied. Members of the Board discussed the possibility that this fund may work as the matching funds for the North Bend Drainage HMGP project.

c. Rebuild the Heartland – 25% matching funds for HMGP Residential

Mitigation Actions. The Greater Dodge County Long Term Recovery Group has qualified for \$125,000 in grant funds to help City residents with their HMGP match (25%) as they elevate their homes.

d. CDBG – Community Development Block Grant

- i. **Emergent Threat – Ames Dike and Fremont, Farmland, and Railroad Levee Repairs.** CDBG funds of \$485,000 are currently being used as the local 25% match for permanent repairs being made to the Ames Dike and \$72,000 of CDBG funds are being used to assess and survey the Fremont, Farmland and Railroad Levee and \$485,000 has been secured for tree removal.
- ii. **Disaster Relief Funding (\$108 million).** Dodge, Douglas and Sarpy Counties are eligible for up to \$87 million in Disaster Relief Funds.

Lottie said as soon as the applications are made available, the City will be submitting an application.

e. EDA FY2019 Disaster Supplemental Funding – JWMB Resiliency Plan.

Northeast Nebraska Economic Development District (NENEDD) is working on an EDA grant application for the Resiliency Plan. Tina Engelbart with NENEDD talked about the procurement process we used to award the proposed work under the Plan to JEO and how this will preclude JEO from bidding on any further engineering work funded through an EDA grant. Lalit Jha with JEO said he understood that, but still recommended we proceed with the EDA grant application.

7. **Other Grants.** Grant Hanson provided an update on the progress of the repairs to the Ames Dike and the CDBG funds being used as their local match with the Corps of Engineers. Lalit Jha with JEO reported that the grant from the Nebraska Natural Resources Commission has a deadline of July 31, 2020. He said this grant can fund 100% of both planning and construction activities; he will contact the commission to inquire about applying for a grant.
8. **Public Comments.** none
9. **Adjournment.** A motion was made by Pollard and seconded by Eason to adjourn the meeting at 10:05 am. By roll call vote, the motion was unanimously approved.

Minutes prepared by Brian Newton, Fremont City Administrator

DRAFT

August 10, 2020

Nebraska Emergency Management Agency
2433 NW 24th Street
Lincoln NE 68524

RE: North Bend Drainage District– Cutoff Ditch Improvements

To Whom it May Concern,

The North Bend Drainage District is requesting financial assistance through FEMA's Hazard Mitigation Grant Program to address drainage issues and more importantly, to mitigate the risks of Platte River flood events.

As part of the Joint Water Management Advisory Board, Lower Platte North Natural Resources District (LPNNRD) is budgeting up to a maximum \$100,000 for the North Bend Drainage District Improvement Project in FY 2021. LPNNRD's final contribution is contingent on the amount of grant assistance and other partner funding contributions secured for the project. Funding and other responsibilities will be outlined in an Interlocal Agreement between JWMAB members to include the North Bend Drainage District, Dodge County, City of Fremont, and LPNNRD. Funding outlined in the Interlocal Agreement will be available for the duration of this project.

Dodge County, on behalf of the North Bend Drainage District, will be applying for a Community Development Block Grant, which may also cover a portion of the local share of the project. Should Dodge County not receive the block grant, LPNNRD will contribute our share of the local match towards the project.

If you have any questions, please feel free call the LPNNRD Office at 402-443-4675.

Sincerely,

Eric Gottschalk, General Manager
Lower Platte North Natural Resources District

Tom Mountford

From: Becky Appleford <rappleford@jeo.com> on behalf of Becky Appleford
Sent: Wednesday, July 22, 2020 2:01 PM
To: Hindt, Lexy
Cc: Tom Mountford; 'Chris Poole'; Green, Joseph; Slack, McKenzie
Subject: RE: LPN NRD HMP - FEMA Review RFI #1

Good afternoon,

We have reviewed the required revisions and areas for improvement as outlined in the LPNNRD HMP RFI #1. Before finalizing the edits to the plan, please find below an outline of the approach being implemented to address these revisions. Please advise if additional changes or change in approach is recommended to assist with minimizing the potential for a second RFI.

