

Regular Board of Directors Meeting
Monday, September 11, 2023 6:00 PM
Lower Platte North NRD Office
P.O. Box 126
Wahoo, NE 68066

1. Call to Order

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

1.A. Meeting Notice

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

1.C. Pledge of Allegiance

2. Roll Call

2.A. Introductions

3. Approval of Agenda

Are there any additions or corrections to the agenda?

4. Comments - Advisors/Guests

4.A. Guest Comments

4.B. NRCS Report

4.C. NARD Report

4.D. NRC Report

4.E. Managers Report

4.F. Education Program

5. Approval of Minutes

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

6. Report of Standing Committees

6.A. Executive Committee - Action as Required

6.A.1. UNFINISHED BUSINESS

6.A.2. MEETINGS

6.A.2.a. Pending

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

Attached find the draft agenda and listing of Directors/Staff registered to attend the NARD Fall Conference - September 25-26 in Kearney. If you would like to attending, please let Breunig know.

6.A.2.b. Reports

6.A.3. MANAGEMENT ITEMS

6.A.3.a. Directors Absence

6.A.3.b. Monthly Education Program

Topics could include:

- NRCS Urban Agriculture overview
- Multiple Water Topics
- CLASS Investments

6.A.3.c. Temporary Construction Easements - City of Wahoo

We have received the temporary construction easement, purchase agreement and permanent easement from the City of Wahoo for the Sandcreek Utility Project. All documents have been reviewed by Legal Counsel Lausterer. We are still waiting on a temporary ingress/egress easement for access through our property for the work on the north side of Hwy 77/92 4-lane.

6.A.3.d. NARD Dues Payment

We have received our annual dues statement from NARD in the amount of \$32,575.87.

6.A.3.e. Sub-District 2 Director Vacancy

Director Thompson and Sub-Committee will bring a recommendation to the full board on Monday, September 11th.

6.A.3.f. FNIC - 10/1/23 Renewal

Matt Greenway from Glatfelter was present at the Executive Committee to review our full proposal and premium summary.

With the updated inspection report on Lake Wanahoo Matt is hoping to get updated premium numbers that include Structure Liability Coverage on Wanahoo.

A motion will be needed at Board Meeting to approve the proposal in the amount of \$116,293 from FNIC for insurance coverage from 10/1/2023 to 10/1/2024.

To add, downstream liability coverage on our Wanahoo Dam will be an extra \$1,214. If we wish to add this coverage, an additional motion will be needed tonight.

6.A.3.g. New Office Building

Attached find two geotechnical exploration proposals for required work on our Wanahoo property for the new office building. One is from Terracon from Lincoln and Thiele Geotech Inc. from Omaha. The proposals provide requested scope of services and estimated costs. JEO and staff recommend accepting Thiele Geotech Inc. at the proposed cost of \$ 6,200.

6.A.3.h. November Board Meeting

Discussion is needed an arrangements will need to be made if we wish to hold the November Board Meeting away from the office.

6.A.3.i. Long Range Plan

Please review the attached Long Range Plan. Approval of the plan will come from Operations Committee.

6.A.4. EQUIPMENT

6.A.5. PERSONNEL

6.A.5.a. Water Dept. Staffing

Will Brueggemann has been working 1/2 time remotely and in-office for the past year and a half as he and his wife were traveling for her job as a traveling nurse. Will's wife will no longer be traveling so Will is available to return to full time. We have not replaced Tyler Benal's Water Specialist position since his departure a month ago and management recommends bringing Will back on full-time effective 9-15-23.

6.A.6. FINANCE

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

Grant will be available to update the Committee on the draft July Financials, they will be approved after we receive the annual audit.

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

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

6.A.6.d. Budget and Set Property Tax Rate

As discussed at last month's Board Meeting, our plan is to once again maintain the same tax asking of \$3,480,715 as it has been in the past seven years. Our total expenses are \$8,761,805.

Attached find a breakdown of 2023 Valuations by each county.

Due to the increased valuations, we will be lowering our tax levy from .031404 to .028652 to support our previously approved budget of \$ 8,761,805.

A motion will be needed at the Board Meeting - To approve the State Budget that includes total expenditures of \$8,761,805 with a tax levy rate of .028652 for a tax asking of \$3,480,715.

6.B. Operations Committee - Action as Required

6.B.1. UNFINISHED BUSINESS

There is no unfinished business.

6.B.2. WILD NE AND OTHER PROGRAMS

As mentioned at the previous meeting, we received survey information from Ducks Unlimited. After reviews from both the NRD and Game & Parks, we don't believe we are getting the depth of 18" as originally mentioned. The depth of 18" (of water) may assure that there isn't cattail growth. The entire area is approximately 16 acres; 4-5 acres would be excavated to 18". DU has been contacted via email by Scott Luedtke and Heimann for an updated design, budget and timeline. We haven't had a response.

Saunders Co. Highway has also been contacted in regard to using spoil material to fill the road ditch in this area. The ditch does not convey water and utility power poles stand in water. This request should be taken to the Saunders Co. Supervisors.

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

The O & M crew has mowed at Czechland and Homestead Lakes, Cotterell and Ames Levees and Rawhide Ditches. We are now on the Clear Creek Levee. We have also mowed behind the Wanahoo dam where the construction zones were.

6.B.3.a. Rehabilitation of Cottonwood 21-A, NRCS & HDR

A kick-off meeting was held on August 17th with HDR, NRCS and NRD staff. The meeting went very well and the minutes were just emailed this week. Heimann has forwarded names of landowners in and below the watershed, sent the original easements and located two potential sites for a public meeting. A public meeting will be held in October. HDR has developed a draft Public Participation Plan for a scoping meeting. Lacey will work with HDR in regards to keeping Cottonwood 21-A project information on our website.

6.B.3.b. No Till Grass Drill Revenue

We received a check for \$1,023.70 from Schuyler Coop for grass drill rental for the first half of 2023. Seven cooperators used the drill.

6.B.4. ROCK AND JETTY

Nothing to report.

6.B.5. LAKE WANAHOO

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

For the month of July, the District received \$6,055.00 in annual park permit revenue. The year by year break down of annual permit sales is listed below.

Month	Monthly Total	YTD
July 2023	\$6055.00	\$67690.00
July 2022	\$6292.50	\$68865.00
July 2021	\$6430.00	\$79592.50
July 2020	\$7332.50	\$87472.50
July 2019	\$7925.00	\$75310.00

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

For the month of July, the District received \$21,176.94 in camping revenue. The year by year comparison is listed below.

Month	Month Total	YTD
July 2023	\$21176.94	\$83169.40
July 2022	\$18175.50	\$78417.83
July 2021	\$15326.94	\$82512.73
July 2020	\$12615.36	\$87645.40
July 2019	\$18046.00	\$60916.46

6.B.5.c. Clint Johannes Education Building

The Clint Johannes Education Building was rented 18 times with 2 NRD events. Revenue for the month of August was \$1,090.

6.B.6. INFORMATION AND EDUCATION

6.B.6.a. Information

6.B.6.a.1. Radio & Digital Ads

August's KTIC radio ad featured the upcoming variance deadlines. September will feature the availability of environmental education programs

August's Wahoo newspaper ad featured the upcoming variance deadlines. September will also feature the environmental education programs. The ads are attached.

6.B.6.a.2. Analytics

The LPNNRD Facebook/Twitter pages, and the website are some of the fastest ways to get information out to the public. Tracking analytics are a way

to see how many people are seeing the information. Sometimes a decrease in reach or impressions can mean there is an error with the Facebook/Twitter pages or the website. Facebook and Twitter posts range from 10 - 15 posts per month. If you are on Facebook or Twitter, please like, follow, share, or retweet the Lower Platte North NRD posts!

Total reach/impressions show how many people saw the post/tweet. Engagements include likes, comments, shares/retweets and link clicks.

	Total Reach	Engagements	Followers
	5,101	550	1,489
	9260	428	1,481
	7,626	1,252	1,474

	Total impressions	Engagements	Followers

	3,292	123	405
	2,072	99	404
	1,111	56	400

Top Posts on Facebook and Twitter:

- Sentinel Fertigation demo flyer
- Environmental education opportunities flyer
- Science and Scenes event flyer
- Shell Creek students presentation photos from SWCS conference
- Director vacancy

	Users	Traffic Channel	Top Pages	Devices

	2,402	Organic 63.1% Direct 30.3% Referral 4.7% Social 1.9%	Lake Wanahoo Home Czechland Lake Downloads Staff	Mobile 53.28% Desktop 45.59% Tablet 1.13%
	2,409	Organic 71.8% Direct 21.7% Referral 5.2% Social 1.3%	Lake Wanahoo Home Czechland Lake Downloads Outdoor Recreation	Mobile 62.2% Desktop 36.2% Tablet 1.5%
	2,523	Organic 72.7% Direct 20.8% Referral 5.4% Social 1%	Lake Wanahoo Home Czechland Lake Outdoor Recreation Downloads	Mobile 65.2% Desktop 33.1% Tablet 1.7%

Traffic channels: organic traffic means they use a search engine then choose an option that includes lpnnrd.org, direct traffic means they type in lpnnrd.org directly (or have it bookmarked), and referral traffic is any other traffic not from a search engine or social (such as a link from another site).

Top referral clicks from: visitnebraska.com 25, onlyinyourstate.com 23, nrdnget.org 17, Wahoo newspaper website (our digital ad) 2

Clicks from Facebook: 39.

Clicks from Twitter: 0.

6.B.6.a.3. Long Range Plan

Attached is the most recent copy of the Long Range Plan. Once the levy information is approved, and there are no additional changes to the plan, we will need to have this approved and sent per Nebraska State Statute 2-3277.

6.B.6.a.4. KZ100 Advertising

Recently had discussions with Alpha Media, particularly for KZ100 station. They have proposed doing a "Take Care Tuesday" campaign that will include 4 weather and news sponsorships each Tuesday. 4 sponsorships per week at \$300 per month = \$3,600 for the fiscal year. We also have the option to do this for 2-3 months if we wanted to try it (\$600 - \$900). Scripts and

production of the radio commercial are at no additional charge. Several commercials would be developed, branding the day as "Take Care Tuesday". Each would highlight one theme or project of the NRD. Commercials would rotate evenly throughout the schedule and could be replaced or updated seasonally as needed.

This company also covers KFOR, The Eagle, 106.3 KFRX, 104-1 The Blaze, ESPN 101.5 FM, KX 96.9.

Coverage Map for KZ100 is attached.

6.B.6.a.5. Nebraska Public Media

Currently looking into options for advertising with Nebraska Public Media as requested. For television, the minimum buy-in is \$1,500. The price per spot (\$30 - \$60) varies on the time of day and what programming is offered at that time. Production costs for a 30-second video are covered with the \$1,500 buy-in. They also have the option to submit a video already produced to review and see if it fits their guidelines, but not all of our currently produced commercials are 30-seconds.

Attached is the coverage map, and pricing for the Television Rate Schedule, High School Sports Packages (\$1,000 - \$4,000) and Backyard Farmer Sponsorship (\$5,000).

6.B.6.b. Education

6.B.6.b.1. Past Events

- **August 17th**: Coffee Lakeside: Screentime. Three people attended this event.
- **August 23rd**: Science and Scenes with Alissa Hansen. We capped the class at 15 spots, but ended up adding a few extra people who wanted to participate.
- **August 29th**: State Fair education day from 9-12. Over 200 kids came through, where we talked about NRD's, watersheds, rainfall, and used the interactive elevation map in the Raising Nebraska Building.
- **August 21st - 25th**: CEO Student, Cort, started with the NRD. He will be with every department throughout the semester and then will spend time with departments he connected most with.

6.B.6.b.2. Future Events

September 14th: Coffee Lakeside

September 15th: Papio NRD Field Trip assistance

September 19th: Envirothon Field Day

September 20th: Moving with Nature - Let's Play Yoga Event

September 21st: Fremont Middle School Outdoor Day

TBD: Survival Club; St. Wenceslaus Pre-K visits; other classroom visits; Senior Citizen Center presentation; Coffee Lakeside at North

Bend Library.

6.B.7. RURAL WATER SYSTEMS

On 8/14 Elliott and Chapman met with Lucas Billesbach, consultant for the Village of Prague, in regards to the Prague Public Water System. There are concerns about degraded infrastructure, well capacity and nearing MCL/AL for contaminants. The potential expansion of either the Colon or Bruno RWDs was discussed; an understanding of current capacity, operations, and potential for growth will all be factored in the alternative analysis. Other options for the Village would be: drilling a new well, treatment system upgrade, and water main replacement.

6.B.7.a. Colon System

Test results from the tri-annual Lead and Copper tests were received from the labs. No samples were at, or above, MCL/ALs. A copy of results will be sent to participating homes, and all required reporting will be submitted to NDEE.

All hydrants in the village have been exercised this year.

Routine monthly sampling completed, meters read, bills mailed 8/31.

6.B.7.b. Bruno System

Routine monthly sampling completed, meters read, bills mailed 8/31.

6.B.7.c. Other

6.C. Water Committee - Action as Required

6.C.1. UNFINISHED BUSINESS

6.C.2. REGULATORY

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

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

Deadline for applications is September 15.

6.C.2.a.2. Variance Requests in the Non-Hydrologically Connected Area (Normal Development Area)

The District received 4 applications for new irrigated acres in the Non-Hydrologically Connected Area (NHCA) totaling 68.267 acre feet of new depletion, consisting of 385 acres. Under LPNNRD's Groundwater Management Rules & Regulations, the Board can annually approve up to 75 acre feet of new depletion in the NHCA. Attached is the application list.

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

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

Wells Permits Approved: #

Landowner	Number of Wells	Number of New Irrigated Acres

The total number of approved permits for 2023 is #

Location of Approved Well Permits for 2023: Correct as of #####

County	Irrigation - New	Irrigation - Replacement
Butler		
Colfax		
Dodge		
Boone		
Madison		
Platte		
Saunders		
Total		

6.C.2.a.4. Irrigation Runoff Complaint

6.C.2.a.5. Supplemental Well Permit

Jamie Yindrick for David and Jerry Proskovec has applied for a third well on the NW1/4 S2-16N-3E, Butler County. This is the tract of land

that LPNNRD approved a transferred of irrigated acres last year.. Attached is a map showing the location. Jamie was present at the Committee meeting and explained that between the 2 wells presenting the system is pumping about 300 GPM. The supplemental well will be a submersible well to increase the efficiency of the irrigation system. Discussion on the amount of water in the aquifer in that area and concerns about neighboring wells. It would be hard to determine if the new well would contribute any more or less to lowering the water table during pumping.

6.C.2.a.6. Flow Meter Discussion

Attached are some graphs and other information on water use within each aquifer sub region. A map showing meter locations and aquifer sub-areas which shows the diversity in the District. Jon Mohr from LRE and staff explained the diverse differences in saturated sands and confining and unconfined aquifers that lie within the District.

6.C.2.a.7. Special Quantity Subareas

6.C.2.a.8. Cost Share Programs

6.C.2.a.8.A. Irrigation Well Sample Kits

325 kits to producers so far in 2023. 251 of these have been returned - twelve of these were in today's mail (August 30, 2023).

6.C.2.a.9. Bellwood Phase 2 Area

2023 is the twenty-first year for this Phase 2 Area.

	Nitrate-nitrogen Range	Percent Nitrate-nitrogen 0 to 8.0 ppm	Percent Nitrate-nitrogen 8.01 to 10.00 ppm	Percent Nitrate-nitrogen 10.01 to 15 ppm	Percent Nitrate-nitrogen greater than 15 ppm
	0 to 25 ppm	46.3% (44 of 95)	8.4% (8 of 95)	45.3% (43 of 95)	
	0 to 25 ppm	47% (44 of 94)	15% (14 of 94)	38% (36 of 94)	
	0 to 24 ppm	41% (29 of 71)	14% (10 of 71)	45% (32 of 71)	
	0 to 31 ppm	48% (48 of 100)	9% (9 of 100)	43% (43 of 100)	
	0 to 28 ppm	53.75% (43 of 80)	7.5% (6 of 80)	38.75% (31 of 80)	

	0 to 22 ppm	45.5% (41 of 90)	15.5% (14 of 90)	39% (35 of 90)	
	0 to 35.7 ppm	48.65% (54 of 111)	11.71% (13 of 111)	39.64% (44 of 111)	
	0 to 26.6 ppm	51% (56 of 110)	6% (7 of 110)	43% (47 of 110)	
	0 to 28.9 ppm	57% (61 of 107)	9% (10 of 107)	34% (36 of 107)	
	0 to 25.8 ppm	50% (53 of 107)	9% (10 of 107)	14% (44 of 107)	26%
	0 to 22.3 ppm	51% (55 of 108)	13% (14 of 108)	18% (39 of 108)	20%
	0 to 32.3 ppm	43% (31 of 72)	8% (6 of 72)	14% (35 of 72)	33%
	0 to 35.1 ppm	34% (25 of 74)	11% (8 of 74)	26% (41 of 74)	26%
	0 to 23.5 ppm	36% (27 of 74)	15% (11 of 74)	19% (36 of 74)	22%
	0 to 30.9 ppm	40% (25 of 63)	11% (7 of 63)	22% (31 of 63)	28%
	0 to 24.5 ppm	46% (22 of 48)	10% (5 of 48)	28% (21 of 48)	22%
	0 to 20.5 ppm	33.33% (20 of 60)	13.33% (8 of 60)	35% (21 of 60)	18.33% (11 of 60)
	0.12 to 27.7 ppm	40.6% (26 of 64)	15.6% (10 of 64)	25% (16 of 64)	18.8% (12 of 64)

	0.13 to 23.0 ppm	43.75% (28 of 64)	12.50% (8 of 64)	26.56% (17 of 64)	17.19% (11 of 64)
	0.34 to 13.3	60% (15 of 25)	20% (5 of 25)	20% (5 of 25)	----

35 more samples for this area have been returned - these are either at HHS Lab or are to be taken to HHS Lab.

6.C.2.a.10. Richland - Schuyler Phase 3 Area

2023 is the eighth year of this Phase 3 Area. This Phase 3 area went into effect September 1, 2015. The 55 sections of this area first went into a Phase 2 Area in 2004. The ten sections that were in Phase 2 are now in Phase 3. As such, the 2020, 2021 and 2022 numbers (at bottom of table) are for 65 sections.

Year	Nitrate-nitrogen Range	Percent Nitrate-nitrogen 0 to 8.0 ppm
2004	0 to 47 ppm	30% (42 of 139)
2005	0 to 120 ppm	31.3% (74 of 236)
2006	0 to 53 ppm	28% (50 of 181)
2007	0 to 99 ppm	32% (75 of 231)
2008	0 to 46 ppm	28% (53 of 190)
2009	0 to 57 ppm	33% (72 of 216)
2010	0 to 57.5 ppm	31% (70 of 229)
2011	0 to 65.8 ppm	28% (67 of 241)
2012	0 to 52.6 ppm	29% (70 of 241)
2013	0 to 94.0 ppm	25% (63 of 252)
2014	0 to 101.0 ppm	27% (68 of 251)
2015	0 to 53.3 ppm	23% (55 of 238)
2016	0 to 50.5 ppm	25% (58 of 228)
2017	0 to 53.4 ppm	25% (60 of 238)
2018	0 to 56.9 ppm	26.5% (50 of 189)

2019	0 to 39.4 ppm	25% (53 of 209)	
2020	0 to 50.8 ppm	26% (69 of 261)	
2021	0 to 43.0 ppm	25.5% (67 of 263)	
2022	0 to 58.5 ppm	23.0% (57 of 248)	
2023	0 to 46.5 ppm	19% (20 of 106)	

85 more samples from this area have been returned - these are either at HHS Lab or are to be taken to HHS Lab.

6.C.2.a.11. Lower Platte River Basin Water Management Plan Coalition (LPRBC)

Attached is an invoice for \$10,000 for Coalition dues.

The technical group met and discussed having NeDNR make the necessary updates on the database rather than contract it out. Each group will be uploading data to test out the database. A discussion was held with each NRD reporting on the plan for adding new acres.

6.C.2.a.12. Voluntary Integrated Water Management Plan - LPNNRD

6.C.2.b. CHEMIGATION

For 2023 we have 641 renewals and 63 new permit applications for a current total of 704. 245 inspections have been completed. 8 currently remain and need to be inspected.

6.C.3. GROUND WATER PROGRAMS

6.C.3.a. DECOMMISSIONED WELL PROGRAM

6.C.3.a.1. Well Estimates

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

Well Owner	Type of Well	Cost Share Estimate	Co
Jack Barta	Irrigation	1067.80	
Tim Wiese	Irrigation	1135.50	

6.C.3.a.2. Plugged Wells

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

Well Owner	Type of Well	Cost Share Estimate
Jack Barta	Irrigation	1067.80

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

6.C.3.b.1. Phase Area Update

Cost-share Invoices Received as of 8/29/2023:

	Location	Cost-share Item	Amount paid to producer	Amount Reimbursed by Grant
	NW SW 20-17-2, Colfax	Flow Meter	\$1000	\$600
	SW SE 23-17-2, Colfax	Flow Meter	\$1000	\$600

	SW SE 33-18-3, Colfax	Flow Meter	\$1000	\$600
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Cost-share Applications as of 8/29/2023:

Applica tion Types	Number of Applications	Approved Dollar Amounts
Flow Meters	62	\$62,000
Gravity /Pivot	2	\$20,000
Gravity to SDI	2	\$20,000
Cover Crops	3	\$1,190
Soil Moistur e Sensros	3	\$2,250

LRE invoice for \$3,301.25 per contract on hydrological assessment project. Jon Mohr from LRE and LPN staff presented information on the assessment at the Committee meeting during a prior agenda item. A research study conducted by UNL on the economic impact of farmland prices on groundwater regulations is attached. The study concluded that groundwater regulations had no significant impact on farmland prices.

6.C.3.b.2. Regenerative Ag Confernce

Attached is some information about a Regenerative Ag Conference at Concordia University on February 28, 2024. At the present time, 5 NRDs are hosting, including LPN, with each one being asked for a \$500 contribution for speaker and meal. Other sponsors will be contacted for sponsorship. Does LPN want to be a participating NRD?

The committee was not comfortable in making a recommendation as this subject has been discussed for numerous years with different names.

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

A call-in meeting for updates was held on September 7 at 10 am. Next meeting is October 17 at MUD west in Omaha.

6.C.3.c. Long Range Plan

Attached is the annual long-range plan with the plan to have approval at the Board Meeting.

6.C.4. SURFACE WATER PROGRAMS

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

Attached is an invoice from USGS for \$18,190 for Streamgages at Shell Creek near Columbus and Wahoo Creek at Ashland, and one real-time groundwater level monitoring site. The agreement that was approved at the February 2023 Board Meeting with USGS is attached.

An agreement from USGS for 2023-24 was received on September 5, 2023. The agreement attached is for October 1, 2023 to September 30, 2024 with the new amount with USGS for \$19,010.

6.C.5. OTHER

6.C.5.a. COMMENTS FROM THE PUBLIC

6.D. Projects Committee - Action as Required

6.D.1. UNFINISHED BUSINESS

6.D.2. SWCP

We received our NeSWCP FY24 state apportionment from DNR, we were allocated \$92,179.61. We have presently approved \$43,081.51 in SWCP applications. Combined with local funding we are 37% allocated.

6.D.3. JOINT WATER MANAGEMENT ADVISORY BOARD (JWMAB)

6.D.3.a. East Fremont/Elkhorn Township Drainage - FEMA HMPG

A Notice of Intent was sent to NEMA for the nationally competitive Hazard Mitigation Assistance grant. NEMA has provided comments on the grant application and JEO is working to incorporate them into the application.

6.D.3.b. West Fremont - FEMA BRIC

A meeting is planned for September 14, 2023 9:00-10:00 am at Fremont City Council Chambers to discuss projects and narrow down preferred alternatives.

6.D.3.c. Rawhide Creek Watershed - NRCS WFPO

The Dodge County Joint Water Management Advisory Board (JWMAB) and Natural Resources Conservation Service (NRCS) will hold a public meeting to provide an update on the Rawhide Creek Watershed Flood Risk Reduction Plan and proposed projects. The drop-in meeting will be held on Wednesday, September 6, 2023, from 5:00 - 7:00 p.m. at the UNL Extension in Dodge County, 1206 W. 23rd Street in Fremont. All are welcome to attend and provide comments or questions to the project team. No formal presentation will be made, and attendees may drop-in anytime.

6.D.4. SHELL CREEK WATERSHED

6.D.4.a. Shell Creek Implementation - 319 & NET

SCWIG met on 8/15/2023 and discussed the SWCS conference, student monitoring, and ongoing/upcoming projects. Volunteer monitoring students are planning to present at our November 13th Board meeting located in Newman Grove beginning at 4:30 pm. Staff are working with partners to finalize a press release highlighting the students' presentation at the SWCS meeting. SCWIG approved a stipend for Mr. Moomey and adding expiration dates to septic cost-share approvals. The next SCWIG meeting is scheduled for 9/19/2023. A Bench Project/Final Bend celebration is also tentatively scheduled for 9/12/2024.

6.D.4.a.1. NET - Alternate Water Source payment

We received certification paperwork from Bill Bos for two approved alternate water source projects:

	\$ 16,852.94	LIVESTOCK - PUMP, WELL, TANKS,
ARDEN SAALFELD	\$ 11,593.25	LIVESTOCK - PUMP, WELL, TANKS,

Payments will be reimbursed through our Shell Creek NET grant. To qualify, participants must meet NRCS Planned Grazing practice standards, as well as, exclude cattle from unlimited access to creek.

6.D.4.a.2. On-site Wastewater System Upgrade

We received paperwork for a completed system:

Kyle
Reed \$7,377.71

We received an application for an upgrade:

Jeff Klug \$7,500.00

All on-site wastewater system upgrades qualify for our Shell Creek 319 grant reimbursement.

6.D.5. WAHOO CREEK WATERSHED

6.D.5.a. Dam Site Planning Update

6.D.5.a.1. Design - Olsson

Attached are the monthly Progress Report and invoice. No invoice for first three sites as they wait for NRCS comments.

The Corps permit application was submitted 7/31 and is awaiting the 30 day public notice period. The delay is due to a staffing change at the Project Manager level. The new PM needs to be brought up to speed on the various projects they are now overseeing. Olsson has discussed the application and plan with the new PM and feels confident that the permit will be issued in the November/December timeframe.

Olsson is in the process of stamping/signing and submitting plans for 26A to DNR for their permit review. The plan is for a thorough review of a complete set of plans/specs/reports by DNR and then apply any changes/edits to the remainder. This should expedite this part of the process.

6.D.5.a.2. Real Estate - Olsson & Great Plains Appraisal

The plan for having Great Plains present their initial appraisals at this month's meeting has been postponed. With the Corps permit being delayed staff feels that it's best to wait to make any valuations public. Staff has discussed this with Cody Gerdes, Great Plains, and Danielle Allen, Olssons Real Estate, and feel that it's best for Great Plains to keep moving forward with field appraisals and landowner meetings.

6.D.5.a.3. Funding - NRCS WFPO & NeDNR JEDI

6.D.5.a.4. County Road Impacts

On 8/29, Elliott, Chapman, and Gottschalk met with Saunders County Supervisors to further discuss the two road impacts within the Project area. The two roads impacted are Road P (north of site 26B) and Road G (south of site 77) both will be inundated by permanent pools. The two options are: permanently close the roads, or raise the roads and install box culverts to meet specs of the impoundment and roads.

With site 26B construction in the near future a plan needs to be in place soon. Road P is a minimum maintenance road that sees little traffic, but discussions with impacted landowners have both been adamant that they'd like to see the road stay open. The neighboring north/south road (road 28) has been closed for ~10 years due to scour at the bridge.

Arlon Strahm, representing Mainelli/Wagner, explained the box culvert/road raise option that had been discussed previously. There is concern from the Supervisors about investing the resources (both money and long-term O&M) for a minimum maintenance road.

The NRD proposed options for working with the county for a solution, such as, the NRD could supply materials with the county supplying the labor/engineering. Any financial input from the NRD would be paid through JEDI funds.

6.D.5.b. Water Quality - NWQI & 319

State NRCS submitted the NWQI application to headquarters. We expect it to be approved soon.

Staff will begin working on a 319 funding request and workplan this fall.

6.D.6. LOWER PLATTE RIVER COORIDOR ALLIANCE

On 8/14 staff from PMNRD, LPSNRD, and LPNNRD met to discuss future projects for the PRCA. Attached are documents relating to the USACE's Comprehensive Watershed Study program that has had an earmark for the Lower Platte River system since the 2007 Water Resources Development Act. Additionally, planning for updating the Alliance's 319 plan were completed; the LPN's designated watersheds for the plan are the headwaters of Bone and Skull Creek.

6.D.7. SCRAP TIRE COLLECTION

Keep Fremont Beautiful has received funding from NDEE to hold a scrap tire collection event. Staff have been in contact with Keep Fremont Beautiful Executive Director Casey Vaughan and have organized several meetings with Casey and representatives of Papio and Lower Elkhorn NRDs as this is her first tire collection event. They have more than enough funding based on historic Fremont area event quantities, but Papio and Lower Elkhorn are concerned as they have not conducted large scale collections recently. As such, KFB is requesting staff assistance at the event and funds to cover potential overages. Please find Casey's request attached along with a flyer for the event.

6.D.8. LONG RANGE PLAN

Attached is a draft of the Long Range Plan to be approved at our next board meeting.

6.D.9. OTHER

The Village of Colon contacted the NRD (letter attached) and requested funding assistance for a new park to be constructed within the village. Representatives from Colon will be in attendance.

7. Additional Action Items

7.A. Big Game Conservation Association Agreement

Attached find an agreement between the Lower Platte North NRD and Big Game Conservation Association. The Big Game Conservation is to provide maintenance as a co-sponsor for the archery range being developed by Eagle Scout Henry Waverka and Troop 405.

A motion will be needed at Board Meeting - To authorize Chairman Thompson to sign the Agreement between the Lower Platte North NRD and Big Game Conservation Association for providing maintenance and co-sponsorship of the archery range be developed by Troop 405.

8. Approval of Bills Pending

9. Consent Agenda Adoption

10. Comments from Directors/Guests

11. Meeting Establishment/Adjournment

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

Manager's Report – September 2023

- Staff continues to work with Nebraska NRCS on the rehabilitation of our Cottonwood Creek site 21-A structure through the PL-566 Watershed program. We will continue to update both committees and board and proceed through this process.
- Our office received all our updated county valuations in late August allowing us to determine the needed levy asking for our FY 2024 LPNDRD budget. As expected, valuations rose in each of the seven counties within our district ranging from 2.9% to 13.7% for a total district valuation of \$ 12,148,414,780. I have a valuation-by-county breakdown for any board member interested in seeing or sharing this information.
- We received this year's Lake Wanahoo dam inspection from Nebraska DNR in August reporting the structure is in "Satisfactory" condition. This report allows us to restore coverage for Wanahoo through our insurance carrier. Discussion on adding this coverage will be taken up later in tonight's meeting.
- Our work in the Wahoo Creek watershed continues as we are meeting regularly with Olsson's regarding land rights, wetland mitigation and the USACE permitting status. Nebraska State NRCS is also doing a great job working with us on our approved federal funding and keeping us updated on their requirements.
- Elliott, Chapman and I met with Saunders County supervisors to update them and obtain feedback regarding the potential road closures relating to our Wahoo Creek Watershed projects. Two of our sites have potential closures and we are working with the county to determine their preferred intent. In both cases, if their intent is to keep the roads open, we will work with them in mutual projects. One of the proposed closures is currently a minimum maintenance road while the other is currently a full-service gravel road.
- Now that the USACE accounting for our Sand & Duck Creek project is closed out, and once our final NRDF funding has been used we will proceed with our plans to make final closeout with Nebraska DNR on our Wanahoo Recreation Area property. Currently 60% of our district's revenue from hay and dirt sales on our Wanahoo property is returned to the Nebraska NRC.

Have a great month and STAY SAFE!

-Eric Gottschalk – General Manager, Lower Platte North NRD

LOWER PLATTE NORTH NRD MINUTES
BOARD MEETING
August 14, 2023

The regular monthly meeting of the Lower Platte North NRD Board of Directors was called to order at 6:00 p.m. at the NRD Office, Wahoo, NE on Monday, August 14, 2023.

1. NOTICE OF MEETING

The agenda and supporting documents are available on the district's website – www.lpnrd.org. A copy of the Nebraska Open Meetings Law has been posted on the NRD's website.

The advanced notice of our August 14, 2023, board meeting was posted on the Lower Platte North NRD website and posted in the Wahoo Newspaper on August 3, 2023.

Chair Thompson 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:

Hilger	Johnson, Duane	Johnson, Jerry
Lawrence	Meduna	McKnight
Olson	Saalfeld	Sabatka
Saeger	Seier	Tonnies
Yosten	Thompson	

DIRECTORS ABSENT

Bailey	Birkel	Engel
Kavan		

STAFF AND GUESTS:

Gottschalk	Breunig	Andersen
Lausterer	Chapman	Schomer (Zoom)
Elliott (Zoom)	Abbott (Zoom)	Sabatka (Zoom)
Heimann (Zoom)	Bill Butler	Don Gunster

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 his written report.

f. Education Program

Bill Butler and Don Gunster representing AltEn Facility Response Group updated the board on the process

and cleanup going on at the AltEn facility near Mead.

5. APPROVAL OF MINUTES

McKnight made the motion, seconded by Hilger, to approve the minutes from the July 10, 2023, Board Meeting. Motion carried on consent agenda.

6. REPORT OF STANDING COMMITTEES

A. EXECUTIVE COMMITTEE REPORT

1. UNFINISHED BUSINESS - None

2. Meetings

a. Pending

1. NARD Fall Conference – Update Given

b. Reports

1. NRC Meeting – Update Given

3. Management Items

a. USACE Closeout – Update Given

b. Director Absences

McKnight made the motion, seconded by Hilger, to approve Director Meduna’s excuse of absence from the July board meeting. Motion carried on consent agenda.

c. Monthly Education Program – Update Given

d. New Office Building – Update Given

e. Director Vacancy Sub-District #2 – Update Given

4. Equipment - None

a. New Server Equipment and Service

McKnight made the motion, seconded by Saalfeld, to purchase a new server and equipment from HELM Connected at a quoted price of \$10,412. It was further recommended to enter into a Server Management and Support agreement with HELM Connected at a rate of \$400/month. Motion carried all members present voting aye.

b. Copier Lease Buyout and Upgrade

Johnson J. made the motion, seconded by Yosten, to enter into a new lease agreement with Advanced Office Automation for a Kyocera 4053ci at a monthly lease of \$209 and per copy cost of .008¢ for black, .03¢ low color and .05¢ high color. This cost includes supplies and service. Motion carried all members present voting aye.

5. Personnel

a. Benal Leave Payout

McKnight made the motion, seconded by Hilger, to approve the leave payout time to Tyler Benal in the amount of \$8,640.06 less deductions. Motion carried on consent agenda.

6. Finance

a. Approval of Financial Reports – Update Given

b. Approval of Managers Expenses

McKnight made the motion, seconded by Hilger, 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. Review of FY2024 Budget

Olson made the motion, seconded by Yosten, to approve the Fiscal Year 2024 Budget with total expenditures of \$8,761,805. Motion carried all members present voting aye.

Yosten made the motion, seconded by McKnight, to remove \$400,000 from the Large Structure O & M Sinking Fund and cap it at \$200,000; remove \$60,922.50 from the Emergency Flood Damage Sinking Fund and to cap the Groundwater Sinking Fund at \$100,000. Motion carried all members present voting aye.

McKnight made the motion, seconded by Hilger, that the August LPNNRD Executive Committee Minutes be received and placed on file. Motion carried on consent agenda.

B. OPERATIONS COMMITTEE REPORT

1. UNFINISHED BUSIINESS – None

2. WILD NE AND OTHER PROGRAMS – Update Given

3. OPERATION AND MAINTENANCE & OTHER ITEMS

a. Rehabilitation of Cottonwood 21-A – NRCS – Update Given

b. Czechland RV Camping Electrical Upgrades – Update Given

c. Grass Drill Rental Revenue – Update Given

d. Lake Wanahoo Archery Range – Update Given

e. Buoy System Repair

McKnight made the motion, seconded by Hilger, to donate \$1,000 to the Greater Omaha Scuba Club for their service on Lake Wanahoo re-hooking the buoy system to the anchor points on the lake floor. Motion carried on consent agenda.

4. ROCK AND JETTY – None

5. LAKE WANAHOO

a. Lake Wanahoo Permit Sales - Update Given

b. Lake Wanahoo Camping Revenue – Update Given

c. Clint Johannes Education Building Rentals – Update Given

d. Noonan/Snitily Wetland Property

McKnight made the motion, seconded by Hilger, to name the NW most portion of the Wanahoo Property – “Noonan/Snitily Wetland” and put signate in that area. Motion carried on consent agenda.

6. INFORMATION & EDUCATION

a. Information

1. Radio and eAds – Update Given

2. Analytics – Update Given

b. Education – Update Given

1. Past Events - Update Given

2. Future Events – Update Given

7. RURAL WATER SYSTEMS

a. Colon

McKnight made the motion, seconded by Hilger, to write off Ralph Palmer’s water expense of \$230.20. Motion carried on consent agenda.

b. Bruno – Update Given

c. Other

1. Review of FY 2024 Budget

McKnight made the motion, seconded by Hilger, that the August LPNNRD Operations Committee Minutes be received and placed on file. Motion carried on consent agenda.

C. WATER COMMITTEE REPORT

1. UNFINISHED BUSINESS

2. REGULATORY

a. GROUNDWATER MANGEMENT AREA

1. Variance Requests – Update Given

2. John Healy Variance Request

Saalfeld made the motion, seconded by Yosten, to approve the variance for John Healy additional 50 acres for the NE¼-S24-T17N-R3E, Colfax County with the justification of utilizing Schuyler Treated Lagoon Water to decrease the risk of water contamination. Motion carried all members present voting aye.

3. Voluntary Integrated Water Management Plan - Update Given

4. Well Permit Program

a. Well Permits Approved- Update Given

5. Cost-Share Programs

a. Irrigation Well Sample Kits- Update Given

6. Bellwood Phase 2 Area – Update Given

7. Richland – Schuyler Phase 3 Area – Update Given

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

b. CHEMIGATION – Update Given

3. EDUCATIONAL PROGRAM – Dragon-line

4. GROUND WATER PROGRAMS

a. Decommissioned Well Program

1. Well Estimates – Update Given

2. Plugged Wells

McKnight made the motion, seconded by Hilger, to approve the cost-share payments for the following well decommissioning: Paul Thorson \$287.25; Todd Went \$603.05; Dorothy Juranek \$2,423.64 (for 2 wells); Zoucha Farms LLC \$1,148.49. Motion carried on consent agenda.

b. LOWER PLATTE NORTH NRD GROUND WATER STUDIES

1. Phase Area – Update Given

2. Lower Platte River Consortium – Update Given

c. Grants

McKnight made the motion, seconded by Hilger, to approve the interlocal agreement with Lower Loup NRD for the purpose of conducting WSF grant “Assessing Legacy Nitrates in Platte, Colfax and Dodge Counties, Nebraska” and authorize Chairman Thompson to sign after legal counsel review. Motion carried on consent agenda.

d. Water Flow Meters – Update Given

5. SURFACE WATER PROGRAMS

a. State Lakes – Update Given

6. Groundwater Budget – Update Given

7. OTHER

a. Comments from the Public – None

McKnight the motion, seconded by Hilger, that the August LPNNRD Water Committee Minutes be received and placed on file. Motion carried on consent agenda.

D. PROJECTS COMMITTEE REPORT

1. UNFINISHED BUSINESS – NONE

2. BUDGET REVIEW

3. SWCP

a. SWCP Application Approvals

McKnight made the motion, seconded by Hilger, to approve the following SWCP applications totaling \$43,081.51:

James Vanek - \$12,500

Steven Douglas - \$12,500

Gregg Fujan - \$5,581.51

Donal Krejci - \$12,500

Motion carried on consent agenda.

b. SWCP Payments - None

c. SWCP Cancellations – None

a. Wahoo Creek Cost-Share Approvals – None

4. JOINT WATER MANAGEMENT ADVISORY BOARD

a. East Fremont/Elkhorn Township Drainage – FEMA HMPG – Update Given

b. West Fremont – FEMA BRIC – Update Given

c. Rawhide Creek Watershed – NRCS WFPO – Update Given

d. North Bend Drainage District – Update Given

e. Cameras and Stage-Only Stream Gages on Lower Platte River Bridges – Update Given

5. SHELL CREEK WATERSHEDS

a. Shell Creek Implementation – 319 and NET

b. Septic System Upgrade

McKnight made the motion, seconded by Hilger, to approve septic system upgrade applications to Roger Goedecken and Kyle Reed for \$7,500 to expire on June 30, 2025. Motion carried on consent agenda.

6. WAHOO CREEK WATERSHED

a. Dam Site Planning Update – Update Given

1. Olsson Design Update and Invoice – Update Given

2. Real Estate – Olsson and Great Plains Appraisal – Update Given

3. Funding- NRCS WFPO and NeDNR JEDI – Update Given

b. Water Quality – NWQI & 319 – Update Given

7. LOWER PLATTE RIVER COORIDOR ALLIANCE – Update Given

8. MORSE BLUFF LEVEE – Update Given

9. WOLFE JETTY – Update Given

10. LESHARA DRAINAGE IMPROVEMENT – Update Given

11. EROSION AND SEDIMENT RULES AND REGULATIONS – None

12. HAZARD MITIGATION PLAN – Update Given

13. OTHER – Update Given

McKnight made the motion, seconded by Hilger, that the August LPNNRD Projects Committee Minutes be received and placed on file. Motion carried on consent agenda.

7. ADDITIONAL ACTION ITEMS

7a. Water Strategies Representation Agreement

Seier made the motion, seconded by Tonnies, to authorize Chair Thompson to sign the Representation Agreement with Water Strategies as attached to the agenda. Motion carried all members present voting aye.

8. BILLS TO BE APPROVED

Yosten made the motion, seconded by Sabatka, 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

McKnight made the motion, seconded by Hilger, to approve the August Consent Agenda. Motion carried all members present voting aye.

10. COMMENTS FROM DIRECTORS/GUESTS

11. MEETING ESTABLISHMENT AND ADJOURNMENT

The September Board of Directors Meeting will be held on Monday, September 11, 2023, 6:00 p.m. Meeting adjourned at 8:04 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 August 14, 2023, 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.

Robert Meduna Jr., Secretary

NRDs 2023 Annual Conference **Tentative Schedule of Events**



Sunday, September 24th

- 11 a.m. to 6 p.m. NARD Foundation Ron Bishop Memorial Golf Tournament
Meadowlark Hills Golf Course, Kearney
- 11 a.m. NARD Foundation Trap Shootout: Fort Kearney Shooting Sports Association
- 6-8 p.m. Pre-Registration, Younes Conference Center
- 7-11 p.m. NARD President's Reception, compliments of conference vendors
Younes Conference Center, Diamond 7-8

Monday, Sept. 25th, Younes Conference Center

- 7:30 a.m. Registration open – Visit vendor exhibit booths in the Ballroom.
- 8:30 a.m. Opening Remarks from NARD President, Governor Pillen, and agency reports.
- 9:30-10:30 a.m. General Session – Producer Connect Nitrogen Dashboard: Longitude 103
- 9:30 a.m. to 4 p.m. NRD Administrator's Committee Meeting
- 10:45-11:45 a.m. Breakout Sessions (some session topics not confirmed, and times subject to change)
- NeDNR – Platte River Decision Support System (DSS)
 - The Sociology of Soil and Water Conservation in Agriculture
 - Ag Producer Panel w/ Sentinel Fertigation
- Noon to 1:30 p.m. NARD Conservation Awards Luncheon
- 1:45-2:45 p.m. Breakout Sessions (some session topics not confirmed, and times subject to change)
- Recreation Exploration – Insights on multi-use flood mitigation/recreation projects
 - Cover Crops – Using cover crops for potential recharge and nitrate mitigation
 - Sackett vs. EPA: Implications for USACE Wetland Determinations
- 3-4:30 p.m. Business Session
- 3:15-4:15 p.m. Breakout Sessions (some session topics not confirmed, and times subject to change)
- Esri: GIS Software Overview
 - Graduate Research Project: Understanding the Relationship of Drought and Nitrate Contamination
 - Topic TBD
- 4:30-6 p.m. Vendor Reception
- 6 p.m. Banquet – Induction into NARD Hall of Fame
- Following Banquet Closing the NARD Foundation Silent Auction

Tuesday, Sept. 26th, Younes Conference Center

- 7:45-9:15 a.m. Basin Meetings
- 8 a.m. Registration open. Visit vendor exhibit booths in the Ballroom.
- 9:30-10:30 a.m. Breakout Sessions (some session topics not confirmed, and times subject to change)
- NeDNR – Topic TBD
 - LRE will discuss recent NRD projects featuring mapping AEM data, creating models, dashboards and hydrological assessments
 - Statewide Leadership Development Panel: Learn about Water Leaders Academy, Nebraska LEAD Program, and Leadership Nebraska.
 - NRCS – Updates on Nebraska NRCS Programs
- 10:45-11:45 a.m. Breakout Sessions (some session topics not confirmed, and times subject to change)
- Carbon Credits
 - Topic TBD
 - NeRAIN: Nebraska Rainfall Assessment and Information Network
 - Lindsay: What's new with FieldNET Pivot Control?
- Noon to 1:30 p.m. Luncheon – Years of Service recognized, followed by raffle drawing.
- 1:30 p.m. Business Session
- 3 p.m. or immediately following the Business Session – NARD Board of Directors Meeting

NARD Fall Conference
September 24 - 26, 2023

Name	Registration	Sunday	Monday
Ryan Chapman	Full Registration	X	X
Bret Schomer	Full Registration	X	X
Daryl Andersen	Full Registration	X	X
Noah Franzen	Full Registration	X	X
Adam Brockmann	Full Registration	X	X
Lacey Sabatka	Full Registration	X	X
Sean Elliott	Full Registration		X
Drew ten Bensel	Full Registration	X	X
Eric Gottschlak	Full Registration		X
Russell Oaklund	Full Registration	X	X
Bob Hilger	Full Registration	X	X
Jerry Johnson	Full Registration	X	X
Thomas McKnight	Full Registration	X	X

Tonnies

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
10th day of July, 2023, for
the following reason:

Vacation pre scheduled before my appointment
to the board

Dated this 3 day of August, _____.

Andrew Tonnies
Board Member
Lower Platte North NRD

McKnight

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
10th day of July, 2023, for
the following reason:

at Saty Fe GMA meeting
I zoomed in.

Dated this 6 day of 8, 23.

T McKnight
Board Member
Lower Platte North NRD

T McKnight



BILL TO

Lower Platte North NRD
PO Box 126
Wahoo NE 68066

Invoice

DATE	INVOICE #
8/3/2023	5390

TERMS	PROJECT

DESCRIPTION	QTY	RATE	AMOUNT
NARD Membership Dues, Fiscal Year 2023-2024.		32,575.87	32,575.87
NRD Information and Education July 11-12, 2023 meeting. Lower Loup NRD, Ord. Sydney Abbott	1	30.40	30.40

Submit payment to NARD 8100 S. 15th St., Ste B Lincoln, NE 68512-9438	Total	\$32,606.27
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“Trust. Integrity. Knowledge.”

Contacts:

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**A
Proposal
of
Insurance
For**

Lower Platte North NRD

August 24, 2023

FNIC

This presentation is designed to give you an overview of your current insurance coverage. It is meant only as a general understanding of your insurance coverages and should not be construed as a legal interpretation of the insurance policies. Please refer to your actual policies for specific terms, conditions, limitations and exclusions that will govern in the event of a loss. Specimen copies of these policies are available for your review prior to the binding of any coverage

For changes or inquiries regarding your insurance matters, please call a member of your service team as listed on the cover page or write:

FNIC
14010 FNB Parkway, Suite 300
P.O. Box 45279
Omaha, NE 68145-0279

Lincoln Office:
601 R Street
Lincoln, NE 68508

(402) 861-7000
(800) 344-5624
(402) 861-7111 Fax

(402) 435-7100
(800) 344-5624
(402) 435-5624 Fax

Office Hours: Monday – Friday
8:00 a.m. – 4:30 p.m.



FNIC

Credit Policy

Your insurance coverage is very important to you and your business. Your prompt payment of premiums due enables this valuable coverage to remain in force. Delinquent premiums subject your insurance coverage to cancellation. The following is the credit policy of FNIC:

Agency Bill

- All invoices are due and payable immediately. Common business courtesy requires payment be received within 15 days of the invoice date.
- Installment invoices are due on the effective date of the installment. Installment invoices are mailed approximately 25 days prior to the effective date of the installment.
- Statements will be mailed at the beginning of each month for your benefit. Please verify your open invoices against our record of your open invoices.

Please mail all payments to:

**FNIC
P.O. Box 3875
Omaha NE 68103-0875**

Direct Bill

- Mail payments to your insurance carrier at the address shown on the payment notice. The finance relationship is between you and the insurance company and responsibility for timely payments rests with you. We do not follow up or contact customers for late/past due payments.

Premium Finance Plans

- We are glad to assist you in making premium finance arrangements with third party insurance finance organizations. However, once the finance plan is in place, you assume the responsibility for timely premium payments. We do not follow up or contact customers for late/past due payments.

Audits

- Audit invoices are due and payable immediately. Any issues concerning the audit must be brought to our attention within 10 days of receipt. Common business courtesy requires payment be received within 15 days of the invoice date.

If you have any questions please contact:

Spencer Ryan	(402) 861-7042
David Destache	(402) 861-7165
Toll Free	(800) 344-5624

FNIC

FNIC Privacy Policy

General information

This privacy policy covers personal information about consumer customers who obtain products from FNIC for personal, family, or household purposes. This policy is provided to you as required by federal law. You do not need to take any action as a result of receiving this privacy policy.

Although this notice does not apply to business and commercial accounts, safeguarding our business and commercial customers' information is important and we take steps to protect such information.

Except as described below or as permitted by law, we do not disclose personal information about our customers or former customers.

How we secure your personal information

At FNIC, we appreciate the trust you have placed in us and understand the importance of protecting your personal information. Protecting your privacy and the personal information you entrust to us is a priority. We maintain physical, electronic, and procedural safeguards to protect your personal information. We take steps to restrict access to personal information about you to employees who need that information for business purposes. Our employees are subject to a Code of Ethics that requires them to treat personal information as confidential.

How we collect personal information about you

We collect personal information about you from the following sources:

1. Information you provide to us – Personal information that you provide to us on applications and through other correspondence, such as your name, address, social security number and personal financial information.
2. Transaction and Experiences – Personal information about your transactions and experiences with us and our affiliates, such as your account balance and payment history.
3. Information we received from third parties – Personal information nonaffiliated parties provide to us about you, such as your claims history, driving record, credit history, and public records.

Personal information we disclose to affiliates

We may disclose personal information about your transactions and experiences with us to our affiliates.

Personal information we disclose to nonaffiliated parties

We may disclose personal information about you to nonaffiliated third parties as permitted by law. This may include all of the personal information we collect about you that is necessary to secure and service our products. Additionally, personal information may be disclosed in connection with a subpoena or similar legal requirements, in connection with audits, to process a transaction you requested, and to prevent fraud or unauthorized use.

We may disclose all of the personal information we collect, as described above, to companies that perform marketing services on our behalf or to other financial institutions with whom we have joint marketing agreements.

Disclosure

This summary of the coverage offered by the insurers is based on the information provided by you and which we have relied upon in preparing this document. If changes need to be made, please notify our office immediately. All changes are subject to review and acceptance by the insurance company.

When requested to review contracts (leases, construction contracts, purchase orders, etc), the review will be based on industry standard risk management practices. Reviews will not be legal advice or legal opinion for any portion of the contract. Contracts can have diverse, broadly stated indemnification or other provisions that may not be insurable. Contracts should be reviewed and modified by your legal counsel to reflect variations in local law and the specific circumstances of your contract. Our review is provided for your information and should not be relied upon by any party as a representation of your insurance exposures or coverage.

In addition to the fees or commissions retained by FNIC, in certain circumstances other parties may earn and retain usual and customary commissions and/or fees for their role in providing or placing insurance products or services under their separate contracts with insurers and/or reinsurers.

As a common legal practice in our industry, FNIC may enter into “contingency” agreements with certain insurance companies providing for compensation, in addition to commissions, to be paid to FNIC based on several factors not client specific such as aggregate loss experience and size or performance of an overall book of business produced with the insurer. The insurance coverage you purchase through FNIC may be issued by an insurance company who has such an agreement with our firm. Please contact our sales or service representative if you have any questions or concerns.

FNIC through its sales representatives and service personnel, recommends insurance companies to our clients based on coverage, financial stability, cost and service capability – not on the existence of contingency agreements. It has always been our practice to leave the final selection of insurers to the discretion of our clients.

Products and Services

Business Insurance

- Property Casualty Insurance including but not limited to:
 - Workers' Compensation
 - Directors & Officer's
 - Errors & Omissions
 - Property
 - Liability
 - Auto
 - Excess
- 24 Hour Claims Service
- Claims Management and Experience Rating Projections
- Risk Surveys including Risk Transfer Cost Options
- Program Design
- Stewardship Meetings
- Property Casualty Consulting
- Commercial Building Appraisals for Insurance Valuation

- Alternative Risk Financing
 - Retrospectively Rated
 - Captive Programs
 - High Deductibles
 - Self Insurance
- Loss Control Consulting & Management Services

Surety Bonds

- Bonds
 - Bid
 - Performance & Payment
 - Miscellaneous
- Banker, Attorney and CPA Referral
- Trade/Industry Comparison
- Assist with Contractor Prequalification
- Financial Analysis
- Consult with Contractor & CPA
- Maximize Surety Credit
- Financial Presentation to Surety

Employee Benefits

- Group Medical Plans
 - Multiple Employer Trusts
 - Health Reimbursement Accounts
 - Health Savings Accounts
 - Fully Insured
 - Self-Funding
- Basic and Supplemental Life Insurance
- Voluntary Benefits (employee paid plans)
- Preferred Vendor Arrangements
 - COBRA/HIPAA/ERISA Compliance
- Plan Document and SPD Development
 - Employee Communications and Education
 - Form 5500 Preparation
 - Exclusive Access to Web-Based HR Portal
- Short and Long term Disability
- Special Risk
 - Business Travel Plans
 - Accidental Death and Dismemberment
- Consulting Services, including but not limited to:
 - Market Surveys
 - Actuarial Services
 - Analysis of Funding Arrangements
 - Benchmarking and Trending
 - Carrier Negotiations
- Retirement Plans

- Owner-Based Planning
- Executive Benefits

Personal Lines

- Home and Condominiums
- Fine Arts, Antiques, and Jewelry
- Automobile Insurance
- Property Appraisals
- Secondary Residences/Vacation Properties
- Watercraft Coverage
- Personal Liability
- International Travel Coverage

Life Insurance and Estate Planning

- Life, Disability, and Long-Term Care
- Financial Planning
- Charitable Trust

GLATFELTER PUBLIC ENTITIES

Glatfelter Public Entities, a division of Glatfelter Insurance Group, is the nation's premier public entity program manager for the following classes: educational institutions, municipalities and water/sewer entities. Glatfelter Public Entities also writes private/charter schools and independent school bus contractors. We are recognized as the industry leader in our target markets. Glatfelter Public Entities' mission statement is simple: we strive to provide our customers with innovative and stable products, prompt and considerate claims handling, attentive and personal service, pricing equity, and carrier security. Our commitment to customer service is evidenced by our high retention ratio and portfolio growth. Glatfelter Public Entities' services include program underwriting, policy administration, product and program management, loss control, claims administration, licensing, compliance, and actuarial services. We distribute our products through a national network of independent brokers and believe our partnership is responsible for the distinct competitive advantage we enjoy in our target market.

Glatfelter Public Entities offers a broad portfolio of coverages including:

- Property (including Equipment Breakdown)
- Crime
- Inland Marine
- Auto
- General Liability
- Law Enforcement Activity Liability
- Public Officials & Management Liability (including Employment Practices Liability)
- Educators Legal Liability (including Employment Practices Liability)
- Cyber Liability & Privacy Crisis Management Expense
- Excess Liability

Workers' Compensation is also available in select programs.

Please contact your insurance representative if you are interested in modifying your proposal to include one or more of these available coverages.

Agency License OB17046

YOUR INSURANCE PROPOSAL

This proposal is prepared from information supplied to Glatfelter Public Entities on the application submitted by your insurance representative.

The lines of business shown in this proposal are offered as a complete portfolio. Purchase of individual lines of business requires underwriting approval. This proposal may or may not contain all terms requested on the application. Proposed coverages are provided by the Glatfelter Public Entities insurance policy forms and are subject to the terms, exclusions, conditions and limitations of those policy forms. Actual policies should be reviewed for specific details. Your insurance representative can provide specimen policies upon request.

Your exposure to loss changes over time. Keep your insurance representative informed of any changes, so your coverage can be updated. We strongly recommend frequent reviews of your operations and Glatfelter Public Entities coverage with your insurance representative.

The proposed admitted Property and Casualty coverage is underwritten by National Union Fire Insurance Company of Pittsburgh, Pa. (A.M. Best #19445). National Union Fire Insurance Company of Pittsburgh, Pa. (NUFIC) is rated A (Excellent) in Financial Size Category XV by A.M. Best Company. For certain lines of insurance, the proposed Property and Casualty coverage may be offered by a surplus lines insurer, such as Lexington Insurance Company, if coverage by NUFIC is unavailable.

Glatfelter Claims Management provides the claims management services for Glatfelter Public Entities insureds exclusively.

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The Glatfelter Public Entities Program is administered by Glatfelter Underwriting Services, Inc. a/k/a Glatfelter Insurance Services in CA, MN, NV and UT and Glatfelter Brokerage Services in NY. CA Insurance Producer License #0B17046. Glatfelter Underwriting Services, Inc., an American International Group, Inc. (AIG) company, is a premier manager and specialist of specialty commercial insurance markets in the U.S. This proposal provides a brief description of proposed insurance coverages for your consideration. It is not a contract of insurance. Refer to the actual insurance policy for a description of coverage, exclusions and conditions. Specimen policies are available for your review. All products and services are written or provided by subsidiaries or affiliates of AIG. Products or services may not be available in all countries, and coverage is subject to actual policy language. Certain property-casualty coverages may be provided by a surplus lines insurer. Surplus lines insurers do not generally participate in state guaranty funds and insureds are therefore not protected by such funds.

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FNIC

Schedule of Locations Workers Compensation APPWC024501355

Loc #	Address	City	State	Zip Code
1	511 Commercial Park Rd	Wahoo	NE	68066

Schedule of Locations Commercial Package APPGNUPF002963901

Loc #	Address	City	State	Zip Code
1	511 Commercial Park Rd	Wahoo	NE	68066
2	2221 County Road 27	Prague	NE	68050
3	1700 County Road	Wahoo	NE	68066
4	265 Cherry Street	Colon	NE	68018

FNIC

Property Policy

Named Insured: Lower Platte North NRD
Insurance Company: National Union Fire Ins Co. of Pitt
Policy Number: APPGPNUPF002963901
Policy Term: 10/1/2023 to 10/1/2024

Blanket Schedule

Blanket #	Subject of Insurance	Limit	Ded	Valuation	Cause of Loss
1	Combined Building & Personal Property	\$2,671,041	\$1,000	R	Special

Exposure Schedule

Loc #1 - 511 Commercial Park Rd Wahoo , NE

Bld #	Blk#	Occupancy	Subject of Insurance	Limit	Ded	Valuation	Cause of Loss
1	1	Office	Building	1,076,323	\$ 1,000	Replacement Cost	Special
1	1	Office	Business Personal Property	281,216	\$ 1,000	Replacement Cost	Special
2	1	Pole Shed	Building	36,521	\$ 1,000	Replacement Cost	Special
3	1	Tree Cooler	Building	30,000	\$ 1,000	Replacement Cost	Special

Loc #2 - 2221 County Road 27 Prague , NE

Bld #	Blk#	Occupancy	Subject of Insurance	Limit	Ded	Valuation	Cause of Loss
1	1	Storage	Building	24,347	\$ 1,000	Replacement Cost	Special
1	1	Storage	Business Personal Property	14,277	\$ 1,000	Replacement Cost	Special

FNIC

Loc #3 - 1700 County Road Wahoo , NE

Bld #	Blk#	Occupancy	Subject of Insurance	Limit	Ded	Valuation	Cause of Loss
1	1	Meter House	Building	79,127	\$ 1,000	Replacement Cost	Special
1	1	Meter House	Business Personal Property	368,538	\$ 1,000	Replacement Cost	Special
2	1	6 Primitive Cabins	Building	81,120	\$ 1,000	Replacement Cost	Special
3	1	Education Center	Building	378,560	\$ 1,000	Replacement Cost	Special
4	1	Storage	Building	66,954	\$ 1,000	Replacement Cost	Special
4	1	Storage	Business Personal Property	4,326	\$ 1,000	Replacement Cost	Special
5	1	Shower House	Building	133,908	\$ 1,000	Replacement Cost	Special
6	1	Steel Bridge	Building	73,041	\$ 1,000	Replacement Cost	Special
3	1	Education Center	Business Personal Property	10,000	\$ 1,000	Replacement Cost	Special

Loc #4 - 265 Cherry Street Colon , NE

Bld #	Blk#	Occupancy	Subject of Insurance	Limit	Ded	Valuation	Cause of Loss
1	1	Well House	Building	12,783	\$ 1,000	Replacement Cost	Special

PROPERTY

Insurer: National Union Fire Insurance Company of Pittsburgh, Pa.