Element B2

1. As recommended in the RFI, a Hazard Matrix will be added to each of the County Profiles which will include each of the jurisdictions in the County and the 15 hazards profiled in the plan. Along with the table, the following introductory paragraph will be included:
 - a. "The following table provides a summary of hazards that have or have the potential to affect each jurisdiction in Saunders County. Each jurisdiction was evaluated for previous hazard occurrence and the probability of future hazard events on each of the 15 hazards profiled in this plan. The evaluation process was based on data collected and summarized in Table SAU.9, County Hazard Loss History; previous impacts or the potential for impacts to infrastructure, critical facilities, people, and the economy; and the proximity to certain hazards such as dams and levees. For example, while there have not been instances of dam failure in the County, there exists a possibility for a dam to fail in the future due to the presence of dams in the County."

Element B3

2. An overall summary of vulnerability is already included for each hazard in Section Four with a table identifying the applicable vulnerabilities to people, economy, built environment, infrastructure, and critical facilities, which provides a comprehensive overview of vulnerability for all of the jurisdictions. Specific community vulnerabilities are addressed in each community profile in the Hazard Prioritization discussions.
 - a. All communities with an SFHA will be reviewed to ensure that flooding discussions appropriately depict the vulnerability to the hazard. Where a more robust discussion on vulnerability to flooding is needed, updates to the discussion will be made.
 - b. In each of the community profiles, a column will be added to the Parcel Improvements and Value in the Floodplain table indicating the percentage of the improvements (i.e. the community) is in the floodplain. This information will then be tied back to the flooding discussion to indicate potential community exposure to flooding; for example, generally a higher percentage of the community in the floodplain equates to a higher vulnerability to assets at risk to flooding.
 - c. In Section Four: Flooding, a summary table of Parcel Improvements and Value in the Floodplain by County and Total Planning Area along with a discussion will be added to the Regional Vulnerabilities section.
3. In Section Four: Flooding, Table 59 NFIP Policies in Force and Total Payments, two additional columns will be added to include data on Total Losses and Total Payments by community.
4. As recommended in the RFI, the lead-in sentence under the Hazard Prioritization section in the Community Profiles will be rewritten to the following:
 - a. "The hazards discussed in detail below were selected by the local planning team from the regional hazard list as the relevant hazards for the community. The selected hazards were prioritized by the

local planning team based on historical hazard occurrences, potential impacts, and the community's capabilities.”

We will also address many of the areas of improvement where feasible, but we do have a couple of questions to further clarify what needs to be addressed. Both questions are from Element A.

1. RFI indicates that Tables 20 and 21 are duplicates. Table 20 is Inventory of Care Facilities and Table 21 is Vulnerable Populations. Please provide further clarification on which tables were duplicated.
2. It is not clear what further improvements are needed to identify how cited documents were incorporated into the plan. We take exhaustive efforts to ensure citations to sources are used throughout the document, but the comment indicates the “plan does not identify what section(s) in the plan benefited from the identified source documents.”

Thank you for your assistance and guidance. If you would like to discuss our revision methodology or any of the items on the FEMA HMP Review Tool for this plan, we would be open to a conference call with NEMA and the NRD and the planning staff. We will ensure that the required revisions are addressed as requested and resubmit the revised plan by the July 30th deadline.

Sincerely,
Becky

REBECCA APPLEFORD, CFM | Senior Planner | Hazard Mitigation and Emergency Planning
JEO CONSULTING GROUP INC
11717 Burt Street | Omaha, Nebraska 68154-1510
d: 402.392.9915 | m: 217.741.0117 | o: 402.934.3680 | f: 402.934.3681
rappleford@jeo.com

From: Hindt, Lexy <lexy.hindt@nebraska.gov>
Sent: Thursday, July 9, 2020 1:50 PM
To: 'tmountford@lpnrd.org' <tmountford@lpnrd.org>
Cc: 'Chris Poole' <cpoole@lpnrd.org>; Becky Appleford <rappleford@jeo.com>; Green, Joseph <joe.green@nebraska.gov>; Slack, McKenzie <mckenzie.slack@nebraska.gov>
Subject: LPN NRD HMP - FEMA Review RFI #1
Importance: High

Good Afternoon Tom-

FEMA has completed their review of the Lower Platte North NRD Hazard Mitigation Plan.

Upon completion of their review, they have identified a few areas that need improvement prior to approval. I have attached RFI #1 to this email. On page 4 & 6 the elements that require revisions. Please have these revisions returned to the State on or before **July 30, 2020**.

If you have any questions, do not hesitate to reach out to myself or Joe Green.

Lexy Hindt

Deputy State Hazard Mitigation Officer | RECOVERY

Nebraska Emergency Management Agency

2433 N.W. 24th St., Lincoln, NE 68524-1801

CELL 531-739-7051

FAX 402-471-7433

lexy.hindt@nebraska.gov



Invoice

July 30, 2020

Project No: R170337.00

Invoice No: 118330

Invoice Amount: 4,659.88

Tom Mountford
Lower Platte North NRD
511 Commercial Park Road
PO Box 126
Wahoo, NE 68066

Project Manager Rebecca Appleford

Project R170337.00 Lower Platte North NRD Hazard Mitigation Plan 2020 Update

Professional Services through July 24, 2020

Table with 6 columns: Lump Sum Phase(s), Contract Amount, Percent Complete, Billed-to-Date, Previous Billing, Current Billing. Rows include Project Management, Public and Stakeholder Engagement, Data Collection, Develop Mitigation Plan, Submission and Adoption of the HMP, Parcel-Level Flood Risk Assessment - Fremont, Parcel-Level Flood Risk Assessment - Schuyler, Project Screening and Additional Project Tasks, Saunders County, Prague, Wahoo, Yutan Dam Hazard Zoning Overlays, and Total.

Email invoice to: Tom Mountford; tmountford@lpnrd.org & Jill Breunig; jbreunig@lpnrd.org



MONTHLY PROGRESS REPORT
Lower Platte North NRD Hazard Mitigation Plan Update

JEO PROJECT NO. 170337.00
Project Contact: Becky Appleford, 402.392.9915

Through the Period of July 24, 2020

1. Overall Project and Budget Status:

- Project Completion: 99% Budget: 99%

2. Work completed during current period (thru July 24, 2020)

a. Hazard Mitigation Plan Update

- Comments received from FEMA on required revisions to HMP on July 9th
- Developed plan to address required revisions to HMP
- Began revising HMP for resubmittal

b. Saunders County, Prague, Wahoo, Yutan Dam Hazard Zoning Overlays

- Project setup following approval from NRD board
- Coordination with County and communities to schedule meetings

3. Planned accomplishment for next period (July 25 – August 21, 2020):

a. Hazard Mitigation Plan Update

- Finalize required revisions to HMP by July 30th and submitted to NEMA/FEMA
- Provide notice of approval and adoption resolutions post plan approval
- Provide information to the NRD and other stakeholders as requested

b. Saunders County, Prague, Wahoo, Yutan Dam Hazard Zoning Overlays

- Facilitate the following scheduled meetings:

	Open House Meeting	Publication	Planning	Governing Body
Saunders	NA	26-Aug	14-Sep	29-Sep
Wahoo	NA	14-Aug	3-Sep	24-Sep
Yutan	18-Aug		TBD	15-Sep
Prague	20-Aug		31-Aug	17-Sep