This coverage contains the following four sections:

- **Coverage A. Real Property** protects you for direct physical loss or damage to your buildings and structures at a premises shown on the schedule in this document caused by or resulting from a covered cause of loss. Pays up to the limit shown on the schedule in this document in any one occurrence. Real Property includes foundations of buildings, structures, machinery or boilers.
- **Coverage B. Personal Property** protects you for direct physical loss or damage to your contents at a premises shown on the schedule in this document caused by or resulting from a covered cause of loss. Pays up to the limit shown on the schedule in this document in any one occurrence.
- **Coverage C. Loss of Income** protects your loss of income if your operations are interrupted because of a covered loss to your buildings or contents. Covers the loss of income you sustain during the period of restoration. Pays up to the limit shown on the schedule in this document in any one occurrence.
- **Coverage D. Extra Expense** protects you from extra expense you incur if your operations are interrupted because of a covered loss to your buildings or contents, provided the extra expense is necessary to minimize your down-time and continue operations. Covers the extra expense (over and above normal operating expenses) incurred during the period of restoration. Pays up to the limit shown on the schedule in this document in any one occurrence.

Glatfelter Public Entities insures property against *any* cause of direct physical loss or damage unless the cause of loss is specifically excluded. Notable exclusions to coverage include, but are not limited to, war, nuclear activity, earthquake or flood, and asbestos. Please refer to the actual Property Coverage Part for a complete description of coverage, exclusions, and conditions.

Earthquake Coverage or Flood Coverage is optional for eligible locations if not identified below.

A deductible applies to all property coverage unless otherwise noted in the proposal.

Valuation

Glatfelter Public Entities insures property on a **Replacement Cost (RC)** basis unless indicated otherwise. If indicated on the Schedule of Property Limits, property coverage on designated premises may be provided on an **Actual Cash Value (ACV)** or **Functional Replacement Cost (FRC)** basis. Descriptions are:

- **Replacement Cost** pays to replace your property, without deduction for depreciation, but is subject to the limit on the policy.
- **Actual Cash Value** pays the cost to replace your property, subject to depreciation and subject to the limit on the policy.
- **Functional Replacement Cost** pays to replace your property with similar property intended to perform the same function, when replacement with identical property is impossible or unnecessary; it's subject to the limit you select.

Property

Policy Deductible: \$1,000

Equipment Breakdown Deductible:

If no deductible is shown above or otherwise described in the Proposal notes, the Policy Deductible applies.

Property Premises Summary

<u>Premises</u>	<u>Address</u>	<u>City</u>	<u>State</u>	<u>Zip</u>
1	511 COMMERCIAL PARK RD	WAHOO	NE	68066
2	2221 COUNTY ROAD 27	PRAGUE	NE	68050
3	1700 COUNTY ROAD N	WAHOO	NE	68066
4	265 CHERRY ST	COLON	NE	68018

Schedule of Property Coverage – Policy Blanket Limits

The following Blanket Limit Schedule for Coverage A – Real Property and Coverage B – Personal Property applies to all items of Real Property and Personal Property except for the property listed in the Schedule of Property Coverage – Individual Limits.

<u>Premises</u>	<u>Blanket Limit of Insurance</u>	<u>Valuation</u>	<u>Coinsurance</u>	<u>Inflation Guard</u>
All	\$2,671,041	RC	N/A	4%

Schedule of Property Coverage – Individual Limits

<u>Premises/ Item</u>	<u>Description/ Occupancy</u>	<u>Real Property</u>			<u>Personal Property</u>				
		<u>Limit</u>	<u>Valu- ation</u>	<u>Coin- surance</u>	<u>Inflation Guard</u>	<u>Limit</u>	<u>Valu- ation</u>	<u>Coin- surance</u>	<u>Inflation Guard</u>
1 / 2	POLE SHED	Incl. in Blanket				Not Covered			
1 / 3	TREE COOLER	Incl. in Blanket				Not Covered			
3 / 5	SHOWER HOUSE	Incl. in Blanket				Not Covered			
4 / 1	WELL HOUSE	Incl. in Blanket				Not Covered			

Coverages C and D: Schedule of Limits

Coverage C – Loss of Income	Loss sustained for up to:	\$250,000	per occurrence
Coverage D – Extra Expense	Loss sustained for up to:	\$250,000	per occurrence

Property Coverage Extensions Limits

<u>Extension</u>	<u>Limit of Insurance</u>
Accounts Receivable:	\$50,000
Fine Arts (without certified appraisal):	\$25,000 (subject to \$1,500 per item)
Fine Arts (with certified appraisal):	\$50,000
In Transit or Off Premises:	\$100,000
Outdoor Property:	\$789,237
Software:	\$500,000
Trees, Shrubs, Plants and Lawns:	\$25,000
Valuable Papers and Records:	\$50,000

PROPERTY – COVERAGE HIGHLIGHTS

The following apply unless noted otherwise in this proposal:

Accounts Receivable	<p>Pays the costs you incur in restoring your accounts receivable records following a covered loss.</p> <p>Also pays amounts you are unable to collect if your accounts receivable records cannot be restored.</p> <p>Applies on-premises or away from premises.</p> <p>Pays up to the limit shown in the above schedule in any one occurrence; optional limits may be available.</p> <p>Coverage deductible applies subject to maximum \$500.</p>																		
Commandeered Property	<p>Pays at your request for direct physical loss or damage to commandeered property caused by or resulting from any covered cause of loss.</p> <p>Coverage applies only for the time you officially use the commandeered property to manage an emergency situation and the time to return the property.</p> <p>Pays the "replacement cost" of the commandeered property and loss of use.</p>																		
Debris Removal	<p>Covers up to 25% of the amount paid for direct physical loss to covered property if the expense is incurred as a result of a covered cause of loss.</p> <p>Pays up to an additional \$100,000 if the debris removal expense exceeds the 25% provided above.</p> <p>Pays up to \$5,000 of the limit available for debris removal of trees that are damaged by a covered cause of loss, provided that the trees have damaged your covered real or personal property or prevent access to your premises.</p>																		
Deductible Waiver	<p>If a Property claim occurs in conjunction with a claim under a Glatfelter Public Entities Auto Physical Damage or Inland Marine coverage, only one deductible, the largest, will apply to all losses.</p>																		
Equipment Breakdown	<p>Extends property coverage to include the mechanical breakdown of equipment or the explosion of pressure vessels at a covered premises. Covered equipment includes such items as covered real property or personal property that generates, transmits or utilizes energy, including electronic communications and data processing equipment; or during normal usage, operates under vacuum or pressure, other than the weight of its contents. Coverage is extended to include electronic circuitry impairment, green enhancements and cloud computing. Please refer to the actual Property Coverage Part for equipment not covered.</p> <p>Covers loss of income or extra expense you may suffer if utilities are interrupted as a result of an accident to covered equipment owned by a landlord or utility company.</p> <p>Subject to applicable Property limits and sub-limits as noted here:</p> <table border="0"> <tr> <td>- Loss of Income:</td> <td>Refer to the property's schedule in this proposal</td> </tr> <tr> <td>- Extra Expense:</td> <td>Refer to the property's schedule in this proposal</td> </tr> <tr> <td>- Expediting Expenses:</td> <td>\$100,000</td> </tr> <tr> <td>- Hazardous Substances:</td> <td>\$250,000</td> </tr> <tr> <td>- Spoilage:</td> <td>\$100,000</td> </tr> <tr> <td>- Data Restoration:</td> <td>\$500,000</td> </tr> <tr> <td>- Green Coverage:</td> <td>\$100,000</td> </tr> <tr> <td>- Off-Premises Equipment Breakdown:</td> <td>\$25,000</td> </tr> <tr> <td>- Public Relations:</td> <td>\$5,000</td> </tr> </table>	- Loss of Income:	Refer to the property's schedule in this proposal	- Extra Expense:	Refer to the property's schedule in this proposal	- Expediting Expenses:	\$100,000	- Hazardous Substances:	\$250,000	- Spoilage:	\$100,000	- Data Restoration:	\$500,000	- Green Coverage:	\$100,000	- Off-Premises Equipment Breakdown:	\$25,000	- Public Relations:	\$5,000
- Loss of Income:	Refer to the property's schedule in this proposal																		
- Extra Expense:	Refer to the property's schedule in this proposal																		
- Expediting Expenses:	\$100,000																		
- Hazardous Substances:	\$250,000																		
- Spoilage:	\$100,000																		
- Data Restoration:	\$500,000																		
- Green Coverage:	\$100,000																		
- Off-Premises Equipment Breakdown:	\$25,000																		
- Public Relations:	\$5,000																		

PROPERTY – COVERAGE HIGHLIGHTS – continued

Fine Arts	<p>Pays the fair market value to restore fine arts to its pre-loss condition or replace the item with an identical object.</p> <p>Pays up to \$25,000 in any one occurrence (subject to \$1,500 per Item) without a certified appraisal.</p> <p>Pays up to the limit shown in the above schedule in any one occurrence with a certified appraisal.</p>
Fire Department Charge	<p>Pays the fire department charges assumed by contract prior to a covered loss; or when required by local ordinance.</p> <p>Charges are payable only when a fire department is called to save or protect real property or personal property at a premises described in the Declarations.</p> <p>No deductible.</p> <p>Pays up to \$25,000 in any one occurrence.</p>
Fire Extinguishing Recharge Costs	<p>Will pay the cost to recharge fire extinguishing equipment at your premises regardless of whether the discharge was accidental or was the result of a covered cause of loss.</p> <p>No deductible.</p>
Limited Fungus, Wet Rot, Dry Rot and Bacteria	<p>Protects against loss by fungus, wet rot, dry rot or bacteria arising out of occurrences of windstorm, hail, explosion, civil commotion, vehicles, aircraft, smoke, vandalism, sprinkler leakage, sinkhole collapse, volcanic action, falling objects, the weight of ice / snow / sleet, or water damage (and flood if optional flood coverage is purchased).</p> <p>Pays up to \$25,000 total for all occurrences. Will not pay more than \$25,000 even if it continues to be present or active, or recurs, in a later policy period.</p>
Newly Acquired Property	<p>Covers newly acquired buildings, buildings under construction, construction materials and supplies and contents at newly acquired locations.</p> <p>Up to 90 days or the end of the policy period.</p> <p>Limits are \$1,000,000 for buildings and \$500,000 for contents.</p>
Ordinance Coverage	<p>Applies to buildings on a replacement cost basis when damaged by a covered loss.</p> <p>Coverage applies to any undamaged portion of your building caused by any law or ordinance that:</p> <ul style="list-style-type: none"> - Requires demolition of parts of your building not damaged - Regulates the construction or repair of buildings or establishes zoning or land use requirements, and - Is in force at the time of loss <p>Includes the cost to demolish and clear the site of the undamaged part of the property and the increased cost to repair, rebuild or construct the affected building.</p> <p>The total paid for the undamaged portion is included within the building limit and does not increase that limit. The most we will pay for the cost to demolish the undamaged part of the property or the increased cost to repair or rebuild shall not exceed 100% of the amount paid for the initial physical loss or damage or \$1,000,000, whichever is greater.</p>

PROPERTY – COVERAGE HIGHLIGHTS – continued

Outdoor Property	<p>Covers fixed or permanent structures such as exterior signs, antennas, fences, benches, playground equipment, hydrants, dumpsters, electric utility power transmission and distribution lines, poles and related equipment owned by the insured not at scheduled premises, if you have building coverage with Glatfelter Public Entities.</p> <p>Pays up to the limit shown in the above schedule in any one occurrence; optional limits may be available.</p>
Personal Effects	<p>Will pay the replacement cost for direct physical loss to property on your premises that belongs to you, your officers, managers, elected or appointed officials, employees, or volunteer workers.</p> <p>Pays up to \$25,000 in any one occurrence.</p>
Pollution Remediation Expenses	<p>Applies on-premises only.</p> <p>You have up to 180 days after the date of loss to notify us.</p> <p>Pays up to \$25,000 in any policy period resulting from a covered cause of loss.</p> <p>Pays up to \$100,000 in any policy period resulting from a specified cause of loss.</p> <p>No coverage for fungus, wet rot, dry rot, virus, bacteria or asbestos.</p>
Preservation of Property	<p>Pays for <u>any</u> direct physical loss or damage to real or personal property if it is necessary to move the property from a premises for the purpose of preserving it from direct physical loss or damage by a covered cause of loss.</p> <p>Coverage applies while it is being moved or while temporarily stored at another location.</p> <p>Loss or damage must occur within 90 days after the property is first moved.</p>
Real or Personal Property in Transit or Off Premises	<p>Pays up to the limit shown in the above schedule in any one occurrence; optional limits may be available.</p> <p>Coverage applies to covered real or personal property while in transit or temporarily off premises. Computer hardware is covered while off premises.</p>
Software	<p>Coverage for the cost of restoring, researching, replacing, or reproducing electronic data or the media on which it is stored and any resulting loss of income and extra expense.</p> <p>Covered causes of loss include computer virus and intentional destruction by employee.</p> <p>Applies on-premises or away from premises.</p> <p>Pays up to the limit shown in the above schedule in any one occurrence; optional limits may be available.</p>
Trees, Shrubs, Plants & Lawns	<p>Covers against loss by fire, lightning, explosion, civil commotion, aircraft, vehicles and vandalism up to \$25,000 any one occurrence subject to a \$1,000 maximum for any single tree, plant or shrub.</p>
Valuable Papers & Records	<p>Coverage for the cost of restoring, researching, replacing, or reproducing your documents following a covered loss.</p> <p>Applies on-premises or away from premises.</p> <p>Pays up to the limit shown in the above schedule in any one occurrence; optional limits may be available.</p> <p>Coverage deductible applies subject to a maximum of \$500.</p>

PROPERTY – COVERAGE HIGHLIGHTS – continued

Arson, Theft or Vandalism Information Reward	<p>We will reimburse you for the payment of rewards that you actually incur which provide information related to arson fire, theft or vandalism, subject to certain conditions.</p> <p>Pays up to \$25,000 per loss.</p> <p>No deductible applies.</p>
Lock Replacement	<p>Covers the necessary expense you incur to replace locks, lock cylinders and keys, electronic or otherwise, after a covered theft of your covered property.</p> <p>Pays up to \$25,000 per occurrence.</p> <p>No deductible.</p>
Spoilage due to Off Premises Electrical Service Interruption	<p>Covers damage and expense that are the result of an interruption of electrical power service to your premises. The interruption must result from direct physical loss or damage by a covered cause of loss to the off premises power supply equipment.</p> <p>Coverage applies to:</p> <ul style="list-style-type: none"> - Physical damage to perishable goods due to spoilage; - Physical damage to perishable goods due to contamination from the release of refrigerant, including but not limited to ammonia; - Any necessary expenses you incur to reduce the amount of loss and does not exceed the amount of loss. <p>Pays up to \$50,000 in any one occurrence.</p>
Water Contamination Notification Expense Coverage	<p>Pays all necessary printing, mailing and other expenses you incur when you are required by law or regulatory authority to notify your customers of actual or possible water contamination.</p> <p>Pays up to \$25,000 in any one policy period.</p> <p>No deductible.</p>
Claim Expense	<p>Covers the cost of your employees taking inventories and preparing statements of loss.</p> <p>Pays up to \$20,000 in any one occurrence.</p> <p>Coverage is not extended for any expenses billed by an independent or public adjuster to prepare claims.</p>
Building Glass – Tenant	<p>Covers loss or damage to building glass if you are a tenant and have a contractual responsibility to insure the glass.</p>
Damage to Building from Theft	<p>Covers damage caused by theft or attempted theft to a building that you occupy, but do not own, and for which you have a contractual obligation.</p> <p>Pays up to \$100,000 in any one occurrence.</p>
Non-Owned Detached Trailers	<p>Covers non-owned trailers used in your business in your care, custody or control at the premises, and for which you have a contractual obligation.</p> <p>Pays up to \$50,000 in any one occurrence.</p>
Crisis Incident Response Coverage (Municipalities & Special Districts)	<p>Covers crisis response management expenses and post-crisis counseling services.</p> <p>Pays up to \$25,000 in any one crisis incident.</p> <p>No deductible applies.</p> <p>Coverage only applies to your operations that are not related to educational institutions.</p>

CRIME

Insurer: National Union Fire Insurance Company of Pittsburgh, Pa.

Coverage provides reimbursement for the loss of your money or other property on a loss sustained basis resulting from dishonest acts of your employees or volunteers. For governmental entities, Glatfelter Public Entities insures these employee theft exposures on the Government Crime form on a Per Employee or Per Loss basis. A Faithful Performance of Duty coverage extension is included if statutorily required. On the Commercial Crime form for non-governmental entities, Glatfelter Public Entities insures Employee Theft on a Per Loss basis. Other Crime coverages include Forgery or Alteration, Money & Securities, Computer and Funds Transfer Fraud, Money Orders and Counterfeit Paper Currency, and Fraudulent Impersonation.

Coverage does not apply to any public officials or employees whose positions require separate bonds such as a tax collector or treasurer. Those obligations are typically addressed by a surety bond and Glatfelter Public Entities coverage cannot be used to fulfill those requirements.

Government Crime

<u>Insuring Agreement</u>	<u>Limits of Insurance</u>	<u>Deductible Amount</u>
Employee Theft <i>Includes Faithful Performance</i>	\$50,000 per Loss	\$250 per Loss
Forgery or Alteration	\$50,000 per Occurrence	\$250 per Occurrence
Inside the Premises – Theft of Money & Securities	\$50,000 per Occurrence	\$250 per Occurrence
Inside the Premises – Robbery/Safe Burglary	\$5,000 per Occurrence	\$250 per Occurrence
Outside the Premises	\$50,000 per Occurrence	\$250 per Occurrence
Computer and Funds Transfer Fraud	\$50,000 per Occurrence	\$250 per Occurrence
Money Orders	\$25,000 per Occurrence	\$250 per Occurrence
Fraudulent Impersonation	\$25,000 per Occurrence	\$250 per Occurrence

INLAND MARINE

Insurer: National Union Fire Insurance Company of Pittsburgh, Pa.

This coverage contains the following three sections:

- **Coverage A. Blanket Tools and Equipment** protects you for direct physical loss or damage caused by or resulting from any covered cause of loss to your tools and equipment.

Tools and equipment means any portable equipment or tool, together with attached devices, accessories and trailers that are used in your operations. This covers tools or equipment, such as hand tools, power tools, mechanics tools, saws, maintenance or diagnostic equipment, generators, air compressors, materials handling equipment, outdoor portable seating, food service trailers not licensed for road use. It also includes mobile equipment such as bulldozers, backhoes, excavators and graders.

Note: If an item is scheduled under Coverage B. Scheduled Equipment, there is no coverage for such item under Coverage A Blanket Tools and Equipment or Coverage C Blanket Emergency Services Equipment.

A deductible applies to Blanket Tools and Equipment coverage.

- **Coverage B. Scheduled Equipment** protects for direct physical loss or damage caused by or resulting from any covered cause of loss to equipment owned by you that is specifically listed.

A deductible applies to each Scheduled Equipment item. The amount of the deductible(s) is indicated in the Coverage B – Scheduled Equipment section below.

- **Coverage C. Blanket Emergency Services Equipment** protects for direct physical loss or damage caused by or resulting from any covered cause of loss to Blanket Emergency Services Equipment owned by you.

Emergency Services equipment means items such as portable law enforcement, firefighting, ambulance, rescue, and communications equipment, including trailers whose primary purpose is to transport covered Emergency Services equipment. It also includes firearms, radar speed timing units, training videos, manuals, and mannequins.

A deductible applies to Blanket Emergency Services Equipment coverage.

Inland Marine

<u>Coverage</u>	<u>Limit</u>	<u>Deductible</u>
Coverage A – Blanket Tools and Equipment:	\$500,000 *	\$250
Coverage B – Scheduled Equipment:	see schedule below	see schedule below
Coverage C – Blanket Emergency Services Equipment:	Not Covered	

* subject to a per item limit of \$10,000

Coverage B – Scheduled Equipment

<u>Description</u>	<u>Serial Number</u>	<u>Limit</u>	<u>Deductible</u>	<u>Valuation</u>
1984 JOHN DEERE TRACTOR 4450	RW4450PP016210	\$37,500	\$250	ACV
GPS SURVEY EQUIPMENT	35283 & 442-1358	\$25,000	\$250	ACV
BOBCAT T770 W/ATTACHMENTS	AN8T12102	\$72,000	\$250	ACV
LUND & MERCURY MARINE PREDATOR	LBB20410E818/OR8370	\$10,476	\$250	ACV
GREAT PLAINS DRILL	GP2685XX	\$31,000	\$250	ACV
2015 JOHN DEERE CX15 FLEX WING	1POCX15FCP039485	\$15,300	\$250	ACV
GREAT PLAINS END WHEEL NO TILL	1006NT	\$18,000	\$250	ACV
GRASSHOPPER 725DT MOWER	6816293	\$12,755	\$250	ACV
2016 JOHN DEERE 825I XUV	1M0825GELGM117	\$13,000	\$250	ACV
2018 POLARIS RANGER UTV	3NSRMA576JE360923	\$10,000	\$250	ACV
2021 BOBCAT CT4045 TRACTOR/LOA	BV201192 & B4W211434	\$27,319	\$250	ACV
HUSTLER DIESEL Z MOWER	22100774	\$14,666	\$250	ACV
HUSTLER DIESEL Z MOWER	22100775	\$14,666	\$250	ACV
2023 KAWASAKI 4010 FE MULE	JK1AFCZ15PB501328	\$19,086	\$250	ACV
JOHN DEERE 1550 MOWER W/ SIDE DECK	1TC1550DKPS10041	\$25,718	\$250	ACV
2023 BOBCAT T770 TRACK LOADER W/ BUCKET	AT6340841	\$76,871	\$250	ACV
1986 JOHN DEERE 1050 TRACTOR	CH1050S015299	\$12,000	\$250	ACV
GREAT PLAINS NO-TILL GRASS DRILL	1005NG-1	\$12,000	\$250	ACV

Rented or Borrowed Equipment Extension Limit

Any one occurrence: \$100,000

Watercraft Extension Limit

Any one occurrence: \$25,000

INLAND MARINE – COVERAGE HIGHLIGHTS

The following apply unless noted otherwise in this proposal:

Debris Removal	<p>Pays the expense you incur in removing debris of covered tools and equipment, emergency services equipment, or scheduled equipment after direct physical loss or damage caused by or resulting from any covered cause of loss.</p> <p>Pays up to \$15,000 in any one occurrence.</p>
Tools and Equipment Owned by Your Employees	<p>Pays the replacement cost of tools and equipment used in the course of your operation belonging to your employees or volunteers.</p> <p>No deductible applies.</p> <p>Pays up to \$25,000 in any one occurrence (if no other coverage is available to the owner of the tools and equipment).</p>
Emergency Services and Law Enforcement Personal Effects	<p>Extends Blanket Emergency Services Equipment to pay the cost to replace personal effects belonging to emergency service or law enforcement employees or volunteers while away from your premises and en route to, performing, or returning from an emergency service or law enforcement duty.</p> <p>Pays up to the actual replacement cost, on a primary basis, for the lost or damaged personal effects in any one occurrence.</p> <p>No deductible applies under this extension.</p>
Rented or Borrowed Equipment	<p>Coverage A and C: Extended to pay for Tools and Equipment and Emergency Services Equipment not owned by you, but that is temporarily in your possession; pays up to the lesser of the replacement cost of the item or \$10,000 in any one occurrence.</p> <p>Coverage B Scheduled Equipment: Extended to pay not owned by you, but that is temporarily in your possession; the most paid in any one occurrence is the lesser of the actual cash value of the damaged equipment or \$100,000; higher limits are available.</p> <p>\$1,000 deductible applies.</p> <p>The coverage provided is primary.</p>
Rental Reimbursement for Scheduled Equipment	<p>Coverage B Scheduled Equipment: Extended to reimburse you for the expenses you incur to rent substitute equipment while your scheduled equipment is inoperable due to direct physical loss or damage caused by or resulting from a covered cause of loss.</p> <p>A 72-hour waiting period applies.</p>

INLAND MARINE – COVERAGE HIGHLIGHTS – continued

Unmanned Aircraft (Drones)	<p>Pays to repair or replace your lost or damaged unmanned aircraft.</p> <p>Coverage does not apply when the unmanned aircraft is:</p> <ul style="list-style-type: none">- rented, leased or loaned to others without an operator who is your employee or volunteer- used in any professional or organized racing, demolition or stunting activity. This includes practicing for such activity. <p>\$500 deductible applies.</p> <p>Pays up to \$25,000 in any one occurrence.</p>
Fire Department Charge	<p>Pays the fire department charges as a result of direct physical damage to your tools and equipment, scheduled equipment, or emergency service equipment due to a covered cause of loss.</p> <p>No deductible.</p> <p>Pays up to \$1,000 in any one occurrence.</p>
Fire Extinguishing Recharge Costs	<p>Will pay the cost to recharge fire extinguishing equipment at your premises regardless of whether the discharge was accidental or was the result of a covered cause of loss.</p> <p>No deductible.</p>
Newly Acquired Scheduled Equipment	<p>Covers newly acquired Scheduled Equipment or similar to that listed in the respective schedules, for a period of 30 days from date of acquisition.</p> <p>\$1,000 deductible applies.</p> <p>Pays replacement cost not to exceed purchase price.</p>
Deductible Waiver	<p>If an Inland Marine claim involving Coverage A and/or Coverage C occurs in conjunction with a claim under a Glatfelter Public Entities Auto Physical Damage or Property coverage, only one deductible, the largest, will apply to all losses.</p>

AUTO

Insurer: National Union Fire Insurance Company of Pittsburgh, Pa.

<u>Coverage</u>	<u>Symbols</u>	<u>Limits</u>
Combined Single Limit for Bodily Injury & Property Damage (each Accident):	1	\$1,000,000
"No Fault" or Statutory Personal Injury Protection:		Not Included
Medical Payments:	7	\$5,000
Uninsured Motorists:	6	\$1,000,000
Underinsured Motorists:	6	\$1,000,000
Physical Damage Comprehensive:	2,8	see schedule below
Physical Damage Collision:	2,8	see schedule below

Schedule of Vehicles

<u>Vehicle No.</u>	<u>Year</u>	<u>Make & Model</u>	<u>VIN</u>	<u>ACV</u>	<u>RC</u>	<u>Agreed Value</u>	<u>Comp. Ded.</u>	<u>Coll. Ded.</u>
1	2001	TRAILER TANDEM AXLE CAR TRAILER	1S9FP20241W3342	X			\$500	\$500
2	1988	HOMEMADE 3 AXLE TRAILER	0000	X			\$500	\$500
3	2001	DODGE 3500	3B6MF36621M268547	X			\$500	\$500
4	2008	DODGE RAM SLT PICKUP	3D7KS26A48G152083	X			\$500	\$500
5	2005	DODGE RAM PICKUP	1D7HU16N95J16559	X			\$500	\$500
6	2007	DODGE 3/4 TON PICKUP	3D7KS26DX7G798494	X			\$500	\$500
7	2012	CHEVROLET SILVERADO	3GCPKSEA4CG237631	X			\$500	\$500
8	2011	TRAILER UTILITY TRAILER	4YMUL0810BM023034	X			\$500	\$500
9	2013	H&H UTILITY TRAILER	533US121XDC223378	X			\$500	\$500
10	2014	FORD F150	1FTFX1EF2EKD82911	X			\$500	\$500
11	2017	FORD FUSION	3FA6P0G72HR113622	X			\$500	\$500
12	2016	TRAILER UTILITY TRAILER	4YMBU1214HM000240	X			\$500	\$500
13	2017	CHEVROLET SILVERADO	1GCVKNEC7HZ315255	X			\$500	\$500
14	2018	LOAD TRAILER LOW-PRO DUMP TRAILER	4ZEDT1631J1156023	X			\$500	\$500
15	2013	ALUMA LW UTILITY TRAILER	1YGUS1012DB095571	X			\$500	\$500
16	2018	CHEVROLET SILVERADO	1GCVKNEC6JZ316502	X			\$500	\$500
17	2019	KARAVAN BOAT TRAILER	5KTBS1810KFS02989	X			\$500	\$500
18	2019	CHEVROLET SILVERADO	1GCUYAEF1KZ314901	X			\$500	\$500
19	2020	CHEVROLET SILVERADO	1GC2YNE76LF298379	X			\$500	\$500
20	2022	CHEVROLET SILVERADO	1GCGTBEN4N1126966	X			\$500	\$500
		HIRED CAR PHYSICAL DAMAGE		X			\$100	\$250

AUTO – COVERAGE HIGHLIGHTS

The following apply unless noted otherwise in this proposal:

Liability on "Any Auto" basis	Covers your liability for owned, hired or non-owned autos.
Temporary Substitute Vehicle Liability	Coverage is provided when a replacement vehicle is loaned to you while a covered vehicle is temporarily out of service. Coverage is on a primary basis.
Uninsured Motorist/ Underinsured Motorist	Covers bodily injury (and property damage where required by law) sustained by an eligible party caused by a negligent uninsured/underinsured motorist per state laws.
Hired Car Physical Damage	Coverage for hired, borrowed or commandeered vehicles on an actual cash value basis. Coverage is primary.
Deductible Waiver	If an Auto Physical Damage claim occurs in conjunction with a claim under a Glatfelter Public Entities Inland Marine or Property coverage, only one deductible, the largest, will apply to all losses.
Airbag Coverage	Covers loss caused by accidental discharge of an airbag.
Elected or Appointed Officials – Commissions as Insureds	Covers your elected or appointed officials while using a covered auto you do not own, hire or borrow, while performing duties related to the conduct of your business. Covers commissions, authorities, boards or agencies, their commissioners, officers and members while using a covered auto you do not own, hire or borrow, but only while acting within the authority granted by you and only performing duties related to the conduct of your business.
Knowledge of Accident	Failure of any agent, volunteer worker or employee of the insured, other than an employee authorized by you to give or receive notice of an accident, claim, suit or loss, to notify us of any accident, shall not invalidate insurance afforded by the policy.

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Drivers

Name as it appears on License:	State	License Number:	Date of Birth:
Abbot, Sydney	NE	H13342052	4/27/1994
Andersen, Daryl	NE	G32001497	9/13/1958
Benal, Tyler	NE	H13185585	8/8/1990
Breunig, Jill	NE	G06004100	7/1/1970
Brueggemann, Will	NE	H13458676	9/26/1994
Chapman, Ryan	NE	H12395339	11/25/1981
Dokulil, Danny	NE	A06027425	6/2/1949
Elliott, Sean	NE	H12358301	12/11/1979
Franzen, Noah	NE	H13719551	5/25/2000
Gottschalk, Eric	NE	G06015054	3/24/1965
Heimann, Robert	NE	G02032371	4/16/1961
Moore, David	NE	G81000428	4/25/1970
Mullen, Richard	NE	G01233263	6/9/1948
Oaklund, Russell	NE	G38005115	7/13/1957
Odvody, Dave	NE	G06005330	11/13/1946
Poole, Christopher	NE	H12234461	1/11/1976
Rezac, Karen	NE	G06011028	3/22/1964
Sabatka, Lacey	NE	H12995455	4/6/1989
Schomer, Bret	NE	H12961404	8/10/1987

GENERAL LIABILITY

Insurer: National Union Fire Insurance Company of Pittsburgh, Pa.

This coverage contains the following three sections:

- **Coverage A. Bodily Injury and Property Damage Liability** protects you when claims are made against you because of injury to others or damage to their property, unless caused by an auto.
- **Coverage B. Personal and Advertising Injury Liability** protects you when claims are made against you because of injury to others arising from offenses such as slander or violation of a person's privacy.
- **Coverage C. Medical Expense** pays medical expenses requested by you in writing for bodily injury caused by an accident on your premises or because of your operation. These expenses are payable even if the injury occurred through no fault of your own.

<u>Coverage</u>	<u>Limit</u>
Each Occurrence:	\$1,000,000
Damage to Premises Rented to You:	\$1,000,000
Medical Expense:	\$10,000
Personal and Advertising Injury:	\$1,000,000
General Aggregate:	\$3,000,000
Products – Completed Operations Aggregate:	\$3,000,000
Deductible:	\$0

Water or Wastewater Professional Activity Liability • Covers you for liability for acts, errors or omissions from your activities treating potable water or the collection and treatment of wastewater.

Dam, Reservoir or Levee

The following dams, reservoirs or levees have structural failure or collapse coverage:

<u>NPDP ID</u>	<u>Dam, Reservoir or Levee Name</u>
	TROUBLE CREEK DAM
	CLEAR CREEK 22-A
	BELLWOOD2-C
	DUCK CREEK 2
	COTTONWOOD CREEK 7-A
	COTTONWOOD 6-B
	BELLWOOD 4-L
	LAKE WANAHOO DAM
	SAND CREEK 24

GENERAL LIABILITY – COVERAGE HIGHLIGHTS

The following apply unless noted otherwise in this proposal:

Defense Costs	Payable in addition to the Limits of Insurance.
Bodily Injury	Bodily Injury includes mental anguish, and mental injury, shock, fright or death resulting from bodily injury, sickness or disease.
Contractual Liability	Covers you for the liability you agreed to assume of another party, either orally or in writing, but not for the sole negligence of the other party. The claim must be otherwise covered (not excluded).
Damage to Property of Persons Receiving Services	Covers you for liability for a personal property loss suffered by a member of the public receiving services from you, provided the loss is caused by theft, physical damage or disappearance. Subject to a \$100 deductible each occurrence. Coverage is limited to firefighting, emergency medical services or rescue squad units.
"Good Samaritan" Liability	Covers volunteer members and employees for liability arising from actions on their own to render services at the scene of an emergency requiring immediate action. Applies to professional health care or any other services. To qualify as a "Good Samaritan", the individual must act independently of your organization or any other organization.
Damage to Premises Rented to You (including Fire Damage Legal Liability)	Covers you for liability for damages, due to "property damage" caused by "specified perils", to any one premises while rented to you or temporarily occupied by you with permission of the owner.
Unmanned Aircraft (Drones)	Covers you for unmanned aircraft owned, operated, rented or loaned to you. Unmanned aircraft means an aircraft weighing 15 pounds or less that is not designed, manufactured or modified after manufacture to be controlled directly by a person from within or on the aircraft. Unmanned aircraft includes equipment used with the unmanned aircraft, provided such equipment is attached to or essential for its operation.
Pollution Liability	Covers you for bodily injury or property damage arising out of a pollution incident resulting from any of the following: <ul style="list-style-type: none"> - heat, smoke or fumes from a hostile fire - escape of fuels or lubricants from mobile equipment - escape or back-up of sewage or wastewater if property damage occurs away from land you own or lease - storage and/or application of pesticides or herbicides

GENERAL LIABILITY– COVERAGE HIGHLIGHTS – continued

- potable water which you supply to others
- chemicals you use in your water or wastewater treatment
- chemicals you use or store in your classrooms and laboratories
- chemicals you apply, use or store for your ownership, maintenance or operation of swimming pools
- application, use or storage of road salt or similar substances designed and used for snow and ice removal from road and similar surfaces
- natural gas or propane gas used in your treatment process

All pollution incidents must be accidental, unintended and stopped as soon as possible.

Watercraft Liability

Covers you for bodily injury or property damage arising from your use of the following:

- non-owned boats (unless carrying persons or property for a charge)
- owned boats that are not powered by motors
- owned boats that are powered by motors of not more than 100 horsepower, and jet skis and wave runners regardless of horsepower

Failure to Supply Water

Coverage is included for failure to supply water and is not subject to the ISO sudden and accidental restriction.

Public Use of Property

No coverage is provided for claims arising out of the principles of eminent domain, including condemnation, adverse possession, and dedication by adverse use, or inverse condemnation.

PUBLIC OFFICIALS AND MANAGEMENT LIABILITY

Insurer: National Union Fire Insurance Company of Pittsburgh, Pa.

This coverage contains the following sections:

- **Coverage A. Liability for Monetary Damages** protects you when claims are made against you for monetary damages arising out of a wrongful act, employment practices offense or employee benefits administration offense resulting from your operations. Coverage does not apply to bodily injury, property damage or personal and advertising injury, except when resulting from a covered employment practices offense.
- **Coverage B. Defense Expense for Injunctive or Declaratory Relief** reimburses reasonable defense expenses you incur to defend an injunctive or declaratory relief action arising out of a wrongful act, employment practices offense or employee benefit administration offense resulting from your operations.

Policy Type: Occurrence

<u>Coverage</u>	<u>Limit</u>	
Coverage A: <i>Coverage A includes Employee Benefits Liability</i>	\$1,000,000	Each Wrongful Act or Offense
Coverage B:	\$5,000	Each Action
Aggregate Limit:	\$3,000,000	Coverage A and B Combined
Coverage A Deductible:	\$0	

PUBLIC OFFICIALS AND MANAGEMENT LIABILITY – COVERAGE HIGHLIGHTS

The following apply unless noted otherwise in this proposal:

Defense Expense	The cost to defend you against covered claims is the responsibility of the company and will not erode your liability limits.
Wrongful Acts	Coverage applies to any actual or alleged error, act, omission, neglect, misfeasance, nonfeasance, or breach of duty, including violation of any civil rights law, that results unexpectedly and unintentionally to others.
Employment Practices	<p>Coverage applies to an actual or alleged improper employment related practice, policy, act or omission involving an actual, prospective or former employee or volunteer worker.</p> <p>Includes violations of civil rights, wrongful termination, failure to hire and harassment, including sexual harassment. Harassment toward or from a third-party involving an employee or volunteer is included.</p>
Employee Benefits Liability	Coverage applies to acts, errors or omissions in counseling, interpreting, handling records, or effecting enrollments in your employee benefit plans.
Public Use of Property	No coverage is provided for claims arising out of the principles of eminent domain, including condemnation, adverse possession, dedication by adverse use, or inverse condemnation.

Cyber Liability and Privacy Crisis Management Expense

- **Coverage D. Cyber Liability** protects you when claims are made against you for monetary damages arising out of an electronic information security event.
- **Coverage E. Privacy Crisis Management Expense** reimburses for expenses you incur as a result of a privacy crisis management event first discovered during the policy period. This first party coverage is intended to provide professional expertise in the identification and mitigation of a privacy breach while satisfying all Federal and State statutory requirements.
- **Coverage F. Cyber Extortion Expense** reimburses for expenses you incur as a result of a cyber extortion threat first made against you during the policy period.

Coverage D – Cyber Liability

Each Event Limit: \$1,000,000 Each Electronic Information Security Event
 Retroactive Date: 10/01/2021

Coverage E – Privacy Crisis Management Expense

Each Event Limit: \$50,000 Each Privacy Event
 Retroactive Date: 10/01/2021
 Deductible: \$0 Each Privacy Event

Coverage F – Cyber Extortion Expense

Each Event Limit: \$20,000 Each Cyber Extortion Threat
 Deductible: \$0 Each Cyber Extortion Threat

Coverage E – Privacy Crisis Management Expense and Coverage F – Cyber Extortion Expense

Aggregate Limit: \$50,000

PUBLIC OFFICIALS AND MANAGEMENT LIABILITY – COVERAGE HIGHLIGHTS

– Cyber Liability and Privacy Crisis Management

The following apply unless noted otherwise in this proposal:

Cyber Liability

Coverage applies to each electronic information security event which includes:

- Transmission of malware from your computer system to a third party;
- The inability of an authorized user to access your web site or your computer system because of a denial of service attack;
- A personal identity event or corporate privacy event caused by information that is obtained or released directly from your computer system.

As used in this definition, a denial of service attack means an intentional attack directly on your computer system that prevents or slows down access to your web site or your computer network. However, a denial of service attack which affects the internet at large and is not directed at your computer system is not an electronic information security event.

Personal Identity Event or Corporate Privacy Event

What is a personal identity event or corporate privacy event?

- Unauthorized disclosure of or failure to protect identifiable or confidential corporate information from misappropriation;
- The failure to disclose or warn of an actual or potential disclosure of misappropriation of personally identifiable or confidential corporate information;
- Violation of any federal or state privacy statute pertaining to the disclosure or misappropriation of personally identifiable or confidential corporate information.

Privacy Crisis Management Expense Coverage

Pays on behalf applicable reasonable and necessary fees because of a privacy event which includes:

- To conduct a computer forensic analysis to determine the cause and extent of the privacy event;
- Provide a crisis management review and advice by an approved independent crisis management or legal firm;
- Notification to affected parties for printing, advertising, mailing of materials or other costs;
- Travel expenses by directors and employees to mitigate damages;
- Call center services for credit monitoring as well as identity theft education and assistance for affected individuals.

Privacy crisis management expenses shall not include:

- Compensation, fees, benefits or overhead of any insured or "employee" of any insured;
- Costs or expenses that would have been incurred in the absence of the "privacy event";
- Costs or expenses associated with upgrading, maintaining, improving, repairing or remediating any "computer system", procedures, services or property as a result of a "privacy event".

PUBLIC OFFICIALS AND MANAGEMENT LIABILITY – COVERAGE HIGHLIGHTS
– *Cyber Liability and Privacy Crisis Management* – continued

Privacy Event

What is a privacy event?

- Unauthorized disclosure by you of personally identifiable or confidential corporate information or your failure to protect personally identifiable or confidential corporate information from misappropriation;
- Failure to disclose or warn of an actual or potential disclosure or misappropriation of personally identifiable or confidential corporate information;
- Violation of any federal or state privacy statute pertaining to the disclosure or misappropriation of personally identifiable or confidential corporate information.

Cyber Extortion Expense

Reimburses you for expenses paid in response to a cyber extortion threat.

Cyber Extortion Threat

What is a cyber extortion threat?

A cyber extortion threat is a demand for monetary payment based on a credible threat directly involving your computer system (not the internet at large) to:

- Launch a denial of service attack;
- Steal, release or publish personally identifiable information or confidential corporate information;
- Alter, damage or destroy electronic data;
- Cause you to transfer, pay or deliver any funds or property without your authorization.

Coverage Territory

For cyber liability, privacy crisis management expense and cyber extortion expense coverage, the coverage territory means worldwide, but the event and suit must take place in the U.S., Puerto Rico or Canada.

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Workers' Compensation Policy

Named Insured: Lower Platte North NRD
Insurance Company: National Union Fire Ins Co. of Pitt
Policy Number: APPWC024501355
Policy Term: 10/1/2023 to 10/1/2024

Claim reporting notice: To comply with Workers' Compensation statutes, all work related injuries should result in the prompt filing of the Employers First Report with the insurance company and the State Workers' Compensation Court. Any medical expenses incurred as a result of such injuries are to be paid strictly by the insurer. Non-compliance with this rule could result in fines and/or penalties by the Workers' Compensation Court.

<u>Limits:</u>	<u>Coverage Description:</u>
\$500,000	Employer's Liability – Each Accident
\$500,000	Employer's Liability – Disease – Policy Limit
\$500,000	Employer's Liability – Disease – Each Employee

NOTE: All information shown is subject to verification and change by audit.

State: NE - Schedule of Exposures

Code	Classification	Est. Payroll
9102	Lawn Maintenance - Commercial Or Domestic & Drivers	\$167,606
8810	Clerical Office NOC	\$16,903
8601	Air Flow Testing And Balancing Exclusively	\$705,950
0042	Landscape Gardening & Drivers	\$144,681
8742	Salespersons, Collectors Or Messengers--outside	If any
8603	Architectural or Engineering Firm - Clerical	\$336,579

Partners, Officers, Relatives to be included or excluded:

Officers	Included
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Experience Modification Rating:

Additional Coverages and/or Exclusions include, but are not limited to:

Description:
Premium Discount Endorsement
90 Day Reporting Requirement - Notification of Change in Ownership Endorsement
Catastrophe Premium End
Audit Noncompliance Charge Endorsement
Premium Due Date Endorsement
Nebraska Contracting Classification Premium Adjustment Endorsement

EXCESS LIABILITY

Insurer: National Union Fire Insurance Company of Pittsburgh, Pa.

Excess Liability coverage protects you with the following:

- Excess limits above the limits of your applicable scheduled underlying Auto Liability, General Liability, Law Enforcement Activity Liability, Public Officials and Management Liability and Cyber Liability coverage parts subject to specific exclusions or limitations shown on the Excess Liability coverage.
- Excess coverage will apply when scheduled underlying policies have been exhausted.

Policy Type: Follow Form Excess

	<u>Limit of Insurance</u>
Each Occurrence:	\$4,000,000
General Aggregate:	\$4,000,000

EXCESS LIABILITY – COVERAGE HIGHLIGHTS

The following apply unless noted otherwise in this proposal:

Public Officials and Management Liability	Follows form with underlying occurrence or claims-made coverage.
Employer's Liability	Included in excess limits if scheduled as underlying coverage.
Defense Costs	Payable in addition to the Limits of Insurance.
Public Use of Property	No coverage is provided for claims arising out of the principles of eminent domain, including condemnation, adverse possession, dedication by adverse use, or inverse condemnation.
Failure to Supply Water	Coverage is included for failure to supply water and is not subject to the ISO sudden and accidental restriction.
Unmanned Aircraft (Drones)	Coverage is included for unmanned aircraft that is owned, operated, rented or loaned to you. \$1,000,000 each occurrence/aggregate sublimit applies.

FNIC

Premium Summary

Named Insured: Lower Platte North NRD
Policy Term: 10/01/2023 to 10/01/2024

Description of Coverage	Annualized Expiring Premium	Renewal Premium	Difference
Property	\$15,881	\$16,743	\$862
Crime	\$382	\$382	\$0
Inland Marine	\$4,347	\$7,819	\$3,472
Business Automobile	\$11,833	\$11,393	-\$440
General Liability	\$38,309	\$38,309	0
POML	\$6,425	\$6,457	\$32
Excess	\$23,385	\$24,521	\$1,136
Workers' Compensation	\$10,115	\$10,669	\$554
Total Estimated Premium	\$110,677	\$116,293	5,616
National Union Fire- AXV			

A change in terms, conditions or premiums may occur after binding upon underwriter's receipt and review of subjectivities, or the failure to provide subjectivities on a timely basis.

Available Premium Payment Plans:

- Glatfelter program- Agency Bill Annual

We accept online payments & you can review open invoices at <https://fnicgroup.epaypolicy.com> using your client code LOW27860

Please provide your accounting contact email address for invoice inquiries.

Important Notes and Comments Regarding Quotations:

- Property Values increased 4% for Inflation
- General Liability:
 - Lake Wanahoo is Excluded for Failure, carrier is reviewing April 2023 inspection to determine if Failure can be added back on..

Binding Subject To:

- Package:
 - Signed SOV
 - Signed Auto UIM Form

FNIC

Workers' Compensation Rate Comparison

Named Insured: Lower Platte North NRD
Insurance Company: National Union Fire Ins Co. of Pitt
Policy Number: APPWC024501355
Policy Term: 10/1/2023 to 10/1/2024

State: NE

CLASS	DESCRIPTION	Last term PAYROLL	This term PAYROLL	Last Term RATE	This Term Rate
9102	Lawn Maintenance - Commercial Or Domestic & Drivers	\$167,606	\$167,606	3.03	2.90
8810	Clerical Office NOC	\$16,903	\$16,903	.17	.14
8601	Air Flow Testing And Balancing Exclusively	\$705,950	\$705,950	.30	.27
0042	Landscape Gardening & Drivers	\$144,681	\$144,681	6.00	6.18
8742	Salespersons, Collectors Or Messengers--outside	If any	If Any	.36	.32
8603	Architectural or Engineering Firm - Clerical	\$336,579	\$336,579	.08	.08



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Terracon.com

August 18, 2023

JEO Consulting Group Inc
11213 Davenport Street Ste. 200
Omaha, NE 68154

Attn: Ryan Dorfmeier

RE: Proposal for Geotechnical Engineering Services
Lower Platte North NRD
Northeast corner of Highway 77/92 and County Road 17
Wahoo, Nebraska
Terracon Proposal No. PA3235075

Dear Mr. Dorfmeier:

We appreciate the opportunity to submit the attached proposal to JEO Consulting Group Inc (JEO) to provide Geotechnical Engineering services for the above referenced project. The attached proposal is organized into the following sections as referenced in the Agreement for Services.

Project Information
Scope of Services
Compensation
Schedule
Site Location
Proposed Exploration Plan

Our services will be performed under the terms and conditions of the Master Services Agreement between JEO Consulting Group Inc and Terracon dated September 8, 2005. Authorization for Terracon to proceed in accordance with this proposal can be issued by signing and returning the Task Order. We appreciate the opportunity to provide this proposal and look forward to working with you on this project.

Sincerely,
Terracon

Levi E. Brown, P.E. (MN)
Project Engineer

Bradley A. Levich, P.E.
Senior Principal

Distribution: Addressee (pdf)

MASTER SERVICES AGREEMENT**TASK ORDER**

This **TASK ORDER** is issued under the **MASTER SERVICES AGREEMENT** dated 09/08/2005 between JEO Consulting Group Inc ("Client") and Terracon Consultants, Inc. ("Consultant") for Services to be provided by Consultant for Client on the Lower Platte North NRD project ("Project"), as described in the Project Information section of the Consultant's Task Order Proposal dated 08/18/2023 ("Task Order Proposal") unless the Project is otherwise described below or in Exhibit A to this Task Order (which section or Exhibit are incorporated into this Task Order). This Task Order is incorporated into and part of the Master Services Agreement.

1. Project Information

The project includes performing geotechnical services for the proposed Lower Platte North NRD office and storage buildings, and pavements in Wahoo, NE.

2. Scope of Services The scope of Services to be provided under this Task Order are described in the Scope of Services section of the Consultant's Task Order Proposal, unless Services are otherwise described below or in Exhibit B to this Task Order.

Scope of Services as described in Terracon Proposal No. PA3235075.

3. Compensation Client shall pay compensation for the Services performed at the fees stated in the Task Order Proposal unless fees are otherwise stated below or in Exhibit C to this Task Order.

Compensation as described in Terracon Proposal No. PA3235075.

All terms and conditions of the **Master Services Agreement** shall continue in full force and effect. This Task Order is accepted and Consultant is authorized to proceed.

Consultant: **Terracon Consultants, Inc.**
By: *Bradley A Levich* Date: **8/18/2023**
Name/Title: **Bradley A Levich, P.E. / Office Manager**
Address: **3220 N 20th St, Ste 3**
Lincoln, NE 68521-1382
Phone: **(402) 466-3911** Fax: **(402) 466-0811**
Email: **Brad.Levich@terracon.com**

Client: **JEO Consulting Group Inc**
By: _____ Date: _____
Name/Title: **Ryan Dorfmeier**
Address: **11213 Davenport Street Ste. 200**
Omaha, NE 68154
Phone: **(402) 392-9904** Fax: _____
Email: **rdorfmeier@jeo.com**

Project Information

Our Scope of Services is based on our understanding of the project as described by JEO and the expected subsurface conditions described below. We have not visited the project site to confirm site conditions. Aspects of the project which are undefined or assumed are highlighted. We request JEO and/or the design team verify all information prior to mobilization

Planned Construction

Item	Description
Information Provided	<p>Project information provided by Mr. Ryan Dorfmeier with JEO via email dated August 10, 2023. Information provided includes:</p> <ul style="list-style-type: none"> ■ Architectural drawings for the office building ■ Site Location ■ Site plan with proposed boring locations ■ LiDAR .DWG file
Project Description	<p>We understand the project consists of constructing a new office building and storage building for the NRD.</p>
Proposed Structure(s) and Construction	<p>From information received from JEO, the office building will utilize cast-in-place concrete, structural steel framing, and conventional wood framing to create the main building structure. The exterior façade will primarily consist of a masonry/stone veneer, prefinished metal wall panels, and a prefinished standing seam roof panels. The building will be subdivided into various offices, meeting rooms, restrooms, and a garage area. The building will also incorporate a “walkout” basement condition to accommodate the lower level. The storage building will utilize wood framed pole barn construction. The exterior façade will consist of metal wall and roof panels.</p>
Finished Floor Elevation	<p>Not provided. Finished floor elevation for the office building is anticipated to be around 1303 feet based on elevations from Provided LiDAR. Finished floor elevation for the office building is anticipated to be around 1299 feet.</p>

Item	Description
Maximum Loads	The following structural loads were provided by JEO: <ul style="list-style-type: none"> ■ Columns: 100 kips ■ Walls: 6 kips per linear foot (klf) The following slab loads were not provided and are anticipated based off our experience with similar projects: <ul style="list-style-type: none"> ■ Office Slabs: 150 pounds per square foot (psf) ■ Storage Building Slabs: 250 pounds per square foot (psf)
Grading/Slopes	Grading plan not provided. Approximately 15 feet of cut and minimal feet of fill will be required to develop site floor grade. Final slopes are planned with a maximum height of 15 feet and an inclination of 3H:1V (Horizontal: Vertical) or flatter for natural slopes.
Below-Grade Structures	The office building will consist of a walk-out style basement.
Free-Standing Retaining Walls	Retaining walls will be located at the north and south ends of the office building, as well as along the east side of the storage building. Maximum wall heights are anticipated to be around 15 feet according to the elevations provided on the provided architectural plans.
Pavements	The site is assumed to consist of a parking lot with drives running between the two buildings and connecting to County Road 17. Terracon will provide general pavement recommendations and subgrade recommendations with recommended minimum thicknesses. A formal pavement design is not a part of or scope.

Site Location and Anticipated Conditions

Item	Description
Parcel Information	The project is located at Northeast corner of Highway 77/92 and County Road 17 in Wahoo, Nebraska. Latitude 41.2369° N, Longitude 96.6211° W (approximate). See Site Location
Site History	Based on a review of historical aerials from Google Earth, the location of the storage building has had a gravel road running through it since around 2013. The location for the office building

has been undeveloped, but the surficial soil appears to have been reworked, or potentially have been a stockpile location in 2009 while excavation for Lake Wanhoo was taking place.



2006



2009



2010

Existing Improvements

There is an existing building to the southwest of the proposed site that appears to contain multiple stockpiles in the area where the proposed road will connect to County Road 17. There is a residential building to the northwest of the proposed site.

Current Ground Cover

Grass and existing gravel road.

Existing Topography

According to the provided LiDAR topographic map, the site elevation slopes downwards from west to east at elevation 1310 feet to 1295 feet.

Site Access

We expect the site and all exploration locations are accessible with our ATV-mounted drilling equipment and support vehicles (pick-up trucks).

Expected Subsurface Conditions

Based on our experience and well logs near the site, we anticipate encountering fill material underlain by native clays and sands. Groundwater is anticipated to be below 50 feet.

Scope of Services

Our proposed Scope of Services consists of utility sweep, field exploration, laboratory testing, and engineering/ report delivery. These services are described in the following sections.

Field Exploration

Site Access: Terracon must be granted access to the site by the property owner. Without information to the contrary, we consider accepting this proposal as authorization to access the property.

Terracon will conduct field services during normal business hours (Monday through Friday between 7:00am and 5:00pm). If our exploration must take place over a weekend or at night, please contact us so we can discuss time restrictions and adjust our schedule and fee.

Field Exploration Scope: JEO requested the following exploration plan and we recommend the following drill depths:

Exploration Type	Number	Planned Depth (feet) ¹	Planned Location ²
Soil Borings	2	40	Office building area
	1	40	Storage building area
	2	7	Parking & paved drives

1. Although not anticipated based on the geology in the vicinity of the project site, borings would be terminated at shallower depths if refusal is encountered.
2. See **Anticipated Exploration Plan**.

Layout and Elevations: We will locate the borings by field measurements with a GPS device which is capable of documenting the exploration point location with about 0.5-foot vertical and 5 feet horizontal accuracy. The locations and elevations should be considered accurate only to the degree implied by these methods.

If precise locations and elevations are desired, we suggest JEO to stake the boring locations and provide elevations.

Subsurface Exploration Procedures – Soil Borings: We will advance the soil borings with an ATV-mounted drill rig using continuous-flight augers.

Sampling in the borings will be in general accordance with industry standard procedures using thin-walled Shelby tubes and split-barrel samplers. Four samples will be obtained in the upper 10 feet of each boring and at intervals of 5 feet thereafter. The samples will be

placed in appropriate containers, transported to our soil laboratory for testing, and reviewed by a geotechnical engineer.

We will observe and record groundwater levels in the boreholes during drilling and sampling.

Our exploration team will prepare field boring logs as part of standard drilling operations including sampling depths, penetration distances, and other relevant sampling information. Field logs include visual classifications of materials observed during drilling and our interpretation of subsurface conditions between samples. Typed boring logs, prepared from field logs, included with the Geotechnical Engineering Report will represent the Geotechnical Engineer's interpretation and include modifications based on observations and laboratory tests.

Property Disturbance: Terracon will take reasonable efforts to reduce damage to the property. However, it should be understood that in the normal course of our work some disturbance could occur. Our Scope of Services does not include services associated with site clearing, wet ground conditions. We should be notified if such conditions exist so we can adjust our Scope of Services and/or fees.

We will backfill borings with auger cuttings and/or bentonite pellets upon completion. Our services do not include repair of the site beyond backfilling our boreholes. Excess auger cuttings and drilling fluids will be dispersed in the general vicinity of the borehole. Because backfill often settles below the surface, we recommend boreholes be periodically checked and backfilled. We can provide this service or grout the boreholes for additional fees at your request.

Our field equipment includes heavy drill rigs and support vehicles carrying water tanks. We will take reasonable efforts to avoid excessive damage or rutting due to our equipment; however, the extent of damage will highly depend on the near-surface soil moisture content and presence/absence of frost or poor drainage. At a minimum, the field equipment will leave depressions several inches deep in even dry weather with firm ground conditions. More disturbance occurs during wet weather and in soft ground conditions.

Safety

Terracon is not aware of environmental concerns at this project site that would create health or safety hazards associated with our exploration program; thus, our Scope considers standard OSHA Level D Personal Protection Equipment (PPE) appropriate. Our Scope of Services does not include environmental site assessment services, but identification of unusual or unnatural materials observed while drilling will be noted on our logs.

We will contact the local “one-call” service for location of utilities in public easements. Locating private lines on the property is not part of the “one-call.”

All private line information should be supplied to Terracon to assist with utility locate efforts. The detection of underground utilities is dependent upon the composition and construction of the utility line; some utilities are comprised of non-electrically conductive materials and may not be readily detected and similarly deeply buried utilities may not be detected. Authorizing private locate services does not relieve the owner of responsibility in identifying private underground utilities. We are not responsible for damage to private utilities that are not made aware to us or utilities that cannot be located due to materials.

Laboratory Testing

The project engineer will review the field data from the exploration and then assign the types and numbers of tests. We have budgeted to perform visual classification and moisture content on all samples, and dry density and strength tests (unconfined compression/calibrated penetrometer) as appropriate on thin-walled tube samples. In addition, we have budgeted to perform the following tests:

Laboratory Test ¹	Quantity
Atterberg limits	3
Sieve analysis	1
One-dimensional Consolidation	1

In the event additional testing is necessary, we will notify you of this need prior to initiating the additional testing and will not proceed without your approval.

Our laboratory testing program will include review of the soil samples by an engineer. Based on the material’s texture and plasticity, we will describe soil samples in general accordance with the Unified Soil Classification System (USCS).