- Develop zoning text for Yutan and Prague
- Complete mapping of dam inundation areas for zoning
- Trace 7 USACE dam inundation maps, if shapefiles not provided and NRD board approval

4. Action items:

- Resubmit HMP to NEMA/FEMA for review and approval
- Complete maps
- Provide correspondence as needed

5. Project schedule:

- On schedule

6. Information from NRD or Planning Team:

- None

7. Next Meeting Dates and Times:

- None

Itinerary of Chief Lohr's Visit to Nebraska

Tuesday, August 4

- **9:30 p.m.** Craig will pick up Chief Lohr at the Lincoln airport from United flight #5535 and take him to his hotel.

Wednesday, August 5

- **7:30 a.m.** Craig will pick up Chief Lohr at the hotel. They will ride together to [Lake Wanahoo Education Building](#).
- **8:30 a.m.** Arrive Lake Wanahoo

Meet with Lower Platte North Natural Resources District staff/board members, Wahoo NRCS field office staff and other staff/partners including: Brad Soncksen, NRCS Assistant State Conservationist for Programs; Joanna Pope, NRCS State Public Affairs Officer; Steve Nelson, President of the Nebraska Farm Bureau; Ralph Pieke, former NRD board member; Dean Edson, Executive Director of the Nebraska Association of Resources Districts; and Kent Zimmerman, president of the National Association of State Conservation Agencies (others?)

* Brad and Joanna can travel to Wahoo together in a vehicle. Brad can ride back to Lincoln with Jim Reedy and Brian Baskerville (check out van or larger GOV to spread out) to keep numbers low for Rogers Memorial Farm visit since they are asking for small number of visitors.

- **8:30 – 8:45 a.m.** Welcome Chief Lohr to Nebraska and provide introductions – Craig Derickson, Nebraska NRCS State Conservationist
- **8:45 – 9:00 a.m.** NRCS employees introduce themselves and briefly share about the work they're doing
- **9:00 – 9:45 a.m.** NRD Discussion – Eric Gottschalk, Lower Platte North NRD General Manager and Tom Mountford, Lower Platte North NRD Assistant Manager
 - Overview/history of the NRD system and its roles and responsibilities
 - Lake Wanahoo
 - Important conservation field work in the Lower Platte North NRD
 - Shell Creek (Ralph Pieke)
 - History of PL-566 dams in the Lower Platte North NRD
 - Wahoo Creek Watershed
- **9:45 – 10:00 a.m.** Overview of the Nebraska Association of Resources Districts roll – Dean Edson, Executive Director of NACD
- **10:00 – 10:15 a.m.** Nebraska Department of Natural Resources/National Association of State Conservation Agencies update - Kent Zimmerman, NASCA President
- **10:15 – 10:30 a.m.** Break

- **10:30 – 11:15 a.m.** Demo of LIDAR and survey equipment – Jim Reedy, NRCS State Technology Engineer & Josh Charles, Soil Conservation Technician
- **11:15 – 11:45 a.m.** Demo of GIS tools used for wetland determinations – Brian Baskerville, NRCS Area Technology Specialist
- **11:45 – 12:30 p.m.** Lunch (Eric offered to purchase lunches from Subway. We can eat at the Wahoo Environmental Education Center or if we're running behind, we can eat on the road)
- **12:30 – 12:45 p.m.** Travel to Beginning Farmer site
- **12:45 – 1:30 p.m.** Tour/visit with beginning farmer Joe Petersen about how he's worked with NRCS to make conservation improvements on his farm – Jami Thoene, NRCS Resource Conservationist and State Beginning Farmer/Rancher Coordinator will facilitate
- **1:30 – 2:00 p.m.** Travel to [Rogers Memorial Farm](#) – 18630 Adams Street, Lincoln NE (Invited in addition to those presenting on site: Corey Schmidt, NRCS District Conservationist; Mike Bergert, NRCS Resource Conservationist, Steve Wellman, Nebraska Department of Agriculture Director, Orval Gigstadt. We have been requested by the Rogers Farm staff to keep attendee size small due to COVID. All attendees will need to mask up. If raining, will only have access to bldg. the size of a 2-stall garage. No rest rooms available. Will make pit stop in Waverly).
- **2:00 – 3:00 p.m.** Tour farm and cover crop plots, followed by a presentation about the tillage study - Paul Jasa, Extension Engineer
- **3:00 – 3:30 p.m.** Soil Health Demonstration – Aaron Hird, NRCS State Soil Health Specialist
- **3:30 – 4:00 p.m.** Travel to Mike McDonald's field near Douglas, NE (Invite: Britt Weiser, NRCS State Resource Conservationist; Neil Dominy, NRCS Assistant State Conservationist for Partnerships and Initiatives, Doug Wagner, NRCS Area Conservationist)
- **4:00 – 4:30 p.m.** View Mike's cover crop field and learn about his role in the Soil Health Taskforce
- **4:30 – 5:15 p.m.** Travel back to the hotel
- **6:30 – 8:30 p.m.** Dinner with Chief (10-12 maximum, outdoors if possible)

Thursday August 6

- **7:00 a.m.** - Craig and Allen Gehring will pick up Chief Lohr at his hotel. (Chief will need to check out of hotel.) During the drive Allen Gehring, NRCS State Engineer will provide an overview of EWP and watershed projects in Nebraska.
- **7:00 - 8:00 a.m.** Travel to Kirkpatrick Wildlife Management Area just west York (*NRD could be rain alternative site*) Invite: Andy Bishop, Rainwater Basin Joint Venture Coordinator; Kim Siebert, area landowner; Dave Eigenberg, Upper Big Blue Natural Resources District General Manager; Roric Pallman, Rainwater Basin Joint Venture board member; Brad Dunbar, Lindsay Cooperation; Gayle Marsh, landowner; James Huntwork, NRCS Area Conservationist; Josh Bowers and the York NRCS field office staff. (**Should make a rest room stop at rest area along I-80 just before York.*)
- **8:00 - 8:15 a.m.** Introductions and History of RWBs the JV and partnership – Andy Bishop, RWBJV Coordinator

- **8:15 – 8:35 a.m.** Kim Siebert will talk about how he's using his cattle to graze Kirkpatrick WMA through public/private partnership between NRDs/RWBJV/NRCS to help manage wetland and provide forage for his cattle. [See story here](#)
- **8:35 – 9:15 a.m.** Irrigation Innovation
 - "Divots in the Pivots" RCPP - Gayle Marsh and Brad Dunbar
 - NRD Irrigation projects - Dave Eigenberg
 - NRD water programs in the Platte Valley for the past 30 years - James Huntwork
- **9:15 – 10:30 a.m.** Travel back to the Federal Building
- **10:30 a.m. – 10:45 a.m.** Break
- **10:45 – 11:15 a.m.** Meet with NRCS employees in Room 397 A&B include field staff via Teams
- **11:15 a.m.** Lunch brought into 397 A&B for Chief and combined Nebraska state office and National Soil Survey Center (NSSC) leadership staffs
- **11:30 a.m.** Begin discussion on NSSC operations via Teams for offsite National Leaders – Nebraska state office leadership staff invited to stay. Each National Leader will have 10 minutes to highlight what their branch is doing for NRCS and the conservation partnership
- **12:50 p.m.** Kellogg Soil Survey Lab tour including processing, archive, and lab
- **1:30 p.m.** Return to 372 or Nebraska NRCS state office for wrap up.
- **1:45 p.m.** Head to Lincoln airport
- **3:16 p.m.** Chief Lohr's flight leaves Lincoln

NRCS Staff should make every attempt to carpool to keep number of GOVs low at each site. Should also try to reserve larger GOVs and spread out within the vehicle, masks on, windows cracked. Masks will be required at indoor locations and at Rogers Memorial Farm – even while outside. Remember to social distance at all tour sites, including for photos. Other partner agencies may have different COVID-19 safety protocol, but we need to follow NRCS policy and do everything we can to keep the Chief safe and comfortable while traveling.