Engineering and Report Delivery

The results of our field and laboratory programs will be evaluated, and a Geotechnical Engineering Report will be prepared by or under the supervision of a licensed professional engineer. The Geotechnical Engineering Report will provide the following:

- Site Location and Exploration Plans
- Subsurface exploration procedures
- Description of subsurface conditions

- Computer generated boring logs with:
 - soil stratification based on visual soil classification (Unified Soil Classification System)
 - summarized laboratory data
 - groundwater levels observed in the boreholes
 - ground surface elevation
 - approximate latitude-longitude
- Plotted laboratory (consolidation) test results
- Earthwork recommendations including site/subgrade preparation
- Foundation support discussion
- Shallow foundation system recommendations
 - Net allowable bearing pressure
 - Anticipated total foundation settlement
 - Anticipated differential foundation settlement
 - Frost penetration and foundation discussion
 - Installation recommendations
 - Recommendations for a soil improvement system, if appropriate
- Seismic site classification ¹
- Recommendations for design and construction of interior floor slabs
- Lateral earth pressure and drainage recommendations for cantilever walls / below-grade building levels
- Pavement subgrade preparation discussion
- Minimum pavement thickness and composition recommendations for low volumes of automobile traffic ²
- Site drainage discussion
- Construction considerations

1. The International Building Code (IBC) requires a soil profile determination extending a depth of 100 feet for seismic site classification. We believe the proposed scope will provide sufficient information for foundation bearing capacity and settlement evaluations for buildings planned for this project, but does not explore to a depth of 100 feet. We will extrapolate the soil conditions encountered in the borings to a depth of 100 feet in order to estimate the site class. More accurate IBC classification can be achieved by expanding our scope to perform a deeper soil boring.
2. We will provide recommended minimum thicknesses for traffic conditions consisting of a low volume of automobiles and weekly trash pick-up. Our scope can be expanded to provide a pavement thickness evaluation in areas of heavier traffic or truck traffic. However, traffic information would be required for such an analysis. A pavement thickness design based on specific traffic data is not included in our scope of service.

In addition to an emailed report, the report will also be posted to our **Client Portal**. Upon initiation, we provide you and your design team the necessary link and password to access the website (if not previously registered). Each project includes a calendar to track the schedule, an interactive site map, a listing of team members, access to the project documents as they are uploaded to the site, and a collaboration portal. We welcome the opportunity to have project kickoff conversations with the team to discuss key elements of the project and demonstrate features of the portal.

The typical delivery process includes the following:

- Project Planning – Proposal information, schedule and anticipated exploration plan
- Site Characterization – Findings of the site exploration and laboratory results
- Geotechnical Engineering Report

When services are complete, we upload a printable version of our completed Geotechnical Engineering report, including the professional engineer's seal and signature in accordance with state requirements. Previous submittals, collaboration, and the report are maintained in our system to allow future reference as the project goes through design and construction.

Additional Services

In addition to the services noted above, the following are often associated with geotechnical engineering services. Fees for services noted above do not include the following:

Review of Plans and Specifications: Our geotechnical report and associated verbal and written communications will be used by others in the design team to develop plans and specifications for construction. Review of project plans and specifications is a vital part of our geotechnical engineering services. This consists of review of project plans and specifications related to site preparation, foundation, floor slab, cantilever building wall, free-standing exterior cantilever/modular wall, and pavement construction. Our review will include a written statement conveying our opinions relating to the plans and specifications' consistency with our geotechnical engineering recommendations.

Observation and Testing of Pertinent Construction Materials: Development of our geotechnical engineering recommendations and report relies on an interpretation of soil conditions. Our assessment is based on widely spaced exploration locations and the assumption that construction methods will be performed in a manner sufficient to meet our expectations and consistent with recommendations made at the time the geotechnical engineering report is issued. We should be retained to conduct construction observations, and perform/document associated materials testing, for site preparation, foundation, floor slab, cantilever building wall, free-standing exterior cantilever/modular

wall, and pavement construction. These services allow a more comprehensive understanding of subsurface conditions and necessary documentation of construction to confirm and/or modify (when necessary) the assumptions and recommendations made by our engineers.

Compensation

The fees in the following table are based upon our understanding of the site, the project as summarized in **Project Understanding**, and our planned **Scope of Services**:

Task	Lump Sum Fee ²
Site Layout, Subsurface Exploration ¹ , Laboratory Testing, Geotechnical Consulting and Reporting	\$10,800

1. The lump sum fee considers one drill rig mobilization and no unexpected onsite delays. Our fee will increase for each additional mobilization. A drill crew standby rate of \$400 per hour will be invoiced for unexpected delays.
2. Effective for 90 days from the date of the proposal.

Unless instructed otherwise, we will submit our invoice(s) to the address shown at the beginning of this proposal. We anticipate that meetings may be convened to discuss our report, to discuss project design and development, and for engineering assistance associated with preparation of construction documents. Time associated with engineers to travel to and attend such meetings or telephone conference calls will be charged at a rate of \$155/hour for Project Manager/Engineer, \$190/hour for Senior Engineer, and \$215/hour for Principal. Mileage for travel to/from meetings will be charged at a rate of \$0.95/mile. We will obtain your written authorization prior to incurring additional costs.

If other conditions are encountered that require Scope of Services revisions and/or result in higher fees, we will contact you for approval prior to initiating services. A supplemental proposal stating the modified Scope of Services as well as its effect on our fee will be prepared. We will not proceed without your authorization.

Schedule

We developed a schedule to complete the Scope of Services based upon our existing availability. However, our schedule does not account for delays in field exploration beyond our control, such as weather conditions, utility clearance, or lack of permission. Please contact us if the following schedule is inconsistent with your needs.

GeoReport Stage	Anticipated Posting Date ¹
Project Planning and Schedule Review	3-5 days from Notice to Proceed
Site Characterization	15-20 days after completing the field exploration
Geotechnical Engineering	25-35 days after completing the field exploration ²

1. Includes consideration of the client's schedule information provided to us at the time of this proposal. Schedule changes relayed to us after project acceptance may not be achievable.
2. When information is needed prior to completing our report, we will provide preliminary recommendations for specific project elements after completing our field and laboratory programs.

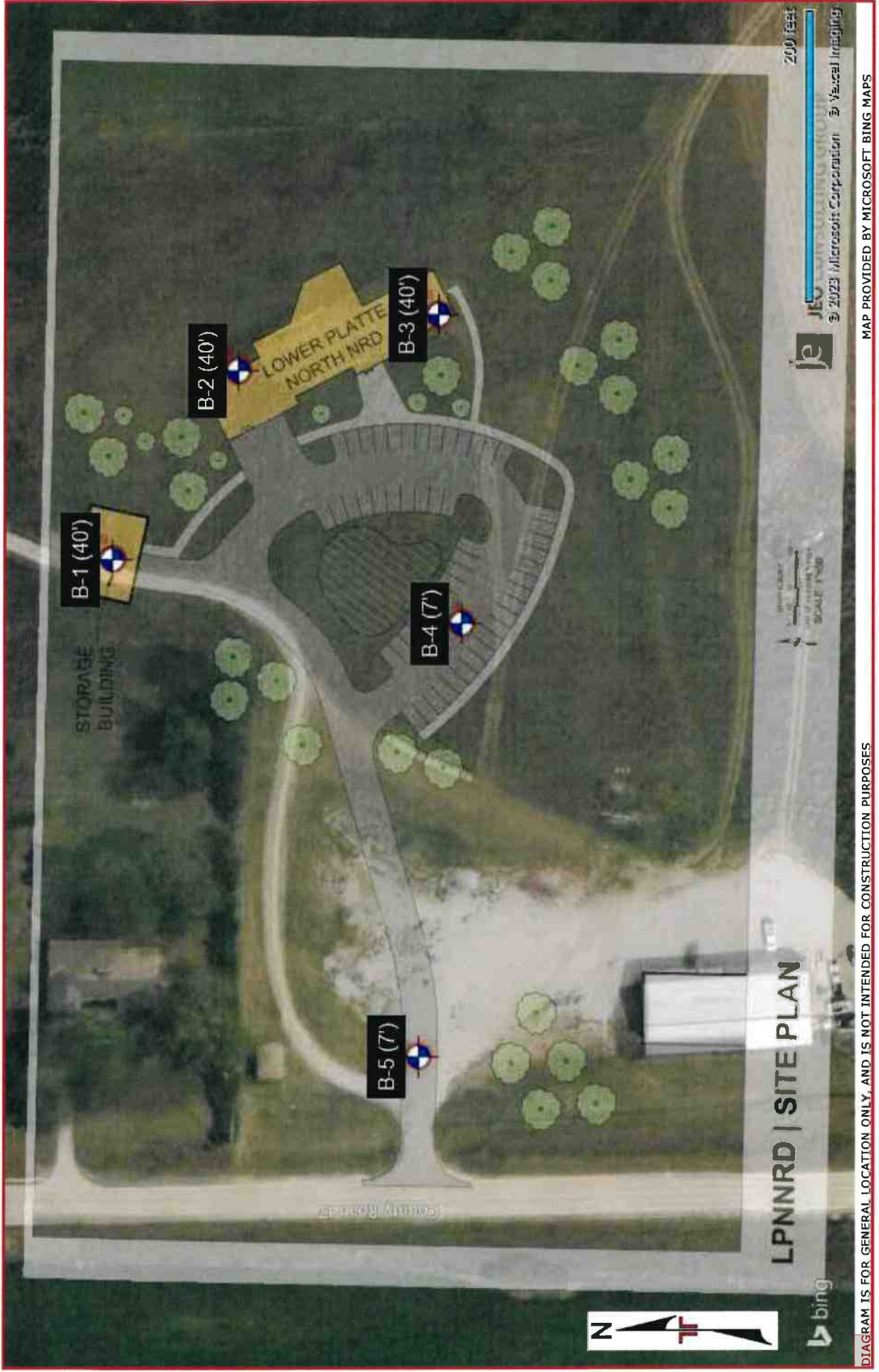
Site Location



DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

MAP PROVIDED BY MICROSOFT BING MAPS

Anticipated Exploration Plan





13478 Chandler Road
Omaha, Nebraska 68138-3716
402.556.2171 Fax 402.556.7831
www.thielegeotech.com

August 17, 2023

Mr. Ryan Dorfmeier
JEO Architecture
11213 Davenport Street, Ste 200
Omaha, NE 68154

**RE: PROPOSAL FOR GEOTECHNICAL EXPLORATION
LOWER PLATTE NORTH NRD OFFICE & STORAGE BUILDINGS, HWY 77 / 92 & CO.
RD. 17, WAHOO, NE**

Dear Mr. Dorfmeier:

Enclosed is our proposal for geotechnical exploration related to the proposed office and storage building to be located near the intersection of Highway 77 / 92 and County Road 17 in Wahoo, Nebraska. The accompanying proposal describes our approach and proposed scope of services, the estimated cost of the study, and the contract terms.

Thiele Geotech is a service-oriented firm offering geotechnical, material, and environmental engineering. Our focus is on providing quality engineering solutions based on each individual client's needs. Our professional staff has extensive experience with similar projects, and we have the equipment and resources available to complete this study.

We look forward to working with you and your design team on this project. If you have any questions, please call. If the accompanying proposal is acceptable, please return an executed copy to our office.

Respectfully,
Thiele Geotech, Inc.

A handwritten signature in blue ink that reads 'Cody G. Kimball'.

Cody G. Kimball, P.E.

Enclosures

R:\PROPOSAL\GEOTECHNICAL DEPARTMENT\LOWER PLATTE NORTH NRD OFFICE & STORAGE BUILDINGS.DOCX

**Geotechnical Exploration Proposal
Lower Platte North NRD Office & Storage Buildings
Highway 77 / 92 & County Road 17
Wahoo, Nebraska
August 17, 2023**

Thiele Geotech, Inc. is pleased to submit our proposal for geotechnical exploration related to the referenced project. The following sections detail our understanding of the project, our proposed scope of services, and the cost of the study. The contract terms are attached in Exhibit A. This proposal will be held open for a period of 45 days from the above date.

PROJECT DESCRIPTION

Our understanding of the project is based upon information provided by JEO Architecture.

The project consists of constructing new office and storage buildings located northeast of the Highway 77 / 92 and County Road 17 intersection in Wahoo, Nebraska. Paved drive lanes and parking lots are anticipated to be constructed to the west of the proposed structures.

The office building is anticipated to be a two-story structure with an approximate footprint of 8,679 square feet. The lower-level is anticipated to be 15 feet below the first floor finished floor elevation and will walk-out at-grade. The office building will utilize cast-in-place concrete, structural steel framing, and conventional wood framing to create the main building structure. The exterior façade will primarily consist of a masonry/stone veneer, prefinished metal wall panels, and a prefinished standing seam roof panels. The building will be sub-divided into various offices, meeting rooms, restrooms, and a garage area. Maximum column loads of 100 kips and maximum continuous wall loads of 6 kips per lineal foot were provided for the office building.

We understand the storage building will be single-story and slab-on-grade with an approximate footprint of 2,500 square feet. We assume that the structure will be lightly loaded and we understand it will utilize wood-framed pole barn construction. The exterior façade will consist of metal wall and roof panels.

A grading plan was not provided at the time of this proposal. With exception of cuts required for the office building lower level, we assume maximum cuts and fills of 4 feet or less will be required to achieve finished first floor elevations and pavement subgrade elevations. Maximum cuts of up to 15 feet may be required to achieve lower level finished floor elevation for the office building. We understand that retaining walls will provide grade separation at the site at the north and south ends of the office building, as well as along the east side of the storage building. We assume the retaining wall construction will require cuts and we are not sure what type of wall will be utilized.

Based on previous experience in the area, the soils on the site are expected to consist of Peoria loess deposits overlying older loess and till deposits. The loess is assumed to be of firm consistency.

SCOPE OF SERVICES

Our proposed geotechnical exploration will consist of test borings to obtain geologic information and samples of the site soils, laboratory tests to determine the relevant engineering properties of the various soil strata, and a report of geotechnical engineering recommendations.

Prior to drill rig mobilization, Thiele Geotech will call 811 Nebraska One Call to locate public utilities at the project site. Any private utilities not located by 811 should be located by others.

In accordance with the request for proposal, a total of five test borings will be conducted for this study. The borings will be spaced across the site and at strategic locations provided by JEO Architecture, with two borings in the office building pad, one boring in the storage building pad, and two borings in the pavement areas. Based on boring depths of 5 to 35 feet, a total drilling footage of up to 90 lineal feet is proposed. The borings will be sampled at intervals of 5 feet or less and a descriptive log of the test borings will be prepared. The soil borings will be backfilled with auger cuttings.

Based on the results of the test borings, a laboratory testing program will be established to evaluate the engineering properties of the various soil strata. Laboratory testing may include moisture content and density determinations to characterize the state and uniformity of the deposits, unconfined compression tests to determine shear strength parameters, and index property tests for classification.

Our report will discuss the general soil and ground water conditions underlying the site; present the relevant engineering properties of the existing soils; provide earthwork and site preparation recommendations; and recommend design criteria and parameters for foundations, retaining walls, pavements, and other earth supported improvements. Our scope also includes a shop drawing review of the proposed retaining wall system.

The proposed scope of services does not include an evaluation of potential contamination on or near the site. If the environmental condition of the property is a concern, an environmental site assessment can be provided as an additional service.

ESTIMATED COST & SCHEDULE

Based on the indicated work scope, we propose a lump sum fee of \$6,200 for the geotechnical exploration. If additional work is authorized by the client due to unforeseen subsurface conditions or due to a change in scope, additional drilling, testing, and/or engineering will be provided at our normal fee schedule rates or for an agreed lump sum fee.

Approximately 4 to 5 weeks from your notice to proceed will be required to complete the drilling and laboratory testing for this study. Preliminary recommendations could be provided within approximately 1 week of completion of drilling. Approximately 6 to 8 weeks from notice to proceed will be required to complete a final geotechnical exploration report. The schedule is somewhat dependent on weather, site access conditions, and other factors including the actual subsurface conditions identified in the test borings. If this proposed schedule does not meet your project requirements, we would be happy to discuss alternate schedules.

ADDITIONAL SERVICES

Subsequent to completion of the geotechnical exploration report, additional services are often required that are not included in the above estimate. These include consultation with the design team and review of the final plans and specifications. In addition, construction phase quality control testing is an additional service not included in the above estimate. An environmental assessment, if required, can also be performed as an additional service. If we are requested to provide additional services including, but not limited to the above, you will be billed in accordance with our normal fee schedule. We would be happy to provide cost estimates for any additional services at your request.

EXHIBITS

Exhibit A – JEO Master Services Agreement (May 13, 2014)

THIELE GEOTECH, INC.

By: Raeanna C.D. Thiele

Raeanna C.D. Thiele, P.E.

13478 Chandler Road

Omaha, Nebraska 68138-3716

402/556-2171 Fax 402/556-7831

CLIENT: _____

By: _____ Date: _____

Name: _____

Address: _____

City, State: _____

Phone: _____ Fax: _____

GENERAL CONDITIONS

1. SCOPE OF WORK: Thiele Geotech, Inc. (including its officers, directors, employees and subconsultants, hereafter referred to as TG) shall perform the services described in the contract and shall invoice the client for those services at the Fee Schedule rates. Any cost estimates stated in this contract shall not be considered as firm figures unless specifically stated in this contract. If unexpected site conditions are discovered, the scope of services may change. TG will provide additional services at the contract Fee Schedule rates.

2. ACCESS TO SITES, PERMITS, AND APPROVALS: The client shall furnish TG with right-of-access to the site in order to conduct the planned exploration. Unless otherwise agreed, the client will also secure all necessary permits, approvals, licenses, and consents necessary to the performance of the services hereunder. While TG will take reasonable precautions to minimize damage to the property, it is understood by the client that, in the normal course of work, some damage may occur, the restoration of which is not part of this agreement.

3. UTILITIES: In the performance of its work, TG will take reasonable precautions to avoid damage or injury to subsurface utilities or structures. This includes requesting locates of utility owned lines and services. The client agrees to hold TG harmless and indemnify TG for any claims, payments, or other liability, including attorney fees, incurred by TG for damage to any privately owned subsurface utilities or structures which are not correctly identified to TG.

4. UNANTICIPATED HAZARDOUS MATERIALS: It shall be the duty of the client to advise TG of any known or suspected hazardous substances which are or may be related to the services provided; such hazardous substances including but not limited to products, materials, or wastes which may exist on or near any premises upon which work is to be performed by TG. If TG observes or suspects the existence of hazardous materials during the course of providing services, TG may, at its option, terminate further work on the project and notify client of the conditions. Services will be resumed only after a renegotiation of scope of services and fees. In the event that such renegotiation cannot occur to the satisfaction of TG, TG may, at its option, terminate this contract. It is understood and agreed that TG does not create, generate, or at any time take possession or ownership of hazardous materials as a result of its exploration services.

5. REPORTS AND INVOICES: TG will furnish up to 3 copies of reports to the client. Additional copies will be provided at the expense of the client. TG may submit invoices to the client monthly and upon completion of services. Client will bill TG invoices to their client within 20 days of receipt of invoice from TG unless client provides notice of questions/concerns with invoice. Client agrees to pay Thiele Geotech for services on submitted invoices within 10 days of receipt of payment from client.

6. OWNERSHIP OF DOCUMENTS: All reports, boring logs, data, notes, calculations, estimates, and other documents prepared by TG as instruments of service shall remain the property of TG.

7. SAMPLE DISPOSAL: Unless otherwise agreed, test specimens or samples will be disposed immediately upon completion of the test.

8. CONFIDENTIALITY: TG will hold confidential all business or technical information obtained from the client or generated in the performance of services hereunder and identified in writing by the client as confidential. TG will not disclose such information without the client's consent except to the extent required for; 1) performance of services under this contract; 2) compliance with professional standards of conduct for preservation of public safety, health, and welfare; 3) compliance with any court order or other governmental directive; and/or 4)

protection of TG against claims or liabilities arising from performance of services under this contract. TG's obligations hereunder shall not apply to information in the public domain or lawfully acquired on a non-confidential basis from others. TG's technical and pricing information are to be considered confidential and proprietary, and shall not be released or otherwise made available to any third party without the express written consent of TG.

9. STANDARD OF CARE: Services performed by TG under this contract will be conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions. No other warranty, express or implied, is made or intended by the proposal for services or by furnishing oral or written reports of the findings made. The client recognizes that TG does not owe any fiduciary responsibility to the client. The client further recognizes that subsurface conditions may vary from those encountered at the location where borings, surveys, tests, or explorations are made by TG, and that the data, interpretations, and recommendations of TG are based solely upon the data available to TG. TG will be responsible for those data, interpretations, and recommendations, but shall not be responsible for the interpretation by others of the information developed.

10. LIMITATION OF LIABILITY: In recognition of the relative risks, rewards, and benefits to both the client and to TG, the risks have been allocated such that the client agrees to limit TG's liability to the client and all other parties claiming to have relied on TG's work provided through the client to the amount of the applicable insurance coverage. This limitation of liability is a business understanding between the parties voluntarily and knowingly entered into, and shall apply to all theories of recovery including, but not limited to, breach of contract, warranty, tort (including negligence), strict or statutory liability, or any other cause of action except for willful misconduct or gross negligence.

11. TERMINATION: This contract may be terminated by either party upon 7 days prior written notice. In the event of termination, TG shall be compensated by client for all services performed up to and including the termination date and for the completion of such services and records as are necessary to place TG's files in order and/or protect its professional reputation. If either party terminates this contract, these General Conditions shall survive termination and shall remain enforceable between the parties.

12. DISPUTE RESOLUTION: In an effort to resolve any conflicts that arise during or following this project, the client and TG agree that all disputes between them arising out of or related to this agreement shall be submitted to nonbinding mediation unless the parties mutually agree otherwise. The client and TG also agree to include a similar mediation provision in all agreements with independent contractors and consultants thereby providing for mediation as the primary method for dispute resolution for all parties on the project.

13. PRECEDENCE: These standards, terms, and conditions shall take precedence over any inconsistent or contradictory language contained in any proposal, contract, purchase order, requisition, notice to proceed, or like document regarding TG's services.

14. ASSIGNMENT: Neither party under this contract may transfer or assign any rights under or interests in this contract without the prior written consent of the other party.

15. PROVISIONS SEVERABLE: In the event that any of the provisions of these General Conditions should be found to be unenforceable, it shall be stricken and the remaining provisions shall be enforceable.



LOWER PLATTE NORTH
Natural Resources District

LONG RANGE IMPLEMENTATION PLAN

Fiscal Year 2024

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Introduction

The Lower Platte North Natural Resources District (LPNNRD) is one of 23 Natural Resources Districts created in 1969 with the passage of LB 1357 by the Nebraska Unicameral. Since its formation in 1972, the LPNNRD has been assisting people in the Lower Platte River Basin in the development and protection of our soil and water resources. Nebraska Statutes require that Natural Resources Districts develop a Long Range Implementation Plan. The purpose of this plan is to summarize accomplishments during fiscal year 2022 (July 1, 2022 to June 30, 2023) and planned District activities for fiscal year 2023. There are also objectives for a five-year period from fiscal years 2024 to 2028. The plan serves as an implementation tool of the district’s Master Plan, which is updated every ten years.

This Long Range Implementation Plan was approved by the LPNNRD Board of Directors on September 11, 2023.

Authority and Responsibilities

The Natural Resources Districts have been given statutory responsibility outlined in Sections 2-3229, R.R.S. 1943. In this section it states that “The purposes of the Natural Resources Districts shall be to develop and execute, through the exercise of powers and authorities contained in this act, plans, facilities, works and programs relating to: (1) erosion prevention and control, (2) prevention of damages from flood water and sediment, (3) flood prevention and control, (4) soil conservation, (5) water supply for any beneficial uses, (6) development, management, utilization, and conservation of groundwater and surface water, (7) pollution control, (8) solid waste disposal and sanitary drainage, (9) drainage improvement and channel rectification, (10) development and management of fish and wildlife habitat, (11)

development and management of recreational and park facilities, and (12) forestry and range management.”

Lower Platte North NRD programs and projects are available to meet the goal of properly developing our water and related land resources.

Description of the District

The Lower Platte North Natural Resources District is located in the Lower Platte River Basin in eastern Nebraska and includes 1,031,000 acres of land. A portion of Saunders, Butler, Platte, Dodge, Colfax, Boone, and Madison Counties are within the district (see Appendix A), which includes twenty-eight cities, towns, and villages. Besides the Platte River, other notable tributaries in the district include: Bone Creek, Clear Creek, Duck Creek, Elm Creek, Loseke Creek, Rawhide Creek, Sand Creek, Shell Creek, Silver Creek, Skull Creek, Taylor Creek, and Wahoo Creek.

The population of the district is approximately 65,000, of which about half is rural and half urban. The Lower Platte North NRD is financed by a tax levy which may be up to four and one-half cents per \$100 valuation for general purposes and another one cent for water programs. The FY 2024 tax levy is 0.028652 cents per \$100 valuation.

Governing Body

The Lower Platte North Natural Resources District (LPNNRD) is governed by a 19-member Board of Directors. The directors are elected at the general election for a term of four years, with half of the members up for election every two years.

The district is divided into nine (9) subdistricts. Two board members are elected from each of the nine subdistricts, and one board member is elected at large every four years.



The district operates by a set of bylaws which are kept on file at the district headquarters at Wahoo, Nebraska.

FY 2023 Platte River Basin Activities

One of the great natural resources of Nebraska is the Platte River. It is the feature that attracted early settlers to our state and guided the wagon trails. Today, we look at the Platte River differently. It is a water source for agriculture and cities like Fremont, Lincoln, and Omaha, a haven for wildlife, and a place for recreation. Issues surrounding the Platte are a top priority at the LPNNRD, since approximately 72 miles of the river flow directly through, or border, the district.

Ice Jam Agreement

In 1994, the LPNNRD entered into an agreement with the Papio-Missouri River NRD, Lower Platte South NRD, and Cass, Douglas, Sarpy and Saunders Counties to more effectively deal with ice jams and their resulting flood damages along the Lower Platte River. This area of concern is primarily from Fremont, Nebraska to the mouth of the Platte River. This group has pooled funds of \$150,000 to retain a contractor to use explosives when needed, to remove ice jams in a timely manner.

During the winter of 2022-2023, there were no ice issues of concern on the lower Platte River.

Rock & Jetty Program

This program was developed to offer cost-share assistance to landowners to construct erosion control devices for stream bank stabilization and to assist Dike and Drainage Districts with maintenance of dikes along the Platte and Elkhorn rivers and perennial streams. In FY22, \$20,000 is budgeted for projects on rivers & streams. We assisted two landowners on maintenance projects in FY 22-23 at a cost of \$5,427.

FY 2024 Platte River Basin Objectives

- Administer \$20,000 in the Rock & Jetty Program to assist with priority stream bank stabilization for cooperators on the Platte and Elkhorn Rivers and Perennial streams. This includes assisting cooperators with meeting the regulations of the Clean Water Act through section 404 permits.
- As a member of the Joint Water Management Advisory Board, provide leadership and assistance to move forward with exploring flood reduction solutions within Dodge County.
- Support the Lower Platte Weed Management Area financially and technically in controlling noxious and invasive weeds.
- Support the Nebraska Land Trust in acquiring easements for the protection and preservation of quality lands.
- Support the Lower Platte River Corridor Alliance by becoming an active voting member.

FY 2025-2029 Long Range Platte River Basin Objectives

- Continue to budget cost-share funds for priority bank stabilization along the Platte and Elkhorn rivers and other perennial streams in the district.
- Continue to be an active member on the Joint Water Management Advisory Board.
- Promote riparian buffer zones along the Platte River and other perennial streams.
- Continue to explore new, innovative and cost-effective ways to protect against stream bank erosion.
- Provide education on stream bank protection and regulations.
- Support and budget annually, as needed, for the Ice Jam Agreement Fund.
- Keep up to date on Clean Water Act and Endangered Species Act regulations.

- Continue to participate with the City of Fremont and Dodge County to study potential nonstructural measures to reduce flooding and economic losses from the Lower Platte River.
- Work with the City of Schuyler as they evaluate the need for future federal funding for completing structural and non-structural approaches to reduce flooding and economic losses from the Platte River through the LPNNRD District-Wide Hazard Mitigation Plan.
- Encourage cities and counties to initiate floodplain management planning to promote wise floodplain development.
- Assist dike and drainage districts within the LPNNRD to properly repair and maintain levy projects.
- Budget annually as needed to support the Lower Platte Weed Management group in controlling noxious weeds.
- Continue to support the Lower Platte River Corridor Alliance as an active voting member.



One of the Lower Platte North NRD's major responsibilities is to conserve and protect our ground and surface water resources. To accomplish this goal, the Lower Platte North continues to participate in water quality studies, ground water level monitoring, and water resource educational activities.

FY 2023 Ground & Surface Water Activities

Ground Water Management Area

LPNNRD implemented a District-wide Groundwater Management Area (GWMA) on January 1, 1997, to address both water quality and quantity concerns. This action was based on data gathered since 1985 indicating where groundwater quality conditions have deteriorated beyond those established as health standards, such as nitrate nitrogen. On that date, groundwater quality Phase I (education) regulations became effective for the entire District.

One primary rule in Phase I requires certification for fertilizer and water use. The District has developed a groundwater program emphasizing a protection-based approach rather than a reactive, corrective approach. Since that time, advanced Phase areas have been determined by trigger levels listed in the rules and regulations of the GWMA. The District has two Phase groundwater quality control areas, those being Bellwood and Richland/Schuyler. The Bellwood Phase 2 Area was established in 2003 and presently covers approximately 30 square miles in the western portion of the Platte Valley in Butler County and includes the town of Bellwood. In 2015 nitrate levels decreased to a point that the trigger levels were not being achieved, so this area was decreased to 20 square miles. The Richland/Schuyler Phase 2 Area was established in 2004. In 2015 this area was raised to Phase 3 because of the rising nitrate levels. This area covers approximately

55 square miles in the Platte Valley of Colfax County and includes the towns of Richland and Schuyler. In 2015, 10 additional sections north of the Richland/Schuyler Area became a Phase 2 area and in 2020 raised to Phase 3. Elevated nitrate-nitrogen levels continue to be the major concern in both Phase areas. Emphasis on awareness is a priority to the District with numerous grants being considered. A grant was received from the Water Sustainability Fund in November 2022. This grant will conduct a geological assessment to go with the AEM flights along with offering cost-share for best management practices in the Schuyler - Richland Phase Area. In July 2023 a WSF grant was approved to determine nitrate legacy from Richland to Fremont.

In June 2018, the District updated its Groundwater Rules and Regulations by adding a Phase Four under Water Quality and managing water by consumptive use or acre feet limitations. As of July 1, 2023, the District had 9424 registered active wells with 4606 irrigation wells and 212 wells in the GWEL network.

In Summer of 2012, the District saw mid-summer declines in the Bruno area and the uplands of Platte and Colfax Counties. These are now designated as the Butler-Saunders and Platte-Colfax Special Quantity Subareas. The District mandated water flow meters, rolling allocations and annual reports in these areas starting in 2016.

In 2012 seven NRD's agreed to develop a Lower Platte Basin plan, which is a cooperative agreement for the Basin Plan. This plan was approved in December of 2017 with each district assigned a depletion allotment within the Basin. The allotment is in 5-year increments starting in 2016 with a formula to determine the acre feet used for new water uses. The District completed its V-IMP in June of 2018 by adding an additional rule of requiring municipalities to report yearly water use, with an annual report

due to NeDNR. The Coalition contracted with the Flatwater Group to analyze the data that will be used in the next 5-year allotment. The group updated the plan for next 5-years in 2022 with new allotments until 2027.

In 2016 the Lower Platte River Consortium, made up of the Lower Platte South NRD, the Lower Platte North NRD, the Papio-Missouri River NRD, Lincoln Water System (LWS), Metropolitan Utilities District (MUD), and the Nebraska Department of Natural Resources (NeDNR), embarked on an effort to develop a drought contingency plan to maintain/mitigate sustainable water supplies to the Lower Platte River during drought conditions. The final report was finalized in the Spring of 2020. The group has discussed the projects to be considered for supplying water into the Platte River and will be making 5-year updates.

Current rules and regulations of the GWMA are available at the LPNNRD headquarters in Wahoo and via the district website at www.lpnrd.org.

Ground Water Quality Sampling

The Lower Platte North NRD continues efforts to develop a ground water quality inventory. The District has been divided into four primary aquifer regions: Todd Valley, Platte Valley, Shell Creek and the Uplands, and further divided into 26 subareas. Staff samples the same wells each summer, weather permitting, to determine long term trends for nitrate-nitrogen. This is referred to as the Statewide Network. The data collected is provided to the Nebraska Department of Environment and Energy (NDEE). NDEE in turn provides this to the Nebraska Legislature on an annual basis.

In 2022 samples were collected from 52 sites.

Year	Nitrate-Nitrogen Range	% Nitrate-nitrogen 0-8.0 ppm	% Nitrate nitrogen 8.01-10.0 ppm	% Nitrate nitrogen > 10 ppm
2022	0 - 18.7 ppm	69% (36 of 52)	15% (8 of 52)	15% (8 of 52)

Samples for pesticide analysis were collected from ten of these sites (19%). The pesticide analysis was for a suite of 25 parameters, and all results were less than reporting level.

Ground Water Energy Level Monitoring Network

One of the responsibilities of the NRDs in the State is to monitor fluctuations in groundwater levels. With the help of area cooperators, a ground water energy level monitoring network has been established in the LPNNRD. This monitoring network has been established to obtain a better understanding of the groundwater levels throughout the District. As of Spring 2023, the LPNNRD had 212 wells in the groundwater energy level monitoring network. These wells are monitored each spring and fall, with selected wells also measured in late August.

The LPNNRD compares the latest spring reading to the 1987 base-year to determine if a subarea needs to be declared a Level 2 or Level 3 groundwater management area. Level 2 and 3 management areas require flow meters on wells, annual reporting of water use, and establishment of acre-inch allocations. For the 26 sub-areas within the District, 24 subareas are currently at Level 1 management, while the other 2 sub-areas still need additional information before these can be designated. Sub-Areas along the Elkhorn and Platte Rivers are showing some of the wells reaching Level 2 and 3 management. The District prefers at least three years of data before the subarea can be designated as a Level 1, 2, or 3 management area.

Fall readings in 2022 and Spring of 2023 showed a decline from the previous year's measurement. This change was the continuing lack of moisture in the last 2 years. Spring readings in 2023 showed 92% of the wells measured had levels lower in Spring 2023 compared to Spring of 2022. There was a 3% rise in 6 wells from a year ago.

Chemigation

Chemigation is the act of injecting chemicals into the water line of an irrigation system that is then applied onto the crops. It is considered to be one of the most efficient ways of applying essential nutrients in times when the crop is uptaking the most amount of nitrogen through its growing stages. In order to chemigate, a licensed permit holder must obtain a permit through the Lower Platte North NRD. Special equipment must be installed to protect Nebraska's groundwater from possible back-flow of chemicals into the groundwater source. To obtain this permit administered by NDEE, you must pass the Chemigation Certification test taught through the University of Nebraska-Lincoln's certification program. There is an online test option available to producers. The chemigation equipment must be properly equipped, inspected and approved by the NRD before applying any chemicals. The number of chemigation permits continues to slowly rise throughout the district due to chemigation's efficient application rate when the crops are in the most need of nutrients. In sandier soil types, chemigation is extremely effective due to the soil's incapability to hold essential nutrients in the root zone after heavy rainfall events.

Chemigation Permits	Total	Renewal	New	Emergency
November 2022	733	676	56	1
August 2023	704	643	61	0

In 2014, the Legislature approved changes to Title 195 that would allow individual NRDs to set chemigation fees. Chemigation fees for LPNNRD are as follows: \$90 for a New permit, \$30 for a Renewal permit, and \$300 for an Emergency permit. Inspections are required on equipment for new permits. Renewal permits are inspected on a three-year rotation. Failure to renew by June 1st of the following year the permit was obtained will cause the permit to lapse. If a renewal

permit lapses, the producer must obtain a new permit and an inspection is required.

Decommissioned (Abandoned) Wells

Abandoned wells are a health and safety concern and have been ruled as illegal by the Nebraska Legislature. A well not used for three consecutive years or one which is no longer useful is considered to be abandoned and needs to be properly decommissioned.

The Lower Platte North NRD offers up to 75% cost share assistance to landowners to properly decommission abandoned water wells. In addition, the district will assist with up to 75% of the cost for pump and obstruction removal on domestic and stock wells. To receive cost share assistance, the actual decommissioning must be performed by a certified well driller or pump installer. The landowner has six months from the time of application to accomplish this task unless good cause is shown.

Since 1992 the district has administered local and state cost-share dollars to decommission 734 wells. Through this program in FY 22-23, a total of \$11,604.58 was administered by LPNNRD for the plugging of 10 wells. The district will administer approximately \$15,500 of state and local funds to plug additional wells during the current fiscal year.

Flow Meter Maintenance Program/Flow Meter Readings

Since 2008, the LPNNRD has implemented the requirement of installing a District approved flow meter on any new or replacement well. Thereafter in 2012, the District also required the installation of a flow meter on any expansion of acres from an existing well. This pumping information is invaluable to the District to know what has been pumped during years of extended drought. It is vital that the LPNNRD keeps track of this going forward into the future. In order to know the volume of water within our aquifer systems, we need to know the water that is being extracted.

In 2016, the district chose to contract with a

private company through the bidding process. The company was scheduled to maintain the flow meters within the LPNNRD’s SQS areas for the first four years. Since that was completed the District has chosen to open the flow meter maintenance program district wide in 2020. Maintenance on the flow meters will be performed once every four years. The district is in charge of the labor and site visit at each meter. Each mechanical meter site visit is \$60 and each battery operated site visit is \$75. This maintenance includes the regular greasing of the mechanical meters and changing the batteries on the digitally read meters. Along with the regular maintenance the private company also ensures that the meter is not damaged from water or vibration. There are approximately 1,150 irrigation well flow meters that are getting routine maintenance once every four years.

Along with the irrigation wells, the LPNNRD also records meter readings from all of the municipality wells within the District including MUD, Lincoln and Fremont. Livestock wells and commercial wells are required to report if the well was drilled after the 2012 requirement date. Over 1,200 readings are recorded annually throughout the LPNNRD District. This Fiscal year the LPNNRD budgeted \$24,000 for the meter maintenance program.

Registered Wells

The Nebraska Legislature declared that the conservation and the beneficial use of ground water are essential to the future well-being of the State. State Law requires that all water wells in the State of Nebraska be registered with the Department of Natural Resources. Wells that are not registered are illegal and should be registered as soon as possible. A breakdown by decade from 1970 to present shows the growth of active irrigation wells in the District.

Table of Active Irrigation Wells within LPNNRD compiled by Completion Date

Date	Number of Active Irrigation Wells in the District
December 31, 1970	1,428
December 31, 1980	2,756
December 31, 1990	3,241
December 31, 2000	3,686
December 31, 2010	4,307
December 31, 2020	4,554
July 1, 2023	4,606

Well Permits

In May of 2008, the LPNNRD placed a flow meter and water reporting condition on well permits for all permits issued after that date. All well permits require well owners to install a flow meter and report their water use for the calendar year to the LPNNRD by December 15 of each year. This reporting requirement is effective the year the well is drilled and for each year thereafter, until the well is decommissioned. From January 1 to July 1st, 2023, the District has issued 26 well permits with 8 new and 18 replacement irrigation wells.

Special Studies

The LPNNRD has done a number of studies within the District. The following is a list of studies that are currently being conducted within the District.

Aquifer Vulnerability Mapping and Analysis

The Lower Platte North has been working with UNL to collect and analyze data within the LPN Water Quality Management Areas. The first stage involved intensive water sampling of irrigation wells for nitrates. A few isotope nitrate samples were collected for the purpose of determining if the nitrates are from organic or inorganic sources. This was followed-up with vadose soil sampling analysis to assist in determining the amount of nitrates in soil and pore water present in the unsaturated zones above the water table. A nitrate tool was developed utilizing this data, along with

geological information to assist in determining vulnerability. This project was completed in 2021 with informational meetings in the area. The plan is to conduct some age dating of groundwater to help in nitrogen management.

3D Airborne Electromagnetic (AEM) Hydrogeologic Framework and Assessment

Papio-Missouri River NRD, NeDNR and LPNNRD started a study in January 2021 to assess AEM survey information, well logs, and other geological information. The data will be used to characterize different geological layers and assign variables such as hydraulic conductivity. This data will be used in groundwater modeling to better understand, assess, and forecast groundwater. This study was completed in January 2022. Starting August 2023 the process of taking this data along with LPSNRD assessment and completing a groundwater model for the Lower Platte River Basin.

Lower Platte River Consortium Study

Municipal wellfields in the Lower Platte River Basin depend on the Platte River to recharge groundwater for their use. This study looked at long term water supplies in the Lower Platte River Basin, and the ability to enhance streamflow, especially in drought conditions, to sustain these municipal water systems. Sustaining water in the river would also provide a benefit to wildlife and agriculture by lessening the likelihood of a 'call' on the river. Due to different hydrologic conditions in the Platte River, such as gaining and losing segments, siting of future reservoirs, groundwater storage projects, etc. becomes important in order to most effectively move water to a desired location downstream. The plan was completed in Spring 2020 with the group now in the process considering the options from the plan to determine the feasibility of the projects.

Eastern Nebraska Water Resources Assessment

LPNNRD is a partner in the Eastern Nebraska Water Resources Assessment (ENWRA). The ENWRA study has been utilizing Airborne

Electromagnetic (AEM) over eastern Nebraska to better model the geology of the glaciated portion of the State. It has opened several questions concerning bedrock aquifers both in water quantity and water quality such as salinity. New flights were conducted in the summer of 2018 with the final report received in summer 2019. A study is being conducted in the Platte-Colfax Area (SQS#2) utilizing the AEM, additional data loggers and other geologic logs to determine the relationship between confining and unconfined layers along with determining drawdown levels for management decisions. The flights and the results can be found on the ENWRA website at (www.enwra.org).

Elkhorn-Loup Model

The Elkhorn-Loup Model (ELM) project is a study of surface water and groundwater resources in the Elkhorn River basin upstream of Norfolk, Nebraska and the Loup River basin upstream of Columbus, Nebraska. Parts of this basin overlap and cover portions of upper Shell Creek.

Certifying Acres

In July 2009, the District signed a contract with gWorks (formerly GIS Workshop) to develop a database of county assessor records as the preliminary step to certifying irrigated acres. Using these records, LPNNRD staff mailed out letters to landowners to verify irrigated ground. As of January 2022, the majority of the irrigation in the district has been cataloged. The District is still granting new irrigation development. Those new acres are not entered into the certification database until they can be verified by aerial photography and accurately modeled. In March of 2021, the District went through all the approved new irrigation acres and modeled out all those that had yet to be counted. Acre certification provides an inventory of the irrigation needs of the District, which is an important part of present and future groundwater management and planning. In addition to cataloging irrigated acres, LPNNRD

staff have been actively working with the Nebraska Department of Natural Resources (NeDNR), as well as local landowners, to bring all irrigation wells in LPNNRD into compliance with Nebraska Revised Statute 46-602 (7).

Nebraska Ordnance Plant Water Pollution Clean Up at Mead

During the 1940s, 1950s and 1960s, an Army Ordnance Plant near Mead was used to assemble bombs and served as an early Atlas Missile ICBM site. Over time, the soil and groundwater at the plant site became polluted with various explosive residues and solvents. The cleanup has been divided into three basic project areas: Soils (OU1), Ground Water (OU2), and Building contamination (OU3). This area has been under study by the Army Corps of Engineers (COE) since 1988. An open house was held by the Corp, May 2023, with annual tours and open houses conducted regularly.

Wellhead Protection Program

The LPNNRD implemented a wellhead protection program in FY 2001. The goal of the program is to minimize potential polluting activities on the land surrounding a community's public water supply well(s). The District has identified 22 communities with public supply wells and they have been encouraged to become involved in the program. The Communities of Newman Grove and Platte Center have applied for Source Water Protection Grants to re-evaluate and approve their wellhead management areas. Both communities will do a nitrogen assessment for the area to assist in future well locations.

Rural Water Districts

In recent years, the District has worked with communities who have had difficulties with water quality and quantity by forming two rural water systems. The Butler County system linked the village of Bruno in 2006, who was having water quality and quantity problems, to David City. Also in 2006, the Saunders County system linked the village of Colon, who was

experiencing water quality concerns, to Wahoo. The LPNNRD operates both of these systems. The District purchases water from the larger communities and delivers it to the smaller communities; RW staff manage and maintain Colon's system and billing while Bruno manages their infrastructure and household billing. Both systems are designed to serve rural customers along each service route. Combined, the two systems serve over 135 households in Saunders and Butler Counties. To address fiscal concerns both RWDs have implemented a phased rate increase strategy to more diligently manage the financial standings of both districts. The District has been in contact with several other communities and anticipates several more communities and rural customers to be serviced by rural water systems in the future as rural communities face an increased burden at providing adequate quantity, and quality, water while maintaining aging infrastructure. Both systems are greater than 10 years old and repairs/replacements of meters is expected to take up RWD staff's time in 2023-24 as a number of meters and components are nearing the end of their expected service life.

Geographic Information System (GIS) and Global Positioning System (GPS)

LPNNRD has used Geographic Information System (GIS) technology since 1996. GIS is an automated system combining database information and maps. Features on a map, created with GIS technology, contain attribute or feature descriptions that are referenced by location. The data used by a GIS system consists of Vector and Raster Data. Vector data consists of point (wells), line (roads) and polygon data (irrigation boundaries or parcels); with Raster data consisting of pixels, where each pixel on the screen corresponds to a data point. Raster data includes aerial photography and elevation data such as LiDAR (a highly accurate elevation dataset). The District has incorporated the use of GIS into most district functions, including the certification of irrigated acres, maintenance, project planning, modeling of groundwater

availability, and the movement of contaminants such as nitrates through the soil profile.

In addition to in-house GIS activities, LPNNRD GIS staff assist a variety of partners, including projecting FSA aerial photography into Nebraska State Plane Feet coordinates for NeDNR, custom authoring of maps for the Nebraska Land Trust, coordination of helicopter flight lines for invasive species control with the Lower Platte Weed Management Area, and helping other NRDs with GIS questions as they emerge.

LPNNRD entered into an agreement with Phoenix Web Group to create a robust, relational database. GIS will be the backbone of this database and will allow LPNNRD to quickly, and efficiently, look up any information pertaining to any project or cost share that has been completed for any constituent with land in LPNNRD.

The Global Positioning System (GPS) relies on 31 NAVSTAR satellites, which provide world wide positioning and navigation information around the clock. Receivers acquire signals from satellites to determine precise locations on earth. The data obtained from taking GPS positions can be downloaded and mapped with GIS, making the two technologies complementary. LPNNRD partnered with NRCS on the purchase of a sub-centimeter GPS base station. This allows NRCS and NRD staff to quickly and efficiently perform a variety of tasks in the field with survey level precision.

As drone technology continues to evolve, LPNNRD has added a SkyDio2 Autonomous Drone to its inventory. LPNNRD Staff have completed FAA Part 107 certification, which ensures safe operation of drones for commercial purposes. This certification process involves an exam that covers airspace regulations, weather, and aviation safety.

FY 2024 Ground and Surface Water Objectives

- Continue to monitor changes in groundwater levels and quality in the district.
- Continue with LPNNRD Groundwater Management Area (GWMA) programs to help avoid the Lower Platte Basin being designated “fully appropriated.”
- Continue to implement Voluntary Integrated Water Management Plan (V-IMP) for the District and basin-wide plan. Utilize acre feet allotments assigned to the District for the benefit of the basin.
- As part of the GWMA, continue with LPNNRD certification classes, demonstration plots, generation of maps indicating problem areas, and evolving the development of a master database.
- Continue to cooperate with the United States Geological Survey (USGS) in monitoring groundwater levels at two sites.
- Continue to cooperate with the United States Geological Survey (USGS) in monitoring surface water levels at four sites and one site for contamination evaluation.
- Use the Subarea Delineation Study to identify ‘small pocket aquifers’ in the Swedeburg, Prague, Yutan, and Yutan South subareas. Review other aquifer subareas to determine if Stay Management Areas are justified in other portions of our District.
- Continue sampling of approximately 53 wells in our District that are part of the Nebraska State-wide Network.
- Continue to monitor the Phase Areas in Richland-Schuyler and Bellwood for nitrate and elevate these areas as needed.
- Continue implementing extensive sampling of soil and water in the Phase Areas for the purpose of identifying workable best management practices for curbing the rising nitrate trend.
- Implement best management practices within the Phase Areas for the purpose of decreasing nitrate levels.
- Administer \$19,000 of state and local cost-

share funds to decommission abandoned water wells, and provide 100% cost-share assistance within Wellhead Protection Areas to communities that are actively doing projects within its management area.

- Maintain a multi-agency groundwater energy level monitoring network in the Wann Basin of the Platte Valley north of Ashland to pool information from different agencies collecting water level data. This information is being used by the COE and MUD to refine their groundwater modeling efforts.
- Continue to implement the Chemigation Program to inspect safety equipment on permitted irrigation systems in the district.
- Continue with the District's Well Permitting Program and Variance Process throughout the District.
- Continue to review water use reports submitted to the LPNNRD as part of the well permitting process from new and replacement wells.
- Provide information and education on water conservation and safe disposal of farm and household chemicals.
- Continue to map registered and unregistered wells in the district using GPS.
- Promote and sponsor LPNNRD's Spring Conservation Sensation.
- Provide information on Integrated Pest Management in news releases and the "Viaduct" newsletter to encourage reduced use of pesticides.
- Support and promote urban water conservation and chemical disposal throughout the District.
- Assist in organizing the annual NRD Water Programs Conference held each year to update the NRD's on activity of State and Federal Agencies, new research, and Legislative issues.
- Continue to install flow meters on irrigation wells that are part of our Ground Water Energy Level (GWEL) Network.
- Expand the GWEL network to monitor aquifer sub-areas as designated in the 2009

Subarea Delineation Study. This will be done by incorporating additional high capacity wells and the drilling of new monitoring wells.

- Continue to monitor clean up efforts by the COE at the Former Ordnance Plant at Mead, Nebraska.
- Work with the COE to establish spacing requirements for future high capacity irrigation, industrial, and/or municipal wells that are requesting to be installed near known contaminant plumes from the Former Ordnance Plant near Mead, so these wells will not interfere with the COE's clean up efforts.
- Continue to monitor clean up efforts by the University of Nebraska at the Eastern Nebraska Research and Extension Center (ENREC) facilities east of Ithaca, Nebraska.
- Maintain transducers placed in District monitoring wells to record changes in groundwater energy levels and to continue the process of installing real-time remote reads.
- Implement Level 2 or Level 3 Management areas as warranted caused by declining groundwater energy levels in 50% or more of the monitoring wells reaching their trigger levels after three consecutive spring readings.
- Review livestock permits from NDEE.
- Investigate irrigation runoff and groundwater management area complaints as needed.
- Expand the NeRain program within our District.
- Continue to be a sponsor member of the Elkhorn-Loup Model (ELM).
- Continue groundwater studies with the University and NeDNR in the SQS areas. Study will focus on confined and unconfined aquifers and drawdowns within these areas.
- Communicate with well drillers and pump installers on water concerns within the District.
- Continue to assist the Eastern Nebraska Water Resources Assessment (ENWRA) with

the use of AEM (Airborne Electromagnetic) to study the eastern glaciated portions of Nebraska to provide a geologic framework map.

- Improve irrigation efficiency by working with UNL Extension on the Nebraska Agricultural Water Management Network (NAWMN) to install Watermark sensors and ET gauges with producers each year in our District.
- Continue with the process of updating Irrigated Acre Certification within the District.
- Continue working on projects identified within the Shell Creek Watershed Water Quality Plan.
- Update water quality objectives as identified in the Wahoo Creek Watershed and the Shell Creek Watershed Water Quality Plans.
- Continue to increase producer participation in online reporting for entering their data to improve efficiency and quality of data.
- Analyze the real-time water level measurement network in Special Quantity Areas for in-season management decisions for determining warning triggers.
- Start the groundwater modeling process jointly with PMRNRD, LPSNRD and NeDNR within the Lower Platte Basin for updating the Hydrological Connected Area (HCA) and assist in the well permitting process.
- To work with USGS and Lower Loup NRD on assessing legacy nitrate in Platte, Colfax and Dodge Counties, Nebraska by identifying wells to sample.
- To continue to work with UNL and NDEE on an interseeding cover crop project in the Shell and Wahoo Creek Watersheds.

FY 2025-2029 Long Range Ground and Surface Water Objectives

- Continue groundwater quality sampling throughout the LPNNRD, both the State-wide network and intensive sampling of selected regional aquifers.
- Continue water quality education programs based on the goals and objectives of the

LPNNRD Groundwater Management Area, which includes LPNNRD certification classes for landowners, municipal, and industrial water users.

- If needed, designate further Phase II, III, and IV boundaries for the Groundwater Quality Management Areas.
- Educate the need for check valves in protecting the aquifer from contamination.
- Continue with nitrogen application demonstrations and participate with demonstrations on integrated pest management and sustainable agriculture.
- Assist in the proper decommissioning of water wells in the district.
- Continue to use GPS to map registered and unregistered wells within the district.
- If necessary, designate Level II and III boundaries within the district to manage declining groundwater levels.
- If necessary, designate new Special Quantity Subareas (SQS) within the district to manage mid summer declines of groundwater energy levels in aquifers that operate under large pressure swings.
- Continue measurement of ground water energy levels in the district.
- Develop a groundwater model to assist in management for each sub-area. Additional information on water use from all wells will be needed for accurate information.
- Continued partnership with the Eastern Nebraska Water Resources Assessment (ENWRA) and apply information to the glaciated portions of our District.
- Initiate additional studies to identify vulnerable aquifers and modify GWMA rules and regulations to protect these aquifers and their long term sustainability. Continue geophysical work, installation of monitoring wells and test holes to better define these vulnerable sub-areas. Additional AEM flights with ¼ to ⅓ mile spacing would gratefully assist in defining such areas. Eventually cover the entire District with these detailed AEM investigations.
- Continue using AEM (airborne electromagnetic) information to analyze

bedrock aquifers both in water quantity and water quality. Test holes and monitoring wells will have to be installed and sampled to determine these as a possible source of usable groundwater. New management strategies need to be developed for these aquifers such as summer trigger levels for confined bedrock aquifers, especially if these are hydrologically isolated from overlying alluvial aquifers. This could develop into three dimensional management where aquifers at different depths are treated by a separate set of rules for each one. This could become very complex but will likely be the only way to sustain the use of these aquifers far into the future.

- Install precipitation gauges near monitoring wells in important sub-areas.
- Utilize the completed Lower Platte River Consortium Study for possible locations for recharge and reservoir sites to better convey water downstream to municipal wellfields.
- Complete water quality objectives as identified in the Watershed Quality Plans.
- Continue to update the Groundwater Management Plan to include Integrated Management of surface and ground water. It may be necessary to install additional surface water gauging sites coupled with nearby groundwater monitoring wells as tools for integrated water management.
- Expand the GWEL network to have continuous recording monitoring wells in each sub-area to better manage the resource with the ability for remote real-time readings. This is especially important in confined aquifers.
- Continue to update the certification of irrigated acres.
- Continue to assist District communities who have difficulties with water quality and quantity by helping determine rural water system feasibility.
- Keep the Saunders County Rural Water System study as an alternative in the event of changing federal regulations governing municipal water supplies.

- Keep abreast of updates and new iterations of the Elkhorn-Loup Model (ELM) to determine which areas in the Shell Creek watershed are in hydrologic connection with the Elkhorn or Loup River basins.

In summary, the LPNNRD needs to focus on five areas in the next five years:

1. Using information from the AEM flights and test holes, establish a monitoring well network in these confined aquifers to record continuous ground water energy levels. It is midsummer declines (late July to mid-August) when large drops in aquifer pressure can cause some wells to run low on water. Map locations of potential recharge sites. More flights, test holes and/or monitoring wells might be necessary in areas to provide the necessary information.

2. Establish ground water management rules to better address confined aquifers. This could involve comparing spring to summer ground water energy levels and comparing this to the potentiometric aquifer thickness and the depth of bedrock. The current management rules for unconfined aquifers should be adequate for future conditions. These controls are based on three consecutive spring readings at or below their trigger levels in at least 50% of the GWEL wells in a given subarea.

3. AEM flights have given a new interest in bedrock aquifers such as the Dakota formation. Monitoring wells in selected areas are needed to determine the water quality and quantity of these bedrock aquifers. Also are these bedrock aquifers in hydrologic connection to any overlying aquifers? If this is the case and new high capacity wells are being established in these bedrock aquifers then management should shift focus to the more vulnerable aquifer to sustain long term viability of both aquifers. If these bedrock aquifers are isolated from the overlying aquifer then "three dimensional management" where wells are managed differently due to

their depth may be in order. This could get complex but management needs to take the chemical and physical characteristics of the aquifer in account. For example, what is the salinity of the groundwater and is the bedrock aquifer cemented, unconsolidated, sandstone, limestone, or shale.

4. Horizontal wells. In the immediate future horizontal high capacity irrigation water wells will likely be established in thin aquifers to increase well output or yield. On the plus side, these could replace several vertical wells that are used in series and therefore be a cost savings to the well owner. On the negative side these could quickly dry up thin aquifers less than 20 feet in thickness and affect nearby wells. How do you manage such a system? At the least you could require 600 feet spacing from any point of the lateral to a neighbor's well but again this may not provide much protection in thin aquifers such as the area immediately west of Fremont. Other management options would be to restrict the number of acres irrigated, restrict the length and direction of the laterals, restrict well output such as limit the gallons per minute, establish water allocation, install monitoring wells such as near the end of the laterals to track groundwater levels, etc.

5. Integrated Water Management. Siting of potential recharge sites, storage reservoirs (both surface and groundwater), and potential water reuse projects to enhance the water supply in the District. Additional monitoring wells, streamflow gauging, and precipitation sites will likely be necessary. Effects of climate change will also need to be considered as part of integrated water management.



In response to the Erosion and Sediment Control Act (LB 474), passed in 1986, the Natural Resources Commission developed the Nebraska Soil and Water Conservation Strategy. This strategy outlines a course of action for efficiently conserving and managing the state's natural resources.

The Lower Platte North NRD administers the Erosion and Sediment Act and has patterned its local program after the state strategy. The district administers state and local cost-share funds through Soil and Water Conservation Programs (SWCP) to offer incentives to producers for installation of land treatment practices. LPNNRD staff also worked with NRCS staff to utilize Farm Bill Programs to repair erosion problems.

FY 2023 Soil Conservation Activities

Soil and Water Conservation Programs (SWCP)

Under Soil and Water Conservation Programs (SWCP), the LPNNRD allocated \$83,029.99 of state funds (Dept. Natural Resources) for land treatment practices during fiscal year 2023 in cooperation with 12 different landowner projects. In addition, 3 Buffer Strip contracts were administered with \$12,258 in state funds.

For fiscal year 2024, \$92,179.61 of state funds (from the Nebraska Department of Natural Resources) and \$25,000 of local funds will be allocated for soil and water conservation practices through the LPNNRD Lands for Conservation Program (LFC). The LFC program offers landowners a per/acre payment to set aside production ground to allow for summer construction. This lessens the burden on the fall construction season allowing more conservation work to be implemented.

Wahoo Creek Water Quality Land Treatment Efforts

Wahoo Creek in Saunders County, Nebraska, has resided on the Environmental Protection Agency's (EPA) list of impaired water bodies for decades. To address the impaired status of Wahoo Creek, LPNNRD in partnership with the U.S. Environmental Protection Agency (EPA) and the Nebraska Department of Environment and Energy (NDEE) developed the Wahoo Creek Watershed Water Quality Management Plan in 2013. These plans are updated every 5 years and the District is in the process of completing another update. This plan identifies goals to reduce excess phosphorus, nitrogen, soil sediments, and E. coli bacteria in the Wahoo Creek Watershed. This plan meets the EPA's requirement of containing "Nine Elements" of an effective watershed management plan. The plan identifies water quality goals to protect and enhance the quality of all water resources within the Wahoo Creek. Sub-watersheds within the Wahoo Creek Watershed were prioritized for future water quality projects. LPNNRD in partnership with EPA, NDEE, and the Natural Resource Conservation Service (NRCS) identified four Wahoo Creek sub-watersheds as National Water Quality Initiative (NWQI) areas to receive special EQIP and EPA 319 funding for landowners to complete conservation practices to help achieve the numerous identified water quality goals.

Shell Creek Watershed EPA Section 319 Water Quality Improvement Efforts

Shell Creek is a major tributary of the Lower Platte River. Land use in the approximately 305,000 acre watershed is predominantly row crop agriculture. Portions of Shell Creek are on the Environmental Protection Agency's (EPA) impaired waters list. The most notable impairments include E. coli (bacteria) and Atrazine.

The Shell Creek Watershed Improvement

Group (SCWIG) is a volunteer committee that formed in 1999 to lead local efforts to identify problems and to promote implementation of conservation practices to improve water quality in Shell Creek. This evolved into an advisory group to LPNNRD continuing to provide local leadership toward reducing erosion and water quality impairments in the watershed. A community-based planning approach was used to gather input from the citizens of the watershed for development of the Shell Creek Watershed Environmental Enhancement Plan that emphasizes combinations of practices that improve water quality.

Over the past 23 years, the Shell Creek Watershed has benefited with over \$2 million in EPA Section 319 funds combined with approximately \$4 million in partnering federal and local funds for assisting landowners in establishing Best Management Practices on their farms. These efforts resulted in Shell Creek becoming the first agricultural watershed in the nation to have a segment delisted for atrazine contamination in FY 2018.

In FY 2023, the NRD secured \$779,000 in grants from EPA/NDEE Section 319 and the Nebraska Environmental Trust (NET). These grant dollars matched with local funds are expected to yield over \$1.4 million of water quality work in the watershed over the next three years.

Erosion and Sediment Complaints

The LPNNRD responds to occasional erosion and sediment complaints. In most cases, these complaints are resolved before going through the formal complaint process. Many cases are drainage issues that are resolved between the District and landowners. During FY2022 NRD staff was subpoenaed on a case between two neighbors that could not be resolved amicably. The case has yet to be resolved as both parties continue to work together. During FY2023 LPNNRD was contacted by a landowner concerned about the placement of a tile outlet near his fence/property line. The work being completed on the neighbor's property was not

being done with NRD, or NRCS, approval. The NRD reached out to the neighbor's and through multiple conversations was able to come to an agreement that satisfied both parties.

FY 2024 Soil Conservation Objectives

- Use technical assistance from the NRCS in the planning, design, construction, and maintenance of conservation measures applied to the land.
- Use Federal, state, and local funds to promote and implement land and water treatment projects in priority areas of Wahoo Creek Watershed to reduce erosion and improve water quality. The NRD plans to coordinate with local NRCS through the National Water Quality Initiative (NWQI), NDEE's 319 program, and local funding efforts to achieve the goal.
- Continue encouraging the implementation of summer conservation construction utilizing federal funding within the Wahoo Creek Watershed through the Lands for Conservation program; for FY24 the NRD has approved \$19,600 for the set aside of 85 acres.
- Administer \$92,179.61 of State NSWCP funds and \$25,000 of local cost-share and grant funds to landowners for the construction of terraces, tile outlets, waterways, diversions, small dams, planting of permanent vegetation, and maintaining water quality.
- Continue to promote conservation tillage measures, pasture & range management, sustainable agriculture, and the Conservation Reserve Program (CRP), through news releases and the district's newsletter.
- Recognize the Outstanding Soil and Water Conservationists.
- Continue to assist landowners in resolving soil erosion and sediment complaints.
- Provide financial support and staff time to conservation education activities.

- Continue to work closely with locally-led conservation groups to promote soil and water conservation throughout the district.
- Partner with the Shell Creek Watershed Improvement Group (SCWIG), EPA/NDEE, NET, and NRCS toward continuing implementation of Best Management Practices in the Shell Creek Environmental Enhancement Plan Implementation.
- Work with NRCS, NDEE, NET, Saunders County, and the Wahoo Creek locally led Steering Committee in pursuing additional federal and state funds to assist with land treatment practices as defined in water quality objectives in the Wahoo Creek Watershed Water Quality Plan.
- Assist with the formation of local landowner advisory steering committees in the Wahoo and Bone/Skull Creek Watersheds for planning soil & water conservation practices and flood reduction.
- Use existing and new technology and GIS software programs for implementing and promoting soil conservation practices.
- Promote the use of and make available soil surveys and land use information.
- Continue to support Locally Led Landowner Groups to promote and implement soil and water conservation practices.

FY 2025-2029 Soil Conservation Long Range Objectives

- FY 2024-2028 Soil Conservation Long Range Objectives (Sean, Ryan) DONE
- Maintain existing land treatment practices and programs.
- Continue to work with all counties in the district to reduce roadside erosion.
- Administer NET and NDEE/EPA 319 Grant Programs to improve water quality throughout Wahoo Creek, Shell Creek, and the Lower Platte River Corridor Alliance priority watersheds.
- Look for new and innovative soil and water conservation methods.
- Partner with NRCS, UNL Extension, and landowners to improve all aspects of their water and soil quality.
- Continue to support the Land and Range Judging Contests.
- Continue targeting SWCP land treatment program funds for priority watersheds in the District.



FLOOD CONTROL & DAMAGE REDUCTION ACTIVITIES

Projects have been completed in priority areas in the LPNNRD to help reduce flooding and provide grade stabilization. Projects have been completed in Bellwood, Clear Creek, Cottonwood Creek, Sand and Duck Creek, Swedeburg, and Rawhide Creek watersheds. Current high priority flood reduction areas include Bone Creek, Shell Creek,, Skull Creek, and Wahoo Creek watersheds. On federal and state projects where the LPNNRD acts as project sponsor, the district obtains land rights and is also responsible for operation and maintenance activities on these projects after they are built.

The LPNNRD offers local assistance for the construction of small dams that can help counties and/or landowners protect county roads, control erosion, and provide water for livestock and wildlife.

FY 2023 Flood Control and Damage Reduction Activities

Wahoo Creek Flood Reduction Efforts

The NRD is currently in the process of building ten flood reduction dams in Wahoo Creek watershed, estimated to cost \$19.7 million in 2020. Federal (WFPO) and state funds (JEDI) are expected to fund the entire project including planning, design, permitting, land rights, construction, and construction oversight. Construction will begin in FY2024 on three sites: 26a, 26b, and 27. Construction is expected to begin in FY2025 on the remaining seven sites: 55, 66, 77, 82, 84, 86, and 86. Completion of all ten dam sites is anticipated by the end of FY28.

Sand Creek Environmental Restoration Project (Lake Wanahoo)

With the invaluable assistance of numerous local, state, and federal partners, 2011

witnessed the completion of construction on Lake Wanahoo's earth embankment. The breakwater feature and the fisheries component were completed a few years prior to the embankment. Recreation components were completed for Lake Wanahoo in FY2011. Construction of seven upstream flood reduction/environmental enhancement structures were completed in FY12-14. In FY19, LPNNRD assumed Lake Wanahoo's recreation management responsibilities from the Nebraska Game and Parks Commission.

Operation and Maintenance

District staff completed inspections on 45 watershed structures and special projects in the NRD in FY 23. These inspections help detect problems before they become serious. Also during the 2023 fiscal year, noxious weeds and volunteer trees were sprayed on 45 dams, Clear Creek Levee, and the Rawhide Ditch System. Annual maintenance activities such as removing debris, repairing fences and unplugging risers were completed at many of the dam locations. The District is currently working with NRCS and a Engineer Consultant in the rehabilitation of dam Cottonwood 21-A.

Army Corps of Engineers 205 Flood Studies

Over the past many years, the District has partnered with local entities and the US Army Corps of Engineers to study flood protection alternatives for their areas. In 2004, LPNNRD partnered with Fremont, Inglewood, and Dodge County to look at a potential levee project to remove areas from the Platte River 100-year ice induced floodplain. In FY 2017, the Fremont study evolved into a General Investigation (GI) Study which determined that there is not a feasible structural solution (levee) to the City of Fremont's flood threat from the Platte River. In 2018 the GI Study evolved back to a 205

Non-Structural Study for the City of Fremont and Dodge County. This effort will continue in FY 2024.

In 2005, LPNNRD entered into an interlocal agreement with the City of Schuyler to evaluate levee protection options to protect the city from flooding from the Platte River and Shell Creek. In FY 2012, the Schuyler 205 Study was completed and entered into the project design phase. In FY 2014 the design phase was completed and LPNNRD assisted Schuyler with obtaining needed land rights for the Shell Creek Levee portion of the project which began construction activities in the spring of 2014 and most construction activities were completed in the fall of 2015. LPNNRD continued to assist Schuyler in FY 2018 with closing out the project with the Army Corps of Engineers. Schuyler continues to do a great job in maintaining the levee.

FY 2024 Flood Control and Damage Reduction Objectives

- Continue with accelerated land treatment efforts in identified priority watersheds in the District.
- Complete annual and/or biennial inspections on 45 watershed structures; spray noxious weeds & cut and treat trees on 45 dams, Clear Creek Levee, and Rawhide ditch; complete regular maintenance activities at all sites.
- Continue to be an active partner on the Joint Water Management Advisory Board to explore flood reduction and drainage solutions in portions of Dodge County within LPNNRD.
- Partner with the City of Fremont, Dodge County, and Papio-Missouri River NRD to fund operation and maintenance of established USGS cameras and water gauges at five locations along the Lower Platte River.
- Partner with Dodge County and City of Fremont on FEMA Drainage

Improvement Project.

- Continue to educate the public on watershed management and flood reduction in LPNNRD newsletters, news releases, and our website.
- Cooperate with landowners and counties in evaluating small dam sites for cost-share throughout the district.
- Continue to partner with the Army Corps of Engineers, FEMA, City of Fremont, Englewood, and Dodge County on exploring non-structural opportunities for feasible flood control solutions.
- Support the City of Schuyler for exploring non-structural opportunities for feasible flood control solutions from the Platte River through the LPNNRD District-wide Hazard Mitigation Plan.
- Work with Communities, Counties, and other entities on projects identified in our District-wide All Hazard Mitigation Plan.
- Complete easement acquisition for all ten Wahoo Creek Watershed flood reduction dam sites.
- Complete engineering designs on Wahoo Creek Dam Sites 55, 66, 77, 82, 84, 85, 86.
- Begin construction on Wahoo Creek Dam Sites 26a, 26b, and 27.
- Begin the process of updating LPNNRD's district-wide All Hazard Mitigation Plan.
- Work with Dodge County, City of Fremont, and other JWMAB members toward the completion of the Rawhide Watershed WFPO Planning efforts.
- Partner with NRCS through the Dam Rehabilitation program to rehabilitate dam Cottonwood 21-A.

FY 2025-2029 Flood Control and Damage Reduction Long Range Objectives

- Continue to commit funds and staff time toward completing flood water control/reduction structures in the Wahoo Creek Watershed.

- Continue to budget staff time and funds to maintain and operate completed flood control structures that are sponsored by the LPNNRD.
- Develop a long term plan for Operation and Maintenance costs associated with large structures.
- Continue to explore flood reduction opportunities for Bone Creek, Shell Creek, and Skull Creek Watersheds.
- Continue to encourage cities and counties in the district to accept and implement Floodplain Management Authorities.
- Assist Fremont, Inglewood, and Dodge County with non-structural flood protection projects as identified by the Army Corps of Engineers study and the Hazard Mitigation Plan Flood Resiliency study.
- Assist Schuyler with non-structural Platte River flood protection project opportunities as they become available.
- Assist District Communities in evaluating future flood protection for their communities through updating the District's Hazard Mitigation Plan and assisting with identified projects.
- Construct ten approved Wahoo Creek flood water reduction dams by the end of 2028.
- Continue to work with JWMAB members on the numerous projects identified as flood reduction/drainage improvement projects.
- Partner with NRCS in the Dam Rehabilitation Program on dam Cottonwood 21-A.



The district administers several programs designed to enhance the region’s forest, range, and wildlife land, including the Tree Planting Program, Wildlife Habitat Programs with Nebraska Game & Parks and Pheasants Forever, SWCP Program, and Mitigation Program. The district also sponsors educational activities such as Range Judging and Land Judging contests, and other school-oriented activities.

FY 2023 Forestry, Range, and Wildlife Habitat Activities

Tree Program

One of the most visible and popular programs offered by the LPNNRD is the district’s tree planting program. As a direct result of this program, begun in 1973, an estimated 873,225 trees and shrubs have been planted in the district. Trees and shrubs may be obtained from the NRD for windbreaks, shelterbelts, wildlife habitat, woodlots, and Christmas tree plantings. Besides providing a planting service, the NRD also designs tree planting plans and offers technical advice on ground preparation for tree sites.

During the spring of 2023, 10,475 trees and shrubs were distributed to District residents. Of this total, 3,606 were planted by the NRD field crew at 12 sites.

Wildlife Program

Lower Platte North continues to encourage landowners to set aside land for wildlife habitat by using Federal Programs and Programs provided by Nebraska Game & Parks and Pheasant Forever. These programs include Corners For Wildlife and Wild Nebraska.

Community Forestry Program

In FY 2022-2023 LPNNRD donated 900 seedlings for schools in Fremont and Newman

Grove; provided trees to the District’s annual Spring Conservation Sensation; and provided trees for the Fremont EcoFair. The District budgets \$2,000 for Community tree development projects. The District did not assist a Community during the fiscal year.

FY 2024 Forestry, Range, and Wildlife Habitat Objectives

- Plant and distribute conservation trees and shrubs through the district’s Tree Planting Program.
- Continue to include tree planting as an eligible cost-share practice under the
- SWCP program.
- Offer trees and give staff presentations to elementary students across the district.
- Assist cooperators with signing up for Wildlife Programs.
- Cooperate with the Extension Service and the NRCS in obtaining tree orders from District residents.
- Provide cost-sharing for the conversion of cropland to grassland through the SWCP program.
- Cooperate with Pheasant Forever Chapters to enhance wildlife habitat and establish windbreaks.

FY 2025-2029 Forestry, Range, and Wildlife Habitat Long Range Objectives

- Increase tree and shrub sales and planting each year through the district’s Tree Planting Program for qualified property owners.
- Provide information and education on tree planting, woodland management, grassland management, and proper wildlife habitat enhancement through media, tours, and schools.

- Continue to administer Wildlife Habitat programs in cooperation with the Nebraska Game and Parks Commission and other partnering entities as opportunities arise.



FY 2023 Recreation Activities

Czechland Lake Recreation Area

Czechland Lake Recreation Area is a multipurpose project located one mile north of Prague, Nebraska on Highway 79. Flood control, recreation, and education are the main benefits of the project. Located at a convenient distance from Omaha, Lincoln, Fremont, and Wahoo, the 85 surface acre lake is situated on 265 acres of public access land operated and maintained by the LPNNRD.

State park permits and fees are not required for entrance to the area. Czechland Lake has 11 electrical camper pads at an \$18/night fee for the use of a camping pad. There are also three non-electrical pads. A Nebraska Fishing License is required for anglers. The lake fishery is managed by the Nebraska Game and Parks Commission, which stocks and monitors fish populations. Catfish, Bluegill, Northern Pike, and Largemouth Bass were initially stocked in Czechland Lake.

Originally built as one of twelve floodwater structures in the Cottonwood Creek Watershed, Czechland Lake has developed into one of the area's most popular recreation spots. The reservoir and recreation area development was built at a total cost of \$1.8 million. Funding for the project was shared by the Nebraska Natural Resources Commission, Saunders County, USDA Natural Resources Conservation Service, and LPNNRD. Grant monies from the U.S. Environmental Protection Agency have been used to reduce non-point source pollution entering the lake and to provide educational resources.

The Czechland recreation area was used extensively during FY 2023 generating approximately \$10,000 in camping revenue. Mowing, trash removal, repair, and upkeep of park equipment, and thistle control kept LPNNRD park staff very busy during the spring and summer.

Homestead Lake (Skull Creek Site #55)

Construction was completed on Homestead Lake in 2001. The dam offers flood control for nearby communities, and has been developed for public recreation. Recreation facilities include a shelter, restroom, picnic areas, a boat ramp, and hunting areas. FY 2023 proved to be another very popular year for recreationists as the area was extensively used.

Lake Wanahoo

Work was completed on recreation facilities at Lake Wanahoo one mile north of Wahoo in FY 2012. Recreation facilities at the 1,600 acre site straddle the 662-acre lake, with camping and boating access on the west side and a day use area on the east. A rocky hiking/biking trail winds throughout the park, linking the east and west side recreation areas over a breakwater levee one mile north of the dam. Mowed trails north of the levee provide access to undeveloped areas set aside for wildlife habitat.

The camping area contains 75 camper pads, 54 tent camping sites, and 6 primitive cabins. All camper pads are equipped with electrical hookups and are rock surfaced. All sites have fire rings and picnic tables.

The recreation area offers access to two large boat ramps wide enough to accommodate four boats at a time. Boating on the entire lake is no-wake only.

The day use area on the east side of the lake has two large picnic shelters and two smaller ones, all offering scenic views of the lake. In FY 2017 a dump station for RV's was constructed on the east day use area as well as a disc golf course/nature educational trail.

Both the camping and day use areas provide excellent fishing access, with a total of seven fishing jetties. One jetty on each side has an attached handicapped pier. The lake was stocked with largemouth bass, bluegill, blue

catfish, crappie, northern pike, and walleye beginning in 2008.

Limited hunting opportunities will continue to be available at Lake Wanahoo through the Game & Parks Commission PATH Program, where adults can schedule a time to mentor a youth hunter at designated hunting sites north of the recreation area.

The Lake Wanahoo Recreation Area was opened to the public in spring 2012. An operation and maintenance plan was developed with the assistance of the Nebraska Game and Parks Commission and Pheasants Forever in FY 2014 which identified activities that were implemented in 2015.

In FY 2019, LPNNRD assumed the responsibilities of administering Lake Wanahoo as a public recreation area from the Nebraska Games & Park Commission.

In FY 2020, the Clint Johannes Education Building was completed on the day use portion of the recreation area. This facility provides a protected outdoor education space for LPNNRD education activities, as well as a public rental facility for the public. Also in FY 2020, six new primitive cabins were installed in the primitive camping portion of the park to give visitors a unique alternative to tent camping.

FY 2025-2029 Recreation Long Range Objectives

- Continue to evaluate the development of new outdoor public recreational opportunities as they arise.
- Continue to assist NE Game & Parks and Pheasant Forever in developing new areas offering public access.
- Install a new fish cleaning station on the West side of Lake Wanahoo.

FY 2024 Recreation Objectives

- Continue to budget funds for maintenance, including grass mowing, tree trimming, grading roads, outhouse cleaning, trash removal, painting, and noxious weed control, at Lake Wanahoo, Czechland Lake, and Homestead Lake Recreation Areas.
- LPNNRD will continue managing all recreation at the Lake Wanahoo recreation area.
- Design and installation of 10-14 slip marina on west side of the lake. Marina will enable campers with boats the opportunity to keep their boats on the water during their stay.



It is the general policy of the LPNNRD not to provide financial assistance for drainage improvement and channel rectification unless a project has public benefit and is sponsored by a county, city, Drainage District, or a group of landowners through an established Improvement Project Area. Under this policy, the district has cooperated on several projects that have provided public benefit.

FY 2024 Drainage Improvement & Channel Rectification Objectives

- Worked with Colfax County to complete new Shell Creek South Channel Improvement/Benching Projects.
- Partnered with Dodge County and Fremont to support drainage improvements east of Fremont through FEMA.
- Partnered with the North Bend Drainage District, Dodge County, and City of Fremont to support the drainage improvement project for the North Bend drainage ditch through FEMA.
- Continue to oversee the Rawhide Creek West Branch Project to ensure that landowners properly control vegetation.
- Continue providing assistance to Platte Center with stabilizing segments of Elm Creek.

FY 2025-2029 Drainage Improvement & Channel Rectification Long Range Objectives

- Evaluate potential technical and funding assistance to counties, cities, and other entities in the district that sponsor sound drainage and channel improvement projects.



Over 30 years ago, vast changes occurred in Nebraska's solid waste regulations. Landfills that weren't properly designed, operated, or sited were required to shut down, as were unauthorized dumps. In order for a landfill to operate, it must be approved by the State and receive a permit. If a permit is not issued, the landfill cannot legally operate. Currently, the only permitted landfill in the Lower Platte North NRD is a facility near David City.

FY 2024 Waste Disposal & Pollution Objectives

- Promote recycling efforts in the district through education programs, newsletters, and news releases.
- Participate in education efforts to promote the reduction of pollution to our air, water, and soil resources.
- Cooperate and be supportive of other group and agency pollution control efforts, education, and/or regulation.

FY 2025-2029 Waste Disposal & Pollution Long Range Objectives

- Assist and encourage all District communities in establishing collection locations for recyclable wastes.
- Assist District cities and counties in establishing pickup days for hazardous household and farmstead wastes as opportunities arise.
- Promote waste reduction efforts in the district through education and incentives.



A major responsibility of the Lower Platte North NRD is to keep the public aware of the district's various projects and programs, and to inform and educate children and adults about the wise use and management of our natural resources.

FY 2023 Information & Education Activities

During fiscal year 2023, the Lower Platte North NRD conducted many activities to help residents learn the importance of our soil and water resources and to stay informed of issues and concerns regarding natural resources. Some of the highlights included the following.

Publications and Marketing

The NRD distributes two newsletters each fiscal year. The Winter issue of "The Viaduct" newsletter includes an additional page that contains the Annual Report. In FY 2012, the district switched distribution of "The Viaduct" newsletter from direct mail subscriptions to inserts in area newspapers. In FY 2023, more than 20,000 copies of each newsletter were distributed in eight newspapers and via email. Copies of the newsletter are also available on the website at www.lpnrd.org/downloads.

Various brochures describing LPNNRD programs and services were updated as needed in FY 2023. These brochures are displayed in the office and distributed during LPNNRD sponsored events and exhibit booths.

Press releases are distributed to district newspapers, email lists and radio stations. Numerous ads spotlighting different NRD programs and upcoming deadlines air on KTIC Radio throughout the year. Digital ads on the Wahoo newspaper website continued in FY 2023. In FY 2020, the LPNNRD began airing 30-second program commercials on News Channel Nebraska covering the various

departments of the LPNNRD. In FY2023, a recreation video featuring Czechland Lake, Homestead Lake, and Lake Wanahoo was produced and aired on News Channel Nebraska.

The NRD continues to maintain information and education outreach for the district through the use of social media outlets on Facebook, Twitter, and YouTube. These outlets are maintained weekly and provide information along with photos and videos about the district's ongoing activities and events.

Website

The NRD's website at www.lpnrd.org contains information on nearly all of the district's projects and programs, along with staff information, board of directors information, as well as committee and board meeting minutes, and district publications. Online applications and registration forms for various projects and programs are also available. Additionally, online payment capabilities continue to allow customers to pay for trees, rural water bills, and Lake Wanahoo permits. The website continues to be updated frequently.

Video Promotion

Beginning in FY 2018, 60-second, and 30-second videos were created to promote the conservation efforts of departments of the NRD. Past directors, current directors, and current staff have been featured in the videos. Promotional videos have been created for the Water Department, Operations & Maintenance department, Projects department, Information and Education department, and the three LPNNRD recreation areas (Czechland Lake, Homestead Lake, and Lake Wanahoo). Clips from all of the videos are combined to create one video that features portions of each department at the LPNNRD. These videos are shown as educational purposes for presentations, on the LPNNRD website,

commercials through area television stations, and featured on social media platforms.

Education Programs

During FY 2023, the district continued with two year-long programs. The St. Wenceslaus Pre-kindergarten students learn about wildlife, trees, birds, soil and water conservation through books, pictures, stories, and hands-on activities. The students visited Lake Wanahoo at the end of the year for a field trip filled with nature hikes, nature crafts, and disc golf. The district teamed up with Wahoo Public middle school students for the Survival Club program, making a total of three school years of the program. LPNNRD staff and other outdoor enthusiasts met monthly with students during the school year to learn about hiking, knot tying, 2-legged predators, 4-legged predators, fishing, first aid, foraging for wild foods, fire building and other outdoor survival skills. Opening up the program to the whole middle school had student attendance consistent with almost 30 students for the campfire building exercise and an average of 10 students per month. The end of the year camp out at Lake Wanahoo will be a priority in FY 2024. Trinity Lutheran Middle School met with Staff at Lake Wanahoo for a half day event, where we worked through survival club activities such as knot tying, 2 and 4 legged predators, everyday carry kits, foraging for wild foods, campfire building, and campfire cooking.

The district continues to participate in the Career Exploration Opportunities (CEO) Program with Wahoo Public Schools. During the fall semester of 2023, LPNNRD staff hosted one high school senior and he rotated between each department to learn about the LPNNRD responsibilities. The district will host another student during the fall of FY 2024. This student will be with staff every day from 1:30-3:30 but will drop down to three days a week starting in November.

The Clint Johannes Education Building is utilized for events of all kinds. Local teachers and other organizations will use it for their

students and staff as a meeting space with a great view and amenities. The LPNNRD utilizes the building for educational events each month. The event, Coffee Lakeside, has impacted close to 100 people, who meet in the building once a month. Topics included wildflowers, fireflies, animal adaptations, fall activities, phenology, nature based play, lake ecosystems, water flower identification, fungi, and more. All other NRD related events are also hosted in the building or another location at Lake Wanahoo.

Seven new events were held at the LPNNRD with a total of 10 held throughout the fiscal year. Wildflowers and Wine and All About Bees were two repeating events that continue to draw in large crowds. These events center around pollinators, their habitat, and how we can continue to provide natural places on both small and large scales to aid in the conservation of these species. The new events offered were: Trivia and Game Nights; Back to School Night; 1st Annual Fall Festival; Native American Heritage Day; Natural Resources Camp; Community Fishing Event; and Nocturnal Nights. These events drew in participants of all ages with some returning and some new individuals. Staff also participated in the county-wide, Kid's Summer Institute, that ran all of June. Students participated in dip netting for macroinvertebrates; birding; disc golf; nature journaling; and wild about wildflowers. These classes were held at Lake Wanahoo. Staff met with North Bend Public Library and Yutan Public Library for story time hours where owl pellets were dissected and birds were studied. Some of the FY 2023 events were made possible by partnerships with other agencies, organizations, and businesses. Strengthening these relationships and exploring new ones will continue to be a goal for FY 2024.

The Lower Platte North NRD and Lower Platte South NRD rotate in hosting the East Central Land Judging Contest. Land Judging is a competition for high students that challenges them to gain a better understanding of soil structure and land evaluation. The Lower Platte North NRD works with local NRCS employees to choose a site location and help with site

preparation. The Lower Platte North NRD staff and NRCS staff will assist in the preparation, contest monitoring, and scoring efforts during the contest. The East Central Land Judging Contest was held by Lower Platte North NRD on October 5th, 2022. 253 students competed in this event. The Area 5 Range Judging Contest was also held in FY 2023, where staff at the LPNNRD helped host the competition. 260 students competed in this event that was held at Camp Moses Merrill.

The annual LPNNRD Spring Conservation Sensation was held on May 3rd at Lake Wanahoo. Fifth and sixth grade students from Saunders, Butler, and Dodge Counties participated in various activities. Hands-on activities were presented by LPNNRD staff, additional personnel from various agencies and organizations, and volunteers to teach students about the environment, natural resources, tree planting, lake ecosystems, wildlife education and more. 300 students attended the event.

The second annual LPNNRD Natural Resources Camp was held at Lake Wanahoo. For one week, attendees learned how to fish, how to go birding, about the amphibians and reptiles of Nebraska, and insects, both macroinvertebrates they found in the lake and the land dwelling butterflies and moths. Eight boys attended the week-long camp. The hands-on activities were the students favorite parts per their evaluations and they are looking forward to returning next summer. The goal for FY 2024 is a full camp of 15 attendees, and new activities such as fire starting and campfire cooking, and archery.

Test Your Well Event is a program that partners with area FFA chapters to host public events, providing nitrate testing of water samples from private wells at no cost to the attendees. The district held 3 events in FY 2023 that involved over 20 students. The goal for FY 2024 is to have every FFA chapter in our district host a test your well night.

Staff at the LPNNRD went into 29 classrooms, attended 2 outdoor classrooms days, held 6 field trips, and interacted with every grade level Pre-K through 12th. Four new schools,

Aquinas Catholic, Trinity Lutheran, Lindsay Holy Family, and Fishers School (Schuyler), invited us into their classrooms this year amongst other schools we've previously attended. Some of the goals for FY 2024 involve finding teachers in school districts such as North Bend, Mead, or Yutan, where we haven't previously been to, and work with them to bring fun and educational activities to their classrooms. Staff is also pushing Coffee Lakeside out of Wahoo and into other communities. North Bend Public Library will be hosting a Coffee Lakeside in the fall of FY 2024.

District staff provided various presentations and activities during natural resources festivals, field days, out-of-school time programs, school classrooms, online activities on the LPNNRD website, and adult education events. As a result of the district's educational outreach efforts, there was interaction with approximately 2,774 youth and 300 adults in FY 2022. These numbers do not include the 513 students who participated in Land and Range Judging. The interactions this fiscal year brought us to over 1,000 more student participants than the previous year. LPNNRD will strive for even more interactions in the years to come.

Awards, Contests, and Events

In addition to marketing efforts, the LPNNRD provides a physical presence with exhibit booths at local county fairs, agriculture expos and other events across the district. In FY 2023, exhibit booths were displays at the Soybean Day in Wahoo, Fremont Corn Expo, Career Fair at Midland University, Fremont Eco Fair, and Butler County Fair. Donations were provided to the Saunders County Fair and Dodge County Fair. Materials at the events included brochures of the NRD's projects and programs, and various promotional items.

The Lower Platte North NRD offers three \$1,000 scholarships for graduating seniors who have been involved in the Shell Creek Watershed Monitoring Program and plan to pursue higher education relating to science or natural resources. The Shell Creek Watershed

Improvement Group (SCWIG) prioritizes education outreach to improve public awareness of the project and encourage conservation with best management practices. Newman Grove High School, Lakeview Community Schools, and Schuyler Central High School are involved with the conservation efforts in the watershed. The students spend their summers collecting samples and measurements, analyzing data, and reporting results to determine water quality of the stream.

FY 2024 Information & Education Objectives

- Publish the district newsletter “Viaduct” biannually in an electronic format and as a printed newspaper insert in 10 area newspapers.
- Send timely news releases to the local media on various LPNNRD programs, projects, and activities.
- Disperse pamphlets and other publications about LPNNRD programs.
- Update the district’s website frequently.
- Continue to provide a display at county fairs or agriculture events (up to five major counties) within the district.
- Continue information and education outreach for the district through the use of tools such as local radio stations, local TV stations, and social media outlets (Facebook, Twitter, YouTube, etc.).
- Continue with the annual awards and recognition program.
- Provide district elementary students with free trees, as requested, in the spring.
- Provide LPNNRD staff as requested to speak to community organizations and schools on NRD activities and environmental topics.
- Provide various education programs, events, and activities to area schools and out-of-school time programs.
- Host the East Central Region Land Judging Contest in the fall of 2022.
- Host the 32nd Spring Conservation

Sensation in May 2023.

- Develop new programs and promotional projects to aid in outreach efforts of the district.
- Develop a video for the three recreation areas in the district.
- Provide assistance and publications for the students involved in the Shell Creek Watershed Monitoring Program.
- Continue to provide a scholarship for graduating seniors in the Shell Creek Watershed Monitoring Program who plan to pursue higher education relating to science or natural resources.

FY 2025-2029 Information & Education Long Range Objectives

- Search for new and effective ways to inform and educate the public on the NRD purpose and programs.
- Participate with the Information & Education Staff Group to coordinate statewide I&E activities and produce statewide products.
- Increase participation in activities sponsored by other agencies relating to the NRD’s responsibilities.
- Seek to have conservation/environmental education as a part of the school curriculum.
- Support environmental education activities and events throughout the district, and neighboring NRDs.
- Provide assistance for the East Central Region Land Judging Contest in the fall of 2023, hosted by Lower Platte South NRD.
- Assist in the development of an outdoor classroom for a district school.
- Partner with district schools to host Test Your Well Events annually.



LPNNRD Staff

The staff of the Lower Platte North NRD includes 19 full-time and 11 part-time/seasonal employees. The NRD administers a full-time field technician, four field office assistants in Natural Resource Conservation Service county offices, and a Recreation Facilitator for Czechland & Homestead Lake Recreation Areas.

Included in the part-time positions, the district employs seasonal conservation technicians to assist in the layout of land treatment structures. There are seasonal summer employees hired to help with Lake Wanahoo, water sampling, tree planting, and maintenance of LPNNRD projects. Personnel positions and assigned responsibilities may increase in the future as increased project and program responsibilities increase.

Current staff as of September 1, 2023:

Sydney Abbott, **Education Coordinator**
 Daryl Andersen, **Water Resources Manager**
 Jill Breunig, **Bookkeeping Department Head/Administrative Assistant**
 Will Brueggemann, **Water Resources Specialist**
 Ryan Chapman, **Assistant General Manager**
 Duke Dokulil, **Operations & Maintenance Technician**
 Sean Elliott, **Projects/Rural Water Manager**
 Noah Franzen, **Water Resources Specialist**
 Eric Gottschalk, **General Manager**
 Bob Heimann, **Operations & Maintenance Manager**
 David Moore, **Operations & Maintenance Technician**
 Russell Oaklund, **Lead Water Resources Specialist**
 Dave Odvody, **Recreation Facilitator**
 Karen Rezac, **Department/Administrative Assistant**
 Lacey Sabatka, **Information Coordinator**
 Bret Schomer, **Wanahoo Recreation Supervisor/Water Resources Specialist**
 Drew ten Bensel, **Grants/GIS**

Staff Support for NRCS Offices:

Adam Brockman, **Conservation Technician**
 Kimberly Piitz, **NRD/NRCS Field Office Assistant (Butler County)**
 Kristin Miller, **NRD/NRCS Field Office Assistant (Colfax County)**
 Jessica Marty, **NRD/NRCS Field Office Assistant (Dodge County)**
 Marla Milliken, **NRD/NRCS Field Office Assistant (Saunders County)**

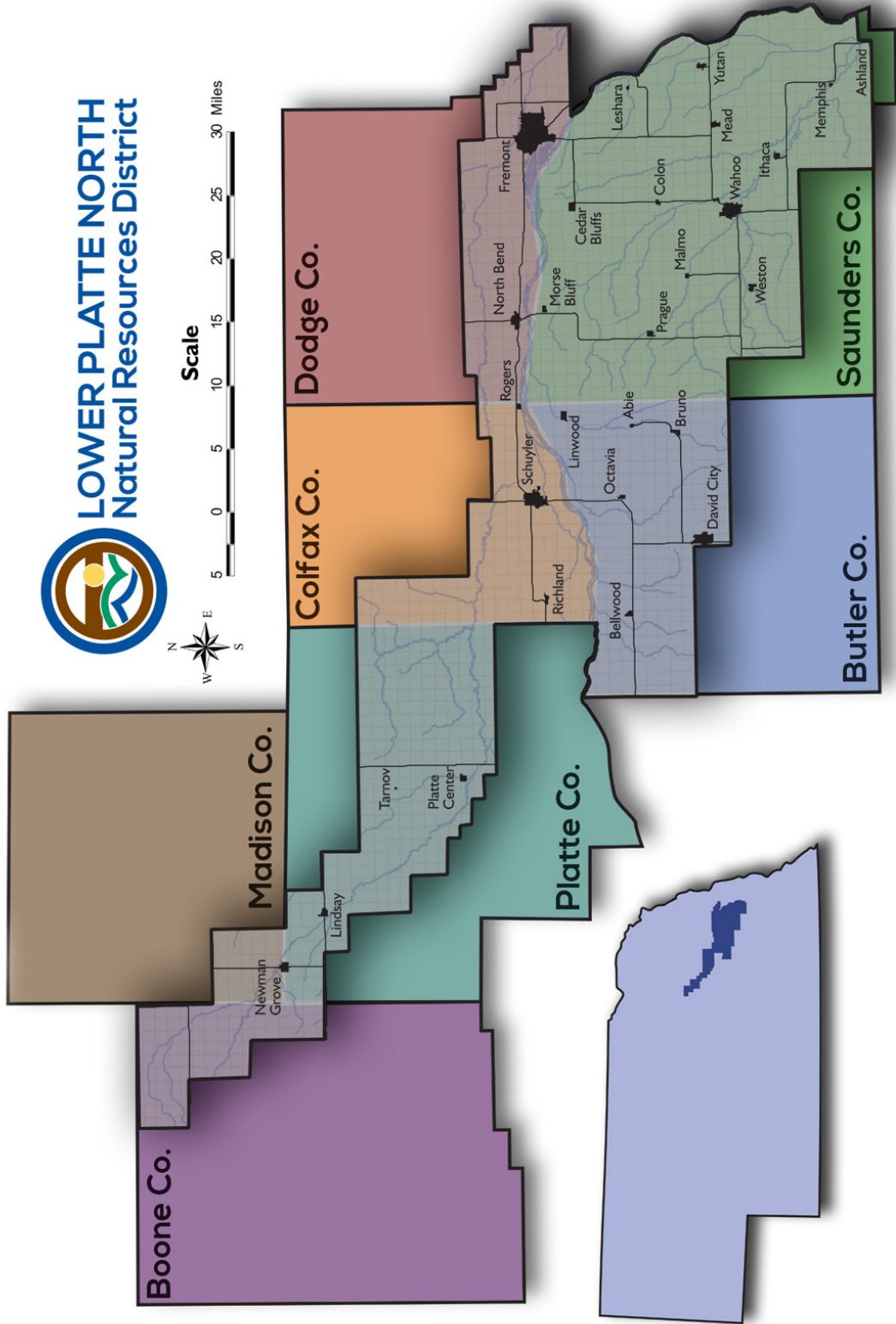


FY 2024 Financial Objectives

- Funding required for the LPNNRD projects and programs for Fiscal Year 2024 requires a general operating budget of \$ 8,761,805 of which \$ 3,480,715 is required from the district's local tax levy. The FY 2024 tax levy of .028652 cents per \$100 actual valuation is required from District property. Projected expenses and income for FY 2024-2029 are shown in Appendix F.
- A tax levy of .028652 means that an owner of a \$150,000 home will pay \$ 42.98 in NRD taxes in FY 2024. An owner of farm land valued at \$7,000 per acre will pay \$ 2.00 an acre/year to the NRD in FY 2024. The LPNNRD levy represents about two percent of the total property tax collected.

FY 2025-2029 Financial Long Range Objectives

- Although it is expected that the amount of revenue from all sources will fluctuate during the next few years, it is anticipated that the LPNNRD will operate at a mill levy between \$0.035 and \$0.055 per \$100 actual valuation as the District continues to assist with flood reduction project priorities and to address our responsibilities with groundwater water quality and quantity management.



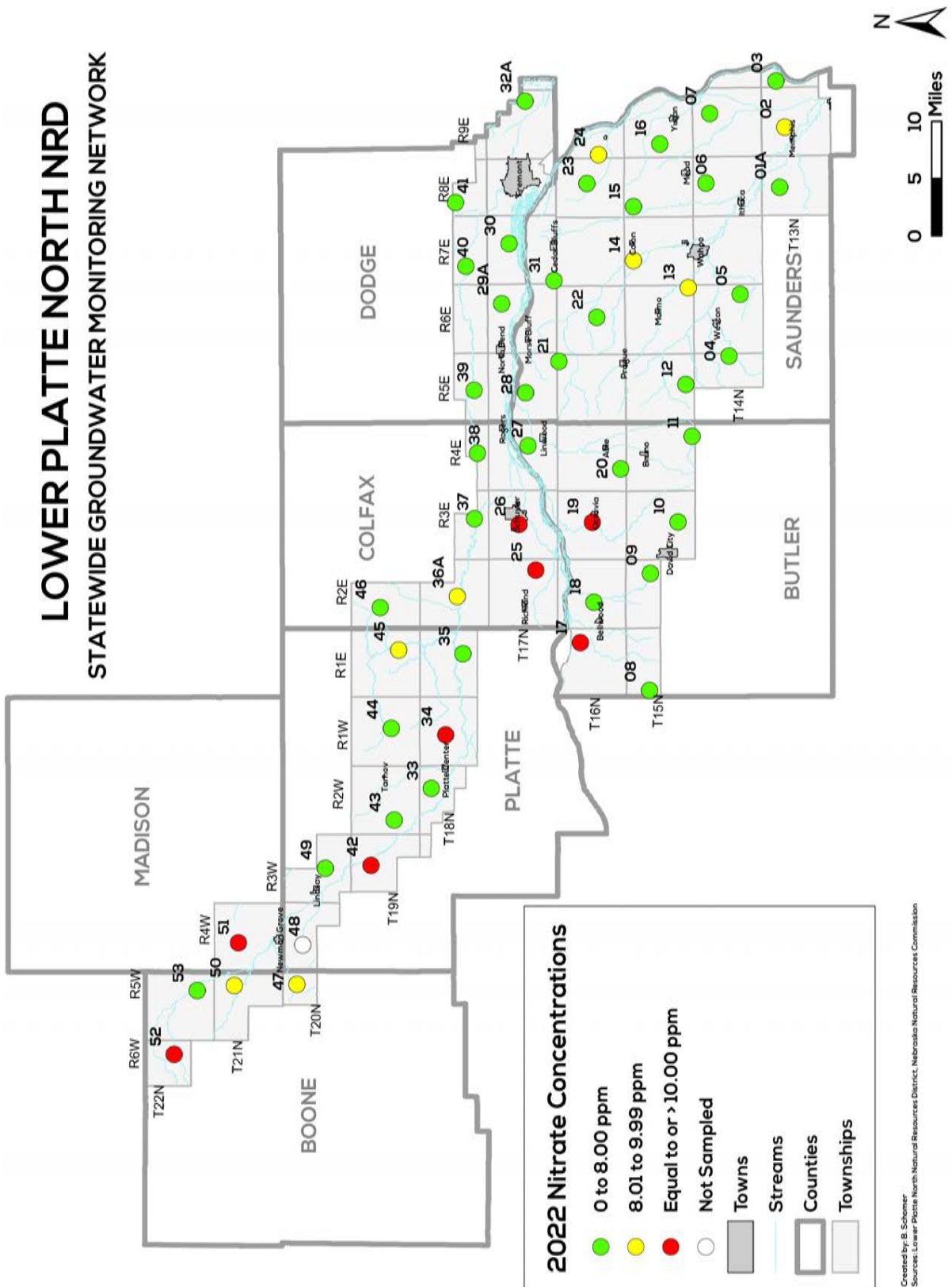


APPENDIX B – Estimated Population by County

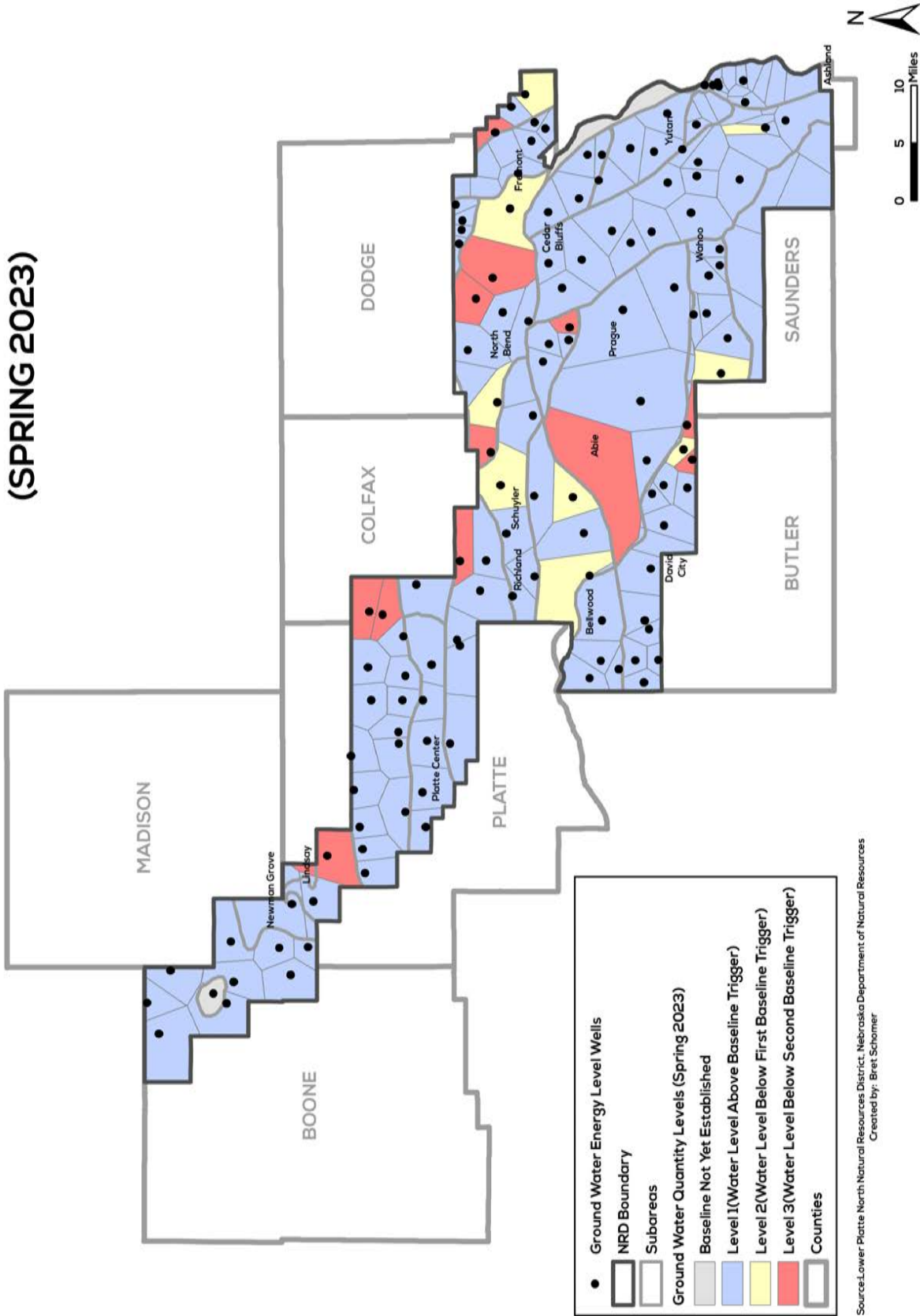
COUNTY	% OF COUNTY IN DISTRICT	ACRES IN DISTRICT	RURAL POPULATION IN DISTRICT	URBAN POPULATION IN DISTRICT	TOTAL
Boone	12.78	56,175	173	0	173
Butler	44.38	167,700	1,815	3,763	5,578
Colfax	40.76	108,582	1,069	6,699	7,768
Dodge	31.96	111,147	3,017	28,800	31,817
Madison	6.25	22,998	155	667	822
Platte	37.78	165,401	2,196	668	2,864
Saunders	81.39	395,098	7,477	8,948	16,425
TOTAL		1,027,101	15,902	49,545	65,447

Twenty-eight cities, towns and villages are located within the Lower Platte North NRD, listed below with their populations (according to 2020 United States Census):

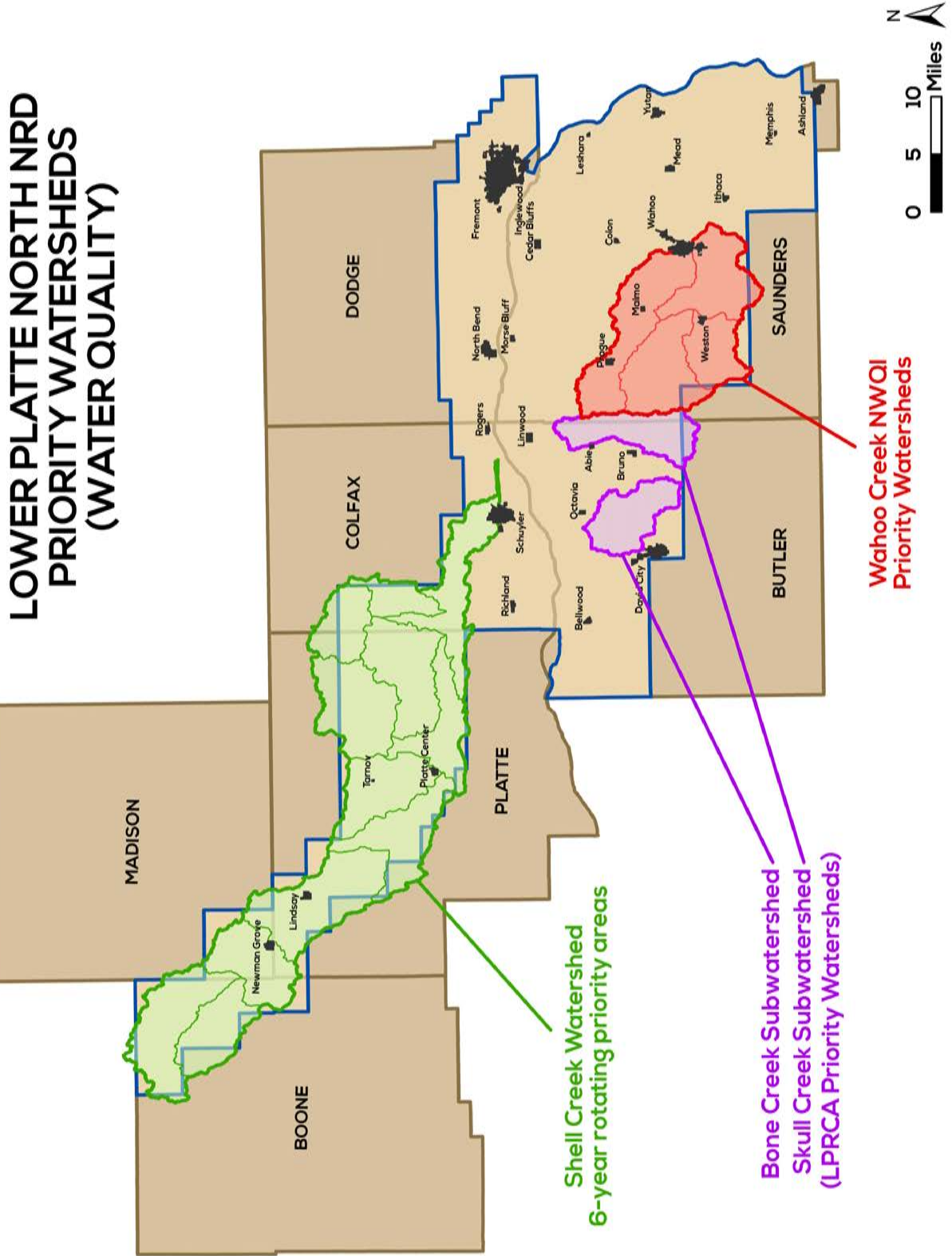
Abie	65	Memphis.....	109
Ashland	3,086	Morse Bluff	117
Bellwood.....	407	Newman Grove.....	667
Bruno	95	North Bend.....	1,279
Cedar Bluffs	615	Octavia	107
Colon.....	107	Platte Center	333
David City.....	2,995	Prague	291
Fremont	27,141	Richland	70
Inglewood.....	380	Rogers.....	82
Ithaca	160	Schuyler	6,547
Leshara	108	Tarnov	52
Lindsay	283	Wahoo	4,818
Linwood	94	Weston	250
Malmo	94	Yutan.....	1,347
Mead.....	617		



LOWER PLATTE NORTH NRD
GROUNDWATER ENERGY LEVEL NETWORK
(SPRING 2023)

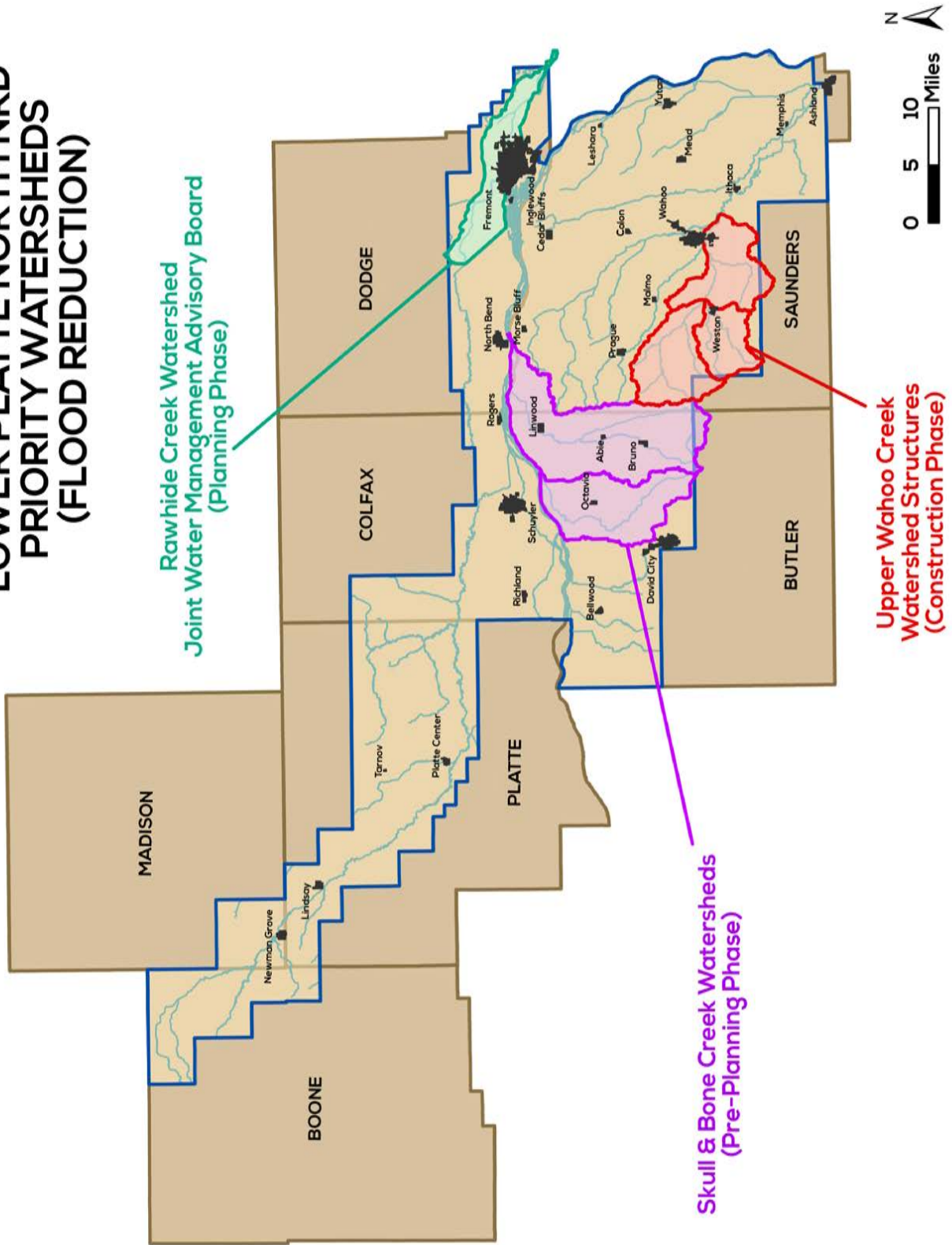


Source: Lower Platte North Natural Resources District, Nebraska Department of Natural Resources
Created by: Bret Schomer





LOWER PLATTE NORTH NRD PRIORITY WATERSHEDS (FLOOD REDUCTION)



APPENDIX G – Projected Budget Income, Fiscal Years 2024-2029



Description	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
AVAILABLE CASH (Sinking Funds, etc.)	\$304,410	\$812,848	\$869,898	\$913,392	\$959,062	\$1,007,015
FEDERAL INCOME						
NRCS (WFPO & RCPP)	\$499,610	\$3,500,000	\$5,000,000	\$2,000,000	\$0	\$0
FEMA (Stilling Basin)	\$2,709,600	\$0	\$0	\$0	\$0	\$0
FEMA (Flood Funds)	\$392,500	\$0	\$0	\$0	\$0	\$0
NDEE (EPA 319)	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000
State JEDI Funds	\$1,000,000	\$2,000,000	\$4,000,000	\$4,000,000	\$4,000,000	\$0
STATE INCOME						
NE Buffer Strip Program	\$52,000	\$54,000	\$56,000	\$58,000	\$60,000	\$0
Decommissioned Well Fund	\$3,500	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000
Natural Resource WQ Fund	\$52,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
Shell Creek Implementation	\$43,829	\$10,000	\$10,000	\$0	\$0	\$0
Water Sustainability Fund	\$133,031	\$500,075	\$500,075	\$500,075	\$0	\$0
Sand Creek - NRDF	\$22,000	\$0	\$0	\$0	\$0	\$0
Lake Wanahoo Other	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
Wild NE	\$3,820	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000
Motor Vehicle Prorate	\$8,400	\$8,400	\$8,400	\$8,400	\$8,400	\$8,400
OTHER INCOME						
Rural Water Income	\$134,000	\$140,000	\$143,000	\$150,000	\$150,000	\$150,000
Property Tax	\$3,480,715	\$3,480,715	\$3,480,715	\$3,480,715	\$3,480,715	\$3,480,715
Investment Income	\$125,000	\$125,000	\$100,000	\$100,000	\$100,000	\$100,000
Equipment, Rent, Parks, Salaries, Etc.	\$625,192	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000
Local Income	\$118,940	\$130,000	\$130,000	\$130,000	\$130,000	\$130,000
TOTAL	\$9,928,547	\$11,539,038	\$15,078,088	\$12,118,582	\$9,666,177	\$5,654,130



APPENDIX H – Projected Budget Expenses, Fiscal Years 2024-2029

ADMINISTRATION						
	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Bonds	\$100	\$100	\$100	\$100	\$100	\$100
Dues & Memberships	\$39,000	\$40,000	\$41,000	\$43,000	\$44,000	\$45,000
Fees & Licenses	\$11,465	\$11,924	\$12,401	\$12,897	\$13,200	\$13,200
GIS	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
Insurance	\$76,174	\$79,221	\$82,390	\$85,685	\$89,113	\$92,677
Interest Expense	\$	\$0	\$0	\$0	\$0	\$0
Legal Notices	\$,812	\$2,925	\$3,042	\$3,163	\$3,290	\$3,421
Maintenance Contracts	\$5,356	\$5,570	\$5,793	\$6,025	\$6,266	\$6,516
Office Supply & Expense	\$12,276	\$12,767	\$13,278	\$13,809	\$14,361	\$14,936
Computer Supply & Expense	\$32,000	\$33,000	\$34,000	\$35,000	\$36,000	\$37,000
Postage	\$7,030	\$7,312	\$7,604	\$7,908	\$8,225	\$8,554
Professional Services	\$140,000	\$142,000	\$142,000	\$144,000	\$148,000	\$149,000
Rent Expense	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
Support to Organizations	\$1,300	\$1,400	\$1,500	\$1,600	\$1,600	\$1,600
Telephone	\$20,659	\$21,485	\$22,344	\$23,238	\$24,168	\$25,134
Utilities	\$9,194	\$9,561	\$9,944	\$10,342	\$10,755	\$11,185

INFORMATION & EDUCATION						
	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Education	\$12,438	\$12,936	\$13,453	\$13,992	\$14,551	\$15,133
Information	\$32,394	\$33,690	\$35,037	\$36,439	\$37,896	\$39,412
Scholarships & Grants	\$3,245	\$3,375	\$3,510	\$3,650	\$3,796	\$3,948
Other	\$10,546	\$10,967	\$11,406	\$11,862	\$12,337	\$12,830

OPERATION & MAINTENANCE						
	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Auto & Truck Expense	\$23,795	\$24,747	\$25,737	\$26,766	\$27,837	\$28,950
Building Maintenance	\$10,059	\$10,461	\$10,880	\$11,315	\$11,767	\$12,238
Community Forestry Program	\$2,500	\$2,500	\$3,000	\$3,000	\$3,000	\$3,000
Operation & Maintenance	\$310,149	\$322,555	\$335,457	\$348,875	\$362,830	\$377,343
Project Repairs	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
Stream Bank Stabilization	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
Wildlife Habitat	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
Other	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000

PERSONNEL						
	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Directors Expense	\$41,858	\$43,532	\$45,274	\$47,084	\$48,968	\$50,927
Directors Per Diem	\$38,000	\$38,000	\$38,000	\$38,000	\$38,000	\$38,000
Employee Benefits	\$500,781	\$520,812	\$541,645	\$563,310	\$585,843	\$609,276
Payroll Taxes	\$100,589	\$104,612	\$108,797	\$113,149	\$117,675	\$122,382
Personnel Expense	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000
Salaries	\$1,342,880	\$1,383,166	\$1,424,661	\$1,467,401	\$1,490,000	\$1,540,000

APPENDIX H – Projected Budget Expenses, Fiscal Years 2024-2029



PROJECTS

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Inter-governmental	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000
Special Projects	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000
Wanahoo	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
Other Projects	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000

PLATTE RIVER CORRIDOR ALLIANCE

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
WQ Monitoring	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000