Lower Platte North NRD
Bills Pending - August 10, 2020

Vendor	Description	Open Balance
ADT	Maintenance Contract	\$ 22.93
Aflac	Employee Benefits	\$ 566.82
Albion News	Viaduct Inserts	\$ 174.50
All Copy Products Inc	Maintenance Contract	\$ 115.13
Anna K. Gottschalk	Office Cleaning Expense	\$ 405.00
Banghart Diesel & Performance	Repairs to RW Truck	\$ 2,822.61
Benes Service	Repairs to Great Plains Grass Drill	\$ 626.12
Bomgaars	Wanahoo Rec Mgmt/Normal O & M/Wanahoo Ed Bldg	\$ 712.22
Bomgaars	Wanahoo Rec Mgmt/Normal O & M/Wanahoo Ed Bldg	\$ 663.65
Bret C. Schomer	Cell Phone Reimbursement	\$ 35.00
Bromm Lindahl Freeman-Caddy	Retainer Expense	\$ 500.00
Butler Public Power District	Utilities Wanahoo/Czechland	\$ 5,332.36
Christopher L. Poole	Cell Phone Reimbursement	\$ 30.00
Cintas	Lake Wanahoo Ed. Bldg	\$ 123.80
Corner Market	Fuel Expense	\$ 1,430.55
Daryl Andersen	Cell Phone Reimbursement	\$ 45.00
DAS State Acctg - Central Finance OCIO	Cell Phone/iPad Expense	\$ 490.70
David A Moore	Cell Phone Reimbursement	\$ 40.00
David City Utilities	Bruno Water Purchase	\$ 2,876.69
Diode Communications	NRD Remote Monthly Fee	\$ 18.00
Diode Communications	Lake Wanahoo Ed. Bldg Remote Monthly Fee	\$ 20.00
Eakes Office Solutions	Office Supplies/Czechland Expense	\$ 61.88
Eric Gottschalk	Cell Phone Reimbursement	\$ 45.00
Fremont Sanitation	NRD/Wanahoo Garbage	\$ 180.00
Greater Wahoo Development Foundation	Dues and Membership	\$ 250.00
HBE	Professional Service Accounting	\$ 6,550.00
Humphrey Democrat	Viaduct Inserts	\$ 150.00
Intermedia	Phone Expense	\$ 150.79
JEO Consulting Group, Inc.	Hazard Mitigation Expense	\$ 4,659.88
Kim Homes	Lake Wanahoo Ed Bldg Cleaning Expense	\$ 225.00
Klein Sales & Service	Water Mark Sensors	\$ 1,224.00
Konica Minolta	Lease Payment	\$ 254.17
KTIC 840 Rural Radio	Radio Ad	\$ 201.50
Lacey Sabatka	Cell Phone Reimbursement	\$ 40.00
Lincoln Journal Star	Viaduct Inserts/Budget Notice	\$ 850.29
Lower Loup Natural Resources District	NRCS Salaries	\$ 20,057.58
Mid-American Benefits, Inc	Employee Benefits	\$ 368.75
Midwest Laboratories, Inc	GW Monitoring	\$ 442.60
NARD Risk Pool Association	Employee Benefits	\$ 34,871.99
Nationwide	Retirement Benefit	\$ 5,968.69
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Nebraska Game & Parks Commission	GW Quality/GWMP Cost-Share	\$ 195.00
Nebraska Public Health Environmental Lab	GW Quality/GWMP Cost-Share	\$ 96.00
Nebraska Public Health Environmental Lab	Colon RW Testing	\$ 190.00
Nebraska Public Health Environmental Lab	GW Quality/GWMP Cost-Share	\$ 224.00
Nebraska Public Health Environmental Lab	GW Quality/GWMP Cost-Share	\$ 976.00
Nebraska Water Resources Association	Dues and Membership	\$ 1,950.00
Noah Franzen	Mileage Expense	\$ 63.80
North Bend Eagle	Viaduct Inserts	\$ 120.00
Olsson Associates	Wahoo Creek Watershed	\$ 14,258.05
One Call Concepts, Inc	One Call Expense	\$ 18.06
OOP	Diesel	\$ 375.77