WATER

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Groundwater Management Plan	\$50,000	\$60,000	\$65,000	\$70,000	\$75,000	\$75,000
Groundwater Programs	\$195,932	\$203,769	\$211,920	\$220,397	\$229,213	\$238,381
Regulatory	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
Surface Water Programs	\$18,000	\$18,000	\$18,000	\$18,000	\$18,000	\$18,000
Special Projects	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
Land Treatment	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000

RURAL WATER DISTRICT

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Rural Water District	\$150,580	\$156,604	\$162,868	\$169,382	\$176,158	\$183,204

CAPITAL IMPROVEMENTS

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Wanahoo Stilling Basin & Oversight	\$0	\$0	\$0	\$0	\$0	\$0
Wanahoo Improvements	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
Wahoo Creek Dams	\$1,277,500	\$3,500,000	\$2,450,000	\$2,100,000	\$0	\$0
Land Rights (Wahoo Creek)	\$547,500	\$1,500,000	\$1,050,000	\$900,000	\$0	\$0
Fremont/Dodge County Drainage	\$440,000	\$440,000	\$440,000	\$440,000	\$440,000	\$0
Skull/Bone Creek	\$0	\$0	\$0	\$400,000	\$400,000	\$400,000
Cottonwood 21A Spillway	\$50,000	\$50,000	\$0	\$0	\$0	\$0
Buildings	\$500,000	\$500,000	\$500,000	\$40,000	\$40,000	\$40,000
Large Structure O&M Sinking Fund	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
Flood Reduction Sinking Fund	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000

CAPITAL OUTLAY

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Capital Outlay	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000

BUDGET TOTAL

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
BUDGET TOTAL	\$8,514,111	\$11,804,990	\$10,370,038	\$9,929,389	\$7,029,947	\$5,189,749

Financial Statements and Accountant's Compilation Report

Lower Platte North Natural Resources District

July 31, 2023

Preliminary Draft

HBE

CPAs & Consultants | Wealth Management





CPAs & Consultants | Wealth Management



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 July 31, 2023, and the related Statements of Activities for the month 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

August XX, 2023

7140 Stephanie Lane | P.O. Box 23110 | Lincoln, NE | 68542-3110 | p: 402.423.4343 | f: 402.423.4346

1314 Andrews Drive | Norfolk, NE | 68701 | p: 402.379.9294 | f: 402.379.2338

1121 North 102nd Court | Suite 100 | Omaha, NE | 68114 | p: 402.895.5050 | f: 402.895.5723

Lower Platte North NRD Statements of Net Position

	Natural Resources District As of 07/31/2023	Rural Water-Bruno As of 07/31/2023	Rural Water-Colon As of 07/31/2023	All Districts As of 07/31/2023
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	700.00	0.00	0.00	700.00
102001 - Cash - Union Bank	341,879.40	0.00	0.00	341,879.40
103000 - Cash - County Treasurer	53,516.23	0.00	0.00	53,516.23
104000 - Cash - Education Building Res.	10,510.00	0.00	0.00	10,510.00
111100 - Investments - NRD - NPAIT	2,424.64	0.00	0.00	2,424.64
111105 - Union Bank STFIT	3,123,129.35	0.00	0.00	3,123,129.35
Total Cash and Cash Equivalents	3,532,309.62	60.00	90.00	3,532,459.62
Accounts Receivable, Net				
Accounts Receivable				
105000 - Accounts Receivable	2,921,183.85	3,726.72	8,025.29	2,932,935.86
105060 - Due from Bruno Water Fund	203,119.09	0.00	0.00	203,119.09
105070 - Due from Colon Water Fund	29,063.56	0.00	0.00	29,063.56
109000 - Taxes Receivable	1,014,778.90	0.00	0.00	1,014,778.90
Total Accounts Receivable	4,168,145.40	3,726.72	8,025.29	4,179,897.41
Total Accounts Receivable, Net	4,168,145.40	3,726.72	8,025.29	4,179,897.41
Inventory				
165503 - Rural Water Inventory	0.00	6,579.89	9,869.84	16,449.73
Total Inventory	0.00	6,579.89	9,869.84	16,449.73
Prepaid Expenses				
116000 - Prepaid Expenses	37,592.00	0.00	0.00	37,592.00
Total Prepaid Expenses	37,592.00	0.00	0.00	37,592.00
Other Current Assets				
111225 - Investments - Borrow Fund - NPAIT	116,265.07	0.00	0.00	116,265.07
111250 - Investments - Alliance GIS Project	7,886.31	0.00	0.00	7,886.31
111450 - Investments - Elkhorn River Breakout	136,979.94	0.00	0.00	136,979.94
111550 - Investments - Elkhorn Breakout	2,808.25	0.00	0.00	2,808.25
111600 - Investments - Wanahoo SRA	463,523.70	0.00	0.00	463,523.70
111650 - Investments - Colon Reserve NPAIT	0.00	0.00	8,860.13	8,860.13
Total Other Current Assets	727,463.27	0.00	8,860.13	736,323.40
Total Current Assets	8,465,510.29	10,366.61	26,845.26	8,502,722.16
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	28,832,466.21	0.00	0.00	28,832,466.21
162500 - Land Improvements	623,922.90	0.00	0.00	623,922.90
163000 - Buildings	1,115,317.14	0.00	0.00	1,115,317.14
165000 - Machinery & Equipment	260,348.45	0.00	0.00	260,348.45
165100 - Machinery & Equipment - O & M	190,238.38	0.00	0.00	190,238.38
165200 - Machinery & Equipment - Water	333,315.87	0.00	0.00	333,315.87
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	277,623.35	0.00	0.00	277,623.35
169000 - Equipment	15,057.27	0.00	0.00	15,057.27
169100 - Office Equipment	20,031.58	0.00	0.00	20,031.58
169200 - Computer Equipment	63,034.27	0.00	0.00	63,034.27

Lower Platte North NRD Statements of Net Position

	Natural Resources District As of 07/31/2023	Rural Water-Bruno As of 07/31/2023	Rural Water-Colon As of 07/31/2023	All Districts As of 07/31/2023
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	324,160.00	0.00	0.00	324,160.00
169700 - GW Monitoring Equipment	28,504.55	0.00	0.00	28,504.55
Total Fixed Assets	41,970,766.07	744,154.49	1,209,072.03	43,923,992.59
Accumulated Depreciation				
140228 - Accum Depr - Colon Loan Fees	0.00	0.00	758.38	758.38
162900 - Accum Depr - Infra. & Land Imp.	4,173,225.00	0.00	0.00	4,173,225.00
164000 - Accum Depr - Buildings	541,093.60	0.00	0.00	541,093.60
165700 - Accum Depr - Water Line	0.00	142,592.18	268,830.07	411,422.25
166000 - Accum Depr - Machinery & Equipment	591,374.51	15,664.80	23,497.06	630,536.37
168000 - Accum Depr - Auto & Truck	241,390.28	0.00	0.00	241,390.28
169550 - Accum Depr - Master DB Water	93,176.09	0.00	0.00	93,176.09
170000 - Accum Depr - Office Equipment	96,966.13	0.00	0.00	96,966.13
Total Accumulated Depreciation	5,737,225.61	158,256.98	293,085.51	6,188,568.10
Total Property and Equipment	36,233,540.46	585,897.51	915,986.52	37,735,424.49
Total Assets	\$ 44,699,050.75	\$ 596,264.12	\$ 942,831.78	\$ 46,238,146.65
Liabilities and Fund Balance				
Liabilities				
Current Liabilities				
Accounts Payable				
201000 - Accounts Payable	153,808.33	2,673.96	3,140.73	159,623.02
201100 - Sewer Collections Payable	0.00	0.00	2,457.00	2,457.00
202060 - Due to General Fund	0.00	203,119.09	29,063.56	232,182.65
Total Accounts Payable	153,808.33	205,793.05	34,661.29	394,262.67
Accrued Liabilities				
200700 - Colon RW Accrued Interest	0.00	0.00	936.50	936.50
206001 - Accrued Compensated Absences	219,816.19	2,728.71	4,093.07	226,637.97
207305 - Lodging Tax Czechland	284.43	0.00	0.00	284.43
207306 - Sales Tax Payable Wanahoo	1,138.01	0.00	0.00	1,138.01
207307 - Lodging Tax Wanahoo	1,034.55	0.00	0.00	1,034.55
208000 - 414H EE Contribution	34.40	0.00	0.00	34.40
Total Accrued Liabilities	222,307.58	2,728.71	5,029.57	230,065.86
Other Current Liabilities				
204000 - Deposits	0.00	400.00	2,900.00	3,300.00
204500 - Deferred Income	40,553.97	0.00	0.00	40,553.97
204600 - Education Building Deposits	10,510.00	0.00	0.00	10,510.00
207300 - Sales Tax Payable	9.60	115.27	192.56	317.43
207304 - Sales Tax Payable Czechland	76.23	0.00	0.00	76.23
231000 - Permits Liability - DEE	57.00	0.00	0.00	57.00
Total Other Current Liabilities	51,206.80	515.27	3,092.56	54,814.63
Total Current Liabilities	427,322.71	209,037.03	42,783.42	679,143.16
Long Term Liabilities				
Note Payable - Long Term				
200600 - Note Payable - Colon Rural Water	0.00	0.00	25,932.44	25,932.44
Total Long Term Note Payable	0.00	0.00	25,932.44	25,932.44
Total Long Term Liabilities	0.00	0.00	25,932.44	25,932.44
Total Liabilities	427,322.71	209,037.03	68,715.86	705,075.60
Fund Balances				

**Lower Platte North NRD
Statements of Net Position**

	Natural Resources District As of 07/31/2023	Rural Water-Bruno As of 07/31/2023	Rural Water-Colon As of 07/31/2023	All Districts As of 07/31/2023
Net Assets	44,385,882.50	387,462.89	873,465.94	45,646,811.33
Change in Net Position	(114,154.46)	(235.80)	649.98	(113,740.28)
Total Fund Balances	44,271,728.04	387,227.09	874,115.92	45,533,071.05
Total Liabilities and Fund Balance	\$ 44,699,050.75	\$ 596,264.12	\$ 942,831.78	\$ 46,238,146.65

Preliminary Draft

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

	Natural Resources District Month Ending 07/31/2023	Rural Water-Bruno Month Ending 07/31/2023	Rural Water-Colon Month Ending 07/31/2023	All Districts Month Ending 07/31/2023
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
303209 - Shell Creek Phase II 319 - NDEE	0.00	0.00	0.00	0.00
303210 - Shell Creek Phase II - 319 DEQ	0.00	0.00	0.00	0.00
303225 - Wahoo Creek WS PL566	49,455.98	0.00	0.00	49,455.98
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	0.00	0.00	0.00	0.00
303961 - FEMA - Flood Funds	0.00	0.00	0.00	0.00
303966 - FEMA - Hazard Mitigation Plan Update	0.00	0.00	0.00	0.00
303962 - NEMA - Flood Funds	0.00	0.00	0.00	0.00
303963 - FEMA - 428 Funds	0.00	0.00	0.00	0.00
303964 - Federal - NRCS	0.00	0.00	0.00	0.00
303965 - Federal Wanahoo - Stilling	0.00	0.00	0.00	0.00
Total Federal Income	\$ 49,455.98	\$ 0.00	\$ 0.00	\$ 49,455.98
State Income				
301203 - Motor Vehicle Pro-Rate	520.88	0.00	0.00	520.88
301309 - Water Sustainability Fund	3,161.25	0.00	0.00	3,161.25
301310 - Shell Creek NET	550.00	0.00	0.00	550.00
301325 - JEDI Funding	14,103.10	0.00	0.00	14,103.10
304100 - Lake Wanahoo - Other	934.25	0.00	0.00	934.25
Total State Income	19,269.48	0.00	0.00	19,269.48
Local Income				
304105 - Education Building Rent	1,050.00	0.00	0.00	1,050.00
304112 - Dirt Sales - Wanahoo	506.83	0.00	0.00	506.83
304400 - Flow Meter Maint. Reimb.	108.00	0.00	0.00	108.00
304500 - JWMAB	15,157.50	0.00	0.00	15,157.50
Total Local Income	16,822.33	0.00	0.00	16,822.33
Rural Water Income				
304240 - Water Sales	0.00	3,783.50	4,768.76	8,552.26
304295 - Colon Sewer Fees	0.00	0.00	2,457.00	2,457.00
304261 - Other Revenue	0.00	3.10	193.56	196.66
Total Rural Water Income	0.00	3,786.60	7,419.32	11,205.92
Property Tax Income				
305100 - General Fund Property Taxes-Boone	921.69	0.00	0.00	921.69
305200 - General Fund Property Taxes-Butler	34.62	0.00	0.00	34.62
305300 - General Fund Property Taxes-Coffax	30.26	0.00	0.00	30.26
305400 - General Fund Property Taxes-Dodge	2,014.79	0.00	0.00	2,014.79
305500 - General Fund Property Taxes-Madison	6.57	0.00	0.00	6.57
305600 - General Fund Property Taxes-Platte	20.05	0.00	0.00	20.05
305700 - General Fund Property Taxes-Saunders	302.18	0.00	0.00	302.18
Total Property Tax Income	3,330.16	0.00	0.00	3,330.16
Investment Income				
311350 - Interest - NPAIT Elkhorn	12.14	0.00	0.00	12.14
311400 - Interest - NPAIT Wanahoo SRA	2,020.66	0.00	0.00	2,020.66
311500 - Interest - NPAIT NRD	10.59	0.00	0.00	10.59
311600 - Interest - STFIT NRD	13,340.07	0.00	0.00	13,340.07
311700 - Interest - UBT NRD	78.85	0.00	0.00	78.85
304350 - Colon RW Interest - NPAIT	0.00	0.00	38.60	38.60
Total Investment Income	15,462.31	0.00	38.60	15,500.91
Miscellaneous Income				
309350 - Sales - Well Permits	100.00	0.00	0.00	100.00
309360 - Sales - Sample Kits	1,030.00	0.00	0.00	1,030.00
309400 - Sales - Other	450.00	0.00	0.00	450.00
309500 - Equipment Rent	2,735.41	0.00	0.00	2,735.41
310000 - Chemigation Permits	935.00	0.00	0.00	935.00
310200 - Czechland Camping Fees	1,240.47	0.00	0.00	1,240.47
310201 - Wanahoo Park Permits	10,866.55	0.00	0.00	10,866.55
310202 - Lake Wanahoo Camping	21,176.94	0.00	0.00	21,176.94
313000 - Miscellaneous Income	930.83	0.00	0.00	930.83
315000 - RWD Administrative Fees	427.62	0.00	0.00	427.62

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

	Natural Resources District Month Ending 07/31/2023	Rural Water-Bruno Month Ending 07/31/2023	Rural Water-Colon Month Ending 07/31/2023	All Districts Month Ending 07/31/2023
316000 - Employee/Director Reimb	322.02	0.00	0.00	322.02
Total Miscellaneous Income	40,214.84	0.00	0.00	40,214.84
Total Income	144,555.10	3,786.60	7,457.92	155,799.62
Expenses				
Administration Expenses				
Dues & Membership				
410202 - Dues & Membership - NACD	148.00	0.00	0.00	148.00
410203 - Dues - NARD	2,610.25	0.00	0.00	2,610.25
Total Dues & Membership	2,758.25	0.00	0.00	2,758.25
Fees and Licenses				
410304 - NRD Union Bank Fees	22.56	0.00	0.00	22.56
Total Fees and Licenses	22.56	0.00	0.00	22.56
Insurance				
410501 - Insurance-Auto	986.08	0.00	0.00	986.08
410502 - Insurance-Errors & Omissions	535.42	0.00	0.00	535.42
410504 - Insurance-Liability	5,141.17	0.00	0.00	5,141.17
410505 - Insurance-Property	1,648.08	0.00	0.00	1,648.08
Total Insurance	8,310.75	0.00	0.00	8,310.75
Interest Expense				
410600 - Interest Expense	0.00	0.00	93.65	93.65
Total Interest Expense	0.00	0.00	93.65	93.65
Legal Notices				
410701 - Legal Notices	127.51	0.00	0.00	127.51
Total Legal Notices	127.51	0.00	0.00	127.51
Maintenance Contracts				
410800 - Maintenance Contracts	378.54	0.00	0.00	378.54
Total Maintenance Contracts	378.54	0.00	0.00	378.54
Office Supply & Expense				
410902 - Office Supplies & Equip	328.39	0.00	0.00	328.39
410906 - Office Expense - Other	6.38	0.00	0.00	6.38
Total Office Supply & Expense	334.77	0.00	0.00	334.77
Computer Supply & Expense				
411002 - Computer Consultant	400.00	0.00	0.00	400.00
411003 - Computer Repairs & Parts	766.25	0.00	0.00	766.25
411004 - Computer Software	(1,370.50)	0.00	0.00	(1,370.50)
411006 - Email	248.40	0.00	0.00	248.40
411011 - Computers & Equipment	2,096.12	0.00	0.00	2,096.12
Total Computer Supply & Expense	2,140.27	0.00	0.00	2,140.27
Postage				
411200 - Postage	27.00	0.00	0.00	27.00
Total Postage	27.00	0.00	0.00	27.00
Professional Services				
411301 - Prof Serv-Accounting	6,750.00	0.00	0.00	6,750.00
411311 - Washington Expense	2,100.00	0.00	0.00	2,100.00
Total Professional Services	8,850.00	0.00	0.00	8,850.00
Telephone Expense				
411601 - Telephone - Cellular	1,072.99	0.00	0.00	1,072.99
411602 - Local Phone & Internet	714.26	0.00	0.00	714.26
Total Telephone Expense	1,787.25	0.00	0.00	1,787.25
Utilities				
411700 - Utilities Expense	831.20	0.00	0.00	831.20
Total Utilities	831.20	0.00	0.00	831.20
Total Administration Expenses	25,568.10	0.00	93.65	25,661.75
Information & Education Expenses				
Education				
420109 - Education Outreach	163.00	0.00	0.00	163.00
Total Education	163.00	0.00	0.00	163.00
Information				
420201 - Annual Report/Viaduct	5,740.52	0.00	0.00	5,740.52
420203 - Expositions And Display	250.00	0.00	0.00	250.00
420208 - Miscellaneous	83.00	0.00	0.00	83.00
420209 - Ktic Ad	217.00	0.00	0.00	217.00
420211 - E-Ads	140.00	0.00	0.00	140.00

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

	Natural Resources District Month Ending 07/31/2023	Rural Water-Bruno Month Ending 07/31/2023	Rural Water-Colon Month Ending 07/31/2023	All Districts Month Ending 07/31/2023
420212 - TV Promotion	499.00	0.00	0.00	499.00
Total Information	6,929.52	0.00	0.00	6,929.52
Total Information & Education Expenses	7,092.52	0.00	0.00	7,092.52
Operation & Maintenance				
Auto and Truck				
430101 - Auto & Truck Gas	2,441.16	0.00	0.00	2,441.16
430102 - Auto & Truck R&M	699.98	0.00	0.00	699.98
Total Auto and Truck	3,141.14	0.00	0.00	3,141.14
Building Maintenance				
430201 - Bldg Maintenance	24.54	0.00	0.00	24.54
430202 - Office Cleaning	440.00	0.00	0.00	440.00
430203 - Garbage Maintenance	83.44	0.00	0.00	83.44
Total Building Maintenance	547.98	0.00	0.00	547.98
Operation and Maintenance				
430401 - Czechland & Homestead	291.78	0.00	0.00	291.78
430402 - Equipment Upkeep	546.55	0.00	0.00	546.55
430403 - Operation & Maintenance	551.21	0.00	0.00	551.21
430406 - Wanahoo Park Operation	1,317.01	0.00	0.00	1,317.01
430408 - Wanahoo Rec Mgmt	6,269.89	0.00	0.00	6,269.89
430409 - Lake Wanahoo Education Building	543.00	0.00	0.00	543.00
Total Operation and Maintenance	9,519.44	0.00	0.00	9,519.44
Other				
430804 - O&M One-Call Services	7.35	0.00	0.00	7.35
Total Other	7.35	0.00	0.00	7.35
Total Operation & Maintenance	13,215.91	0.00	0.00	13,215.91
Personnel Expenses				
Director Expense				
440101 - Director Meeting Expense	953.95	0.00	0.00	953.95
Total Director Expense	953.95	0.00	0.00	953.95
Employee Benefits				
440301 - Dental Insurance	1,810.06	0.00	0.00	1,810.06
440302 - Health Insurance	34,307.67	0.00	0.00	34,307.67
440303 - Retirement Benefit - 414H	2,829.57	0.00	0.00	2,829.57
440306 - Workmans Comp Benefit	964.34	0.00	0.00	964.34
440307 - Employee Benefits - Other	(45.52)	0.00	0.00	(45.52)
440309 - Flexible Spending Fee	22.50	0.00	0.00	22.50
Total Employee Benefits	39,888.62	0.00	0.00	39,888.62
Payroll Taxes				
440401 - FICA - ER	3,004.70	0.00	0.00	3,004.70
440402 - Medicare - ER	702.73	0.00	0.00	702.73
Total Payroll Taxes	3,707.43	0.00	0.00	3,707.43
Personnel Expense				
440501 - Personnel Meeting Exp	3,105.84	0.00	0.00	3,105.84
440502 - Personnel Mileage Exp	535.68	0.00	0.00	535.68
440504 - Personnel Uniform Exp	39.98	0.00	0.00	39.98
Total Personnel Expense	3,681.50	0.00	0.00	3,681.50
Salaries				
440601 - Salaries - Administration	9,411.42	0.00	0.00	9,411.42
440602 - Salaries - Clerical	1,129.02	0.00	0.00	1,129.02
440604 - Salaries - I & E	4,002.07	0.00	0.00	4,002.07
440605 - Salaries - Op & Maint	8,010.48	0.00	0.00	8,010.48
440606 - NRCS Support	29,972.75	0.00	0.00	29,972.75
440607 - Salaries - Projects	3,727.10	0.00	0.00	3,727.10
440608 - Salaries - Water	17,391.28	0.00	0.00	17,391.28
440616 - Lake Wanahoo Park Op.	6,904.61	0.00	0.00	6,904.61
Total Salaries	80,548.73	0.00	0.00	80,548.73
Total Personnel Expenses	128,780.23	0.00	0.00	128,780.23
Projects Expenses				
Inter-Governmental				
450119 - JWMAB Dodge Co	20,210.00	0.00	0.00	20,210.00
Total Inter-Governmental	20,210.00	0.00	0.00	20,210.00
Total Projects Expenses	20,210.00	0.00	0.00	20,210.00
Water Expenses				
Groundwater Management Plan				

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

	Natural Resources District Month Ending 07/31/2023	Rural Water-Bruno Month Ending 07/31/2023	Rural Water-Colon Month Ending 07/31/2023	All Districts Month Ending 07/31/2023
460101 - GWMP - Cost - Share	1,184.00	0.00	0.00	1,184.00
Total Groundwater Management Plan	1,184.00	0.00	0.00	1,184.00
Groundwater Programs				
460204 - GW Quality Program	2,661.21	0.00	0.00	2,661.21
460206 - Monitoring Wells	834.51	0.00	0.00	834.51
460213 - GW Memberships and Subscriptions	657.50	0.00	0.00	657.50
Total Groundwater Programs	4,153.22	0.00	0.00	4,153.22
Regulatory				
460301 - Chemigation	293.08	0.00	0.00	293.08
Total Regulatory	293.08	0.00	0.00	293.08
Special Projects				
460504 - ENWRA	2,500.00	0.00	0.00	2,500.00
460519 - Hydrological Study	5,268.75	0.00	0.00	5,268.75
Total Special Projects	7,768.75	0.00	0.00	7,768.75
Land Treatment				
450803 - Shell Creek Watershed Plan 319	1,991.53	0.00	0.00	1,991.53
Total Land Treatment	1,991.53	0.00	0.00	1,991.53
Total Water Expenses	15,390.58	0.00	0.00	15,390.58
Rural Water District Expenses				
570201 - Water Purchase	0.00	2,288.45	1,330.19	3,618.64
570204 - Testing	0.00	15.00	15.00	30.00
570208 - Lpnnrd Adm. Fee	0.00	189.18	238.44	427.62
570210 - Health/Life/Vision/LTD - ER	0.00	215.39	323.08	538.47
570211 - Dental - ER	0.00	23.86	35.79	59.65
570212 - 414H ER Contributions	0.00	59.64	89.46	149.10
570215 - ER Social Security Tax	0.00	54.47	80.53	135.00
570216 - ER Medicare Tax	0.00	12.74	18.83	31.57
570217 - Salaries	0.00	159.19	257.39	416.58
570219 - Fees And Licenses	0.00	17.13	25.68	42.81
570220 - Rural Water One-Call	0.00	0.92	6.43	7.35
570223 - Rural Water Gasoline	0.00	120.48	35.85	156.33
570231 - Rural Water Equipment Upkeep	0.00	188.04	282.07	470.11
570308 - Colon Meter House Expense	0.00	0.00	81.48	81.48
570309 - Colon Sewer Collections	0.00	0.00	2,457.00	2,457.00
Total Rural Water District Expenses	0.00	3,344.49	5,277.22	8,621.71
Depreciation Expense				
Depreciation				
908000 - Depreciation Expense	48,452.22	677.91	1,432.90	50,563.03
908350 - Amortization Expense - Colon	0.00	0.00	4.17	4.17
Total Depreciation	48,452.22	677.91	1,437.07	50,567.20
Total Depreciation Expense	48,452.22	677.91	1,437.07	50,567.20
Total Expenses	258,709.56	4,022.40	6,807.94	269,539.90
Total Change in Net Position	\$ (114,154.46)	\$ (235.80)	\$ 649.98	\$ (113,740.28)

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

	Month Ending 07/31/2023 <small>MTD Actual</small>	Annual Budget June 30, 2024 <small>FY2024</small>	\$ Difference Annual Budget	Percentage Annual Budget
Change in Net Position				
Income				
Federal Income				
303206 - Wahoo Creek 319 Grant	0.00	50,000.00	(50,000.00)	0.00 %
303207 - Shell Creek 319 Grant	0.00	160,000.00	(160,000.00)	0.00 %
303225 - Wahoo Creek WS PL566	49,455.98	0.00	49,455.98	0.00 %
303961 - FEMA - Flood Funds	0.00	1,491,585.00	(1,491,585.00)	0.00 %
303966 - FEMA - Hazard Mitigation Plan Update	0.00	75,000.00	(75,000.00)	0.00 %
303963 - FEMA - 428 Funds	0.00	280,704.00	(280,704.00)	0.00 %
303964 - Federal - NRCS	0.00	794,000.00	(794,000.00)	0.00 %
303965 - Federal Wanahoo - Stilling	0.00	696,452.00	(696,452.00)	0.00 %
Total Federal Income	49,455.98	3,547,741.00	(3,498,285.02)	1.39 %
State Income				
301201 - Natural Resources WQ Fund	0.00	52,000.00	(52,000.00)	0.00 %
301202 - Decommissioned Wells	0.00	4,300.00	(4,300.00)	0.00 %
301203 - Motor Vehicle Pro-Rate	520.88	8,400.00	(7,879.12)	6.20 %
301303 - Sand Creek NRDF	0.00	20,000.00	(20,000.00)	0.00 %
301309 - Water Sustainability Fund	3,161.25	165,000.00	(161,838.75)	1.92 %
301310 - Shell Creek NET	550.00	100,000.00	(99,450.00)	0.55 %
301325 - JEDI Funding	14,103.10	800,000.00	(785,896.90)	1.76 %
301800 - State Grant - Whip/Ne Wild	0.00	500.00	(500.00)	0.00 %
301900 - State Grant - NE Buffer Strip	0.00	51,000.00	(51,000.00)	0.00 %
304100 - Lake Wanahoo - Other	934.25	25,000.00	(24,065.75)	3.74 %
Total State Income	19,269.48	1,226,200.00	(1,206,930.52)	1.57 %
Local Income				
304105 - Education Building Rent	1,050.00	17,000.00	(15,950.00)	6.18 %
304112 - Dirt Sales - Wanahoo	506.83	10,000.00	(9,493.17)	5.07 %
304400 - Flow Meter Maint. Reimb.	108.00	3,100.00	(2,992.00)	3.48 %
304500 - JWMAB	15,157.50	15,000.00	157.50	101.05 %
Total Local Income	16,822.33	45,100.00	(28,277.67)	37.30 %
Property Tax Income				
305100 - General Fund Property Taxes-Boone	921.69	117,500.00	(116,578.31)	0.78 %
305200 - General Fund Property Taxes-Butler	34.62	400,000.00	(399,965.38)	0.01 %
305300 - General Fund Property Taxes-Colfax	30.26	330,000.00	(329,969.74)	0.01 %
305400 - General Fund Property Taxes-Dodge	2,014.79	1,113,000.00	(1,110,985.21)	0.18 %
305500 - General Fund Property Taxes-Madison	6.57	51,000.00	(50,993.43)	0.01 %
305600 - General Fund Property Taxes-Platte	20.05	464,000.00	(463,979.95)	0.00 %
305700 - General Fund Property Taxes-Saunders	302.18	1,275,000.00	(1,274,697.82)	0.02 %
Total Property Tax Income	3,330.16	3,750,500.00	(3,747,169.84)	0.09 %
Investment Income				
311350 - Interest - NPAIT Elkhorn	12.14	102.00	(89.86)	11.90 %
311400 - Interest - NPAIT Wanahoo SRA	2,020.66	15,700.00	(13,679.34)	12.87 %
311450 - Interest Income-Elkhorn IPA	0.00	200.00	(200.00)	0.00 %
311500 - Interest - NPAIT NRD	10.59	90.00	(79.41)	11.77 %
311600 - Interest - STFIT NRD	13,340.07	106,000.00	(92,659.93)	12.58 %
311700 - Interest - UBT NRD	78.85	875.00	(796.15)	9.01 %
Total Investment Income	15,462.31	122,967.00	(107,504.69)	12.57 %
Miscellaneous Income				
309100 - Sales - Trees	0.00	20,000.00	(20,000.00)	0.00 %

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

	Month Ending 07/31/2023 MTD Actual	Annual Budget June 30, 2024 FY2024	\$ Difference Annual Budget	Percentage Annual Budget
309350 - Sales - Well Permits	100.00	3,000.00	(2,900.00)	3.33 %
309360 - Sales - Sample Kits	1,030.00	4,500.00	(3,470.00)	22.89 %
309400 - Sales - Other	450.00	4,500.00	(4,050.00)	10.00 %
309500 - Equipment Rent	2,735.41	4,000.00	(1,264.59)	68.39 %
310000 - Chemigation Permits	935.00	25,000.00	(24,065.00)	3.74 %
310100 - Check Valve Sales	0.00	600.00	(600.00)	0.00 %
310200 - Czechland Camping Fees	1,240.47	12,000.00	(10,759.53)	10.34 %
310201 - Wanahoo Park Permits	10,866.55	110,000.00	(99,133.45)	9.88 %
310202 - Lake Wanahoo Camping	21,176.94	125,000.00	(103,823.06)	16.94 %
312000 - Salaries-Other NRD	0.00	79,000.00	(79,000.00)	0.00 %
313000 - Miscellaneous Income	930.83	18,000.00	(17,069.17)	5.17 %
315000 - RWD Administrative Fees	427.62	5,500.00	(5,072.38)	7.77 %
316000 - Employee/Director Reimb	322.02	2,000.00	(1,677.98)	16.10 %
317000 - Loss Or Gain On Sale Of Assets	0.00	120,000.00	(120,000.00)	0.00 %
318000 - Special Project Income	0.00	1,000.00	(1,000.00)	0.00 %
318500 - Change in COE Revenue	0.00	115,000.00	(115,000.00)	0.00 %
Total Miscellaneous Income	40,214.84	649,100.00	(608,885.16)	6.20 %
Total Income	144,555.10	9,341,608.00	(9,197,052.90)	1.55 %
Expenses				
Administration Expenses				
Bonds				
410100 - Bonds	0.00	1,400.00	(1,400.00)	0.00 %
Total Bonds	0.00	1,400.00	(1,400.00)	0.00 %
Dues & Membership				
410201 - Dues & Membership - Chamber	0.00	450.00	(450.00)	0.00 %
410202 - Dues & Membership - NACD	148.00	1,776.00	(1,628.00)	8.33 %
410203 - Dues - NARD	2,610.25	32,575.00	(29,964.75)	8.01 %
410204 - Dues - NWRA	0.00	1,950.00	(1,950.00)	0.00 %
410205 - Dues & Membership - Other	0.00	3,200.00	(3,200.00)	0.00 %
Total Dues & Membership	2,758.25	39,951.00	(37,192.75)	6.90 %
Fees and Licenses				
410302 - NRD Fees And Licenses	0.00	10,000.00	(10,000.00)	0.00 %
410304 - NRD Union Bank Fees	22.56	600.00	(577.44)	3.76 %
Total Fees and Licenses	22.56	10,600.00	(10,577.44)	0.21 %
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	986.08	15,000.00	(14,013.92)	6.57 %
410502 - Insurance-Errors & Omissions	535.42	7,100.00	(6,564.58)	7.54 %
410504 - Insurance-Liability	5,141.17	71,000.00	(65,858.83)	7.24 %
410505 - Insurance-Property	1,648.08	22,000.00	(20,351.92)	7.49 %
Total Insurance	8,310.75	115,100.00	(106,789.25)	7.22 %
Legal Notices				
410701 - Legal Notices	127.51	4,000.00	(3,872.49)	3.19 %
410702 - Other Notices and Advertising	0.00	100.00	(100.00)	0.00 %
Total Legal Notices	127.51	4,100.00	(3,972.49)	3.11 %
Maintenance Contracts				
410800 - Maintenance Contracts	378.54	5,000.00	(4,621.46)	7.57 %

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

	Month Ending 07/31/2023 MTD Actual	Annual Budget June 30, 2024 FY2024	\$ Difference Annual Budget	Percentage Annual Budget
Total Maintenance Contracts	378.54	5,000.00	(4,621.46)	7.57 %
Office Supply & Expense				
410901 - Copier Supplies	0.00	1,000.00	(1,000.00)	0.00 %
410902 - Office Supplies & Equip	328.39	5,500.00	(5,171.61)	5.97 %
410903 - Franklin Supplies	0.00	500.00	(500.00)	0.00 %
410904 - Letterhead, Envelopes & Forms	0.00	2,000.00	(2,000.00)	0.00 %
410905 - Reference Books	0.00	1,000.00	(1,000.00)	0.00 %
410906 - Office Expense - Other	6.38	2,500.00	(2,493.62)	0.26 %
Total Office Supply & Expense	334.77	12,500.00	(12,165.23)	2.68 %
Computer Supply & Expense				
411002 - Computer Consultant	400.00	6,000.00	(5,600.00)	6.67 %
411003 - Computer Repairs & Parts	766.25	1,500.00	(733.75)	51.08 %
411004 - Computer Software	(1,370.50)	13,500.00	(14,870.50)	(10.15) %
411005 - Computer Magazines/Video	0.00	100.00	(100.00)	0.00 %
411006 - Email	248.40	3,000.00	(2,751.60)	8.28 %
411011 - Computers & Equipment	2,096.12	8,000.00	(5,903.88)	26.20 %
411012 - Website Design & Hosting	0.00	350.00	(350.00)	0.00 %
Total Computer Supply & Expense	2,140.27	32,450.00	(30,309.73)	6.60 %
Postage				
411200 - Postage	27.00	6,500.00	(6,473.00)	0.42 %
Total Postage	27.00	6,500.00	(6,473.00)	0.42 %
Professional Services				
411301 - Prof Serv-Accounting	6,750.00	87,900.00	(81,150.00)	7.68 %
411302 - Prof Serv-Annual Audit	0.00	14,150.00	(14,150.00)	0.00 %
411304 - Prof Serv-Legal - General	0.00	12,000.00	(12,000.00)	0.00 %
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	2,100.00	26,400.00	(24,300.00)	7.95 %
Total Professional Services	8,850.00	146,450.00	(137,600.00)	6.04 %
Rent Expense				
411400 - Rent Expense	0.00	1,700.00	(1,700.00)	0.00 %
Total Rent Expense	0.00	1,700.00	(1,700.00)	0.00 %
Support to Organizations				
411501 - Locally Lead Conservation Groups	0.00	500.00	(500.00)	0.00 %
411502 - R C & D Organizations	0.00	500.00	(500.00)	0.00 %
Total Support to Organizations	0.00	1,000.00	(1,000.00)	0.00 %
Telephone Expense				
411601 - Telephone - Cellular	1,072.99	13,500.00	(12,427.01)	7.95 %
411602 - Local Phone & Internet	714.26	9,000.00	(8,285.74)	7.94 %
411605 - Director iPad Cell Service	0.00	100.00	(100.00)	0.00 %
Total Telephone Expense	1,787.25	22,600.00	(20,812.75)	7.91 %
Utilities				
411700 - Utilities Expense	831.20	13,000.00	(12,168.80)	6.39 %
Total Utilities	831.20	13,000.00	(12,168.80)	6.39 %
Total Administration Expenses	25,568.10	414,351.00	(388,782.90)	6.17 %
Information & Education Expenses				
Education				
420103 - Land & Range Judging Contest	0.00	1,000.00	(1,000.00)	0.00 %
420104 - Outdoor Classrooms	0.00	2,500.00	(2,500.00)	0.00 %

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

	Month Ending 07/31/2023 MTD Actual	Annual Budget June 30, 2024 FY2024	\$ Difference Annual Budget	Percentage Annual Budget
420106 - Miscellaneous Education Expense	0.00	500.00	(500.00)	0.00 %
420107 - Water Testing Event	0.00	500.00	(500.00)	0.00 %
420108 - Spring Conservation Sensation	0.00	3,500.00	(3,500.00)	0.00 %
420109 - Education Outreach	163.00	3,500.00	(3,337.00)	4.66 %
Total Education Information	163.00	11,500.00	(11,337.00)	1.42 %
420201 - Annual Report/Viaduct	5,740.52	14,000.00	(8,259.48)	41.00 %
420202 - Books And Pamphlets	0.00	500.00	(500.00)	0.00 %
420203 - Expositions And Display	250.00	2,000.00	(1,750.00)	12.50 %
420205 - Phrography, Cameras, Video	0.00	1,500.00	(1,500.00)	0.00 %
420206 - Soil & Water Stewardship Mat.	0.00	100.00	(100.00)	0.00 %
420208 - Miscellaneous	83.00	1,500.00	(1,417.00)	5.53 %
420209 - Ktic Ad	217.00	3,500.00	(3,283.00)	6.20 %
420211 - E-Ads	140.00	1,700.00	(1,560.00)	8.24 %
420212 - TV Promotion	499.00	3,500.00	(3,001.00)	14.26 %
420213 - Promotion Videos	0.00	3,000.00	(3,000.00)	0.00 %
Total Information	6,929.52	31,300.00	(24,370.48)	22.14 %
Scholarships and Grants				
420305 - Camp And Workshop Scholarships	0.00	3,000.00	(3,000.00)	0.00 %
420307 - Shell Crk Watershd Scholarship	0.00	3,000.00	(3,000.00)	0.00 %
420309 - Middle/High School Natural Resources Grant	0.00	1,000.00	(1,000.00)	0.00 %
Total Scholarships and Grants	0.00	7,000.00	(7,000.00)	0.00 %
Other				
420401 - Art Supplies	0.00	250.00	(250.00)	0.00 %
420402 - Cooperative Projects/Donations	0.00	500.00	(500.00)	0.00 %
420404 - Promotional Materials	0.00	4,000.00	(4,000.00)	0.00 %
420405 - Recognition Banquet & Awards	0.00	2,000.00	(2,000.00)	0.00 %
420407 - Cooperative Partnerships	0.00	1,000.00	(1,000.00)	0.00 %
420409 - N.American Envirothon	0.00	1,000.00	(1,000.00)	0.00 %
420410 - Continuing Ed - I&E Dept	0.00	500.00	(500.00)	0.00 %
Total Other	0.00	9,250.00	(9,250.00)	0.00 %
Total Information & Education Expenses	7,092.52	59,050.00	(51,957.48)	12.01 %
Operation & Maintenance				
Auto and Truck				
430101 - Auto & Truck Gas	2,441.16	25,000.00	(22,558.84)	9.76 %
430102 - Auto & Truck R&M	699.98	7,000.00	(6,300.02)	10.00 %
Total Auto and Truck	3,141.14	32,000.00	(28,858.86)	9.82 %
Building Maintenance				
430201 - Bldg Maintenance	24.54	3,500.00	(3,475.46)	0.70 %
430202 - Office Cleaning	440.00	6,100.00	(5,660.00)	7.21 %
430203 - Garbage Maintenance	83.44	1,200.00	(1,116.56)	6.95 %
Total Building Maintenance	547.98	10,800.00	(10,252.02)	5.07 %
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	291.78	6,000.00	(5,708.22)	4.86 %
430402 - Equipment Upkeep	546.55	12,000.00	(11,453.45)	4.55 %
430403 - Operation & Maintenance	551.21	166,000.00	(165,448.79)	0.33 %

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

	Month Ending 07/31/2023 MTD Actual	Annual Budget June 30, 2024 FY2024	\$ Difference Annual Budget	Percentage Annual Budget
430404 - Tree Supplies	0.00	250.00	(250.00)	0.00 %
430406 - Wanahoo Park Operation	1,317.01	60,000.00	(58,682.99)	2.20 %
430407 - Monitoring Wanahoo Dam	0.00	17,000.00	(17,000.00)	0.00 %
430408 - Wanahoo Rec Mgmt	6,269.89	55,000.00	(48,730.11)	11.40 %
430409 - Lake Wanahoo Education Building	543.00	10,000.00	(9,457.00)	5.43 %
Total Operation and Maintenance	9,519.44	326,250.00	(316,730.56)	2.92 %
Project Repairs				
430503 - Project Repairs - Other	0.00	1,000.00	(1,000.00)	0.00 %
430504 - Rawhide Channel Maintenance	0.00	2,000.00	(2,000.00)	0.00 %
Total Project Repairs	0.00	3,000.00	(3,000.00)	0.00 %
Steam Bank Stabilization				
430601 - Stream Bank - Perennial Streams	0.00	5,000.00	(5,000.00)	0.00 %
430602 - Stream Bank - Platte/Elkhorn Rivers	0.00	10,000.00	(10,000.00)	0.00 %
Total Steam Bank Stabilization	0.00	15,000.00	(15,000.00)	0.00 %
Wildlife Habitat Programs				
430701 - Wild Nebraska	0.00	50,000.00	(50,000.00)	0.00 %
Total Wildlife Habitat Programs	0.00	50,000.00	(50,000.00)	0.00 %
Other				
430801 - NRCS Flags	0.00	1,000.00	(1,000.00)	0.00 %
430802 - Stock For Resale - Trees	0.00	13,000.00	(13,000.00)	0.00 %
430803 - Lower Platte Weed Mgmt Area	0.00	30,000.00	(30,000.00)	0.00 %
430804 - O&M One-Call Services	7.35	50.00	(42.65)	14.70 %
430805 - IceJam Monitoring	0.00	500.00	(500.00)	0.00 %
Total Other	7.35	44,550.00	(44,542.65)	0.02 %
Total Operation & Maintenance	13,215.91	483,600.00	(470,384.09)	2.73 %
Personnel Expenses				
Director Expense				
440101 - Director Meeting Expense	953.95	18,000.00	(17,046.05)	5.30 %
440102 - Director Mileage Expense	0.00	17,000.00	(17,000.00)	0.00 %
440104 - Computer Stipend	0.00	5,700.00	(5,700.00)	0.00 %
Total Director Expense	953.95	40,700.00	(39,746.05)	2.34 %
Director Per Diem				
440200 - Director Per Diem	0.00	38,000.00	(38,000.00)	0.00 %
Total Director Per Diem	0.00	38,000.00	(38,000.00)	0.00 %
Employee Benefits				
440301 - Dental Insurance	1,810.06	24,000.00	(22,189.94)	7.54 %
440302 - Health Insurance	34,307.67	370,000.00	(335,692.33)	9.27 %
440303 - Retirement Benefit - 414H	2,829.57	75,000.00	(72,170.43)	3.77 %
440304 - Retirement Benefit - 457 Plan	0.00	4,000.00	(4,000.00)	0.00 %
440305 - Tuition Reimbursement	0.00	3,000.00	(3,000.00)	0.00 %
440306 - Workmans Comp Benefit	964.34	20,000.00	(19,035.66)	4.82 %
440307 - Employee Benefits - Other	(45.52)	2,500.00	(2,545.52)	(1.82) %
440309 - Flexible Spending Fee	22.50	300.00	(277.50)	7.50 %
440311 - Unemployment Insurance Benefit	0.00	5,000.00	(5,000.00)	0.00 %
440312 - Accrued Compensated Absences	0.00	10,000.00	(10,000.00)	0.00 %
Total Employee Benefits	39,888.62	513,800.00	(473,911.38)	7.76 %
Payroll Taxes				
440401 - FICA - ER	3,004.70	79,500.00	(76,495.30)	3.78 %
440402 - Medicare - ER	702.73	18,650.00	(17,947.27)	3.77 %

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

	Month Ending 07/31/2023 MTD Actual	Annual Budget June 30, 2024 FY2024	\$ Difference Annual Budget	Percentage Annual Budget
Total Payroll Taxes	3,707.43	98,150.00	(94,442.57)	3.78 %
Personnel Expense				
440501 - Personnel Meeting Exp	3,105.84	30,000.00	(26,894.16)	10.35 %
440502 - Personnel Mileage Exp	535.68	3,500.00	(2,964.32)	15.31 %
440503 - Safety Committee	0.00	1,000.00	(1,000.00)	0.00 %
440504 - Personnel Uniform Exp	39.98	2,500.00	(2,460.02)	1.60 %
440505 - Personnel Exp-Other	0.00	2,500.00	(2,500.00)	0.00 %
Total Personnel Expense	3,681.50	39,500.00	(35,818.50)	9.32 %
Salaries				
440601 - Salaries - Administration	9,411.42	244,000.00	(234,588.58)	3.86 %
440602 - Salaries - Clerical	1,129.02	29,500.00	(28,370.98)	3.83 %
440603 - Employee Recognition Program	0.00	1,300.00	(1,300.00)	0.00 %
440604 - Salaries - I & E	4,002.07	104,054.00	(100,051.93)	3.85 %
440605 - Salaries - Op & Maint	8,010.48	206,500.00	(198,489.52)	3.88 %
440606 - NRCS Support	29,972.75	216,500.00	(186,527.25)	13.84 %
440607 - Salaries - Projects	3,727.10	97,000.00	(93,272.90)	3.84 %
440608 - Salaries - Water	17,391.28	342,500.00	(325,108.72)	5.08 %
440611 - Salaries - Rural Water	0.00	5,000.00	(5,000.00)	0.00 %
440616 - Lake Wanhoo Park Op.	6,904.61	100,000.00	(93,095.39)	6.90 %
Total Salaries	80,548.73	1,346,354.00	(1,265,805.27)	5.98 %
Total Personnel Expenses	128,780.23	2,076,504.00	(1,947,723.77)	6.20 %
Projects Expenses				
Inter-Governmental				
450110 - Platte Center Bank Stab. Phase LI	0.00	5,000.00	(5,000.00)	0.00 %
450114 - Trails	0.00	15,000.00	(15,000.00)	0.00 %
450115 - Dike & Drainage Assistance	0.00	5,000.00	(5,000.00)	0.00 %
450119 - JWMAB Dodge Co	20,210.00	186,500.00	(166,290.00)	10.84 %
450123 - Hazard Mitigation Update	0.00	75,000.00	(75,000.00)	0.00 %
Total Inter-Governmental	20,210.00	286,500.00	(266,290.00)	7.05 %
Special Projects				
450305 - Special Projects-Other	0.00	31,500.00	(31,500.00)	0.00 %
450309 - SA No-Till Conf/Shell Creek	0.00	1,000.00	(1,000.00)	0.00 %
Total Special Projects	0.00	32,500.00	(32,500.00)	0.00 %
Wanhoo				
450506 - Lake Level Mgmt Plan	0.00	50,000.00	(50,000.00)	0.00 %
450509 - Wanhoo - Other	0.00	5,000.00	(5,000.00)	0.00 %
Total Wanhoo	0.00	55,000.00	(55,000.00)	0.00 %
Other Projects				
450705 - Schuyler 205	0.00	13,000.00	(13,000.00)	0.00 %
450711 - Bailey Levee	0.00	58,200.00	(58,200.00)	0.00 %
Total Other Projects	0.00	71,200.00	(71,200.00)	0.00 %
Platte River Corridor Alliance				
411101 - PRCA - Administration	0.00	1,000.00	(1,000.00)	0.00 %
411129 - USGS Monitoring at Leshara	0.00	5,320.00	(5,320.00)	0.00 %
Total Platte River Corridor Alliance	0.00	6,320.00	(6,320.00)	0.00 %
Total Projects Expenses	20,210.00	451,520.00	(431,310.00)	4.48 %
Water Expenses				
Groundwater Management Plan				
460101 - GWMP - Cost - Share	1,184.00	15,000.00	(13,816.00)	7.89 %

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

	Month Ending 07/31/2023 <small>MTD Actual</small>	Annual Budget June 30, 2024 <small>FY2024</small>	\$ Difference Annual Budget	Percentage Annual Budget
460102 - GWMP - Information & Education	0.00	1,000.00	(1,000.00)	0.00 %
460103 - GWMP - Nitrogen Classes	0.00	3,000.00	(3,000.00)	0.00 %
460104 - GWMP - Permits	0.00	100.00	(100.00)	0.00 %
460110 - Basin Wide Water Plan	0.00	10,000.00	(10,000.00)	0.00 %
460111 - Flow Meter Maintenance	0.00	24,000.00	(24,000.00)	0.00 %
Total Groundwater Management Plan	1,184.00	53,100.00	(51,916.00)	2.23 %
Groundwater Programs				
460201 - Decommissioned Wells	0.00	19,000.00	(19,000.00)	0.00 %
460203 - GW Levels	0.00	1,000.00	(1,000.00)	0.00 %
460204 - GW Quality Program	2,661.21	15,000.00	(12,338.79)	17.74 %
460205 - Mead - NOP	0.00	100.00	(100.00)	0.00 %
460206 - Monitoring Wells	834.51	25,000.00	(24,165.49)	3.34 %
460209 - Groundwater Programs Other	0.00	3,000.00	(3,000.00)	0.00 %
460212 - GW Monitoring Equip SQS#2	0.00	250.00	(250.00)	0.00 %
460213 - GW Memberships and Subscriptions	657.50	8,400.00	(7,742.50)	7.83 %
Total Groundwater Programs	4,153.22	71,750.00	(67,596.78)	5.79 %
Regulatory				
460301 - Chemigation	293.08	1,000.00	(706.92)	29.31 %
460302 - Irrigation Runoff	0.00	750.00	(750.00)	0.00 %
Total Regulatory	293.08	1,750.00	(1,456.92)	16.75 %
Surface Water Programs				
460403 - Stream Flow	0.00	17,800.00	(17,800.00)	0.00 %
Total Surface Water Programs	0.00	17,800.00	(17,800.00)	0.00 %
Special Projects				
460503 - Special Projects - Other	0.00	5,000.00	(5,000.00)	0.00 %
460504 - ENWRA	2,500.00	32,000.00	(29,500.00)	7.81 %
460519 - Hydrological Study	5,268.75	290,000.00	(284,731.25)	1.82 %
460520 - NET Grant	0.00	70,000.00	(70,000.00)	0.00 %
460521 - Lower Platte Consortium	0.00	250.00	(250.00)	0.00 %
Total Special Projects	7,768.75	397,250.00	(389,481.25)	1.96 %
Land Treatment				
450201 - Ne Buffer Strip	0.00	51,000.00	(51,000.00)	0.00 %
450204 - Shell Creek	0.00	20,000.00	(20,000.00)	0.00 %
450206 - Emergency Terrace Repair	0.00	5,000.00	(5,000.00)	0.00 %
450207 - Nswcp Supplement	0.00	25,000.00	(25,000.00)	0.00 %
450211 - Trees	0.00	3,000.00	(3,000.00)	0.00 %
450802 - Wahoo Creek Watershed Plan-319	0.00	30,000.00	(30,000.00)	0.00 %
450803 - Shell Creek Watershed Plan 319	1,991.53	120,000.00	(118,008.47)	1.66 %
450805 - Shell Creek Phase I (New)	0.00	100,000.00	(100,000.00)	0.00 %
450807 - Wahoo Creek Phase II	0.00	20,000.00	(20,000.00)	0.00 %
450809 - Sand Creek Dams-Conservation	0.00	50,000.00	(50,000.00)	0.00 %
Total Land Treatment	1,991.53	424,000.00	(422,008.47)	0.47 %
Total Water Expenses	15,390.58	965,650.00	(950,259.42)	1.59 %
Total Expenses	210,257.34	4,450,675.00	(4,240,417.66)	4.72 %
Total Change in Net Position	(65,702.24)	4,890,933.00	(4,956,635.24)	(1.34) %

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

	Month Ending 07/31/2023 <small>MTD Actual</small>	Annual Budget June 30, 2024 <small>FY2024</small>	\$ Difference Annual Budget	Percentage Annual Budget
Change in Net Position				
Rural Water Income				
304240 - Water Sales	3,783.50	44,000.00	(40,216.50)	8.60 %
304261 - Other Revenue	3.10	2,000.00	(1,996.90)	0.16 %
Total Rural Water Income	3,786.60	46,000.00	(42,213.40)	8.23 %
Rural Water District Expenses				
570201 - Water Purchase	2,288.45	16,000.00	(13,711.55)	14.30 %
570204 - Testing	15.00	600.00	(585.00)	2.50 %
570206 - Repair	0.00	1,000.00	(1,000.00)	0.00 %
570207 - Other Expenses	0.00	680.00	(680.00)	0.00 %
570208 - Lpnrnd Adm. Fee	189.18	2,200.00	(2,010.82)	8.60 %
570210 - Health/Life/Vision/LTD - ER	215.39	2,600.00	(2,384.61)	8.28 %
570211 - Dental - ER	23.86	300.00	(276.14)	7.95 %
570212 - 414H ER Contributions	59.64	800.00	(740.36)	7.46 %
570215 - ER Social Security Tax	54.47	1,080.00	(1,025.53)	5.04 %
570216 - ER Medicare Tax	12.74	260.00	(247.26)	4.90 %
570217 - Salaries	159.19	10,000.00	(9,840.81)	1.59 %
570219 - Fees And Licenses	17.13	640.00	(622.87)	2.68 %
570220 - Rural Water One-Call	0.92	50.00	(49.08)	1.84 %
570221 - Rural Water Hand Tools & Supplies	0.00	200.00	(200.00)	0.00 %
570222 - RW Dues And Memberships	0.00	80.00	(80.00)	0.00 %
570223 - Rural Water Gasoline	120.48	800.00	(679.52)	15.06 %
570224 - Rural Water Personnel Meeting	0.00	400.00	(400.00)	0.00 %
570230 - Rural Water Equipment Rental	0.00	1,000.00	(1,000.00)	0.00 %
570231 - Rural Water Equipment Upkeep	188.04	1,000.00	(811.96)	18.80 %
570232 - Rural Water Compensated Absences	0.00	400.00	(400.00)	0.00 %
Total Rural Water District Expenses	3,344.49	40,090.00	(36,745.51)	8.34 %
Total Change in Net Position	442.11	5,910.00	(5,467.89)	7.48 %

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

	Month Ending 07/31/2023 <small>MTD Actual</small>	Annual Budget June 30, 2024 <small>FY2024</small>	\$ Difference Annual Budget	Percentage Annual Budget
Change in Net Position				
Rural Water Income				
304240 - Water Sales	4,768.76	66,000.00	(61,231.24)	7.23 %
304275 - Colon Hook Up Fees	0.00	3,000.00	(3,000.00)	0.00 %
304295 - Colon Sewer Fees	2,457.00	30,000.00	(27,543.00)	8.19 %
304261 - Other Revenue	193.56	3,000.00	(2,806.44)	6.45 %
Total Rural Water Income	7,419.32	102,000.00	(94,580.68)	7.27 %
Investment Income				
304350 - Colon RW Interest - NPAIT	38.60	320.00	(281.40)	12.06 %
Total Investment Income	38.60	320.00	(281.40)	12.06 %
Rural Water District Expenses				
570201 - Water Purchase	1,330.19	24,000.00	(22,669.81)	5.54 %
570204 - Testing	15.00	900.00	(885.00)	1.67 %
570206 - Repair	0.00	3,000.00	(3,000.00)	0.00 %
570207 - Other Expenses	0.00	1,020.00	(1,020.00)	0.00 %
570208 - Lpnnrd Adm. Fee	238.44	3,300.00	(3,061.56)	7.23 %
570210 - Health/Life/Vision/LTD - ER	323.08	3,900.00	(3,576.92)	8.28 %
570211 - Dental - ER	35.79	450.00	(414.21)	7.95 %
570212 - 414H ER Contributions	89.46	1,200.00	(1,110.54)	7.46 %
570215 - ER Social Security Tax	80.53	1,620.00	(1,539.47)	4.97 %
570216 - ER Medicare Tax	18.83	390.00	(371.17)	4.83 %
570217 - Salaries	257.39	15,000.00	(14,742.61)	1.72 %
570219 - Fees And Licenses	25.68	960.00	(934.32)	2.68 %
570220 - Rural Water One-Call	6.43	75.00	(68.57)	8.57 %
570221 - Rural Water Hand Tools & Supplies	0.00	300.00	(300.00)	0.00 %
570222 - RW Dues And Memberships	0.00	120.00	(120.00)	0.00 %
570223 - Rural Water Gasoline	35.85	1,200.00	(1,164.15)	2.99 %
570224 - Rural Water Personnel Meeting	0.00	600.00	(600.00)	0.00 %
570230 - Rural Water Equipment Rental	0.00	1,500.00	(1,500.00)	0.00 %
570231 - Rural Water Equipment Upkeep	282.07	1,500.00	(1,217.93)	18.80 %
570232 - Rural Water Compensated Absences	0.00	600.00	(600.00)	0.00 %
570305 - Colon - Annual Bond Payment	0.00	3,355.00	(3,355.00)	0.00 %
570308 - Colon Meter House Expense	81.48	1,250.00	(1,168.52)	6.52 %
570309 - Colon Sewer Collections	2,457.00	30,000.00	(27,543.00)	8.19 %
570330 - Colon RW Bad Debt Expense	0.00	1,000.00	(1,000.00)	0.00 %
Total Rural Water District Expenses	5,277.22	97,240.00	(91,962.78)	5.43 %
Total Change in Net Position	2,180.70	5,080.00	(2,899.30)	42.93 %

Lower Platte North NRD

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

	<u>Year To Date</u> <u>6/30/2024</u> <i>Actual</i>	<u>Year Ending</u> <u>6/30/2024</u> <i>Budget</i>	<u>\$ Difference</u> <u>Annual Budget</u>	<u>Percentage</u> <u>Annual Budget</u>
Capital Improvements - Real Property				
Wahoo Creek Design RCPP (Olsson-WFPO/JEDI Const & Land Rights)	3,419.04	2,000,000.00	(1,996,580.96)	0.00%
Wahoo Creek Planning - FYRA - Watershed Plan	0.00	0.00	0.00	0.00%
Wahoo Creek 7 Additional Dams	60,140.04	123,900.00	(63,759.96)	0.00%
Office Remodel/New Office Drawings	7,875.00	500,000.00	(492,125.00)	0.00%
Wanahoo Stilling Basin Concrete Overlay	0.00	0.00	0.00	0.00%
Wanahoo Fish Cleaning Station/Road Paving	0.00	80,000.00	(80,000.00)	0.00%
Wanahoo Marina/General Store	0.00	90,000.00	(90,000.00)	0.00%
District Wide Flood Reduction Sinking Fund	0.00	400,000.00	(400,000.00)	0.00%
JWMAB Sinking Fund	0.00	440,000.00	(440,000.00)	100.00%
Total Capital Improvements - Real Property	71,434.08	3,633,900.00	(3,562,465.92)	1.97%
Capital Outlay				
Machinery & Equipment (Tractor JD 6155 w/duals, Mini Excavator, Batwing 15' Shredder, Trailer)	9,750.00	288,000.00	(278,250.00)	0.00%
Auto and Trucks (1 Ton Truck, Replacement Vehicle)	0.00	93,000.00	(93,000.00)	0.00%
Computer Equipment (server)	0.00	11,000.00	(11,000.00)	0.00%
Phoenix Data Base	0.00	20,000.00	(20,000.00)	0.00%
Flow Meter/UNL chemigation Project	0.00	31,700.00	(31,700.00)	0.00%
Monitoring Well Equipment (In-Situ)	0.00	95,000.00	(95,000.00)	0.00%
Other Capital Outlay - Equipment	0.00	0.00	0.00	0.00%
Total Capital Outlay	9,750.00	538,700.00	(528,950.00)	0.00%
Debt Service Payments				
Colon RW Note	0.00	3,355.00	(3,355.00)	0.00%
Total Debt Service Payments	0.00	3,355.00	(3,355.00)	0.00%
 Grand Total All Expenses w/o Depreciation	 300,063.13	 8,763,960.00	 (8,463,896.87)	 3.42%

Week #1

Lower Platte North NRD Time Sheet

Name Eric Gottschalk

Period Covered 7/29/23 to 8/4/23

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	7/29								
Sun	7/30								
Mon	7/31	7:30 am 11:30 am	10:00 am 12:30 pm	8.50		Leadership team meeting, Budget, District mgt. Time sheets			
		1:30 pm 7:00 pm	5:15 pm 8:15 pm						
Tues	8/1	7:45 am 1:45 pm	12:45 pm 5:00 pm	8.25		Time sheets, Personnel, Budget, Wahoo Creek - Land rights meeting			
Wed	8/2	7:30 am 1:30 pm 5:30 pm	12:45 pm 4:00 pm 8:30 pm	10.75		Wahoo Creek follow-up Budget, Committee prep			
Thurs	8/3	7:30 am 1:45 pm	12:45 pm 5:00 pm	8.50		Projects Committee, Operations Committee, Exec. Committee, Committee follow-up, Budget, Personnel			
Fri	8/4	7:45 am 1:45 pm	12:45 pm 4:30 pm	7.75		Committee follow-up, District mgt, Budget update/review Budget workshop prep			
Week #1 Totals				43.75	0		0	\$0.00	\$0.00

Supervisor Manager Assistant Manager _____ Treasurer _____

Date 8/14/23 Date _____ Date _____ Date _____

I CERTIFY THAT THE ABOVE INFORMATION IS CORRECT



Signature of person filing form

8/14/23

Date

Expenses

Mileage x 0.655	\$ 0.00
Meals	\$0.00
Other Exp.	\$0.00
Total	\$ 0.00

Week #2

Lower Platte North NRD Time Sheet

Name Eric Gottschalk

Period Covered 8/5/23 to 8/11/23

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	8/5								
Sun	8/6								
Mon	8/7	7:30 am 1:45 pm 4:45 pm	1:15 pm 3:30 pm 9:15 pm	12.00		Leadership Team meeting, Budget, Budget workshop prep, Budget Workshop			
Tues	8/8	7:45 am 1:30 pm	12:30 pm 3:45 pm	7.00		Budget follow-up, District mgt, Wahoo Creek, FEMA planning			
Wed	8/9	7:45 am 1:45 pm	12:45 pm 3:45 pm	7.00		Wanahoo planning, Budget, State Budget preliminary,			
Thurs	8/10	7:30 am 1:45 pm	12:45 pm 3:45 pm	7.25		Departmental reviews, Fiscal year planning, Wanahoo receipts/envelopes, Budget			
Fri	8/11				3.00	Out 3.0 A.L.			
Week #2 Totals				33.25	3		0	\$0.00	\$0.00
Totals Week #1				43.75	0		0	\$0.00	\$0.00
Two Week Totals				77	3		0	\$0.00	\$0.00

Annual Leave & Sick Leave

	Previous Balance	Earned This Pay Period	Used This Pay Period	New Balance
Annual Leave	191.00	8.00	3.00	196.00
Sick Leave	776.00	4.00	0.00	780.00

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RESET FORM

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

#	Program Areas	Hours
11	Administration	31.00
14	District Management	42.00
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	
Holiday		
1	Annual Leave	3.00
2	Sick Leave	
Other		

Total: 80

Week #1

Lower Platte North NRD Time Sheet

Name Eric Gottschalk

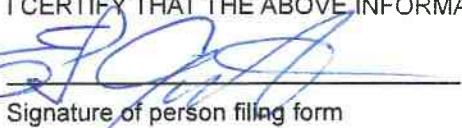
Period Covered 8/12/23 to 8/18/23

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	8/12	2:30 pm	6:00 pm	3.50		Wanahoo Park - Guard Shack			
Sun	8/13								
Mon	8/14	7:30 am 1:00 pm	11:30 am 9:00 pm	12.00		Leadership Team meeting, Board meeting prep, Budget Hearing prep, Budget, Budget Hearing, Board meeting			
Tues	8/15	7:45 am 1:30 pm	12:45 pm 4:00 pm	7.50		Staff meeting, County Supervisor's meeting, Board meeting follow-up, Budget, Time sheets			
Wed	8/16	7:45 am 1:30 pm 5:10 pm	12:15 pm 4:00 pm 5:40 pm	7.50		Mail, Time sheets, County valuations, Pay bills, Personnel			
Thurs	8/17	7:45 am 2:00 pm 5:15 pm	1:00 pm 3:45 pm 6:00 pm	7.75		Personnel, Cottonwood 21-A, Wahoo Creek, Visa bills			
Fri	8/18	7:45 am 2:00 pm	12:45 pm 3:15 pm	6.25		District mgt, Wanahoo deposits, trails evaluation, envelopes			
Week #1 Totals				44.5	0		0	\$0.00	\$0.00

Supervisor Manager Assistant Manager _____ Treasurer _____

Date 8/29/23 Date _____ Date _____ Date _____

I CERTIFY THAT THE ABOVE INFORMATION IS CORRECT

 Signature of person filing form 8/29/23
 Date

Expenses

Mileage x 0.655	\$ 0.00
Meals	\$0.00
Other Exp.	\$0.00
Total	\$ 0.00

Week #2

Lower Platte North NRD Time Sheet

Name Eric Gottschalk

Period Covered 8/19/23 to 8/25/23

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	8/19								
Sun	8/20								
Mon	8/21	7:30 am	12:45 pm	5.25		Leadership team meeting, Wahoo Creek, County valuations,			
Tues	8/22	8:00 am 1:45 pm	12:45 pm 5:00 pm	8.00		County Valuations, Levy calculations, State Budget, Long Range plan			
Wed	8/23	8:00 am 1:30 pm	12:45 pm 5:15 pm	8.50		Budget, JEO - Wahoo sewer extension project, Long range plan,			
Thurs	8/24	8:00 am 1:45 pm	12:45 pm 4:45 pm	7.75		Wahoo Creek road closure discussions, Personnel, Budget,			
Fri	8/25	8:00 am 1:45 pm	12:30 pm 3:15 pm	6.00		Levy/Budget, O&M position, District mgt. Wanahoo budget			
Week #2 Totals				35.5	0		0	\$0.00	\$0.00
Totals Week #1				44.5	0		0	\$0.00	\$0.00
Two Week Totals				80	0		0	\$0.00	\$0.00

Annual Leave & Sick Leave

	Previous Balance	Earned This Pay Period	Used This Pay Period	New Balance
Annual Leave	196.00	8.00		204.00
Sick Leave	780.00	4.00		784.00

184

188

RESET FORM

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

#	Program Areas	Hours
11	Administration	31.50
14	District Management	40.00
15	Personnel	6.50
31	I&E Administration	
41	O&M Administration	
51	Projects Administration	2.00
61	Water Administration	
71	Rural Water Administration	
52	Conservation Program	
Holiday		
1	Annual Leave	0.00
2	Sick Leave	0.00
Other		

Total: 80

Lower Platte North Natural Resources District
 Accounts Receivable Aging Summary as of 7/31/23

Accounts Receivable acct 105000

Customer	Invoice/Purpose	Current	0-30 Days	31-60 Days	61 and Over	Totals
Bruno/David City RW Customers	Multiple	3726.72	0.00	0.00	0.00	3,726.72
Colon RW Customers	Multiple	8025.29	0.00	0.00	0.00	8,025.29
Department of Natural Resources	FYRA - Wahoo Creek WS Plan/EA & WSF	0.00	0.00	0.00	3,168.00	3,168.00
	Olsson - Water Sustainability Fund	0.00	0.00	0.00	100,828.37	100,828.37
	Olsson - Wahoo Creek WS Plan - 3 Dam Sites	0.00	0.00	0.00	11,560.31	11,560.31
	Hydrological Study - Baumert	0.00	600.00	0.00	0.00	600.00
FEMA	FYRA - Lake Wanahoo Stilling Basin	0.00	0.00	0.00	288,157.64	288,157.64
	Valley Corp - Stilling Basin Rehab	0.00	0.00	0.00	1,261,963.55	1,261,963.55
	General Excavating - Wanahoo Stilling Basin Rehab	0.00	0.00	0.00	13,923.75	13,923.75
	ME Collins - Wanahoo Stilling Basin Rehab	0.00	0.00	0.00	407,470.91	407,470.91
	Rezac Seed - Stilling Basin Rehab	0.00	0.00	0.00	225.09	225.09
	Bobcat of Omaha - 428 Funds	0.00	0.00	69,183.74	25,953.05	95,136.79
	O&M - Ty's Outdoor Power	0.00	0.00	0.00	864.48	864.48
	TelePole Prunner - Ty's Outdoor Power	0.00	0.00	0.00	605.62	605.62
	Elway Power Sports of Lincoln	0.00	0.00	0.00	17,822.29	17,822.29
	Platte Valley Equipment - 428 Funds - Mower	0.00	0.00	23,146.84	0.00	23,146.84
	UBT Visa - 428 Funds (captial outlay small items)	0.00	0.00	1,037.83	0.00	1,037.83
Flow Meter Maintenance Reimbursement	Tri City Meters	0.00	0.00	1,656.00	0.00	1,656.00
JEDI	Olsson - Wahoo Creek WS & 7 Dam Sites Phase II	10,684.06	10,367.49	4,963.28	57,859.28	83,874.11
	Olsson - Wahoo Creek WS - 3 Dam Sites	2,959.26	3,552.42	7,306.09	49,609.93	63,427.70
	Olsson - Wahoo Creek WS Planning - Prof Svc	0.00	0.00	0.00	7,680.58	7,680.58
	Olsson - Wahoo Creek Real Estate Services	459.78	8,874.72	0.00	8,002.19	17,336.69
	Houston Engineering - Wahoo Creek WS Planning	0.00	0.00	0.00	2,358.75	2,358.75
JWMAB	Dodge Co - Fremont - PMRNRD	15,157.50	0.00	0.00	0.00	15,157.50
NET	Shell Creek NET - Travel Stipend - Miller (65)/Seier (65)/Newman Grove Pub Schools (0.00	0.00	0.00	208.93	208.93
	Shell Creek Testing Supplies - Forestry Suppliers	0.00	0.00	0.00	267.80	267.80
	Shell Creek - UBT Visa (April-957.50/July-550)	550.00	0.00	0.00	957.50	1,507.50
	Forestry Suppliers - Sampling Supplies	0.00	0.00	0.00	154.40	154.40
	UBT Visa - Shell Creek WS Plan	0.00	0.00	0.00	186.95	186.95
	SWCS Registration - Chapman	0.00	1,000.00	0.00	0.00	1,000.00
	Shell Creek NET - Bos Payroll	0.00	8,310.59	0.00	0.00	8,310.59
NRCS WFPO	Olsson Assoc - Wahoo Creek WS & Dam Sites Phase II	49,455.98	85,204.00	62,860.74	273,761.12	471,281.84
NRD	NRCS Wage Reimbursement (UBBNRD/Lower Elkhorn/LPSNRD)	0.00	0.00	0.00	0.00	0.00
NRD Employees	Flu Shot Reimbursement - Gottschalk	0.00	0.00	0.00	0.00	0.00
NRD Directors	Rivalry - Reimbursement - Lawrence (20), Olson (5)	0.00	0.00	0.00	20.00	20.00
Water Sustainability Fund	LRE Water	3,161.25	4,360.05	6,507.30	6,214.44	20,243.04
USACE	Sand Creek/Wanahoo project close-out (detail below)	0.00	0.00	0.00	0.00	0.00
		94,179.84	122,269.27	176,661.82	2,539,824.93	2,932,935.86

NE Dept of Natural Resources and USACE - reclassified from long-term to current receivable as of 6/30/22, included in schedule above

Customer	Invoice	Current	0-30 Days	31-60 Days	61 and Over	Totals	
USACE (Sand Creek/Wanahoo)	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)		
	1/21/21 - Deposit US Treasury - Wanahoo COE A/R				(747.30)		
	2/28/21 - To close out Long Term A/P				(4,694,072.08)		
	2/28/21 - Adjust to Final Refund Due Amount				(110,004.16)		
					114,892.33	114,892.33	
		Totals	0.00	0.00	0.00	114,892.33	114,892.33

NOTICE OF BUDGET HEARING AND BUDGET SUMMARY

PUBLIC NOTICE is hereby given, in compliance with the provisions of State Statute Sections 13-501 to 13-513, that the governing body will meet on the 14 day of August 2023, at 5:00 o'clock pm, at Lower Platte North NRD for the purpose of hearing support, opposition, criticism, suggestions or observations of taxpayers relating to the following proposed budget. The budget detail is available at the office of the Clerk during regular business hours.

2021-2022 Actual Disbursements & Transfers	\$ 8,217,366.00
2022-2023 Actual Disbursements & Transfers	\$ 8,177,580.00
2023-2024 Proposed Budget of Disbursements & Transfers	\$ 8,702,755.00
2023-2024 Necessary Cash Reserve	\$ 2,186,394.67
2023-2024 Total Resources Available	\$ 10,889,149.67
Total 2023-2024 Personal & Real Property Tax Requirement	\$ 3,480,714.52
Unused Budget Authority Created For Next Year	\$ 1,275,054.30
Breakdown of Property Tax:	
Personal and Real Property Tax Required for Non-Bond Purposes	\$ 3,480,714.52
Personal and Real Property Tax Required for Bonds	\$ -

NOTICE OF SPECIAL HEARING TO SET FINAL TAX REQUEST

PUBLIC NOTICE is hereby given, in compliance with the provisions of State Statute Section 77-1632, that the governing body will meet on the 11 day of September 2023, at 5:00 o'clock pm, at Lower Platte North NRD for the purpose of hearing support, opposition, criticism, suggestions or observations of taxpayers relating to setting the final tax request.

	2022	2023	Change
Operating Budget	8,177,580.00	8,702,755.00	6%
Property Tax Request	\$ 3,480,714.00	\$ 3,480,714.52	0%
Valuation	11,083,737,004	12,148,414,780	10%
Tax Rate	0.031404	0.028652	-9%
Tax Rate if Prior Tax Request was at Current Valuation	0.028652		

VARIANCE REQUESTS

Variance requests for new and expanded irrigated acres in Restricted Development Areas and Non-Hydrologically Connected Areas are due by **August 15**. Hydrologically Connected Areas are due by **September 15**. For more information visit lpnnrd.org or call 402-443-4675.



LOWER PLATTE NORTH
Natural Resources District

VARIANCE REQUESTS

Variance requests for new and expanded irrigated acres in Restricted Development Areas and Non-Hydrologically Connected Areas are due by **August 15**. Hydrologically Connected Areas are due by **September 15**. For more information visit lpnrd.org or call 402-443-4675.



LOWER PLATTE NORTH
Natural Resources District

Environmental Education Opportunities

Hands-on sessions for students
in wildlife, forestry, soil and more!

Visit lpnnrd.org/education or
call the NRD at 443-4675
for availability.



LOWER PLATTE NORTH
Natural Resources District

Environmental Education Opportunities

Hands-on sessions for students in wildlife, forestry, water, soil and more!

Visit lpnnrd.org/education or call the NRD at 402-443-4675 for availability.





LOWER PLATTE NORTH
Natural Resources District

LONG RANGE IMPLEMENTATION PLAN

Fiscal Year 2024

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Introduction

The Lower Platte North Natural Resources District (LPNNRD) is one of 23 Natural Resources Districts created in 1969 with the passage of LB 1357 by the Nebraska Unicameral. Since its formation in 1972, the LPNNRD has been assisting people in the Lower Platte River Basin in the development and protection of our soil and water resources. Nebraska Statutes require that Natural Resources Districts develop a Long Range Implementation Plan. The purpose of this plan is to summarize accomplishments during fiscal year 2022 (July 1, 2022 to June 30, 2023) and planned District activities for fiscal year 2023. There are also objectives for a five-year period from fiscal years 2024 to 2028. The plan serves as an implementation tool of the district’s Master Plan, which is updated every ten years.

This Long Range Implementation Plan was approved by the LPNNRD Board of Directors on September 11, 2023.

Authority and Responsibilities

The Natural Resources Districts have been given statutory responsibility outlined in Sections 2-3229, R.R.S. 1943. In this section it states that “The purposes of the Natural Resources Districts shall be to develop and execute, through the exercise of powers and authorities contained in this act, plans, facilities, works and programs relating to: (1) erosion prevention and control, (2) prevention of damages from flood water and sediment, (3) flood prevention and control, (4) soil conservation, (5) water supply for any beneficial uses, (6) development, management, utilization, and conservation of groundwater and surface water, (7) pollution control, (8) solid waste disposal and sanitary drainage, (9) drainage improvement and channel rectification, (10) development and management of fish and wildlife habitat, (11)

development and management of recreational and park facilities, and (12) forestry and range management.”

Lower Platte North NRD programs and projects are available to meet the goal of properly developing our water and related land resources.

Description of the District

The Lower Platte North Natural Resources District is located in the Lower Platte River Basin in eastern Nebraska and includes 1,031,000 acres of land. A portion of Saunders, Butler, Platte, Dodge, Colfax, Boone, and Madison Counties are within the district (see Appendix A), which includes twenty-eight cities, towns, and villages. Besides the Platte River, other notable tributaries in the district include: Bone Creek, Clear Creek, Duck Creek, Elm Creek, Loseke Creek, Rawhide Creek, Sand Creek, Shell Creek, Silver Creek, Skull Creek, Taylor Creek, and Wahoo Creek.

The population of the district is approximately 65,000, of which about half is rural and half urban. The Lower Platte North NRD is financed by a tax levy which may be up to four and one-half cents per \$100 valuation for general purposes and another one cent for water programs. The FY 2024 tax levy is 0.028652 cents per \$100 valuation.

Governing Body

The Lower Platte North Natural Resources District (LPNNRD) is governed by a 19-member Board of Directors. The directors are elected at the general election for a term of four years, with half of the members up for election every two years.

The district is divided into nine (9) subdistricts. Two board members are elected from each of the nine subdistricts, and one board member is elected at large every four years.



The district operates by a set of bylaws which are kept on file at the district headquarters at Wahoo, Nebraska.

FY 2023 Platte River Basin Activities

One of the great natural resources of Nebraska is the Platte River. It is the feature that attracted early settlers to our state and guided the wagon trails. Today, we look at the Platte River differently. It is a water source for agriculture and cities like Fremont, Lincoln, and Omaha, a haven for wildlife, and a place for recreation. Issues surrounding the Platte are a top priority at the LPNNRD, since approximately 72 miles of the river flow directly through, or border, the district.

Ice Jam Agreement

In 1994, the LPNNRD entered into an agreement with the Papio-Missouri River NRD, Lower Platte South NRD, and Cass, Douglas, Sarpy and Saunders Counties to more effectively deal with ice jams and their resulting flood damages along the Lower Platte River. This area of concern is primarily from Fremont, Nebraska to the mouth of the Platte River. This group has pooled funds of \$150,000 to retain a contractor to use explosives when needed, to remove ice jams in a timely manner.

During the winter of 2022-2023, there were no ice issues of concern on the lower Platte River.

Rock & Jetty Program

This program was developed to offer cost-share assistance to landowners to construct erosion control devices for stream bank stabilization and to assist Dike and Drainage Districts with maintenance of dikes along the Platte and Elkhorn rivers and perennial streams. In FY22, \$20,000 is budgeted for projects on rivers & streams. We assisted two landowners on maintenance projects in FY 22-23 at a cost of \$5,427.

FY 2024 Platte River Basin Objectives

- Administer \$20,000 in the Rock & Jetty Program to assist with priority stream bank stabilization for cooperators on the Platte and Elkhorn Rivers and Perennial streams. This includes assisting cooperators with meeting the regulations of the Clean Water Act through section 404 permits.
- As a member of the Joint Water Management Advisory Board, provide leadership and assistance to move forward with exploring flood reduction solutions within Dodge County.
- Support the Lower Platte Weed Management Area financially and technically in controlling noxious and invasive weeds.
- Support the Nebraska Land Trust in acquiring easements for the protection and preservation of quality lands.
- Support the Lower Platte River Corridor Alliance by becoming an active voting member.

FY 2025-2029 Long Range Platte River Basin Objectives

- Continue to budget cost-share funds for priority bank stabilization along the Platte and Elkhorn rivers and other perennial streams in the district.
- Continue to be an active member on the Joint Water Management Advisory Board.
- Promote riparian buffer zones along the Platte River and other perennial streams.
- Continue to explore new, innovative and cost-effective ways to protect against stream bank erosion.
- Provide education on stream bank protection and regulations.
- Support and budget annually, as needed, for the Ice Jam Agreement Fund.
- Keep up to date on Clean Water Act and Endangered Species Act regulations.

- Continue to participate with the City of Fremont and Dodge County to study potential nonstructural measures to reduce flooding and economic losses from the Lower Platte River.
- Work with the City of Schuyler as they evaluate the need for future federal funding for completing structural and non-structural approaches to reduce flooding and economic losses from the Platte River through the LPNNRD District-Wide Hazard Mitigation Plan.
- Encourage cities and counties to initiate floodplain management planning to promote wise floodplain development.
- Assist dike and drainage districts within the LPNNRD to properly repair and maintain levy projects.
- Budget annually as needed to support the Lower Platte Weed Management group in controlling noxious weeds.
- Continue to support the Lower Platte River Corridor Alliance as an active voting member.



One of the Lower Platte North NRD's major responsibilities is to conserve and protect our ground and surface water resources. To accomplish this goal, the Lower Platte North continues to participate in water quality studies, ground water level monitoring, and water resource educational activities.

FY 2023 Ground & Surface Water Activities

Ground Water Management Area

LPNNRD implemented a District-wide Groundwater Management Area (GWMA) on January 1, 1997, to address both water quality and quantity concerns. This action was based on data gathered since 1985 indicating where groundwater quality conditions have deteriorated beyond those established as health standards, such as nitrate nitrogen. On that date, groundwater quality Phase I (education) regulations became effective for the entire District.

One primary rule in Phase I requires certification for fertilizer and water use. The District has developed a groundwater program emphasizing a protection-based approach rather than a reactive, corrective approach. Since that time, advanced Phase areas have been determined by trigger levels listed in the rules and regulations of the GWMA. The District has two Phase groundwater quality control areas, those being Bellwood and Richland/Schuyler. The Bellwood Phase 2 Area was established in 2003 and presently covers approximately 30 square miles in the western portion of the Platte Valley in Butler County and includes the town of Bellwood. In 2015 nitrate levels decreased to a point that the trigger levels were not being achieved, so this area was decreased to 20 square miles. The Richland/Schuyler Phase 2 Area was established in 2004. In 2015 this area was raised to Phase 3 because of the rising nitrate levels. This area covers approximately

55 square miles in the Platte Valley of Colfax County and includes the towns of Richland and Schuyler. In 2015, 10 additional sections north of the Richland/Schuyler Area became a Phase 2 area and in 2020 raised to Phase 3. Elevated nitrate-nitrogen levels continue to be the major concern in both Phase areas. Emphasis on awareness is a priority to the District with numerous grants being considered. A grant was received from the Water Sustainability Fund in November 2022. This grant will conduct a geological assessment to go with the AEM flights along with offering cost-share for best management practices in the Schuyler - Richland Phase Area. In July 2023 a WSF grant was approved to determine nitrate legacy from Richland to Fremont.

In June 2018, the District updated its Groundwater Rules and Regulations by adding a Phase Four under Water Quality and managing water by consumptive use or acre feet limitations. As of July 1, 2023, the District had 9424 registered active wells with 4606 irrigation wells and 212 wells in the GWEL network.

In Summer of 2012, the District saw mid-summer declines in the Bruno area and the uplands of Platte and Colfax Counties. These are now designated as the Butler-Saunders and Platte-Colfax Special Quantity Subareas. The District mandated water flow meters, rolling allocations and annual reports in these areas starting in 2016.

In 2012 seven NRD's agreed to develop a Lower Platte Basin plan, which is a cooperative agreement for the Basin Plan. This plan was approved in December of 2017 with each district assigned a depletion allotment within the Basin. The allotment is in 5-year increments starting in 2016 with a formula to determine the acre feet used for new water uses. The District completed its V-IMP in June of 2018 by adding an additional rule of requiring municipalities to report yearly water use, with an annual report

due to NeDNR. The Coalition contracted with the Flatwater Group to analyze the data that will be used in the next 5-year allotment. The group updated the plan for next 5-years in 2022 with new allotments until 2027.

In 2016 the Lower Platte River Consortium, made up of the Lower Platte South NRD, the Lower Platte North NRD, the Papio-Missouri River NRD, Lincoln Water System (LWS), Metropolitan Utilities District (MUD), and the Nebraska Department of Natural Resources (NeDNR), embarked on an effort to develop a drought contingency plan to maintain/mitigate sustainable water supplies to the Lower Platte River during drought conditions. The final report was finalized in the Spring of 2020. The group has discussed the projects to be considered for supplying water into the Platte River and will be making 5-year updates.

Current rules and regulations of the GWMA are available at the LPNNRD headquarters in Wahoo and via the district website at www.lpnrd.org.

Ground Water Quality Sampling

The Lower Platte North NRD continues efforts to develop a ground water quality inventory. The District has been divided into four primary aquifer regions: Todd Valley, Platte Valley, Shell Creek and the Uplands, and further divided into 26 subareas. Staff samples the same wells each summer, weather permitting, to determine long term trends for nitrate-nitrogen. This is referred to as the Statewide Network. The data collected is provided to the Nebraska Department of Environment and Energy (NDEE). NDEE in turn provides this to the Nebraska Legislature on an annual basis.

In 2022 samples were collected from 52 sites.

Year	Nitrate-Nitrogen Range	% Nitrate-nitrogen 0-8.0 ppm	% Nitrate nitrogen 8.01-10.0 ppm	% Nitrate nitrogen > 10 ppm
2022	0 - 18.7 ppm	69% (36 of 52)	15% (8 of 52)	15% (8 of 52)

Samples for pesticide analysis were collected from ten of these sites (19%). The pesticide analysis was for a suite of 25 parameters, and all results were less than reporting level.

Ground Water Energy Level Monitoring Network

One of the responsibilities of the NRDs in the State is to monitor fluctuations in groundwater levels. With the help of area cooperators, a ground water energy level monitoring network has been established in the LPNNRD. This monitoring network has been established to obtain a better understanding of the groundwater levels throughout the District. As of Spring 2023, the LPNNRD had 212 wells in the groundwater energy level monitoring network. These wells are monitored each spring and fall, with selected wells also measured in late August.

The LPNNRD compares the latest spring reading to the 1987 base-year to determine if a subarea needs to be declared a Level 2 or Level 3 groundwater management area. Level 2 and 3 management areas require flow meters on wells, annual reporting of water use, and establishment of acre-inch allocations. For the 26 sub-areas within the District, 24 subareas are currently at Level 1 management, while the other 2 sub-areas still need additional information before these can be designated. Sub-Areas along the Elkhorn and Platte Rivers are showing some of the wells reaching Level 2 and 3 management. The District prefers at least three years of data before the subarea can be designated as a Level 1, 2, or 3 management area.

Fall readings in 2022 and Spring of 2023 showed a decline from the previous year's measurement. This change was the continuing lack of moisture in the last 2 years. Spring readings in 2023 showed 92% of the wells measured had levels lower in Spring 2023 compared to Spring of 2022. There was a 3% rise in 6 wells from a year ago.

Chemigation

Chemigation is the act of injecting chemicals into the water line of an irrigation system that is then applied onto the crops. It is considered to be one of the most efficient ways of applying essential nutrients in times when the crop is uptaking the most amount of nitrogen through its growing stages. In order to chemigate, a licensed permit holder must obtain a permit through the Lower Platte North NRD. Special equipment must be installed to protect Nebraska's groundwater from possible back-flow of chemicals into the groundwater source. To obtain this permit administered by NDEE, you must pass the Chemigation Certification test taught through the University of Nebraska-Lincoln's certification program. There is an online test option available to producers. The chemigation equipment must be properly equipped, inspected and approved by the NRD before applying any chemicals. The number of chemigation permits continues to slowly rise throughout the district due to chemigation's efficient application rate when the crops are in the most need of nutrients. In sandier soil types, chemigation is extremely effective due to the soil's incapability to hold essential nutrients in the root zone after heavy rainfall events.

Chemigation Permits	Total	Renewal	New	Emergency
November 2022	733	676	56	1
August 2023	704	643	61	0

In 2014, the Legislature approved changes to Title 195 that would allow individual NRDs to set chemigation fees. Chemigation fees for LPNNRD are as follows: \$90 for a New permit, \$30 for a Renewal permit, and \$300 for an Emergency permit. Inspections are required on equipment for new permits. Renewal permits are inspected on a three-year rotation. Failure to renew by June 1st of the following year the permit was obtained will cause the permit to lapse. If a renewal

permit lapses, the producer must obtain a new permit and an inspection is required.

Decommissioned (Abandoned) Wells

Abandoned wells are a health and safety concern and have been ruled as illegal by the Nebraska Legislature. A well not used for three consecutive years or one which is no longer useful is considered to be abandoned and needs to be properly decommissioned.

The Lower Platte North NRD offers up to 75% cost share assistance to landowners to properly decommission abandoned water wells. In addition, the district will assist with up to 75% of the cost for pump and obstruction removal on domestic and stock wells. To receive cost share assistance, the actual decommissioning must be performed by a certified well driller or pump installer. The landowner has six months from the time of application to accomplish this task unless good cause is shown.

Since 1992 the district has administered local and state cost-share dollars to decommission 734 wells. Through this program in FY 22-23, a total of \$11,604.58 was administered by LPNNRD for the plugging of 10 wells. The district will administer approximately \$15,500 of state and local funds to plug additional wells during the current fiscal year.

Flow Meter Maintenance Program/Flow Meter Readings

Since 2008, the LPNNRD has implemented the requirement of installing a District approved flow meter on any new or replacement well. Thereafter in 2012, the District also required the installation of a flow meter on any expansion of acres from an existing well. This pumping information is invaluable to the District to know what has been pumped during years of extended drought. It is vital that the LPNNRD keeps track of this going forward into the future. In order to know the volume of water within our aquifer systems, we need to know the water that is being extracted.

In 2016, the district chose to contract with a

private company through the bidding process. The company was scheduled to maintain the flow meters within the LPNNRD’s SQS areas for the first four years. Since that was completed the District has chosen to open the flow meter maintenance program district wide in 2020. Maintenance on the flow meters will be performed once every four years. The district is in charge of the labor and site visit at each meter. Each mechanical meter site visit is \$60 and each battery operated site visit is \$75. This maintenance includes the regular greasing of the mechanical meters and changing the batteries on the digitally read meters. Along with the regular maintenance the private company also ensures that the meter is not damaged from water or vibration. There are approximately 1,150 irrigation well flow meters that are getting routine maintenance once every four years.

Along with the irrigation wells, the LPNNRD also records meter readings from all of the municipality wells within the District including MUD, Lincoln and Fremont. Livestock wells and commercial wells are required to report if the well was drilled after the 2012 requirement date. Over 1,200 readings are recorded annually throughout the LPNNRD District. This Fiscal year the LPNNRD budgeted \$24,000 for the meter maintenance program.

Registered Wells

The Nebraska Legislature declared that the conservation and the beneficial use of ground water are essential to the future well-being of the State. State Law requires that all water wells in the State of Nebraska be registered with the Department of Natural Resources. Wells that are not registered are illegal and should be registered as soon as possible. A breakdown by decade from 1970 to present shows the growth of active irrigation wells in the District.

Table of Active Irrigation Wells within LPNNRD compiled by Completion Date

Date	Number of Active Irrigation Wells in the District
December 31, 1970	1,428
December 31, 1980	2,756
December 31, 1990	3,241
December 31, 2000	3,686
December 31, 2010	4,307
December 31, 2020	4,554
July 1, 2023	4,606

Well Permits

In May of 2008, the LPNNRD placed a flow meter and water reporting condition on well permits for all permits issued after that date. All well permits require well owners to install a flow meter and report their water use for the calendar year to the LPNNRD by December 15 of each year. This reporting requirement is effective the year the well is drilled and for each year thereafter, until the well is decommissioned. From January 1 to July 1st, 2023, the District has issued 26 well permits with 8 new and 18 replacement irrigation wells.

Special Studies

The LPNNRD has done a number of studies within the District. The following is a list of studies that are currently being conducted within the District.

Aquifer Vulnerability Mapping and Analysis

The Lower Platte North has been working with UNL to collect and analyze data within the LPN Water Quality Management Areas. The first stage involved intensive water sampling of irrigation wells for nitrates. A few isotope nitrate samples were collected for the purpose of determining if the nitrates are from organic or inorganic sources. This was followed-up with vadose soil sampling analysis to assist in determining the amount of nitrates in soil and pore water present in the unsaturated zones above the water table. A nitrate tool was developed utilizing this data, along with

geological information to assist in determining vulnerability. This project was completed in 2021 with informational meetings in the area. The plan is to conduct some age dating of groundwater to help in nitrogen management.

3D Airborne Electromagnetic (AEM) Hydrogeologic Framework and Assessment

Papio-Missouri River NRD, NeDNR and LPNNRD started a study in January 2021 to assess AEM survey information, well logs, and other geological information. The data will be used to characterize different geological layers and assign variables such as hydraulic conductivity. This data will be used in groundwater modeling to better understand, assess, and forecast groundwater. This study was completed in January 2022. Starting August 2023 the process of taking this data along with LPSNRD assessment and completing a groundwater model for the Lower Platte River Basin.

Lower Platte River Consortium Study

Municipal wellfields in the Lower Platte River Basin depend on the Platte River to recharge groundwater for their use. This study looked at long term water supplies in the Lower Platte River Basin, and the ability to enhance streamflow, especially in drought conditions, to sustain these municipal water systems. Sustaining water in the river would also provide a benefit to wildlife and agriculture by lessening the likelihood of a 'call' on the river. Due to different hydrologic conditions in the Platte River, such as gaining and losing segments, siting of future reservoirs, groundwater storage projects, etc. becomes important in order to most effectively move water to a desired location downstream. The plan was completed in Spring 2020 with the group now in the process considering the options from the plan to determine the feasibility of the projects.

Eastern Nebraska Water Resources Assessment

LPNNRD is a partner in the Eastern Nebraska Water Resources Assessment (ENWRA). The ENWRA study has been utilizing Airborne

Electromagnetic (AEM) over eastern Nebraska to better model the geology of the glaciated portion of the State. It has opened several questions concerning bedrock aquifers both in water quantity and water quality such as salinity. New flights were conducted in the summer of 2018 with the final report received in summer 2019. A study is being conducted in the Platte-Colfax Area (SQS#2) utilizing the AEM, additional data loggers and other geologic logs to determine the relationship between confining and unconfined layers along with determining drawdown levels for management decisions. The flights and the results can be found on the ENWRA website at (www.enwra.org).

Elkhorn-Loup Model

The Elkhorn-Loup Model (ELM) project is a study of surface water and groundwater resources in the Elkhorn River basin upstream of Norfolk, Nebraska and the Loup River basin upstream of Columbus, Nebraska. Parts of this basin overlap and cover portions of upper Shell Creek.

Certifying Acres

In July 2009, the District signed a contract with gWorks (formerly GIS Workshop) to develop a database of county assessor records as the preliminary step to certifying irrigated acres. Using these records, LPNNRD staff mailed out letters to landowners to verify irrigated ground. As of January 2022, the majority of the irrigation in the district has been cataloged. The District is still granting new irrigation development. Those new acres are not entered into the certification database until they can be verified by aerial photography and accurately modeled. In March of 2021, the District went through all the approved new irrigation acres and modeled out all those that had yet to be counted. Acre certification provides an inventory of the irrigation needs of the District, which is an important part of present and future groundwater management and planning. In addition to cataloging irrigated acres, LPNNRD

staff have been actively working with the Nebraska Department of Natural Resources (NeDNR), as well as local landowners, to bring all irrigation wells in LPNNRD into compliance with Nebraska Revised Statute 46-602 (7).

Nebraska Ordnance Plant Water Pollution Clean Up at Mead

During the 1940s, 1950s and 1960s, an Army Ordnance Plant near Mead was used to assemble bombs and served as an early Atlas Missile ICBM site. Over time, the soil and groundwater at the plant site became polluted with various explosive residues and solvents. The cleanup has been divided into three basic project areas: Soils (OU1), Ground Water (OU2), and Building contamination (OU3). This area has been under study by the Army Corps of Engineers (COE) since 1988. An open house was held by the Corp, May 2023, with annual tours and open houses conducted regularly.

Wellhead Protection Program

The LPNNRD implemented a wellhead protection program in FY 2001. The goal of the program is to minimize potential polluting activities on the land surrounding a community's public water supply well(s). The District has identified 22 communities with public supply wells and they have been encouraged to become involved in the program. The Communities of Newman Grove and Platte Center have applied for Source Water Protection Grants to re-evaluate and approve their wellhead management areas. Both communities will do a nitrogen assessment for the area to assist in future well locations.

Rural Water Districts

In recent years, the District has worked with communities who have had difficulties with water quality and quantity by forming two rural water systems. The Butler County system linked the village of Bruno in 2006, who was having water quality and quantity problems, to David City. Also in 2006, the Saunders County system linked the village of Colon, who was

experiencing water quality concerns, to Wahoo. The LPNNRD operates both of these systems. The District purchases water from the larger communities and delivers it to the smaller communities; RW staff manage and maintain Colon's system and billing while Bruno manages their infrastructure and household billing. Both systems are designed to serve rural customers along each service route. Combined, the two systems serve over 135 households in Saunders and Butler Counties. To address fiscal concerns both RWDs have implemented a phased rate increase strategy to more diligently manage the financial standings of both districts. The District has been in contact with several other communities and anticipates several more communities and rural customers to be serviced by rural water systems in the future as rural communities face an increased burden at providing adequate quantity, and quality, water while maintaining aging infrastructure. Both systems are greater than 10 years old and repairs/replacements of meters is expected to take up RWD staff's time in 2023-24 as a number of meters and components are nearing the end of their expected service life.

Geographic Information System (GIS) and Global Positioning System (GPS)

LPNNRD has used Geographic Information System (GIS) technology since 1996. GIS is an automated system combining database information and maps. Features on a map, created with GIS technology, contain attribute or feature descriptions that are referenced by location. The data used by a GIS system consists of Vector and Raster Data. Vector data consists of point (wells), line (roads) and polygon data (irrigation boundaries or parcels); with Raster data consisting of pixels, where each pixel on the screen corresponds to a data point. Raster data includes aerial photography and elevation data such as LiDAR (a highly accurate elevation dataset). The District has incorporated the use of GIS into most district functions, including the certification of irrigated acres, maintenance, project planning, modeling of groundwater

availability, and the movement of contaminants such as nitrates through the soil profile.

In addition to in-house GIS activities, LPNNRD GIS staff assist a variety of partners, including projecting FSA aerial photography into Nebraska State Plane Feet coordinates for NeDNR, custom authoring of maps for the Nebraska Land Trust, coordination of helicopter flight lines for invasive species control with the Lower Platte Weed Management Area, and helping other NRDs with GIS questions as they emerge.

LPNNRD entered into an agreement with Phoenix Web Group to create a robust, relational database. GIS will be the backbone of this database and will allow LPNNRD to quickly, and efficiently, look up any information pertaining to any project or cost share that has been completed for any constituent with land in LPNNRD.

The Global Positioning System (GPS) relies on 31 NAVSTAR satellites, which provide world wide positioning and navigation information around the clock. Receivers acquire signals from satellites to determine precise locations on earth. The data obtained from taking GPS positions can be downloaded and mapped with GIS, making the two technologies complementary. LPNNRD partnered with NRCS on the purchase of a sub-centimeter GPS base station. This allows NRCS and NRD staff to quickly and efficiently perform a variety of tasks in the field with survey level precision.

As drone technology continues to evolve, LPNNRD has added a SkyDio2 Autonomous Drone to its inventory. LPNNRD Staff have completed FAA Part 107 certification, which ensures safe operation of drones for commercial purposes. This certification process involves an exam that covers airspace regulations, weather, and aviation safety.

FY 2024 Ground and Surface Water Objectives

- Continue to monitor changes in groundwater levels and quality in the district.
- Continue with LPNNRD Groundwater Management Area (GWMA) programs to help avoid the Lower Platte Basin being designated “fully appropriated.”
- Continue to implement Voluntary Integrated Water Management Plan (V-IMP) for the District and basin-wide plan. Utilize acre feet allotments assigned to the District for the benefit of the basin.
- As part of the GWMA, continue with LPNNRD certification classes, demonstration plots, generation of maps indicating problem areas, and evolving the development of a master database.
- Continue to cooperate with the United States Geological Survey (USGS) in monitoring groundwater levels at two sites.
- Continue to cooperate with the United States Geological Survey (USGS) in monitoring surface water levels at four sites and one site for contamination evaluation.
- Use the Subarea Delineation Study to identify ‘small pocket aquifers’ in the Swedeburg, Prague, Yutan, and Yutan South subareas. Review other aquifer subareas to determine if Stay Management Areas are justified in other portions of our District.
- Continue sampling of approximately 53 wells in our District that are part of the Nebraska State-wide Network.
- Continue to monitor the Phase Areas in Richland-Schuyler and Bellwood for nitrate and elevate these areas as needed.
- Continue implementing extensive sampling of soil and water in the Phase Areas for the purpose of identifying workable best management practices for curbing the rising nitrate trend.
- Implement best management practices within the Phase Areas for the purpose of decreasing nitrate levels.
- Administer \$19,000 of state and local cost-

share funds to decommission abandoned water wells, and provide 100% cost-share assistance within Wellhead Protection Areas to communities that are actively doing projects within its management area.

- Maintain a multi-agency groundwater energy level monitoring network in the Wann Basin of the Platte Valley north of Ashland to pool information from different agencies collecting water level data. This information is being used by the COE and MUD to refine their groundwater modeling efforts.
- Continue to implement the Chemigation Program to inspect safety equipment on permitted irrigation systems in the district.
- Continue with the District's Well Permitting Program and Variance Process throughout the District.
- Continue to review water use reports submitted to the LPNNRD as part of the well permitting process from new and replacement wells.
- Provide information and education on water conservation and safe disposal of farm and household chemicals.
- Continue to map registered and unregistered wells in the district using GPS.
- Promote and sponsor LPNNRD's Spring Conservation Sensation.
- Provide information on Integrated Pest Management in news releases and the "Viaduct" newsletter to encourage reduced use of pesticides.
- Support and promote urban water conservation and chemical disposal throughout the District.
- Assist in organizing the annual NRD Water Programs Conference held each year to update the NRD's on activity of State and Federal Agencies, new research, and Legislative issues.
- Continue to install flow meters on irrigation wells that are part of our Ground Water Energy Level (GWEL) Network.
- Expand the GWEL network to monitor aquifer sub-areas as designated in the 2009

Subarea Delineation Study. This will be done by incorporating additional high capacity wells and the drilling of new monitoring wells.

- Continue to monitor clean up efforts by the COE at the Former Ordnance Plant at Mead, Nebraska.
- Work with the COE to establish spacing requirements for future high capacity irrigation, industrial, and/or municipal wells that are requesting to be installed near known contaminant plumes from the Former Ordnance Plant near Mead, so these wells will not interfere with the COE's clean up efforts.
- Continue to monitor clean up efforts by the University of Nebraska at the Eastern Nebraska Research and Extension Center (ENREC) facilities east of Ithaca, Nebraska.
- Maintain transducers placed in District monitoring wells to record changes in groundwater energy levels and to continue the process of installing real-time remote reads.
- Implement Level 2 or Level 3 Management areas as warranted caused by declining groundwater energy levels in 50% or more of the monitoring wells reaching their trigger levels after three consecutive spring readings.
- Review livestock permits from NDEE.
- Investigate irrigation runoff and groundwater management area complaints as needed.
- Expand the NeRain program within our District.
- Continue to be a sponsor member of the Elkhorn-Loup Model (ELM).
- Continue groundwater studies with the University and NeDNR in the SQS areas. Study will focus on confined and unconfined aquifers and drawdowns within these areas.
- Communicate with well drillers and pump installers on water concerns within the District.
- Continue to assist the Eastern Nebraska Water Resources Assessment (ENWRA) with

the use of AEM (Airborne Electromagnetic) to study the eastern glaciated portions of Nebraska to provide a geologic framework map.

- Improve irrigation efficiency by working with UNL Extension on the Nebraska Agricultural Water Management Network (NAWMN) to install Watermark sensors and ET gauges with producers each year in our District.
- Continue with the process of updating Irrigated Acre Certification within the District.
- Continue working on projects identified within the Shell Creek Watershed Water Quality Plan.
- Update water quality objectives as identified in the Wahoo Creek Watershed and the Shell Creek Watershed Water Quality Plans.
- Continue to increase producer participation in online reporting for entering their data to improve efficiency and quality of data.
- Analyze the real-time water level measurement network in Special Quantity Areas for in-season management decisions for determining warning triggers.
- Start the groundwater modeling process jointly with PMRNRD, LPSNRD and NeDNR within the Lower Platte Basin for updating the Hydrological Connected Area (HCA) and assist in the well permitting process.
- To work with USGS and Lower Loup NRD on assessing legacy nitrate in Platte, Colfax and Dodge Counties, Nebraska by identifying wells to sample.
- To continue to work with UNL and NDEE on an interseeding cover crop project in the Shell and Wahoo Creek Watersheds.

FY 2025-2029 Long Range Ground and Surface Water Objectives

- Continue groundwater quality sampling throughout the LPNNRD, both the State-wide network and intensive sampling of selected regional aquifers.
- Continue water quality education programs based on the goals and objectives of the

LPNNRD Groundwater Management Area, which includes LPNNRD certification classes for landowners, municipal, and industrial water users.

- If needed, designate further Phase II, III, and IV boundaries for the Groundwater Quality Management Areas.
- Educate the need for check valves in protecting the aquifer from contamination.
- Continue with nitrogen application demonstrations and participate with demonstrations on integrated pest management and sustainable agriculture.
- Assist in the proper decommissioning of water wells in the district.
- Continue to use GPS to map registered and unregistered wells within the district.
- If necessary, designate Level II and III boundaries within the district to manage declining groundwater levels.
- If necessary, designate new Special Quantity Subareas (SQS) within the district to manage mid summer declines of groundwater energy levels in aquifers that operate under large pressure swings.
- Continue measurement of ground water energy levels in the district.
- Develop a groundwater model to assist in management for each sub-area. Additional information on water use from all wells will be needed for accurate information.
- Continued partnership with the Eastern Nebraska Water Resources Assessment (ENWRA) and apply information to the glaciated portions of our District.
- Initiate additional studies to identify vulnerable aquifers and modify GWMA rules and regulations to protect these aquifers and their long term sustainability. Continue geophysical work, installation of monitoring wells and test holes to better define these vulnerable sub-areas. Additional AEM flights with ¼ to ⅓ mile spacing would gratefully assist in defining such areas. Eventually cover the entire District with these detailed AEM investigations.
- Continue using AEM (airborne electromagnetic) information to analyze

bedrock aquifers both in water quantity and water quality. Test holes and monitoring wells will have to be installed and sampled to determine these as a possible source of usable groundwater. New management strategies need to be developed for these aquifers such as summer trigger levels for confined bedrock aquifers, especially if these are hydrologically isolated from overlying alluvial aquifers. This could develop into three dimensional management where aquifers at different depths are treated by a separate set of rules for each one. This could become very complex but will likely be the only way to sustain the use of these aquifers far into the future.

- Install precipitation gauges near monitoring wells in important sub-areas.
- Utilize the completed Lower Platte River Consortium Study for possible locations for recharge and reservoir sites to better convey water downstream to municipal wellfields.
- Complete water quality objectives as identified in the Watershed Quality Plans.
- Continue to update the Groundwater Management Plan to include Integrated Management of surface and ground water. It may be necessary to install additional surface water gauging sites coupled with nearby groundwater monitoring wells as tools for integrated water management.
- Expand the GWEL network to have continuous recording monitoring wells in each sub-area to better manage the resource with the ability for remote real-time readings. This is especially important in confined aquifers.
- Continue to update the certification of irrigated acres.
- Continue to assist District communities who have difficulties with water quality and quantity by helping determine rural water system feasibility.
- Keep the Saunders County Rural Water System study as an alternative in the event of changing federal regulations governing municipal water supplies.

- Keep abreast of updates and new iterations of the Elkhorn-Loup Model (ELM) to determine which areas in the Shell Creek watershed are in hydrologic connection with the Elkhorn or Loup River basins.

In summary, the LPNNRD needs to focus on five areas in the next five years:

1. Using information from the AEM flights and test holes, establish a monitoring well network in these confined aquifers to record continuous ground water energy levels. It is midsummer declines (late July to mid-August) when large drops in aquifer pressure can cause some wells to run low on water. Map locations of potential recharge sites. More flights, test holes and/or monitoring wells might be necessary in areas to provide the necessary information.

2. Establish ground water management rules to better address confined aquifers. This could involve comparing spring to summer ground water energy levels and comparing this to the potentiometric aquifer thickness and the depth of bedrock. The current management rules for unconfined aquifers should be adequate for future conditions. These controls are based on three consecutive spring readings at or below their trigger levels in at least 50% of the GWEL wells in a given subarea.

3. AEM flights have given a new interest in bedrock aquifers such as the Dakota formation. Monitoring wells in selected areas are needed to determine the water quality and quantity of these bedrock aquifers. Also are these bedrock aquifers in hydrologic connection to any overlying aquifers? If this is the case and new high capacity wells are being established in these bedrock aquifers then management should shift focus to the more vulnerable aquifer to sustain long term viability of both aquifers. If these bedrock aquifers are isolated from the overlying aquifer then "three dimensional management" where wells are managed differently due to

their depth may be in order. This could get complex but management needs to take the chemical and physical characteristics of the aquifer in account. For example, what is the salinity of the groundwater and is the bedrock aquifer cemented, unconsolidated, sandstone, limestone, or shale.

4. Horizontal wells. In the immediate future horizontal high capacity irrigation water wells will likely be established in thin aquifers to increase well output or yield. On the plus side, these could replace several vertical wells that are used in series and therefore be a cost savings to the well owner. On the negative side these could quickly dry up thin aquifers less than 20 feet in thickness and affect nearby wells. How do you manage such a system? At the least you could require 600 feet spacing from any point of the lateral to a neighbor's well but again this may not provide much protection in thin aquifers such as the area immediately west of Fremont. Other management options would be to restrict the number of acres irrigated, restrict the length and direction of the laterals, restrict well output such as limit the gallons per minute, establish water allocation, install monitoring wells such as near the end of the laterals to track groundwater levels, etc.

5. Integrated Water Management. Siting of potential recharge sites, storage reservoirs (both surface and groundwater), and potential water reuse projects to enhance the water supply in the District. Additional monitoring wells, streamflow gauging, and precipitation sites will likely be necessary. Effects of climate change will also need to be considered as part of integrated water management.



In response to the Erosion and Sediment Control Act (LB 474), passed in 1986, the Natural Resources Commission developed the Nebraska Soil and Water Conservation Strategy. This strategy outlines a course of action for efficiently conserving and managing the state's natural resources.

The Lower Platte North NRD administers the Erosion and Sediment Act and has patterned its local program after the state strategy. The district administers state and local cost-share funds through Soil and Water Conservation Programs (SWCP) to offer incentives to producers for installation of land treatment practices. LPNNRD staff also worked with NRCS staff to utilize Farm Bill Programs to repair erosion problems.

FY 2023 Soil Conservation Activities

Soil and Water Conservation Programs (SWCP)

Under Soil and Water Conservation Programs (SWCP), the LPNNRD allocated \$83,029.99 of state funds (Dept. Natural Resources) for land treatment practices during fiscal year 2023 in cooperation with 12 different landowner projects. In addition, 3 Buffer Strip contracts were administered with \$12,258 in state funds.

For fiscal year 2024, \$92,179.61 of state funds (from the Nebraska Department of Natural Resources) and \$25,000 of local funds will be allocated for soil and water conservation practices through the LPNNRD Lands for Conservation Program (LFC). The LFC program offers landowners a per/acre payment to set aside production ground to allow for summer construction. This lessens the burden on the fall construction season allowing more conservation work to be implemented.

Wahoo Creek Water Quality Land Treatment Efforts

Wahoo Creek in Saunders County, Nebraska, has resided on the Environmental Protection Agency's (EPA) list of impaired water bodies for decades. To address the impaired status of Wahoo Creek, LPNNRD in partnership with the U.S. Environmental Protection Agency (EPA) and the Nebraska Department of Environment and Energy (NDEE) developed the Wahoo Creek Watershed Water Quality Management Plan in 2013. These plans are updated every 5 years and the District is in the process of completing another update. This plan identifies goals to reduce excess phosphorus, nitrogen, soil sediments, and E. coli bacteria in the Wahoo Creek Watershed. This plan meets the EPA's requirement of containing "Nine Elements" of an effective watershed management plan. The plan identifies water quality goals to protect and enhance the quality of all water resources within the Wahoo Creek. Sub-watersheds within the Wahoo Creek Watershed were prioritized for future water quality projects. LPNNRD in partnership with EPA, NDEE, and the Natural Resource Conservation Service (NRCS) identified four Wahoo Creek sub-watersheds as National Water Quality Initiative (NWQI) areas to receive special EQIP and EPA 319 funding for landowners to complete conservation practices to help achieve the numerous identified water quality goals.

Shell Creek Watershed EPA Section 319 Water Quality Improvement Efforts

Shell Creek is a major tributary of the Lower Platte River. Land use in the approximately 305,000 acre watershed is predominantly row crop agriculture. Portions of Shell Creek are on the Environmental Protection Agency's (EPA) impaired waters list. The most notable impairments include E. coli (bacteria) and Atrazine.

The Shell Creek Watershed Improvement

Group (SCWIG) is a volunteer committee that formed in 1999 to lead local efforts to identify problems and to promote implementation of conservation practices to improve water quality in Shell Creek. This evolved into an advisory group to LPNNRD continuing to provide local leadership toward reducing erosion and water quality impairments in the watershed. A community-based planning approach was used to gather input from the citizens of the watershed for development of the Shell Creek Watershed Environmental Enhancement Plan that emphasizes combinations of practices that improve water quality.

Over the past 23 years, the Shell Creek Watershed has benefited with over \$2 million in EPA Section 319 funds combined with approximately \$4 million in partnering federal and local funds for assisting landowners in establishing Best Management Practices on their farms. These efforts resulted in Shell Creek becoming the first agricultural watershed in the nation to have a segment delisted for atrazine contamination in FY 2018.

In FY 2023, the NRD secured \$779,000 in grants from EPA/NDEE Section 319 and the Nebraska Environmental Trust (NET). These grant dollars matched with local funds are expected to yield over \$1.4 million of water quality work in the watershed over the next three years.

Erosion and Sediment Complaints

The LPNNRD responds to occasional erosion and sediment complaints. In most cases, these complaints are resolved before going through the formal complaint process. Many cases are drainage issues that are resolved between the District and landowners. During FY2022 NRD staff was subpoenaed on a case between two neighbors that could not be resolved amicably. The case has yet to be resolved as both parties continue to work together. During FY2023 LPNNRD was contacted by a landowner concerned about the placement of a tile outlet near his fence/property line. The work being completed on the neighbor's property was not

being done with NRD, or NRCS, approval. The NRD reached out to the neighbor's and through multiple conversations was able to come to an agreement that satisfied both parties.

FY 2024 Soil Conservation Objectives

- Use technical assistance from the NRCS in the planning, design, construction, and maintenance of conservation measures applied to the land.
- Use Federal, state, and local funds to promote and implement land and water treatment projects in priority areas of Wahoo Creek Watershed to reduce erosion and improve water quality. The NRD plans to coordinate with local NRCS through the National Water Quality Initiative (NWQI), NDEE's 319 program, and local funding efforts to achieve the goal.
- Continue encouraging the implementation of summer conservation construction utilizing federal funding within the Wahoo Creek Watershed through the Lands for Conservation program; for FY24 the NRD has approved \$19,600 for the set aside of 85 acres.
- Administer \$92,179.61 of State NSWCP funds and \$25,000 of local cost-share and grant funds to landowners for the construction of terraces, tile outlets, waterways, diversions, small dams, planting of permanent vegetation, and maintaining water quality.
- Continue to promote conservation tillage measures, pasture & range management, sustainable agriculture, and the Conservation Reserve Program (CRP), through news releases and the district's newsletter.
- Recognize the Outstanding Soil and Water Conservationists.
- Continue to assist landowners in resolving soil erosion and sediment complaints.
- Provide financial support and staff time to conservation education activities.

- Continue to work closely with locally-led conservation groups to promote soil and water conservation throughout the district.
- Partner with the Shell Creek Watershed Improvement Group (SCWIG), EPA/NDEE, NET, and NRCS toward continuing implementation of Best Management Practices in the Shell Creek Environmental Enhancement Plan Implementation.
- Work with NRCS, NDEE, NET, Saunders County, and the Wahoo Creek locally led Steering Committee in pursuing additional federal and state funds to assist with land treatment practices as defined in water quality objectives in the Wahoo Creek Watershed Water Quality Plan.
- Assist with the formation of local landowner advisory steering committees in the Wahoo and Bone/Skull Creek Watersheds for planning soil & water conservation practices and flood reduction.
- Use existing and new technology and GIS software programs for implementing and promoting soil conservation practices.
- Promote the use of and make available soil surveys and land use information.
- Continue to support Locally Led Landowner Groups to promote and implement soil and water conservation practices.

FY 2025-2029 Soil Conservation Long Range Objectives

- FY 2024-2028 Soil Conservation Long Range Objectives (Sean, Ryan) DONE
- Maintain existing land treatment practices and programs.
- Continue to work with all counties in the district to reduce roadside erosion.
- Administer NET and NDEE/EPA 319 Grant Programs to improve water quality throughout Wahoo Creek, Shell Creek, and the Lower Platte River Corridor Alliance priority watersheds.
- Look for new and innovative soil and water conservation methods.
- Partner with NRCS, UNL Extension, and landowners to improve all aspects of their water and soil quality.
- Continue to support the Land and Range Judging Contests.
- Continue targeting SWCP land treatment program funds for priority watersheds in the District.



FLOOD CONTROL & DAMAGE REDUCTION ACTIVITIES

Projects have been completed in priority areas in the LPNNRD to help reduce flooding and provide grade stabilization. Projects have been completed in Bellwood, Clear Creek, Cottonwood Creek, Sand and Duck Creek, Swedeburg, and Rawhide Creek watersheds. Current high priority flood reduction areas include Bone Creek, Shell Creek,, Skull Creek, and Wahoo Creek watersheds. On federal and state projects where the LPNNRD acts as project sponsor, the district obtains land rights and is also responsible for operation and maintenance activities on these projects after they are built.

The LPNNRD offers local assistance for the construction of small dams that can help counties and/or landowners protect county roads, control erosion, and provide water for livestock and wildlife.

FY 2023 Flood Control and Damage Reduction Activities

Wahoo Creek Flood Reduction Efforts

The NRD is currently in the process of building ten flood reduction dams in Wahoo Creek watershed, estimated to cost \$19.7 million in 2020. Federal (WFPO) and state funds (JEDI) are expected to fund the entire project including planning, design, permitting, land rights, construction, and construction oversight. Construction will begin in FY2024 on three sites: 26a, 26b, and 27. Construction is expected to begin in FY2025 on the remaining seven sites: 55, 66, 77, 82, 84, 86, and 86. Completion of all ten dam sites is anticipated by the end of FY28.

Sand Creek Environmental Restoration Project (Lake Wanahoo)

With the invaluable assistance of numerous local, state, and federal partners, 2011

witnessed the completion of construction on Lake Wanahoo's earth embankment. The breakwater feature and the fisheries component were completed a few years prior to the embankment. Recreation components were completed for Lake Wanahoo in FY2011. Construction of seven upstream flood reduction/environmental enhancement structures were completed in FY12-14. In FY19, LPNNRD assumed Lake Wanahoo's recreation management responsibilities from the Nebraska Game and Parks Commission.