Lower Platte North NRD
Bills Pending - August 10, 2020

OOP	Normal O & M/Wanahoo	\$ 291.26
O'Reilly Auto Parts	Wanahoo Rec Mgmt	\$ 21.16
Papio-Missouri River NRD	Water Strategies Reimbursement	\$ 1,800.00
Pitney Bowes - Purchase Power	Postage Expense	\$ 1,008.50
Preston Schnitzler	Mileage Expense	\$ 31.63
Rydin	Wanahoo Park Permits	\$ 426.79
Sam's Club	Office Expense Other	\$ 25.94
Schuyler Cooperative Assn	Great Plains Grass Drill Repair	\$ 80.75
Sean Elliott	Cell Phone Reimbursement	\$ 45.00
Simons Home Store	Wanahoo Rec Mgmt/Wanahoo Ed. Bldg	\$ 415.73
SpartanNash	GW Quality Program	\$ 17.66
Spring Wendt	Shell Creek Watershed Cost Share Work	\$ 7,464.60
State of Nebraska - DEE	Chemigation Expense	\$ 90.00
Thomas A. Mountford	Cell Phone Reimbursement	\$ 45.00
TITAN MACHINERY	Bobcat Repair	\$ 445.14
Todd Valley Farms, Inc.	Sod for Wanahoo Ed. Bldg	\$ 3,032.05
Troy R Thompson	Computer Consultant	\$ 375.00
Tyler Benal	Steel Toe Boot Reimbursement	\$ 66.60
Tyler Benal	Cell Phone Reimbursement	\$ 40.00
U.S. Geological Survey	Stream Gauging Stations	\$ 17,090.00
UBT	Bi-Weekly Payroll - 7/24/20	\$ 47,660.96
UBT	Bi-Weekly/Monthly Payroll - 8/7/20	\$ 48,574.81
Union Bank & Trust	Bank Fees	\$ 39.32
Wahoo Auto Parts	Oil/Filters	\$ 389.52
Wahoo Auto Parts	Auto and Truck Repairs	\$ 72.38
Wahoo Bakery	Personnel/Director Mtg Expense	\$ 27.55
Wahoo Metal Products and Supplies Inc.	Wanahoo Rec Mgmt/Monitoring Wells	\$ 592.73
Wahoo Newspaper	E-Ads - Viaduct Insert - Fair Ad	\$ 774.73
Wahoo Utilities	Utilities Expense/Colon Water Purchase	\$ 2,896.48
William Brueggemann	Cell Phone Reimbursement	\$ 35.00
Windstream	Phone Expense	\$ 354.48
Grand Total		\$ 252,246.41

Consent Agenda

August 10, 2020

- 5. Approval of Minutes
- 6.A.3.a3 Directors Absence
- 6.A.3.c. LARM 2020-2021 Renewal Proposal
- 6.A.6.a. Approval of Financial Reports
- 6.A.6.b. Manager Time and Expense Sheets
- 6.B.3.d. Community Forestry Roll Call Veterans Memorial Newman Grove
- 6.B.4. Rock and Jetty Payment
- 6.C.7.b. USGS Stream Flow Gauging Sites
- 6.D.2.a. SWCP Application Approvals
- 8. Authorize General Manager to approve and then treasurer to pay monthly recurring expenses pursuant to April 11, 2011 board policy.