Operation and Maintenance

District staff completed inspections on 45 watershed structures and special projects in the NRD in FY 23. These inspections help detect problems before they become serious. Also during the 2023 fiscal year, noxious weeds and volunteer trees were sprayed on 45 dams, Clear Creek Levee, and the Rawhide Ditch System. Annual maintenance activities such as removing debris, repairing fences and unplugging risers were completed at many of the dam locations. The District is currently working with NRCS and a Engineer Consultant in the rehabilitation of dam Cottonwood 21-A.

Army Corps of Engineers 205 Flood Studies

Over the past many years, the District has partnered with local entities and the US Army Corps of Engineers to study flood protection alternatives for their areas. In 2004, LPNNRD partnered with Fremont, Inglewood, and Dodge County to look at a potential levee project to remove areas from the Platte River 100-year ice induced floodplain. In FY 2017, the Fremont study evolved into a General Investigation (GI) Study which determined that there is not a feasible structural solution (levee) to the City of Fremont's flood threat from the Platte River. In 2018 the GI Study evolved back to a 205

Non-Structural Study for the City of Fremont and Dodge County. This effort will continue in FY 2024.

In 2005, LPNNRD entered into an interlocal agreement with the City of Schuyler to evaluate levee protection options to protect the city from flooding from the Platte River and Shell Creek. In FY 2012, the Schuyler 205 Study was completed and entered into the project design phase. In FY 2014 the design phase was completed and LPNNRD assisted Schuyler with obtaining needed land rights for the Shell Creek Levee portion of the project which began construction activities in the spring of 2014 and most construction activities were completed in the fall of 2015. LPNNRD continued to assist Schuyler in FY 2018 with closing out the project with the Army Corps of Engineers. Schuyler continues to do a great job in maintaining the levee.

FY 2024 Flood Control and Damage Reduction Objectives

- Continue with accelerated land treatment efforts in identified priority watersheds in the District.
- Complete annual and/or biennial inspections on 45 watershed structures; spray noxious weeds & cut and treat trees on 45 dams, Clear Creek Levee, and Rawhide ditch; complete regular maintenance activities at all sites.
- Continue to be an active partner on the Joint Water Management Advisory Board to explore flood reduction and drainage solutions in portions of Dodge County within LPNNRD.
- Partner with the City of Fremont, Dodge County, and Papio-Missouri River NRD to fund operation and maintenance of established USGS cameras and water gauges at five locations along the Lower Platte River.
- Partner with Dodge County and City of Fremont on FEMA Drainage

Improvement Project.

- Continue to educate the public on watershed management and flood reduction in LPNNRD newsletters, news releases, and our website.
- Cooperate with landowners and counties in evaluating small dam sites for cost-share throughout the district.
- Continue to partner with the Army Corps of Engineers, FEMA, City of Fremont, Englewood, and Dodge County on exploring non-structural opportunities for feasible flood control solutions.
- Support the City of Schuyler for exploring non-structural opportunities for feasible flood control solutions from the Platte River through the LPNNRD District-wide Hazard Mitigation Plan.
- Work with Communities, Counties, and other entities on projects identified in our District-wide All Hazard Mitigation Plan.
- Complete easement acquisition for all ten Wahoo Creek Watershed flood reduction dam sites.
- Complete engineering designs on Wahoo Creek Dam Sites 55, 66, 77, 82, 84, 85, 86.
- Begin construction on Wahoo Creek Dam Sites 26a, 26b, and 27.
- Begin the process of updating LPNNRD's district-wide All Hazard Mitigation Plan.
- Work with Dodge County, City of Fremont, and other JWMAB members toward the completion of the Rawhide Watershed WFPO Planning efforts.
- Partner with NRCS through the Dam Rehabilitation program to rehabilitate dam Cottonwood 21-A.

FY 2025-2029 Flood Control and Damage Reduction Long Range Objectives

- Continue to commit funds and staff time toward completing flood water control/reduction structures in the Wahoo Creek Watershed.

- Continue to budget staff time and funds to maintain and operate completed flood control structures that are sponsored by the LPNNRD.
- Develop a long term plan for Operation and Maintenance costs associated with large structures.
- Continue to explore flood reduction opportunities for Bone Creek, Shell Creek, and Skull Creek Watersheds.
- Continue to encourage cities and counties in the district to accept and implement Floodplain Management Authorities.
- Assist Fremont, Inglewood, and Dodge County with non-structural flood protection projects as identified by the Army Corps of Engineers study and the Hazard Mitigation Plan Flood Resiliency study.
- Assist Schuyler with non-structural Platte River flood protection project opportunities as they become available.
- Assist District Communities in evaluating future flood protection for their communities through updating the District's Hazard Mitigation Plan and assisting with identified projects.
- Construct ten approved Wahoo Creek flood water reduction dams by the end of 2028.
- Continue to work with JWMAB members on the numerous projects identified as flood reduction/drainage improvement projects.
- Partner with NRCS in the Dam Rehabilitation Program on dam Cottonwood 21-A.



The district administers several programs designed to enhance the region’s forest, range, and wildlife land, including the Tree Planting Program, Wildlife Habitat Programs with Nebraska Game & Parks and Pheasants Forever, SWCP Program, and Mitigation Program. The district also sponsors educational activities such as Range Judging and Land Judging contests, and other school-oriented activities.

FY 2023 Forestry, Range, and Wildlife Habitat Activities

Tree Program

One of the most visible and popular programs offered by the LPNNRD is the district’s tree planting program. As a direct result of this program, begun in 1973, an estimated 873,225 trees and shrubs have been planted in the district. Trees and shrubs may be obtained from the NRD for windbreaks, shelterbelts, wildlife habitat, woodlots, and Christmas tree plantings. Besides providing a planting service, the NRD also designs tree planting plans and offers technical advice on ground preparation for tree sites.

During the spring of 2023, 10,475 trees and shrubs were distributed to District residents. Of this total, 3,606 were planted by the NRD field crew at 12 sites.

Wildlife Program

Lower Platte North continues to encourage landowners to set aside land for wildlife habitat by using Federal Programs and Programs provided by Nebraska Game & Parks and Pheasant Forever. These programs include Corners For Wildlife and Wild Nebraska.

Community Forestry Program

In FY 2022-2023 LPNNRD donated 900 seedlings for schools in Fremont and Newman

Grove; provided trees to the District’s annual Spring Conservation Sensation; and provided trees for the Fremont EcoFair. The District budgets \$2,000 for Community tree development projects. The District did not assist a Community during the fiscal year.

FY 2024 Forestry, Range, and Wildlife Habitat Objectives

- Plant and distribute conservation trees and shrubs through the district’s Tree Planting Program.
- Continue to include tree planting as an eligible cost-share practice under the
- SWCP program.
- Offer trees and give staff presentations to elementary students across the district.
- Assist cooperators with signing up for Wildlife Programs.
- Cooperate with the Extension Service and the NRCS in obtaining tree orders from District residents.
- Provide cost-sharing for the conversion of cropland to grassland through the SWCP program.
- Cooperate with Pheasant Forever Chapters to enhance wildlife habitat and establish windbreaks.

FY 2025-2029 Forestry, Range, and Wildlife Habitat Long Range Objectives

- Increase tree and shrub sales and planting each year through the district’s Tree Planting Program for qualified property owners.
- Provide information and education on tree planting, woodland management, grassland management, and proper wildlife habitat enhancement through media, tours, and schools.

- Continue to administer Wildlife Habitat programs in cooperation with the Nebraska Game and Parks Commission and other partnering entities as opportunities arise.



FY 2023 Recreation Activities

Czechland Lake Recreation Area

Czechland Lake Recreation Area is a multipurpose project located one mile north of Prague, Nebraska on Highway 79. Flood control, recreation, and education are the main benefits of the project. Located at a convenient distance from Omaha, Lincoln, Fremont, and Wahoo, the 85 surface acre lake is situated on 265 acres of public access land operated and maintained by the LPNNRD.

State park permits and fees are not required for entrance to the area. Czechland Lake has 11 electrical camper pads at an \$18/night fee for the use of a camping pad. There are also three non-electrical pads. A Nebraska Fishing License is required for anglers. The lake fishery is managed by the Nebraska Game and Parks Commission, which stocks and monitors fish populations. Catfish, Bluegill, Northern Pike, and Largemouth Bass were initially stocked in Czechland Lake.

Originally built as one of twelve floodwater structures in the Cottonwood Creek Watershed, Czechland Lake has developed into one of the area's most popular recreation spots. The reservoir and recreation area development was built at a total cost of \$1.8 million. Funding for the project was shared by the Nebraska Natural Resources Commission, Saunders County, USDA Natural Resources Conservation Service, and LPNNRD. Grant monies from the U.S. Environmental Protection Agency have been used to reduce non-point source pollution entering the lake and to provide educational resources.

The Czechland recreation area was used extensively during FY 2023 generating approximately \$10,000 in camping revenue. Mowing, trash removal, repair, and upkeep of park equipment, and thistle control kept LPNNRD park staff very busy during the spring and summer.

Homestead Lake (Skull Creek Site #55)

Construction was completed on Homestead Lake in 2001. The dam offers flood control for nearby communities, and has been developed for public recreation. Recreation facilities include a shelter, restroom, picnic areas, a boat ramp, and hunting areas. FY 2023 proved to be another very popular year for recreationists as the area was extensively used.

Lake Wanahoo

Work was completed on recreation facilities at Lake Wanahoo one mile north of Wahoo in FY 2012. Recreation facilities at the 1,600 acre site straddle the 662-acre lake, with camping and boating access on the west side and a day use area on the east. A rocky hiking/biking trail winds throughout the park, linking the east and west side recreation areas over a breakwater levee one mile north of the dam. Mowed trails north of the levee provide access to undeveloped areas set aside for wildlife habitat.

The camping area contains 75 camper pads, 54 tent camping sites, and 6 primitive cabins. All camper pads are equipped with electrical hookups and are rock surfaced. All sites have fire rings and picnic tables.

The recreation area offers access to two large boat ramps wide enough to accommodate four boats at a time. Boating on the entire lake is no-wake only.

The day use area on the east side of the lake has two large picnic shelters and two smaller ones, all offering scenic views of the lake. In FY 2017 a dump station for RV's was constructed on the east day use area as well as a disc golf course/nature educational trail.

Both the camping and day use areas provide excellent fishing access, with a total of seven fishing jetties. One jetty on each side has an attached handicapped pier. The lake was stocked with largemouth bass, bluegill, blue

catfish, crappie, northern pike, and walleye beginning in 2008.

Limited hunting opportunities will continue to be available at Lake Wanahoo through the Game & Parks Commission PATH Program, where adults can schedule a time to mentor a youth hunter at designated hunting sites north of the recreation area.

The Lake Wanahoo Recreation Area was opened to the public in spring 2012. An operation and maintenance plan was developed with the assistance of the Nebraska Game and Parks Commission and Pheasants Forever in FY 2014 which identified activities that were implemented in 2015.

In FY 2019, LPNNRD assumed the responsibilities of administering Lake Wanahoo as a public recreation area from the Nebraska Games & Park Commission.

In FY 2020, the Clint Johannes Education Building was completed on the day use portion of the recreation area. This facility provides a protected outdoor education space for LPNNRD education activities, as well as a public rental facility for the public. Also in FY 2020, six new primitive cabins were installed in the primitive camping portion of the park to give visitors a unique alternative to tent camping.

FY 2025-2029 Recreation Long Range Objectives

- Continue to evaluate the development of new outdoor public recreational opportunities as they arise.
- Continue to assist NE Game & Parks and Pheasant Forever in developing new areas offering public access.
- Install a new fish cleaning station on the West side of Lake Wanahoo.

FY 2024 Recreation Objectives

- Continue to budget funds for maintenance, including grass mowing, tree trimming, grading roads, outhouse cleaning, trash removal, painting, and noxious weed control, at Lake Wanahoo, Czechland Lake, and Homestead Lake Recreation Areas.
- LPNNRD will continue managing all recreation at the Lake Wanahoo recreation area.
- Design and installation of 10-14 slip marina on west side of the lake. Marina will enable campers with boats the opportunity to keep their boats on the water during their stay.



It is the general policy of the LPNNRD not to provide financial assistance for drainage improvement and channel rectification unless a project has public benefit and is sponsored by a county, city, Drainage District, or a group of landowners through an established Improvement Project Area. Under this policy, the district has cooperated on several projects that have provided public benefit.

FY 2024 Drainage Improvement & Channel Rectification Objectives

- Worked with Colfax County to complete new Shell Creek South Channel Improvement/Benching Projects.
- Partnered with Dodge County and Fremont to support drainage improvements east of Fremont through FEMA.
- Partnered with the North Bend Drainage District, Dodge County, and City of Fremont to support the drainage improvement project for the North Bend drainage ditch through FEMA.
- Continue to oversee the Rawhide Creek West Branch Project to ensure that landowners properly control vegetation.
- Continue providing assistance to Platte Center with stabilizing segments of Elm Creek.

FY 2025-2029 Drainage Improvement & Channel Rectification Long Range Objectives

- Evaluate potential technical and funding assistance to counties, cities, and other entities in the district that sponsor sound drainage and channel improvement projects.



Over 30 years ago, vast changes occurred in Nebraska's solid waste regulations. Landfills that weren't properly designed, operated, or sited were required to shut down, as were unauthorized dumps. In order for a landfill to operate, it must be approved by the State and receive a permit. If a permit is not issued, the landfill cannot legally operate. Currently, the only permitted landfill in the Lower Platte North NRD is a facility near David City.

FY 2024 Waste Disposal & Pollution Objectives

- Promote recycling efforts in the district through education programs, newsletters, and news releases.
- Participate in education efforts to promote the reduction of pollution to our air, water, and soil resources.
- Cooperate and be supportive of other group and agency pollution control efforts, education, and/or regulation.

FY 2025-2029 Waste Disposal & Pollution Long Range Objectives

- Assist and encourage all District communities in establishing collection locations for recyclable wastes.
- Assist District cities and counties in establishing pickup days for hazardous household and farmstead wastes as opportunities arise.
- Promote waste reduction efforts in the district through education and incentives.



A major responsibility of the Lower Platte North NRD is to keep the public aware of the district's various projects and programs, and to inform and educate children and adults about the wise use and management of our natural resources.

FY 2023 Information & Education Activities

During fiscal year 2023, the Lower Platte North NRD conducted many activities to help residents learn the importance of our soil and water resources and to stay informed of issues and concerns regarding natural resources. Some of the highlights included the following.

Publications and Marketing

The NRD distributes two newsletters each fiscal year. The Winter issue of "The Viaduct" newsletter includes an additional page that contains the Annual Report. In FY 2012, the district switched distribution of "The Viaduct" newsletter from direct mail subscriptions to inserts in area newspapers. In FY 2023, more than 20,000 copies of each newsletter were distributed in eight newspapers and via email. Copies of the newsletter are also available on the website at www.lpnrd.org/downloads.

Various brochures describing LPNNRD programs and services were updated as needed in FY 2023. These brochures are displayed in the office and distributed during LPNNRD sponsored events and exhibit booths.

Press releases are distributed to district newspapers, email lists and radio stations. Numerous ads spotlighting different NRD programs and upcoming deadlines air on KTIC Radio throughout the year. Digital ads on the Wahoo newspaper website continued in FY 2023. In FY 2020, the LPNNRD began airing 30-second program commercials on News Channel Nebraska covering the various

departments of the LPNNRD. In FY2023, a recreation video featuring Czechland Lake, Homestead Lake, and Lake Wanahoo was produced and aired on News Channel Nebraska.

The NRD continues to maintain information and education outreach for the district through the use of social media outlets on Facebook, Twitter, and YouTube. These outlets are maintained weekly and provide information along with photos and videos about the district's ongoing activities and events.

Website

The NRD's website at www.lpnrd.org contains information on nearly all of the district's projects and programs, along with staff information, board of directors information, as well as committee and board meeting minutes, and district publications. Online applications and registration forms for various projects and programs are also available. Additionally, online payment capabilities continue to allow customers to pay for trees, rural water bills, and Lake Wanahoo permits. The website continues to be updated frequently.

Video Promotion

Beginning in FY 2018, 60-second, and 30-second videos were created to promote the conservation efforts of departments of the NRD. Past directors, current directors, and current staff have been featured in the videos. Promotional videos have been created for the Water Department, Operations & Maintenance department, Projects department, Information and Education department, and the three LPNNRD recreation areas (Czechland Lake, Homestead Lake, and Lake Wanahoo). Clips from all of the videos are combined to create one video that features portions of each department at the LPNNRD. These videos are shown as educational purposes for presentations, on the LPNNRD website,

commercials through area television stations, and featured on social media platforms.

Education Programs

During FY 2023, the district continued with two year-long programs. The St. Wenceslaus Pre-kindergarten students learn about wildlife, trees, birds, soil and water conservation through books, pictures, stories, and hands-on activities. The students visited Lake Wanahoo at the end of the year for a field trip filled with nature hikes, nature crafts, and disc golf. The district teamed up with Wahoo Public middle school students for the Survival Club program, making a total of three school years of the program. LPNNRD staff and other outdoor enthusiasts met monthly with students during the school year to learn about hiking, knot tying, 2-legged predators, 4-legged predators, fishing, first aid, foraging for wild foods, fire building and other outdoor survival skills. Opening up the program to the whole middle school had student attendance consistent with almost 30 students for the campfire building exercise and an average of 10 students per month. The end of the year camp out at Lake Wanahoo will be a priority in FY 2024. Trinity Lutheran Middle School met with Staff at Lake Wanahoo for a half day event, where we worked through survival club activities such as knot tying, 2 and 4 legged predators, everyday carry kits, foraging for wild foods, campfire building, and campfire cooking.

The district continues to participate in the Career Exploration Opportunities (CEO) Program with Wahoo Public Schools. During the fall semester of 2023, LPNNRD staff hosted one high school senior and he rotated between each department to learn about the LPNNRD responsibilities. The district will host another student during the fall of FY 2024. This student will be with staff every day from 1:30-3:30 but will drop down to three days a week starting in November.

The Clint Johannes Education Building is utilized for events of all kinds. Local teachers and other organizations will use it for their

students and staff as a meeting space with a great view and amenities. The LPNNRD utilizes the building for educational events each month. The event, Coffee Lakeside, has impacted close to 100 people, who meet in the building once a month. Topics included wildflowers, fireflies, animal adaptations, fall activities, phenology, nature based play, lake ecosystems, water flower identification, fungi, and more. All other NRD related events are also hosted in the building or another location at Lake Wanahoo.

Seven new events were held at the LPNNRD with a total of 10 held throughout the fiscal year. Wildflowers and Wine and All About Bees were two repeating events that continue to draw in large crowds. These events center around pollinators, their habitat, and how we can continue to provide natural places on both small and large scales to aid in the conservation of these species. The new events offered were: Trivia and Game Nights; Back to School Night; 1st Annual Fall Festival; Native American Heritage Day; Natural Resources Camp; Community Fishing Event; and Nocturnal Nights. These events drew in participants of all ages with some returning and some new individuals. Staff also participated in the county-wide, Kid's Summer Institute, that ran all of June. Students participated in dip netting for macroinvertebrates; birding; disc golf; nature journaling; and wild about wildflowers. These classes were held at Lake Wanahoo. Staff met with North Bend Public Library and Yutan Public Library for story time hours where owl pellets were dissected and birds were studied. Some of the FY 2023 events were made possible by partnerships with other agencies, organizations, and businesses. Strengthening these relationships and exploring new ones will continue to be a goal for FY 2024.

The Lower Platte North NRD and Lower Platte South NRD rotate in hosting the East Central Land Judging Contest. Land Judging is a competition for high students that challenges them to gain a better understanding of soil structure and land evaluation. The Lower Platte North NRD works with local NRCS employees to choose a site location and help with site

preparation. The Lower Platte North NRD staff and NRCS staff will assist in the preparation, contest monitoring, and scoring efforts during the contest. The East Central Land Judging Contest was held by Lower Platte North NRD on October 5th, 2022. 253 students competed in this event. The Area 5 Range Judging Contest was also held in FY 2023, where staff at the LPNNRD helped host the competition. 260 students competed in this event that was held at Camp Moses Merrill.

The annual LPNNRD Spring Conservation Sensation was held on May 3rd at Lake Wanahoo. Fifth and sixth grade students from Saunders, Butler, and Dodge Counties participated in various activities. Hands-on activities were presented by LPNNRD staff, additional personnel from various agencies and organizations, and volunteers to teach students about the environment, natural resources, tree planting, lake ecosystems, wildlife education and more. 300 students attended the event.

The second annual LPNNRD Natural Resources Camp was held at Lake Wanahoo. For one week, attendees learned how to fish, how to go birding, about the amphibians and reptiles of Nebraska, and insects, both macroinvertebrates they found in the lake and the land dwelling butterflies and moths. Eight boys attended the week-long camp. The hands-on activities were the students favorite parts per their evaluations and they are looking forward to returning next summer. The goal for FY 2024 is a full camp of 15 attendees, and new activities such as fire starting and campfire cooking, and archery.

Test Your Well Event is a program that partners with area FFA chapters to host public events, providing nitrate testing of water samples from private wells at no cost to the attendees. The district held 3 events in FY 2023 that involved over 20 students. The goal for FY 2024 is to have every FFA chapter in our district host a test your well night.

Staff at the LPNNRD went into 29 classrooms, attended 2 outdoor classrooms days, held 6 field trips, and interacted with every grade level Pre-K through 12th. Four new schools,

Aquinas Catholic, Trinity Lutheran, Lindsay Holy Family, and Fishers School (Schuyler), invited us into their classrooms this year amongst other schools we've previously attended. Some of the goals for FY 2024 involve finding teachers in school districts such as North Bend, Mead, or Yutan, where we haven't previously been to, and work with them to bring fun and educational activities to their classrooms. Staff is also pushing Coffee Lakeside out of Wahoo and into other communities. North Bend Public Library will be hosting a Coffee Lakeside in the fall of FY 2024.

District staff provided various presentations and activities during natural resources festivals, field days, out-of-school time programs, school classrooms, online activities on the LPNNRD website, and adult education events. As a result of the district's educational outreach efforts, there was interaction with approximately 2,774 youth and 300 adults in FY 2022. These numbers do not include the 513 students who participated in Land and Range Judging. The interactions this fiscal year brought us to over 1,000 more student participants than the previous year. LPNNRD will strive for even more interactions in the years to come.

Awards, Contests, and Events

In addition to marketing efforts, the LPNNRD provides a physical presence with exhibit booths at local county fairs, agriculture expos and other events across the district. In FY 2023, exhibit booths were displays at the Soybean Day in Wahoo, Fremont Corn Expo, Career Fair at Midland University, Fremont Eco Fair, and Butler County Fair. Donations were provided to the Saunders County Fair and Dodge County Fair. Materials at the events included brochures of the NRD's projects and programs, and various promotional items.

The Lower Platte North NRD offers three \$1,000 scholarships for graduating seniors who have been involved in the Shell Creek Watershed Monitoring Program and plan to pursue higher education relating to science or natural resources. The Shell Creek Watershed

Improvement Group (SCWIG) prioritizes education outreach to improve public awareness of the project and encourage conservation with best management practices. Newman Grove High School, Lakeview Community Schools, and Schuyler Central High School are involved with the conservation efforts in the watershed. The students spend their summers collecting samples and measurements, analyzing data, and reporting results to determine water quality of the stream.

FY 2024 Information & Education Objectives

- Publish the district newsletter “Viaduct” biannually in an electronic format and as a printed newspaper insert in 10 area newspapers.
- Send timely news releases to the local media on various LPNNRD programs, projects, and activities.
- Disperse pamphlets and other publications about LPNNRD programs.
- Update the district’s website frequently.
- Continue to provide a display at county fairs or agriculture events (up to five major counties) within the district.
- Continue information and education outreach for the district through the use of tools such as local radio stations, local TV stations, and social media outlets (Facebook, Twitter, YouTube, etc.).
- Continue with the annual awards and recognition program.
- Provide district elementary students with free trees, as requested, in the spring.
- Provide LPNNRD staff as requested to speak to community organizations and schools on NRD activities and environmental topics.
- Provide various education programs, events, and activities to area schools and out-of-school time programs.
- Host the East Central Region Land Judging Contest in the fall of 2022.
- Host the 32nd Spring Conservation

Sensation in May 2023.

- Develop new programs and promotional projects to aid in outreach efforts of the district.
- Develop a video for the three recreation areas in the district.
- Provide assistance and publications for the students involved in the Shell Creek Watershed Monitoring Program.
- Continue to provide a scholarship for graduating seniors in the Shell Creek Watershed Monitoring Program who plan to pursue higher education relating to science or natural resources.

FY 2025-2029 Information & Education Long Range Objectives

- Search for new and effective ways to inform and educate the public on the NRD purpose and programs.
- Participate with the Information & Education Staff Group to coordinate statewide I&E activities and produce statewide products.
- Increase participation in activities sponsored by other agencies relating to the NRD’s responsibilities.
- Seek to have conservation/environmental education as a part of the school curriculum.
- Support environmental education activities and events throughout the district, and neighboring NRDs.
- Provide assistance for the East Central Region Land Judging Contest in the fall of 2023, hosted by Lower Platte South NRD.
- Assist in the development of an outdoor classroom for a district school.
- Partner with district schools to host Test Your Well Events annually.



LPNNRD Staff

The staff of the Lower Platte North NRD includes 19 full-time and 11 part-time/seasonal employees. The NRD administers a full-time field technician, four field office assistants in Natural Resource Conservation Service county offices, and a Recreation Facilitator for Czechland & Homestead Lake Recreation Areas.

Included in the part-time positions, the district employs seasonal conservation technicians to assist in the layout of land treatment structures. There are seasonal summer employees hired to help with Lake Wanahoo, water sampling, tree planting, and maintenance of LPNNRD projects. Personnel positions and assigned responsibilities may increase in the future as increased project and program responsibilities increase.

Current staff as of September 1, 2023:

Sydney Abbott, **Education Coordinator**
 Daryl Andersen, **Water Resources Manager**
 Jill Breunig, **Bookkeeping Department Head/Administrative Assistant**
 Will Brueggemann, **Water Resources Specialist**
 Ryan Chapman, **Assistant General Manager**
 Duke Dokulil, **Operations & Maintenance Technician**
 Sean Elliott, **Projects/Rural Water Manager**
 Noah Franzen, **Water Resources Specialist**
 Eric Gottschalk, **General Manager**
 Bob Heimann, **Operations & Maintenance Manager**
 David Moore, **Operations & Maintenance Technician**
 Russell Oaklund, **Lead Water Resources Specialist**
 Dave Odvody, **Recreation Facilitator**
 Karen Rezac, **Department/Administrative Assistant**
 Lacey Sabatka, **Information Coordinator**
 Bret Schomer, **Wanahoo Recreation Supervisor/Water Resources Specialist**
 Drew ten Bensel, **Grants/GIS**

Staff Support for NRCS Offices:

Adam Brockman, **Conservation Technician**
 Kimberly Piitz, **NRD/NRCS Field Office Assistant (Butler County)**
 Kristin Miller, **NRD/NRCS Field Office Assistant (Colfax County)**
 Jessica Marty, **NRD/NRCS Field Office Assistant (Dodge County)**
 Marla Milliken, **NRD/NRCS Field Office Assistant (Saunders County)**

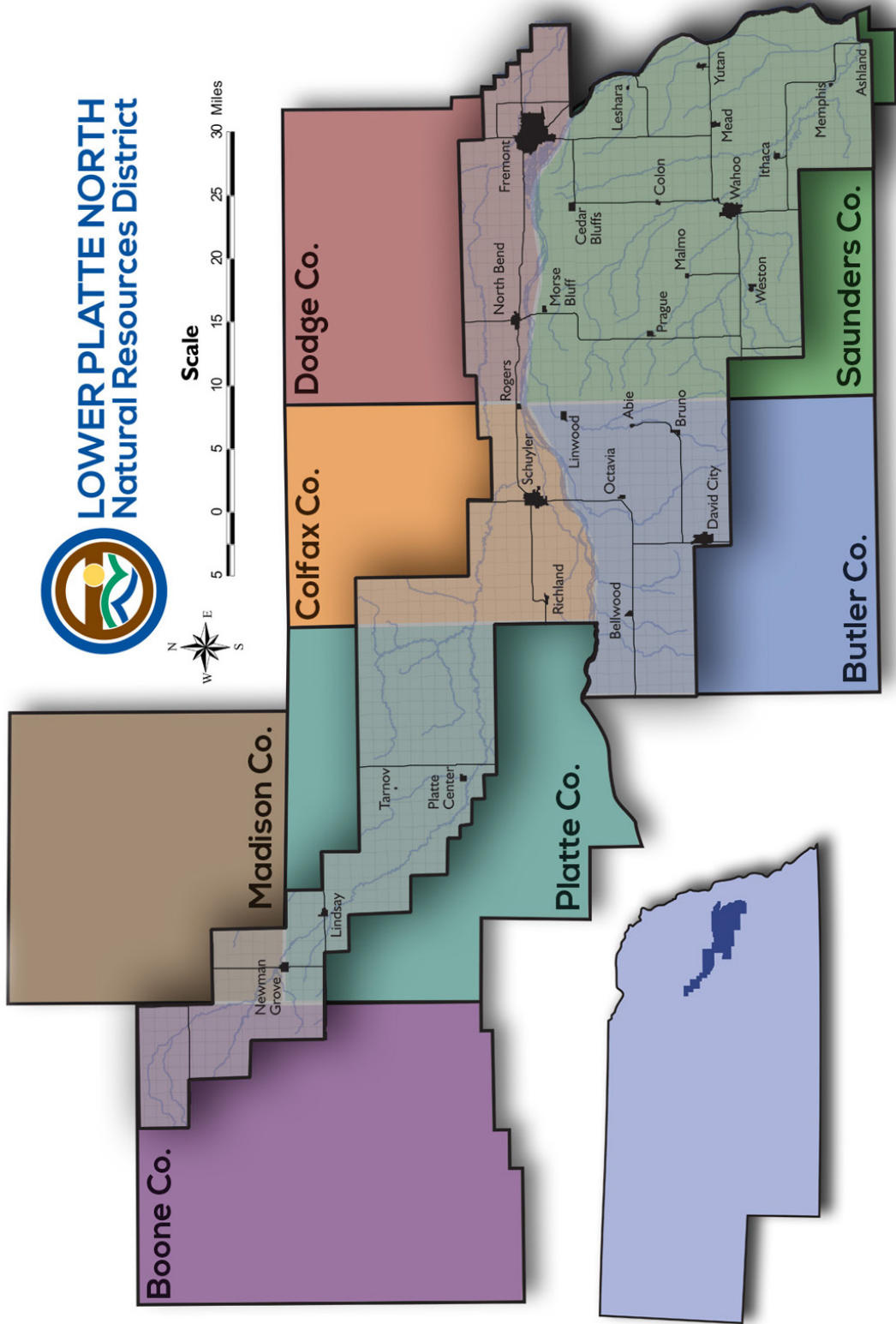


FY 2024 Financial Objectives

- Funding required for the LPNNRD projects and programs for Fiscal Year 2024 requires a general operating budget of \$ 8,761,805 of which \$ 3,480,715 is required from the district's local tax levy. The FY 2024 tax levy of .028652 cents per \$100 actual valuation is required from District property. Projected expenses and income for FY 2024-2029 are shown in Appendix F.
- A tax levy of .028652 means that an owner of a \$150,000 home will pay \$ 42.98 in NRD taxes in FY 2024. An owner of farm land valued at \$7,000 per acre will pay \$ 2.00 an acre/year to the NRD in FY 2024. The LPNNRD levy represents about two percent of the total property tax collected.

FY 2025-2029 Financial Long Range Objectives

- Although it is expected that the amount of revenue from all sources will fluctuate during the next few years, it is anticipated that the LPNNRD will operate at a mill levy between \$0.035 and \$0.055 per \$100 actual valuation as the District continues to assist with flood reduction project priorities and to address our responsibilities with groundwater water quality and quantity management.



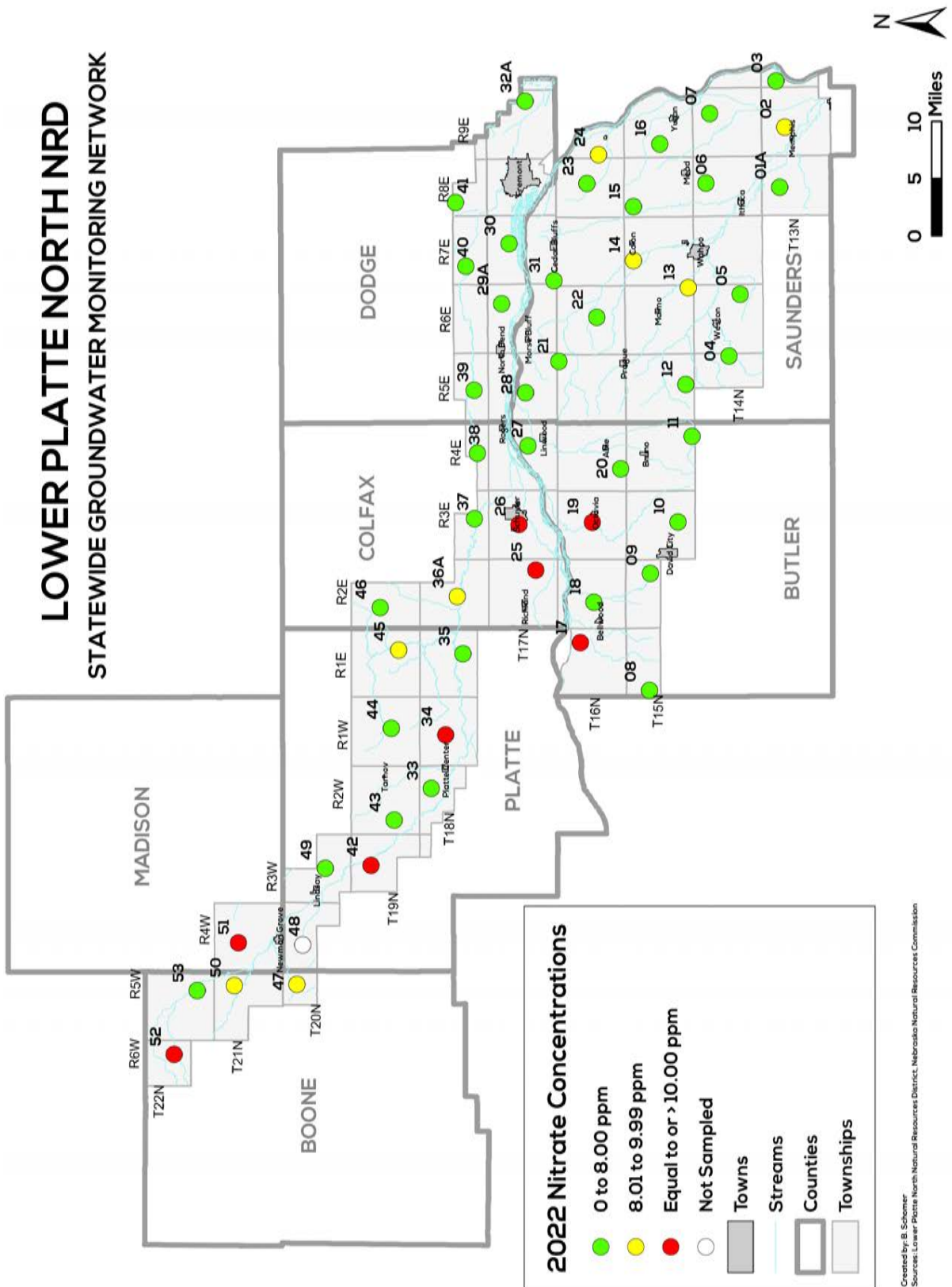


APPENDIX B – Estimated Population by County

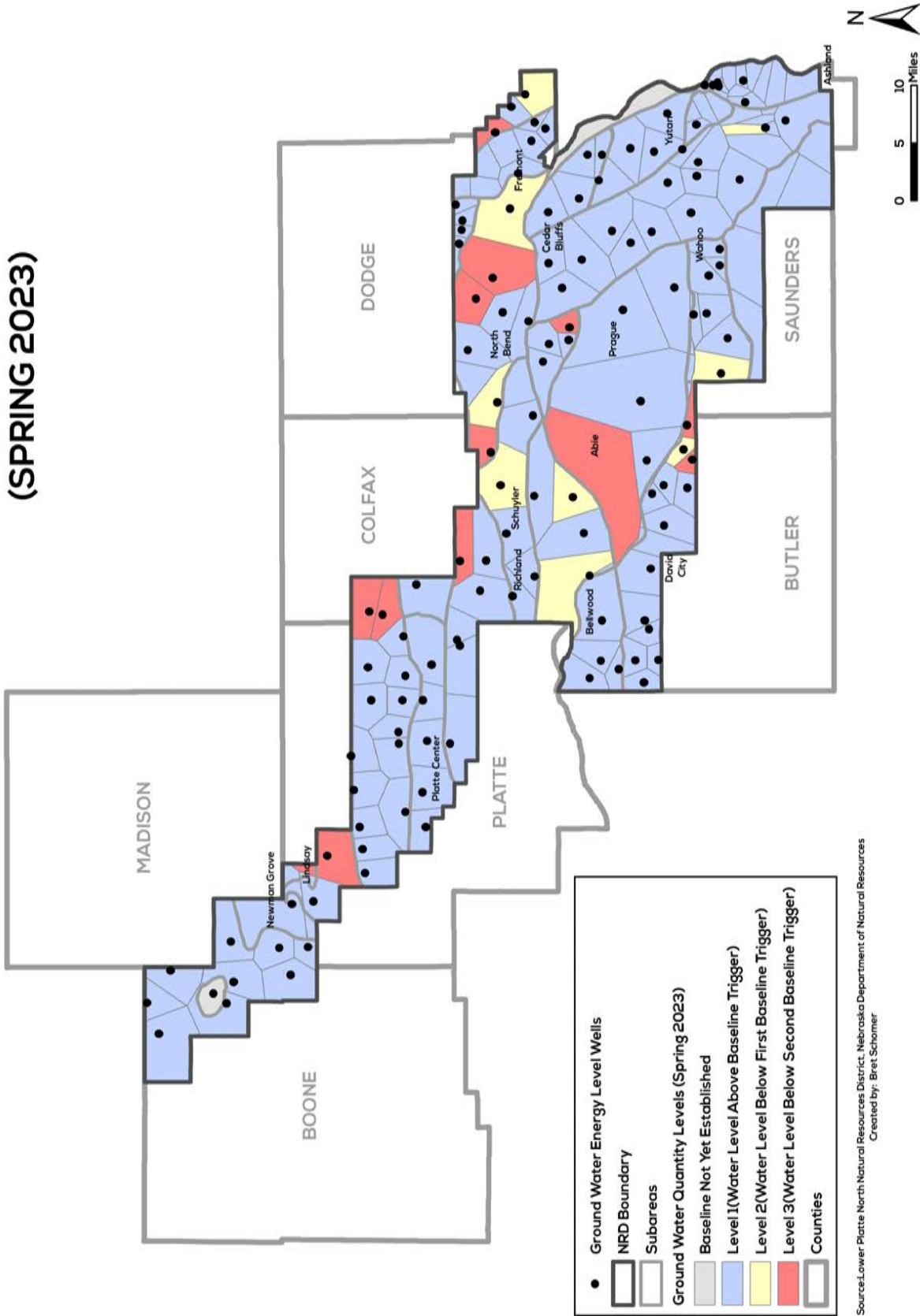
COUNTY	% OF COUNTY IN DISTRICT	ACRES IN DISTRICT	RURAL POPULATION IN DISTRICT	URBAN POPULATION IN DISTRICT	TOTAL
Boone	12.78	56,175	173	0	173
Butler	44.38	167,700	1,815	3,763	5,578
Colfax	40.76	108,582	1,069	6,699	7,768
Dodge	31.96	111,147	3,017	28,800	31,817
Madison	6.25	22,998	155	667	822
Platte	37.78	165,401	2,196	668	2,864
Saunders	81.39	395,098	7,477	8,948	16,425
TOTAL		1,027,101	15,902	49,545	65,447

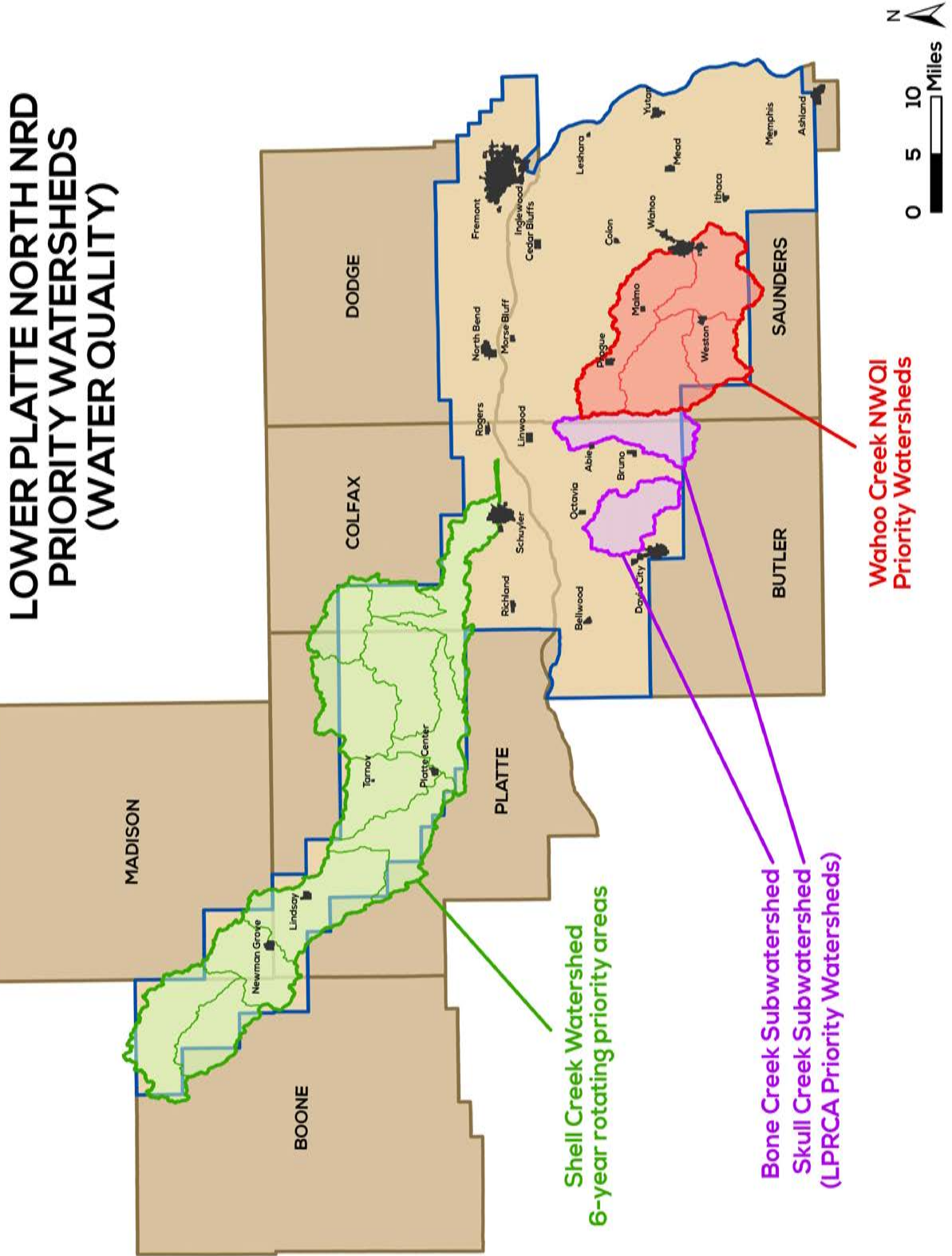
Twenty-eight cities, towns and villages are located within the Lower Platte North NRD, listed below with their populations (according to 2020 United States Census):

Abie	65	Memphis.....	109
Ashland	3,086	Morse Bluff	117
Bellwood.....	407	Newman Grove.....	667
Bruno	95	North Bend.....	1,279
Cedar Bluffs	615	Octavia	107
Colon.....	107	Platte Center	333
David City.....	2,995	Prague	291
Fremont	27,141	Richland	70
Inglewood.....	380	Rogers.....	82
Ithaca	160	Schuyler	6,547
Leshara	108	Tarnov	52
Lindsay	283	Wahoo	4,818
Linwood	94	Weston	250
Malmo	94	Yutan.....	1,347
Mead.....	617		



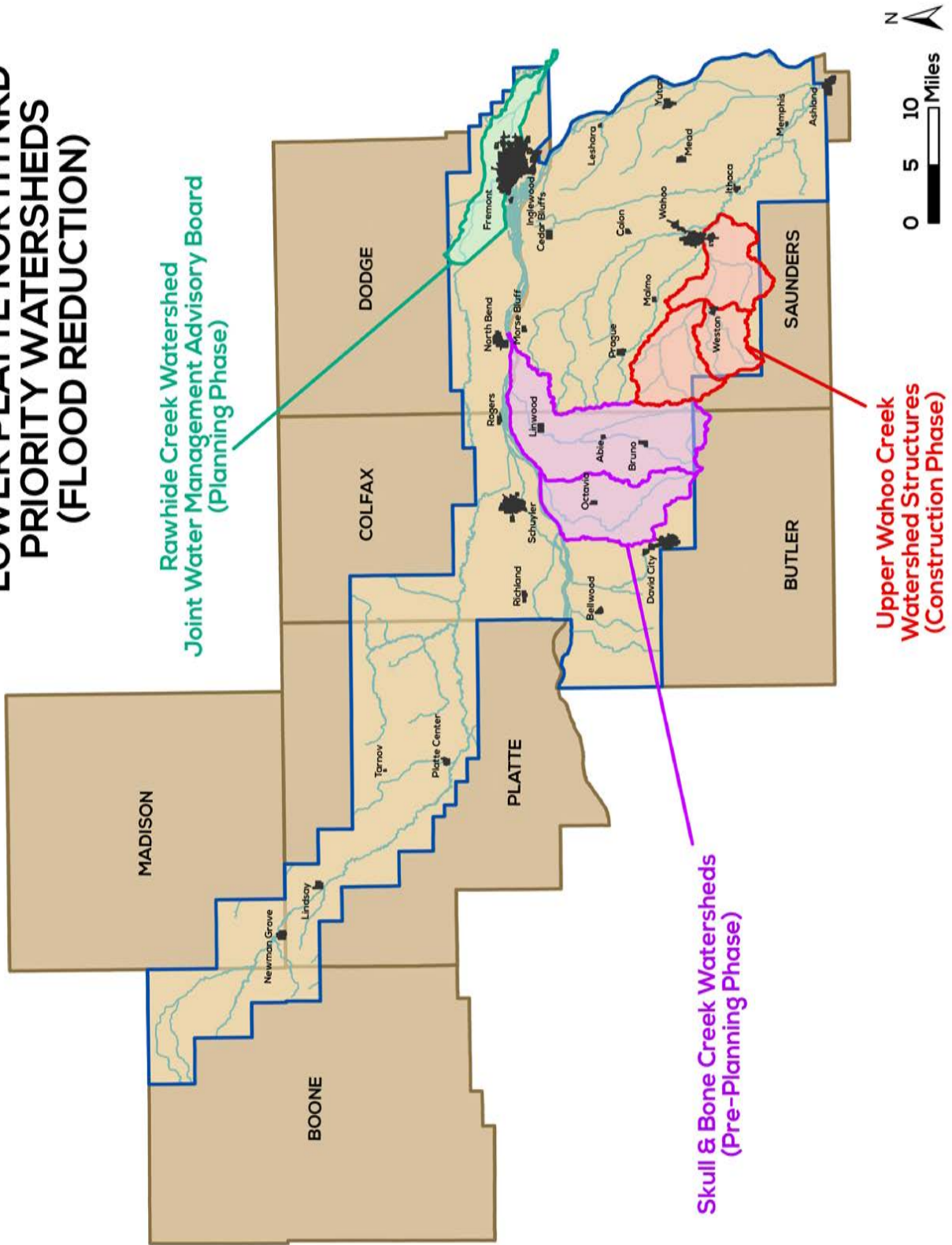
**LOWER PLATTE NORTH NRD
GROUNDWATER ENERGY LEVEL NETWORK
(SPRING 2023)**







LOWER PLATTE NORTH NRD PRIORITY WATERSHEDS (FLOOD REDUCTION)



APPENDIX G – Projected Budget Income, Fiscal Years 2024-2029



Description	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
AVAILABLE CASH (Sinking Funds, etc.)	\$304,410	\$812,848	\$869,898	\$913,392	\$959,062	\$1,007,015
FEDERAL INCOME						
NRCS (WFPO & RCPP)	\$499,610	\$3,500,000	\$5,000,000	\$2,000,000	\$0	\$0
FEMA (Stilling Basin)	\$2,709,600	\$0	\$0	\$0	\$0	\$0
FEMA (Flood Funds)	\$392,500	\$0	\$0	\$0	\$0	\$0
NDEE (EPA 319)	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000
State JEDI Funds	\$1,000,000	\$2,000,000	\$4,000,000	\$4,000,000	\$4,000,000	\$0
STATE INCOME						
NE Buffer Strip Program	\$52,000	\$54,000	\$56,000	\$58,000	\$60,000	\$0
Decommissioned Well Fund	\$3,500	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000
Natural Resource WQ Fund	\$52,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
Shell Creek Implementation	\$43,829	\$10,000	\$10,000	\$0	\$0	\$0
Water Sustainability Fund	\$133,031	\$500,075	\$500,075	\$500,075	\$0	\$0
Sand Creek - NRDF	\$22,000	\$0	\$0	\$0	\$0	\$0
Lake Wanahoo Other	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
Wild NE	\$3,820	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000
Motor Vehicle Prorate	\$8,400	\$8,400	\$8,400	\$8,400	\$8,400	\$8,400
OTHER INCOME						
Rural Water Income	\$134,000	\$140,000	\$143,000	\$150,000	\$150,000	\$150,000
Property Tax	\$3,480,715	\$3,480,715	\$3,480,715	\$3,480,715	\$3,480,715	\$3,480,715
Investment Income	\$125,000	\$125,000	\$100,000	\$100,000	\$100,000	\$100,000
Equipment, Rent, Parks, Salaries, Etc.	\$625,192	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000
Local Income	\$118,940	\$130,000	\$130,000	\$130,000	\$130,000	\$130,000
TOTAL	\$9,928,547	\$11,539,038	\$15,078,088	\$12,118,582	\$9,666,177	\$5,654,130



APPENDIX H – Projected Budget Expenses, Fiscal Years 2024-2029

ADMINISTRATION						
	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Bonds	\$100	\$100	\$100	\$100	\$100	\$100
Dues & Memberships	\$39,000	\$40,000	\$41,000	\$43,000	\$44,000	\$45,000
Fees & Licenses	\$11,465	\$11,924	\$12,401	\$12,897	\$13,200	\$13,200
GIS	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
Insurance	\$76,174	\$79,221	\$82,390	\$85,685	\$89,113	\$92,677
Interest Expense	\$	\$0	\$0	\$0	\$0	\$0
Legal Notices	\$,812	\$2,925	\$3,042	\$3,163	\$3,290	\$3,421
Maintenance Contracts	\$5,356	\$5,570	\$5,793	\$6,025	\$6,266	\$6,516
Office Supply & Expense	\$12,276	\$12,767	\$13,278	\$13,809	\$14,361	\$14,936
Computer Supply & Expense	\$32,000	\$33,000	\$34,000	\$35,000	\$36,000	\$37,000
Postage	\$7,030	\$7,312	\$7,604	\$7,908	\$8,225	\$8,554
Professional Services	\$140,000	\$142,000	\$142,000	\$144,000	\$148,000	\$149,000
Rent Expense	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
Support to Organizations	\$1,300	\$1,400	\$1,500	\$1,600	\$1,600	\$1,600
Telephone	\$20,659	\$21,485	\$22,344	\$23,238	\$24,168	\$25,134
Utilities	\$9,194	\$9,561	\$9,944	\$10,342	\$10,755	\$11,185

INFORMATION & EDUCATION						
	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Education	\$12,438	\$12,936	\$13,453	\$13,992	\$14,551	\$15,133
Information	\$32,394	\$33,690	\$35,037	\$36,439	\$37,896	\$39,412
Scholarships & Grants	\$3,245	\$3,375	\$3,510	\$3,650	\$3,796	\$3,948
Other	\$10,546	\$10,967	\$11,406	\$11,862	\$12,337	\$12,830

OPERATION & MAINTENANCE						
	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Auto & Truck Expense	\$23,795	\$24,747	\$25,737	\$26,766	\$27,837	\$28,950
Building Maintenance	\$10,059	\$10,461	\$10,880	\$11,315	\$11,767	\$12,238
Community Forestry Program	\$2,500	\$2,500	\$3,000	\$3,000	\$3,000	\$3,000
Operation & Maintenance	\$310,149	\$322,555	\$335,457	\$348,875	\$362,830	\$377,343
Project Repairs	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
Stream Bank Stabilization	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
Wildlife Habitat	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
Other	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000

PERSONNEL						
	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Directors Expense	\$41,858	\$43,532	\$45,274	\$47,084	\$48,968	\$50,927
Directors Per Diem	\$38,000	\$38,000	\$38,000	\$38,000	\$38,000	\$38,000
Employee Benefits	\$500,781	\$520,812	\$541,645	\$563,310	\$585,843	\$609,276
Payroll Taxes	\$100,589	\$104,612	\$108,797	\$113,149	\$117,675	\$122,382
Personnel Expense	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000
Salaries	\$1,342,880	\$1,383,166	\$1,424,661	\$1,467,401	\$1,490,000	\$1,540,000

APPENDIX H – Projected Budget Expenses, Fiscal Years 2024-2029



PROJECTS

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Inter-governmental	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000
Special Projects	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000
Wanahoo	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
Other Projects	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000

PLATTE RIVER CORRIDOR ALLIANCE

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
WQ Monitoring	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000

WATER

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Groundwater Management Plan	\$50,000	\$60,000	\$65,000	\$70,000	\$75,000	\$75,000
Groundwater Programs	\$195,932	\$203,769	\$211,920	\$220,397	\$229,213	\$238,381
Regulatory	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
Surface Water Programs	\$18,000	\$18,000	\$18,000	\$18,000	\$18,000	\$18,000
Special Projects	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
Land Treatment	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000

RURAL WATER DISTRICT

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Rural Water District	\$150,580	\$156,604	\$162,868	\$169,382	\$176,158	\$183,204

CAPITAL IMPROVEMENTS

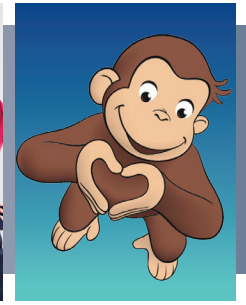
	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Wanahoo Stilling Basin & Oversight	\$0	\$0	\$0	\$0	\$0	\$0
Wanahoo Improvements	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
Wahoo Creek Dams	\$1,277,500	\$3,500,000	\$2,450,000	\$2,100,000	\$0	\$0
Land Rights (Wahoo Creek)	\$547,500	\$1,500,000	\$1,050,000	\$900,000	\$0	\$0
Fremont/Dodge County Drainage	\$440,000	\$440,000	\$440,000	\$440,000	\$440,000	\$0
Skull/Bone Creek	\$0	\$0	\$0	\$400,000	\$400,000	\$400,000
Cottonwood 21A Spillway	\$50,000	\$50,000	\$0	\$0	\$0	\$0
Buildings	\$500,000	\$500,000	\$500,000	\$40,000	\$40,000	\$40,000
Large Structure O&M Sinking Fund	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
Flood Reduction Sinking Fund	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000

CAPITAL OUTLAY

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Capital Outlay	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000

BUDGET TOTAL

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
BUDGET TOTAL	\$8,514,111	\$11,804,990	\$10,370,038	\$9,929,389	\$7,029,947	\$5,189,749



Five Television Channels

Since we signed on the air in 1954 with our first television channel, we've told stories from farmers' fields, the downtown coffee shop and city streets. Our work is essential – and possible because of support from our business partners and members.

Nebraska Public Media

Watch nine hours of PBS KIDS educational programming each weekday, plus PBS programs such as *Masterpiece*, *NOVA*, *NATURE*, *Antiques Roadshow* and *PBS NewsHour* during primetime. This channel also includes local favorites like *Big Red Wrap-Up*, *Nebraska Stories* and *Backyard Farmer*, plus high school and collegiate sports coverage, and award-winning local news and documentaries.

World

Our World channel informs and inspires with real stories. Watch PBS documentaries, news and public affairs programming, plus live gavel-to-gavel coverage of the Nebraska Legislature and other venues including the Governor's Hearing Room and the Supreme and Appellate Courts.

Create

Our Create channel inspires home-improvement buffs, feeds food fans and takes viewers around the world with travel programming. Watch gardening and arts and crafts programming, as well as programs dedicated to improving health and well-being.

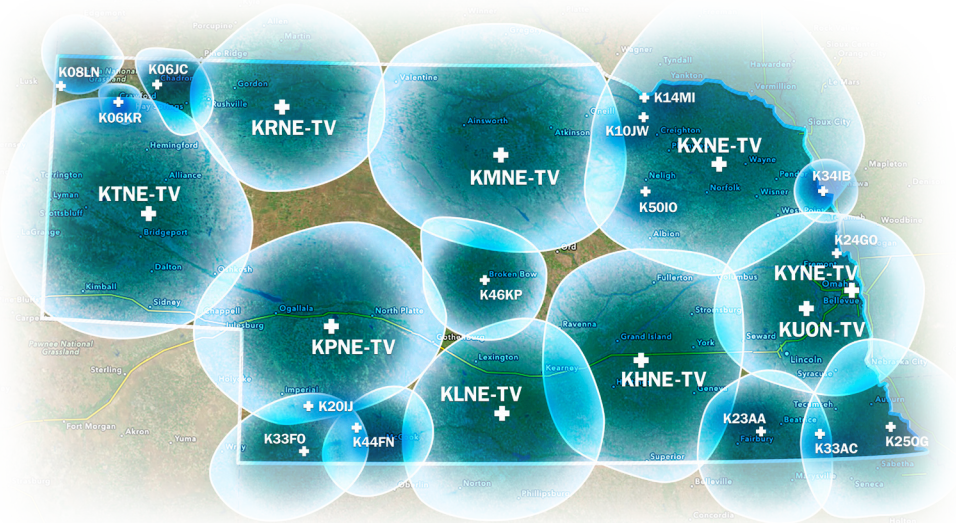
PBS KIDS

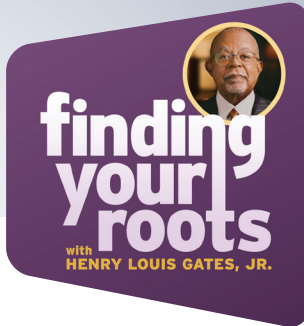
PBS KIDS programs broadcast 24/7, including primetime hours when families watch TV together. *(No underwriting opportunities available at this time.)*

FNX|First Nations Experience

FNX is the first and only national broadcast television network exclusively devoted to Native American and World Indigenous content. *(No underwriting opportunities available at this time.)*

**Television
Coverage Map**
VISIT
NebraskaPublicMedia/television.org
for additional details.





Television Rate Schedule

:30 spots Minimum \$1,500 Buy

Monday – Friday, Sunday	6:00 am – 3:00 pm 5:00 am – 10:30 am	Children’s Programming	\$30 per :30 spot
Monday – Friday	3:00 pm – 6:00 pm	Early Fringe	\$40 per :30 spot
Monday – Sunday	6:00 pm – 11:00 pm	Primetime	\$60 per :30 spot
Saturday	6:00 am – 6:00 pm	Saturday Morning/Daytime	\$50 per :30 spot
Sunday	10:30 am – 6:00 pm	Sunday Morning/Daytime	\$50 per :30 spot



BE PART OF THE CELEBRATION

with Nebraska Public Media Sports

2023-2024 High School Sports Packages



High School Softball Championships Package **\$1,500**
 (3) spots across all classes (A, B, C)
 Event Date: Mon 10/16/23

High School Volleyball Championships Pkg **\$3,000**
 (6) spots across all classes (A, B, C1, C2, D1, D2)
 Event Date: Sat 11/4/23



High School Bowling Championships Package **\$4,000**
 (8) spots across all classes (Boys A & B, Girls A & B)
 Event Date: Feb 2024 Date TBD

High School Wrestling Championships Package **\$1,000**
 (2) spots across event
 Event Date: Sat 2/17/24



High School Swimming & Diving Championships Pkg **\$1,500**
 (3) spots across event
 Event Date: Sat 2/24/24

High School Girls Basketball Championships Pkg **\$3,000**
 (6) spots across all classes (A,B, C1, D1, C2, D2)
 Event Date: Fri 3/2/24



High School Boys Basketball Championships Pkg **\$3,000**
 (6) spots across all classes (A, B, C1, D1, C2, D2)
 Event Date: Sat 3/9/24

High School Boys Baseball **\$1,500**
 (3) spots across all classes (Boys A, B, C)
 Event Date: Sat 5/11/24 and Tues 5/14/24



NE Coaches Association All Star Sports Package **\$2,000**
 (8) All Star Spots, (2) in each event
 Girls BB, Boys BB, Girls VB and Girls SB
 Event Dates: June, July 2024

To sponsor today, contact:

Abbie Sabata, Corporate Support Representative
 asabata@nebraskapublicmedia.org | 402-470-6397



Backyard Farmer Sponsorship

Backyard Farmer has been dedicated for more than 65 years to helping viewers find solutions to lawn and garden questions. Every year from spring to fall, our panel of experts deals with topics from insect pests and disease, turf, and fruits and vegetables to landscape design and general horticulture topics.



Contact:

Abbie Sabata

Corporate Support

asabata@nebraskapublicmedia.org

402-470-6397

"Backyard Farmer" Sponsorship \$5,000

- (24) episodes of "Backyard Farmer" One-Hour Show airing Thursdays at 7pm, starting April 8th
- Includes the development of (1) :30 spot utilizing your company video or photos for content to create your message that will air in rotation at the top or bottom of each episode
- Monthly payments from April – September (or shorter payment options available)



VarianceNumber	Applicant	ApplicantAlias	ApplicationType	County	SubArea	RankingRegion	RankingScore	Acres	Acre Feet	Section	Township	Range	RangeDir
LPN-V-023-0589	Larry J Scott		new	Saunders	Leshara Uplands	NHCA	382	125	21.71	26	17	7	E
LPN-V-023-0590	JS Acres, LLC	Jeff Scott	expansion	Saunders	Leshara Uplands	NHCA	422	60	7.587	36	17	7	E
LPN-V-023-0591	Eric Nelson		new	Saunders	Leshara Uplands	NHCA	443.2	125	23.82	24	16	8	E
LPN-V-023-0592	John Kremlacek		new	Saunders	Weston	NHCA	399.6	75	15.15	5	14	6	E
								385	68.267				

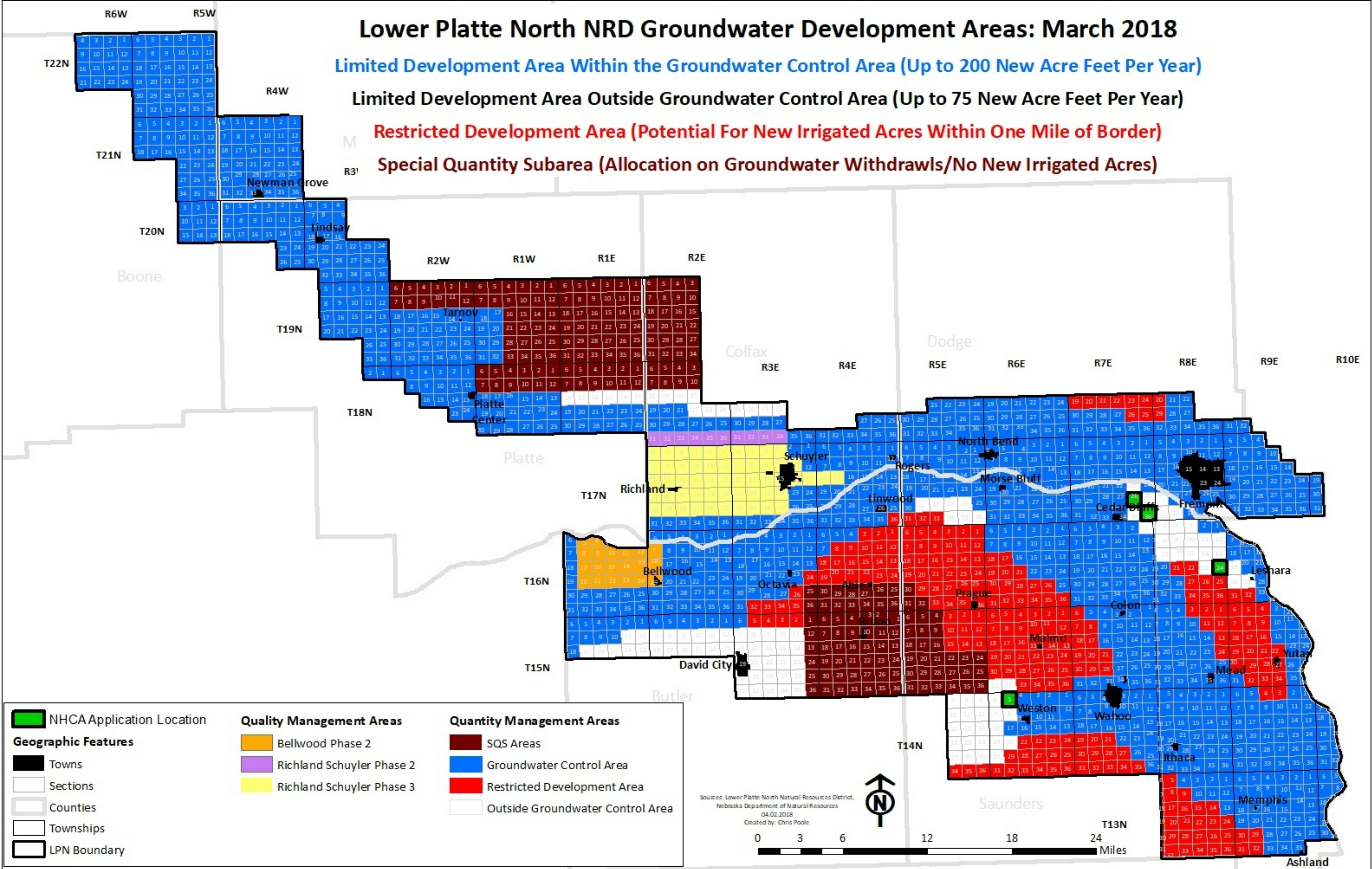
Lower Platte North NRD Groundwater Development Areas: March 2018





Limited Development Area Within the Groundwater Control Area (Up to 200 New Acre Feet Per Year)

Limited Development Area Outside Groundwater Control Area (Up to 75 New Acre Feet Per Year)

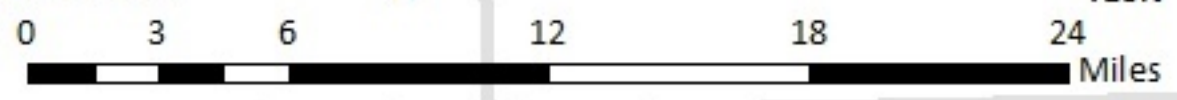
Restricted Development Area (Potential For New Irrigated Acres Within One Mile of Border)

Special Quantity Subarea (Allocation on Groundwater Withdrawals/No New Irrigated Acres)



 NHCA Application Location	Quality Management Areas	Quantity Management Areas
 Towns	 Bellwood Phase 2	 SQS Areas
 Sections	 Richland Schuyler Phase 2	 Groundwater Control Area
 Counties	 Richland Schuyler Phase 3	 Restricted Development Area
 Townships		 Outside Groundwater Control Area
 LPN Boundary		

Sources: Lower Platte North Natural Resources District,
Nebraska Department of Natural Resources
04.02.2018
Created by: Chris Poole



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

8/14/23

DNR & NRD USE ONLY			
Permit No. _____	Date Approved/Denied _____	NRD Representative _____	
Permit Type: New, Replacement or Late _____	Date Received <u>8/14/2023</u>	Paid: Cash or Check <u>5533</u>	
Date Post-inspected _____	Registration No. _____	Equipment Permit Date: _____	

Kindrick Farms
\$50-

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 LAND OWNER: <u>David Proskovec, Jerry Proskovec</u> <u>4470 G Rd A</u> <u>Bellwood NE 68624</u> Phone: <u>402-539-2225</u>	NAME AND ADDRESS OF CONTACT: <u>Jamie Kindrick</u> <u>3032 IT Rd</u> <u>Dana City NE 68632</u> Phone: <u>402-644-7570</u>
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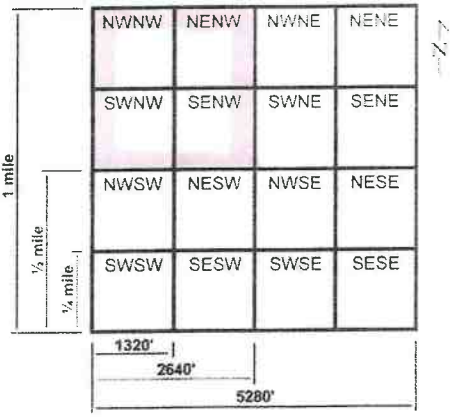
2. PURPOSE OF NEW WATER WELL (indicate one):

<input checked="" 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 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. Butler County, 1/4 of the NW 1/4 of Section 2, Township 16 North, Range 3E 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, 1/4 of the 1/4 of Section 2, Township 16 North, Range 3E East/West.



C. The well will be located _____ feet from the North/South section line, and will be _____ feet from the East/West section line. Or enter Lat. / Long. Latitude Degree _____ Minute _____ Second _____ Longitude Degree _____ Minute _____ Second _____

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 _____ 1/4 of the _____ 1/4 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): Spring 2024
- B. Expected total well depth: 35 feet.
- C. Well Casing Diameter: ? inches.
- D. Pump Column Diameter: ? inches.
- E. Estimated pumping capacity: 100 to 200 GPM.
- F. Expected total annual water use in Acre Inches / Year _____ or Total Gallons / Year _____
- G. The system is to be powered by Electric Fuel Submersible.
- H. Will the well be used in a system with other wells? Yes. No. If Yes, How many 3 total
List well registration number and legal description of each well in Section 6 below.
- I. Name of Well Driller: Sargent - Neligh (Please attach test hole log, if available.)

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

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. See approved list in this packet.
- 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 _____ Signature of Applicant Jerry Pieskovec
 Signature of Well System Operator, if different than Applicant _____
 NRD Certification Number of Landowner or Operator _____ (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.



**VARIANCE REQUEST FOR
NEW WATER WELL IN A STAY MANAGEMENT AREA
OF THE LOWER PLATTE NORTH NRD (LPNNRD)**

Updated from May 2008

VARIANCE REQUEST FOR IRRIGATED 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 VARIANCE)

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 can 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.
-



VARIANCE REQUEST FOR NEW WATER WELL IN A STAY MANAGEMENT AREA OF THE LOWER PLATTE NORTH NRD (LPNNRD)

VARIANCE REQUEST 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 VARIANCE)

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 can 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.
-

14. AQUIFER PUMP TEST:

In the location of the proposed water source an 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: Corn - Soybeans Crop rotation schedule 1/2 & 1/2 switched each year
- 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: ___ 1/4 of the ___ 1/4 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.
- 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.
- 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.
- 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.

RECOVERY OR REMEDIATION WELLS**(SECTION G)**


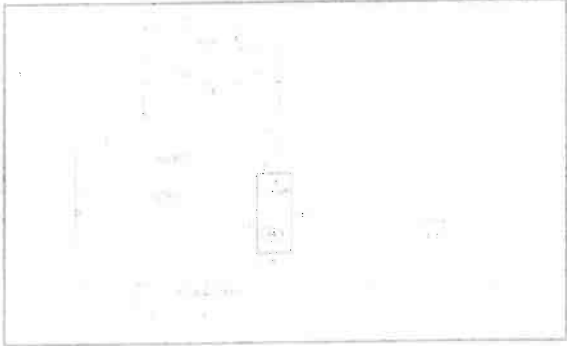
- A. Reason for recovery or remediation well, i.e. leaking underground storage tank. _____
- _____
- B. Contaminates of concern _____
- C. Treatment method of contaminants _____
- D. Approximate dates (month/day/year) in operation: Start _____ End _____
- E. Legal description of water discharge location: _____ 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 _____

Outbuilding Data			
Description	Units	Year Built	Cost
STORAGE BIN	1,483		\$220
UT BLDG-CHICKEN	168		\$30
STORAGE BIN	3,679		\$540
STORAGE BIN	3,679		\$540
FRAME BARN	2,176		\$475
UTILITY BLDG.	840		\$230
QUONSET	2,400	1980	\$1,775
STORAGE BIN	1,090		\$55
DET GAR AVE CON	484		\$1,095
CATTLE SHED	360		\$350
MACH SHED>2000	2,400	1996	\$15,440
UTILITY BLDG.	80		\$35
UTILITY BLDG.	648		\$275
UTILITY BLDG.	484		\$205
CATTLE SHED	484		\$1,505
CATTLE SHED	392		\$915
UTILITY BLDG.	268		\$50
ASTRO SHED>2000	4,000	2010	\$34,190
CONCRETE PAD	300	2011	\$1,210
CATTLE SHED	392	2016	\$1,620
OPEN POLE/CATTLE SHED	400	2020	\$8,950

Photo/Sketch

Agricultural Land Information					
Soil Symbol	Landuse	LVG	Unit Value	Acres	Total Value
FSL	FARM	FSL	\$5,500.00	5.060	\$27,830.00
FS	HOME	FS	\$23,000.00	1.000	\$23,000.00
6518	IRRG	1A	\$6,250.00	142.230	\$888,940.00
RD	ROAD	RD	\$0.00	3.570	\$0.00
Pg	WASTE	5W	\$600.00	2.910	\$1,745.00
Total:				154.77	\$941,515.00

5 Year Sales History

No previous sales information is available (for the past 5 years).

Property Classification			
Status:	Improved	Location:	Rural
Property Class:	Agricultural	City Size:	No Population
Zoning:	N/A	Lot Size:	40.01-160.00 ac.

Residential Datasheet			
Zoning:	N/A	Quality:	Fair
Year Built:	1990	Condition:	Worn Out
Exterior 1:	100% Masonry, Concrete Block	Style 1:	100% Two Story
Exterior 2:	N/A	Style 2:	N/A
Bedrooms:	N/A	Bathrooms:	1.00
Plumbing Fixtures:	N/A	Heating/Cooling:	100% Forced Air Furnace
Basement Size:	1,076 sq. ft	Min Finish:	0 sq. ft
Base Area:	2,152 sq. ft	Part Finish:	0 sq. ft
Total Area:	2,152 sq. ft	Roof Type:	Composition Shingle

Miscellaneous Improvements	
Description	Units
SLAB W/ROOF & STEP	72
KNEE-WALL PORCH	212
KNEE-WALL PORCH	84



Parcel Information	
Parcel ID:	120046662
Map Number	N/A
State Geo Code	2645-02-2-00000-000-6662
Cadastral #	N/A
Images	Photo #1 Photo #2 Sketch #1
Current Owner:	PROSKOVEC/DAVID A & JERRY W 4470 Q RD BELLWOOD, NE 68624
Situs Address:	4470 Q RD BELLWOOD
Tax District:	262
School District:	SCHUYLER 123, 19-0123
Account Type:	Agricultural
Legal Description:	2 16 3 2 16 3 NW1/4 154.77 AC
Lot Width:	N/A
Lot Depth:	N/A
Total Lot Size:	N/A

* Disclaimer: This legal description should not be used to prepare legal documents.

Assessed Values				
Year	Total	Land	Outbuilding	Dwelling
2023	\$1,038,090	\$941,515	\$69,715	\$26,860
2022	\$817,660	\$728,170	\$67,760	\$21,730
2021	\$798,885	\$716,390	\$60,765	\$21,730
2020	\$798,880	\$716,390	\$61,055	\$21,435
2019	\$810,050	\$728,325	\$64,035	\$17,190

Yearly Tax Information		
Year	Amount	Levy
2022	\$11,160.40	1.577569

2022 Tax Levy	
Description	Rate
CENTRAL COMM COLLEGE	0.09027200
BUTLER COUNTY	0.17805200
SCHUYLER 123 K-12 2007	0.09567300
AG. SOCIETY	0.01000000
E.S.U.#7	0.01500000
BONE CREEK TOWNSHIP	0.10000000
LINWOOD #8	0.03499900
SCHUYLER 123	1.02216900
LOWER PLATTE NORTH	0.03140400



Common Land Unit Tract Boundary

- Non-Cropland
- Cropland

2022 NAIP Ortho Imagery

2023 Program Year
Map Created December 13, 2022

Farm 8165

Wetland Determination Identifiers

- Restricted Use
- Limited Restrictions
- Exempt from Wetland Provisions

2-16-3E

United States Department of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or National Agricultural Imagery Program (NAIP) imagery. The producer accepts the data 'as is' and assumes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA Programs. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact boundaries and determinations or contact USDA Natural Resources Conservation Service (NRCS).

Processed by State of Nebraska Department of Natural Resources Data(Bank) 7/28/2023 4:19:00 PM
Subsection: SENW Section: 2 Township: 16 Range: 3E
Footage: 1778 feet from the North section line and 2270 feet from the West section line.
Latitude: 41° 23' 22.30" Longitude: -97° 3' 12.30"



Legend (/dynamic/Images/MapGroundWaterLegend.png)

Zooming – 3 options

- Double click on Map to zoom in
- Plus(+) and minus(-) signs in upper left corner of map also zoom in and out. Hover with mouse over area and when pointer disappears, click. Plus is on top and minus is below it.
- Click on map and use mouse wheel to zoom in or out.

Panning – Moving around map

Click on map and hold, drag mouse direction to move map

DISCLAIMER

**Approved List of Propeller Flow Meters
Lower Platte North Natural Resources District (LPNNRD)
Effective: April 11, 2022**



Approved List of Propeller Flow Meters and Required Conditions

LPNNRD requirements for all propeller flow meters:

- Anti-reverse flow feature to prevent backflow.
- Follow manufactures installation **recommendations** taking into account in-pipe jetting or non-jetting flow conditions. (Correct installation of the flow meter is critical to getting an accurate reading. Most meters require a straight pipe before and after the flow meter that is at least equivalent to five times the pipe diameter in order to obtain an accurate flow measurement. Doing the installation correctly the first time saves money in the long run).
- Straightening vanes are required according to manufacturer’s installation **recommendations** for in-pipe jetting or non-jetting flow conditions.
- Meter must be positioned to ensure water totally fills the pipe, such as a level pipe or positioned on a riser.
- Meter must be configured: to inside and outside diameter of the pipe, material of the pipe, meter used that will operate within minimum and maximum output flow rates of the well, horizontal or vertical installations, and unobstructed straight run distance upstream and downstream of meter and in most cases straightening vanes (or other flow straightener) will be necessary.
- Meter totalizes flow in acre inches and flow meter dial is in gallons per minute.
- A flow meter must be dedicated to each individual well. (Exceptions will be made if several wells are used to provide enough water to operate a single irrigation system such as a pivot or gated pipe. In these situations a flow meter placed at the central location where all water can be metered is acceptable).

Manufacturer	Model	Notes
McCrometer	McPropeller	All propeller models
Sparling	Propeller saddle meter	Model 312 propeller meter
Geyser	Saddle meter	All propeller models for Farmland Irrigation

LPNNRD prefers the following added features for all propeller flow meters:

- Over-run bearing (or extra bearing) for smother operation and to extend life of the meter
- Canopy cover to protect meter

LPNNRD will inspect systems for proper installation of flow meters

** 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 LPNDRD approval of this water well permit. LPNDRD staff may perform a site visit to verify information provided in the well permit application. **

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.

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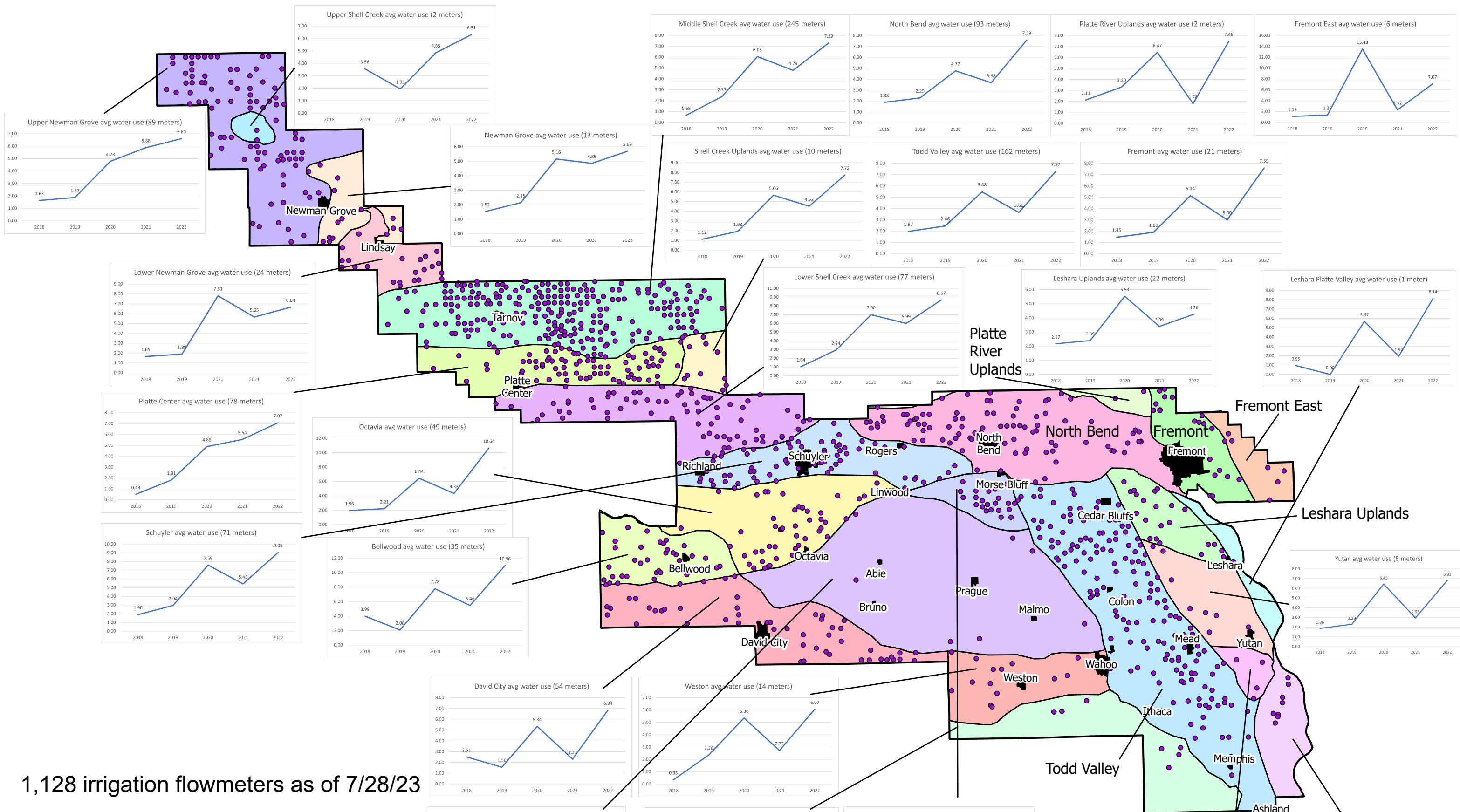
Zooming – 3 options

- Double click on Map to zoom in
- Plus(+) and minus(-) signs in upper left corner of map also zoom in and out. Hover with mouse over area and when pointer disappears, click. Plus is on top and minus is below it.
- Click on map and use mouse wheel to zoom in or out.

Panning – Moving around map

Click on map and hold, drag mouse direction to move map

DISCLAIMER

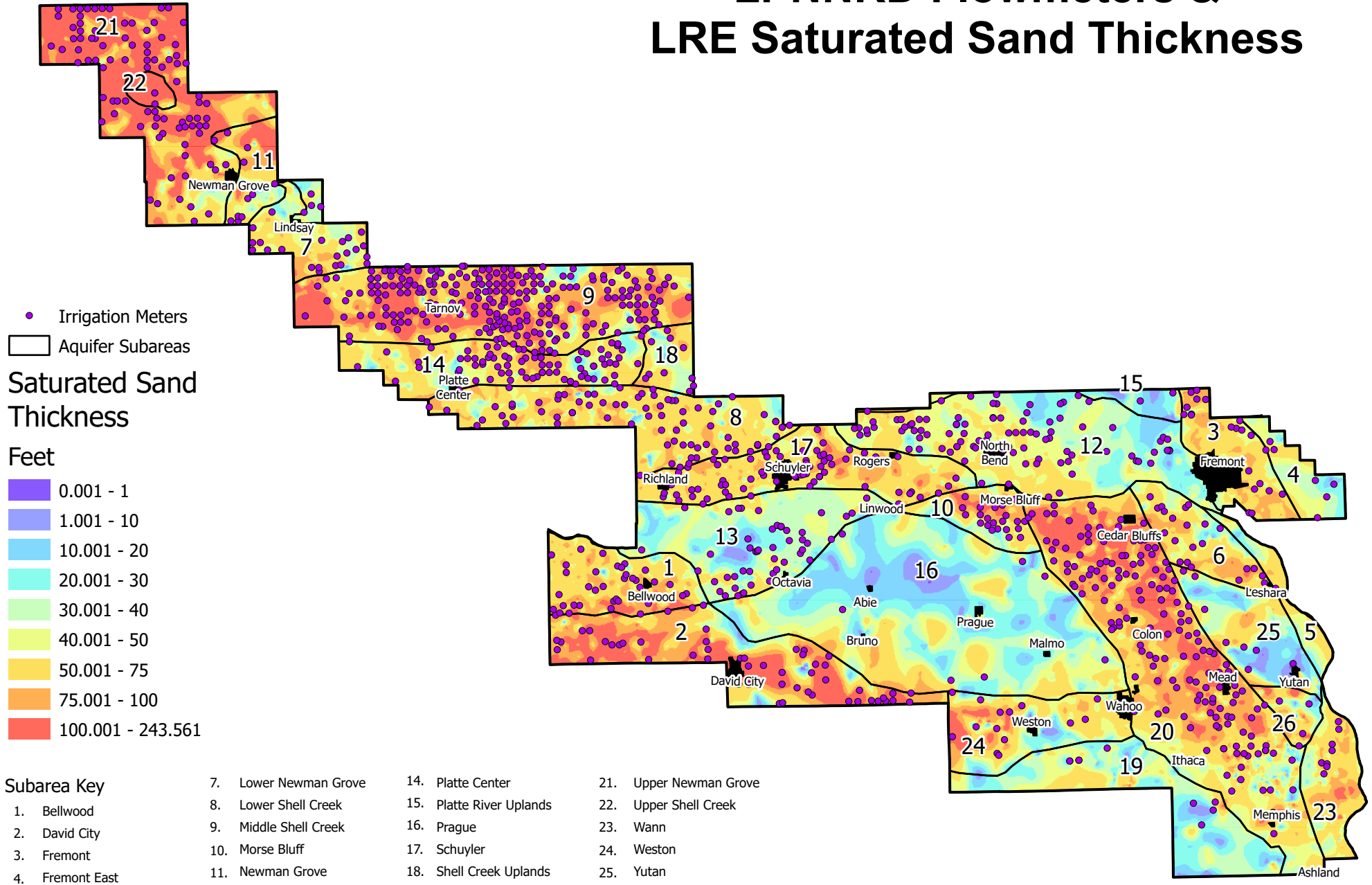


1,128 irrigation flowmeters as of 7/28/23



NAD1983 StatePlane Nebraska FIPS 2600
Created 8/23 by LPNNRD

LPNNRD Flowmeters & LRE Saturated Sand Thickness

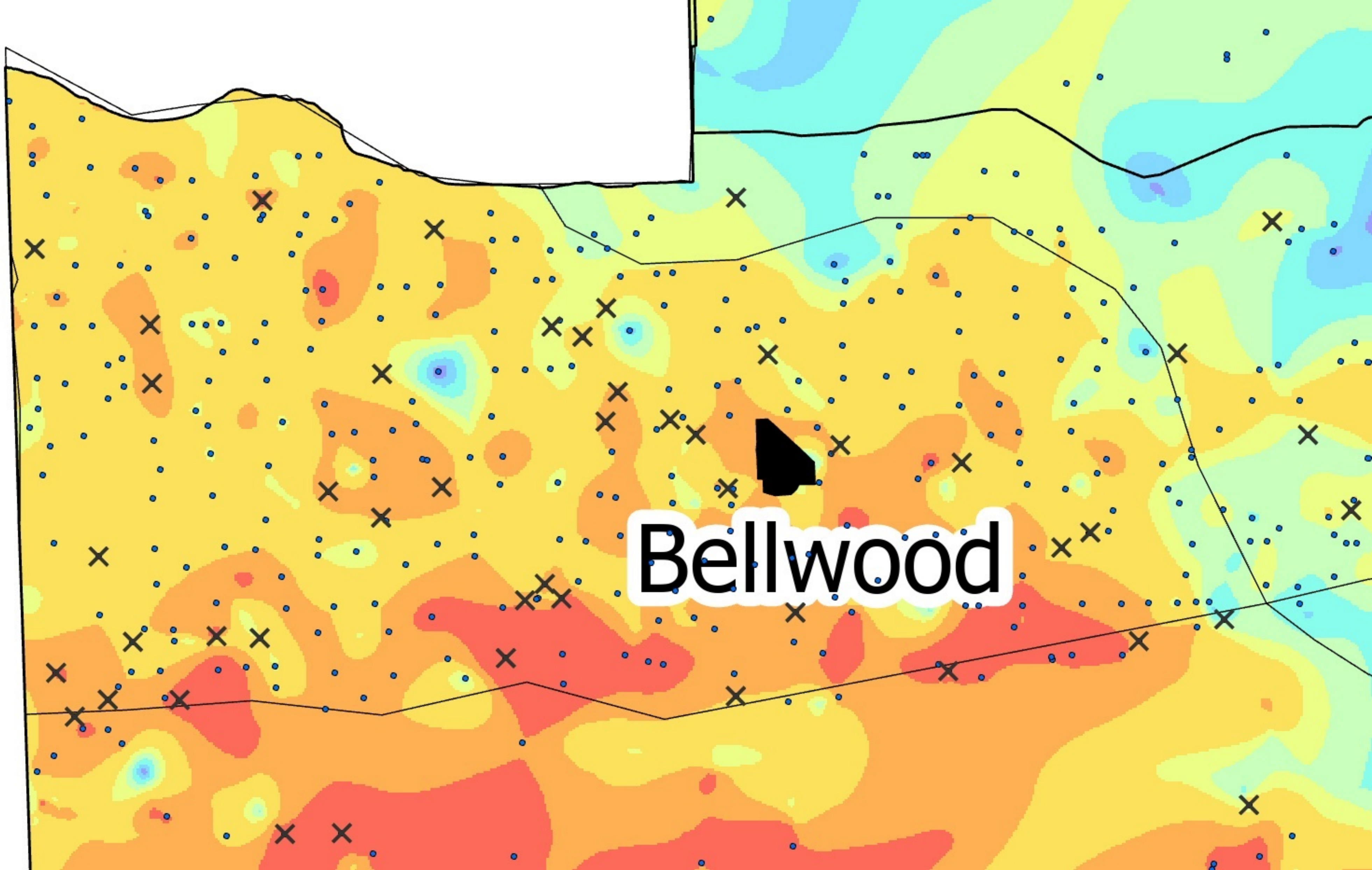


- Irrigation Meters
 - Aquifer Subareas
- ### Saturated Sand Thickness
- Feet
- 0.001 - 1
 - 1.001 - 10
 - 10.001 - 20
 - 20.001 - 30
 - 30.001 - 40
 - 40.001 - 50
 - 50.001 - 75
 - 75.001 - 100
 - 100.001 - 243.561

Subarea Key

1. Bellwood	7. Lower Newman Grove	14. Platte Center	21. Upper Newman Grove
2. David City	8. Lower Shell Creek	15. Platte River Uplands	22. Upper Shell Creek
3. Fremont	9. Middle Shell Creek	16. Prague	23. Wann
4. Fremont East	10. Morse Bluff	17. Schuyler	24. Weston
5. Leshara Platte Valley	11. Newman Grove	18. Shell Creek Uplands	25. Yutan
6. Leshara Uplands	12. North Bend	19. Swedeburg	26. Yutan South
	13. Octavia	20. Todd Valley	

NAD1983 StatePlane Nebraska FIPS 2600
Created 8/30/23 by LPNNRD



Bellwood

Invoice

Bill To
Lower Platte North NRD PO Box 126 Wahoo, NE 68066

Date	Invoice #
8/3/2023	187

Quantity	Description	Rate	Amount
	Lower Platte River Basin Water Management Plan Coalition Dues	10,000.00	10,000.00
Please remit payment to NARD Research - 8100 S. 15th St., Suite B, Lincoln, NE 68512		Total	\$10,000.00



Daryl Andersen
 Lower Platte North NRD
 511 Commercial Park Road
 Wahoo, NE 68066-0126

August 9, 2023
 Project No: 5036LPN02
 Invoice No: 23745

Project 5036LPN02 LPNNRD Hydrogeologic Assessment

Professional Services through July 25, 2023.

Task 01 Project Management and Meetings

Professional Personnel

	Hours	Rate	Amount	
Mohr, Jonathan	1.00	183.00	183.00	
Totals	1.00		183.00	
Total Labor				183.00
				Total this Task \$183.00

Task 02 Hydrogeologic Assessment Framework

Professional Personnel

	Hours	Rate	Amount	
Mohr, Jonathan	2.00	183.00	366.00	
Totals	2.00		366.00	
Total Labor				366.00
				Total this Task \$366.00

Task 03 Deliverables

Professional Personnel

	Hours	Rate	Amount	
Mohr, Jonathan	1.50	183.00	274.50	
Sopiwnik, Roscoe	13.25	187.00	2,477.75	
Totals	14.75		2,752.25	
Total Labor				2,752.25
				Total this Task \$2,752.25
				Total this Invoice \$3,301.25

Project	5036LPN02	LPNNRD Hydrogeologic Assessment	Invoice	23745
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Outstanding Invoices

Invoice Number	Date	Balance
23438	7/7/2023	5,268.75
		5,268.75

Total Now Due	\$8,570.00
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TERMS: Net 30 days. A finance charge of 1.5% per month is applied to past due amounts.



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Economic Impact of Groundwater Regulation in Nebraska: A Hedonic Price Analysis

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Introduction

Groundwater is vital to agriculture in USA as a primary source of irrigation and/or an important supplement to surface water irrigation during times of water scarcity. Its regulation has increasingly become more common and important due to growing aquifer depletion concerns (Scanlon et al. 2012; Konikow 2015; Babbitt et al. 2018). However, despite the importance of groundwater resources for the agricultural economy and the increasing regulations on its use, a lack of consensus exists within the economic literature regarding whether the benefits of regulation outweigh the costs. We examine this issue in this paper via a hedonic price analysis of farmland values in Nebraska.

Groundwater is the primary source of irrigation in the USA with 60% of irrigated land being partially or wholly irrigated by groundwater in 2017 (U.S. Census Bureau 2017). Since groundwater is more commonly developed for irrigation privately, it has historically been less regulated than surface water which was developed with substantial public intervention. However, in recent years new groundwater regulations have rapidly emerged across different parts of the western USA due to increasing aquifer depletion concerns (Scanlon et al. 2012; Haacker, Kendall, and Hyndman 2016). A well-known example is the adoption of the Sustainable Groundwater Management Act by the state of California in 2014 to manage its groundwater resources. Groundwater depletion has itself been a growing concern due to the unprecedented development of irrigation in parts of USA

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to grow high value crops in the latter part of the 20th century (Hornbeck and Keskin 2014) and the frequent and recurring droughts faced in last few decades (Wehner et al. 2017).

There is a rich theoretical literature that discusses the benefits and costs of groundwater regulations for agriculture using hydro-economic models. In their seminal work assessing the economic implications of groundwater management, Gisser and Sanchez (1980), argued that the benefits of groundwater management are too small for justifying its management. This position has been contested and researchers have since argued that benefits of groundwater regulations can be large under certain contexts. These include cases when the marginal value from consumptive use of groundwater use is low (Koundouri 2004) and when the value from non-consumptive use is high (Tomini 2014). Groundwater management may be also be beneficial when there are high and non-linear cost of pumping groundwater as aquifer levels fall and when hydrological connections between water bodies may lead to severe negative externalities from groundwater extraction (Koundouri 2004). An example of such a case was demonstrated by Brozović, Sunding, and Zilberman (2010) in case of large and unconfined aquifers with wells concentrated close to each other. More recent work in this area maintains that groundwater management strategies that have been recently implemented in certain parts of the USA can raise aquifer levels but at some loss of short-term profits to farmers (Hrozencik et al. 2017; Manning et al. 2020). These costs, however, vary across different management strategies and across space (Hrozencik et al. 2017). Overall, we find a lack of consensus in the theoretical literature on the benefits and costs of groundwater management policies.

The econometric literature exploring the benefits and costs of groundwater regulations is relatively thin, perhaps due to the lack of adequate data suitable for such an analysis. For example, Edwards (2016) and Ifft, Bigelow, and Savage (2018) both examine how groundwater use regulations are capitalized into farmland values. While Edwards (2016) finds a positive impact of groundwater management in Kansas for hydrologically connected areas, Ifft, Bigelow, and Savage (2018) find that irrigated land value fell in response to groundwater rules in Nebraska. Using the case of Southern California, Ayres, Meng, and Plantinga (2021) demonstrate water markets as a form of groundwater management that can bring overall net benefits to farmers while also enabling the efficient use of water via trading of water rights. More extensive research has been conducted

in understanding the behavioral responses of farmers to groundwater regulations and institutions in form of changing water use, adopting new technology, and cropping patterns [Pfeiffer and Lin (2014); Mieno et al. (2022); Cobourn et al. (2022); Drysdale and Hendricks (2018); Golden and Leibsch (2018)]. However, the overall effect of regulations on farmers' welfare remains thin and the evidence mixed. In particular, the differential effect of different groundwater management strategies have not been examined via rigorous econometric analysis. Further, existing studies have utilized either survey-based or assessed land value data for analysis. Both of these may suffer from some biases. Survey based land value data may embody hypothetical bias of the respondent since the land values are not based on actual sale value of the land. Assessed land values on the other hand are based on tax assessments of agricultural lands, which vary by state law and are often a lower bound of the true value of the land (Anderson 2012).¹ Conceptually, as dynamic welfare maximizers, farmers may perceive groundwater regulations to be beneficial if they believe that the current rate of groundwater depletion imposes negative externalities on their current or future economic returns. On the other hand, if farmers do not believe the current rate of groundwater extraction to be unsustainable or to negatively affect their economic returns, they may perceive regulations to lower their current and future returns. Thus, theoretically, regulations may be capitalized either positively or negatively into farmland values, making a case for an empirical exploration of this question.

We address these knowledge gaps by assessing the changes in farmland values in the state of Nebraska in response to two types of groundwater regulations: well drilling moratoria (restrictions on future development of land for irrigation) and water allocations (limits on quantity of water that can be pumped for irrigation from existing irrigation structures). We leverage data on observed agricultural land market transactions data between 2005-2021 and information on spatially and temporally heterogeneous groundwater use regulations to assess the costs and benefits of differing groundwater management policies. To the best of our knowledge, this is the first study to examine the economic effect of groundwater regulation through a hedonic price analysis of actual

¹Actual land transactions, as used by us, are also likely to suffer from bias due to sample selection, i.e., only the sample of farmers that sold in a particular year were observed (Bigelow, Ifft, and Kuethe (2020)). This may lead to biased estimates if the selection into selling land was correlated with some unobservables that influences land values. Spatially differentiated market imperfections maybe one cause of concern because they may lead to land values being systematically higher (or lower) depending upon the ease with which land can be transacted. Through our conversations with several land owners in Nebraska, we gathered no evidence of any such market imperfection.

market transaction data. It is also the first study that differentiates between the different types of groundwater regulations thus disentangling their unique impacts.

Background and Context

Nebraska is reliant on groundwater for supporting its vast agricultural sector. It has the most irrigated acres in the USA.; close to 90% of which comes from groundwater (Dieter 2018). Groundwater has been managed in Nebraska historically since the 1970s through 23 locally elected Natural Resources Districts (NRDs). Apart from advisory and educational roles, the NRDs have considerable power to create and enforce regulatory tools (Bleed and Babbitt 2015; Babbitt et al. 2018; Schoengold and Brozovic 2018). One of the unique feature of groundwater management in Nebraska (and few other states overlying the High Plains aquifer) is that they have been developed, adopted, and managed by local authorities. The earliest groundwater regulation in Nebraska came about in 1979 in the Upper Republican NRD. Several new regulations emerged since the early 2000s, starting from South-west Nebraska, and moving to the North and East (Figures 1 and 2). These evolving regulations in the past two decades provide the context of our study.

The NRDs have adopted several different methods for groundwater management. These include strategies to restrict water use such as placing a well moratorium and imposing water allocations. A variety of auxiliary measures have also been adopted to complement and effectively implement these management strategies. These include mandatory establishment of flowmeters on high-capacity wells, restricting the number of acres that can be irrigated, and imposing minimum spacing between adjoining wells. Incentive-based groundwater regulations include cost-share programs that subsidize farmers to adopt water-saving technologies (Zoubek 2015). A tax on irrigated acres has also been imposed in certain parts of Nebraska as a management tool. Although the cost imposed by the tax is deemed insufficient to incentivize farmers to reduce water use, the capital raised through taxation has been used to develop a large scale streamflow management programs that have been instrumental in resolving water related conflicts in the state (Schoengold and Brozovic 2018). Voluntary Integrated Water Management (IWM) plans have also been developed by several NRDs. These are contingent plans that lay down groundwater management policies that the NRDs will adopt if groundwater levels fall below certain pre-determined levels.

In this paper we focus on two types of management techniques – the well moratorium and water

allocations. Well moratorium refers to a prohibition on construction of new high-capacity irrigation wells that can extract large amounts of water from an aquifer. Water allocations refer to placing an upper limit on the volume of water that can be pumped per acre per year from a well. In practice, well allocations are made for a period of 3-5 years such the aggregate water use within those years does not exceed the lump-sum allocation limit. We chose to focus on these two regulations as they have direct implication on current and potential future water use and crop revenues of all producers within NRDs that have implemented them. Secondly, there is some evidence that these regulations can reduce water use (Mieno et al, 2022) and increase the saturated thickness of aquifer (Hrozencik et al. 2017). Thus, they are atleast partially effective in achieving the goals of groundwater management. These regulations are also quite widespread across the state with 15 (8) NRDs having implemented moratoriums (allocations) at some point of time.

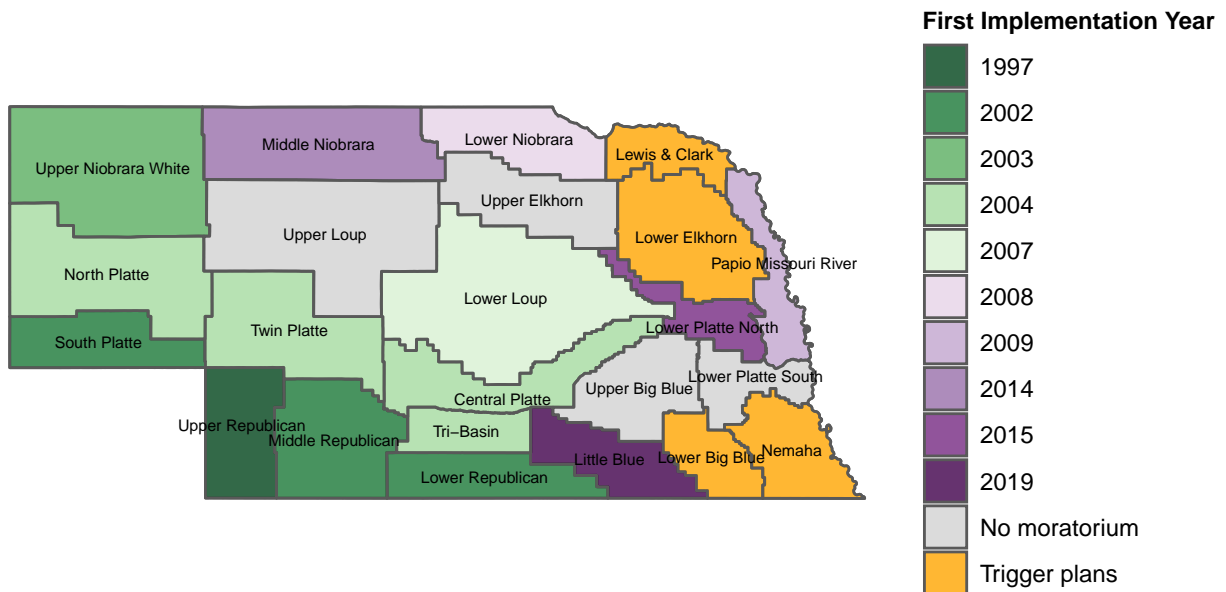


Figure 1: Well moratorium by NRD and year in Nebraska

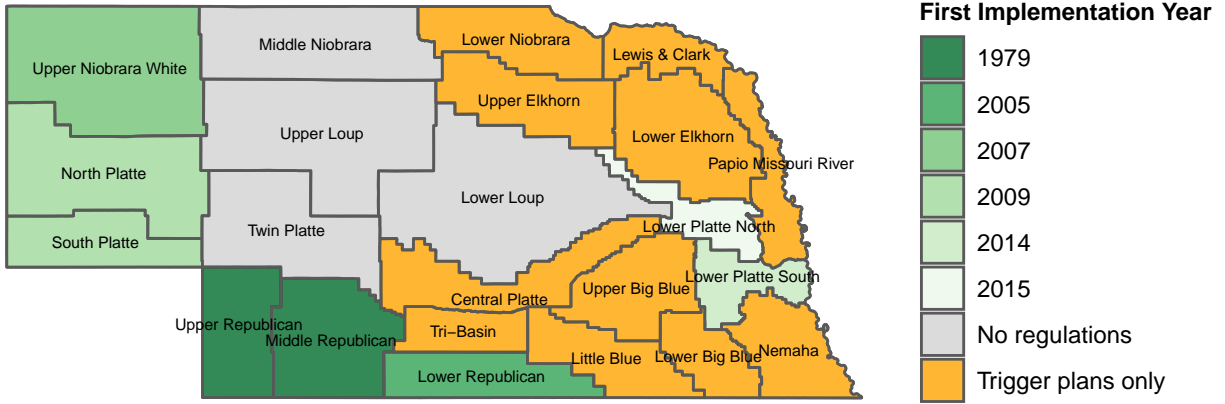


Figure 2: Water allocations by NRD and year in Nebraska

Economic framework and testable hypotheses

We motivate our research question by assigning an economic value to each parcel of land as follows:

$$V = Y(\mathbf{X}, w; z) + \sum \delta[Y(\mathbf{X}, w; z)]$$

where, V is the net present value of land. V comprises of the current land revenue ($Y(\cdot)$) and the stream of future discounted land revenues (with discount factor being δ). The land revenue is a function of the vector of agricultural inputs (\mathbf{X}), irrigation (w), and quasi-fixed factors such as weather and soil characteristics (z). Price of crop output has been normalized to one for easier notation. A farmer's optimal water use for parcel i (w_i^*) is a function of the saturated thickness of the aquifer (h) and the water used by other neighboring farmers (w_j^*) (Peterson and Saak, 2013, Edwards (2016)).

$$w_i^* = f(h, w_j^*) \text{ such that } \frac{\partial w_i^*}{\partial h} > 0 \text{ and } \frac{\partial w_i^*}{\partial w_j^*} < 0$$

The negative relationship between w_i^* and w_j^* represents the negative externality of one farmer's water use on an adjacent farmer's water use. Groundwater management strategies can act as a coordination mechanism that can reduce these negative externalities.

With this framework, we can define the optimal land value of land for parcel i as $V_i^* = g(\mathbf{X}_i^*, w_i^*, z)$. V_i^* is related to w_i^* and w_j^* as follows:

$$\frac{\partial V_i^*}{\partial w_i^*} > 0 \text{ and } \frac{\partial V_i^*}{\partial w_j^*} < 0$$

Intuitively this simply implies that the value of land increases with increase in own use of water and decreases with increase in others' use of water. With this context, we will discuss the expected changes in land values for irrigated and non-irrigated parcels under well-moratorium and water allocations.

Case 1: Effect of well moratorium on irrigated parcels

A well-moratorium does not change the current or future use of own water use (w_i^*). Thus change in water use for irrigated parcels under well-moratorium is zero. However, it does reduce the expected future water use by neighboring farmers that may occur due to more wells being constructed by adjacent farmers. Thus, the value of land for irrigated parcels under well moratorium rises compared to irrigated parcels in no regulation and the overall the land values of irrigated parcels are expected to be higher than the values under open access.

Case 2: Effect of water allocations on irrigated parcels.

The irrigated water use under water allocations is limited by an upper limit. Thus, own water use will reduce under water allocations compared to that under open access ($w_{ia}^* \leq w_i^*$), leading to a potential decline in land revenue, ceteris paribus. On the other hand, water allocations may decrease the negative externalities caused by water use by adjacent irrigators ($w_{ja}^* \leq w_j^*$), thus increasing the value of own land. Since the two effects are in the opposite direction, the overall effect of water allocations on non-irrigated parcels is uncertain.

Case 3: Effect of well moratorium on non-irrigated parcels.

The future potential of developing non-irrigated land to irrigated land is lost when a well-moratorium is placed. This will lead to a decrease in future expected stream of land revenues

thus bringing down the overall cost of land value. Since the land is not irrigated (and cannot be irrigated in the future due to the moratorium), the issue of negative externalities is not applicable here. Thus, overall, well moratorium is expected to lower land values of non-irrigated parcels.

Case 4: Effect of water allocations on non-irrigated parcels

Water allocations will not have any effect on current land revenues of non-irrigated parcels. However, non-irrigated land may be developed into irrigated land in the future and the expected future stream of revenues will be lower under water allocations than under open access. Thus, water allocations are likely to decrease the value of the parcel. Similarly, there are no negative externalities on non-irrigated land due to other’s use of groundwater. However, if a parcel is to be developed for irrigation in the future, water allocations can reduce potential negative externalities and thus lead to a rise and land values. Thus, overall, the effect of water allocations on non-irrigated parcels is uncertain.

Based on the above economic framework, we summarize four testable hypotheses in Table 1:

Table 1: Testable hypotheses based on economic framework

	Irrigated	Non-irrigated
Well moratorium	+	-
Water allocations	Uncertain	Uncertain

Data

The data for our analysis was obtained from several different sources. Information on farmland values, acreage, and geo-codes of farmland parcels in Nebraska for 2005-2021 were obtained Corelogic Inc. These data were extracted by Corelogic Inc. from county land transaction records. After dropping outliers and missing values, our analytical sample consisted of a repeated cross-section of 18,506 observations. Information on groundwater regulations were obtained from a detailed survey of administrative documents of all 23 NRDs. These were supplemented with interview and email communications with various NRD leaders. Data on parcel level irrigation status was obtained from Xie and Lark (2021). Soil characteristics data such as hydraulic conductivity, available water holding capacity, elevation of land and percentage of sand, silt, and clay were obtained from

SSURGO. Weather information was retrieved from data provided by the PRISM climate group and was used to construct 10-year rolling averages of growing season average daily temperatures, growing degree days, precipitation, and potential evapotranspiration. Data on land use, particularly cropping patterns, were obtained from the Cropscape data provided by the USDA. Distance from urban centers were calculated using Census information on population density.

Empirical strategy

We conduct a hedonic price analysis of farmland values using a Staggered Difference-In-Difference (DID) approach, closely following the procedure suggested by Wooldridge (2021). In a Staggered DID framework different units receive treatment at different points of time. This setup suits our context well since different NRDs were exposed to groundwater regulations at different times. The NRDs that were never treated serve as the control group. Following the economic framework, we also look at the heterogenous effect of treatment on irrigated and non-irrigated parcels.

The estimating equation is then as follows:

$$\ln Y_{ijt} = \alpha + \beta_r^m D_{it}^m \cdot Ir_i + \beta_r^a D_{it}^a \cdot Ir_i + \beta^m D_{it}^m + \beta^a D_{it}^a + \gamma Ir_i + \mathbf{X}_{ijt} \Delta + c_j + v_t + \epsilon_{ijt}$$

Where, Y_{ijt} are real price per acre of parcel i in county j at time t , $D_{it}^m = 1$ if parcel i was exposed to well moratorium in time t , $D_{it}^a = 1$ if parcel i was exposed to water allocation in time t , $Ir_i = 1$ if parcel was irrigated in 2005 (baseline year), X_{ijt} is the vector of control variables. c_j are the county fixed effects and v_t are the time fixed effects. $\beta_r^m, \beta_r^a, \beta^m, \beta^a$ are the marginal effects of well moratorium on value of irrigated parcels, water allocation on value of irrigated parcel, well moratorium on non-irrigated parcel, and water allocation on non-irrigated parcel respectively. These are the parameters of interest. We estimate this equation using Pooled Ordinary Least Squares (POLS) and cluster the standard errors at the county level. Ideally, the standard errors should be clustered at the level of treatment, which in our case is the NRD (Abadie et al. 2023). However, there are only 23 NRDs (treatment groups) in our sample which does not satisfy the degrees of freedom rule of thumb of atleast 30-50 clusters. Thus, we cluster at the next largest group which is the county.

Identification of the estimates depend on the treatment being exogenous to unobservables that could be correlated to treatment. Groundwater regulations are likely to arise in areas which are

heavily dependent on irrigation, where agriculture is a primary economic activity, and/or where rainfall is scarce. We control for these variables by including variables on irrigation in the baseline year, soil quality indicators and long-term weather means. We also control for the crops being grown on the parcel and the distance of the field from the nearest urban center.

Results

The results of the analysis are summarized in Table 2. Model (1) and (2) are the results without and with controls respectively. Overall, we do not find any statistically significant effect of either type of groundwater regulation on either irrigated or non-irrigated parcels. The magnitude of the estimates of effect of both well moratorium and water allocations are large (a decline of land values by 6.9% and 9.5%, respectively, compared to the control group). These estimates are also robust before and after controlling for explanatory variables. However, since the standard errors are also relatively large, the estimates are not statistically significant.

Table 2: Marginal effect of GwR on farmland values, Pooled OLS estimates

Type of GwR		(1)	(2)
Well-moratorium =1	Irrigated	0.017 (0.0655)	-0.0090 (0.0472)
	Non-irrigated	-0.080 (0.0571)	-0.069 (0.0401)
Water-allocation =1	Irrigated	-0.013 (0.0725)	0.017 (0.0652)
	Non-irrigated	-0.094 (0.0598)	-0.095 (0.0575)
Other controls		No	Yes
County dummies		Yes	Yes
Year dummies		Yes	Yes
Observations		18506	18506

Note: Standard Errors (SE) clustered at county level; GwR: Groundwater; Controls include measures of soil quality (saturated hydraulic conductivity, available water capacity, percentage of sand, silt and clay, and slope), long-term weather (ten years rolling averages of growing season precipitation, potential evapo-transpiration, growing degree days, and mean daily temperature), cropping pattern (share of land cropped with corn, soybeans, winter wheat, other crops and grassland), and distance from urban center.

Conclusion

In this paper we examine whether the groundwater regulations formulated by and imposed within the NRDs in Nebraska had an impact on farmland values. We find that the overall effect of groundwater regulations on farmland values is not statistically significant. The landscape of groundwater management in the western USA is evolving rapidly (e.g., California's Sustainable Groundwater Management Act). Understanding the costs and benefits of regulations seeking to rationalize the groundwater commons has become more urgent and important. This paper contributes to this growing literature by leveraging novel data and the unique institutional setting of Nebraska. Our results

inform future policymaking efforts aiming to minimize the negative externalities of groundwater depletion and conserve aquifer resources for future generations.

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Proposal for NRD

REGENERATIVE AG CONFERENCE

- **Who:** hosted by Upper Big Blue, Little Blue, Lower Big Blue, Lower Platte South, and Lower Platte North NRDs, in collaboration with Keith Berns/Green Cover Seed (and possible sponsors).
Projected turnout: 300.
- **What:** A full day event for producers and crop consultants to learn about regenerative ag practices (cover crops, crop rotation, no-till, etc) and available funding opportunities
- **Where:** Concordia University Campus
- **When:** February 28, 2023
- **Why:** Education and outreach, opportunity to meet with producers regarding conservation practices/programs

Keynote speaker:

Mitchell Hora,
Farmer & CEO of
Continuum Ag

Event to be organized
& promoted by
cooperating NRDs

Sponsors sought
to offset cost

"THE NATION THAT DESTROYS ITS SOIL
DESTROYS ITSELF."

Franklin D Roosevelt
32nd President



LOWER PLATTE NORTH
Natural Resources District

LONG RANGE IMPLEMENTATION PLAN

Fiscal Year 2024

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Introduction

The Lower Platte North Natural Resources District (LPNNRD) is one of 23 Natural Resources Districts created in 1969 with the passage of LB 1357 by the Nebraska Unicameral. Since its formation in 1972, the LPNNRD has been assisting people in the Lower Platte River Basin in the development and protection of our soil and water resources. Nebraska Statutes require that Natural Resources Districts develop a Long Range Implementation Plan. The purpose of this plan is to summarize accomplishments during fiscal year 2022 (July 1, 2022 to June 30, 2023) and planned District activities for fiscal year 2023. There are also objectives for a five-year period from fiscal years 2024 to 2028. The plan serves as an implementation tool of the district’s Master Plan, which is updated every ten years.

This Long Range Implementation Plan was approved by the LPNNRD Board of Directors on September 11, 2023.

Authority and Responsibilities

The Natural Resources Districts have been given statutory responsibility outlined in Sections 2-3229, R.R.S. 1943. In this section it states that “The purposes of the Natural Resources Districts shall be to develop and execute, through the exercise of powers and authorities contained in this act, plans, facilities, works and programs relating to: (1) erosion prevention and control, (2) prevention of damages from flood water and sediment, (3) flood prevention and control, (4) soil conservation, (5) water supply for any beneficial uses, (6) development, management, utilization, and conservation of groundwater and surface water, (7) pollution control, (8) solid waste disposal and sanitary drainage, (9) drainage improvement and channel rectification, (10) development and management of fish and wildlife habitat, (11)

development and management of recreational and park facilities, and (12) forestry and range management.”

Lower Platte North NRD programs and projects are available to meet the goal of properly developing our water and related land resources.

Description of the District

The Lower Platte North Natural Resources District is located in the Lower Platte River Basin in eastern Nebraska and includes 1,031,000 acres of land. A portion of Saunders, Butler, Platte, Dodge, Colfax, Boone, and Madison Counties are within the district (see Appendix A), which includes twenty-eight cities, towns, and villages. Besides the Platte River, other notable tributaries in the district include: Bone Creek, Clear Creek, Duck Creek, Elm Creek, Loseke Creek, Rawhide Creek, Sand Creek, Shell Creek, Silver Creek, Skull Creek, Taylor Creek, and Wahoo Creek.

The population of the district is approximately 65,000, of which about half is rural and half urban. The Lower Platte North NRD is financed by a tax levy which may be up to four and one-half cents per \$100 valuation for general purposes and another one cent for water programs. The FY 2024 tax levy is 0.028652 cents per \$100 valuation.

Governing Body

The Lower Platte North Natural Resources District (LPNNRD) is governed by a 19-member Board of Directors. The directors are elected at the general election for a term of four years, with half of the members up for election every two years.

The district is divided into nine (9) subdistricts. Two board members are elected from each of the nine subdistricts, and one board member is elected at large every four years.



The district operates by a set of bylaws which are kept on file at the district headquarters at Wahoo, Nebraska.

FY 2023 Platte River Basin Activities

One of the great natural resources of Nebraska is the Platte River. It is the feature that attracted early settlers to our state and guided the wagon trails. Today, we look at the Platte River differently. It is a water source for agriculture and cities like Fremont, Lincoln, and Omaha, a haven for wildlife, and a place for recreation. Issues surrounding the Platte are a top priority at the LPNNRD, since approximately 72 miles of the river flow directly through, or border, the district.

Ice Jam Agreement

In 1994, the LPNNRD entered into an agreement with the Papio-Missouri River NRD, Lower Platte South NRD, and Cass, Douglas, Sarpy and Saunders Counties to more effectively deal with ice jams and their resulting flood damages along the Lower Platte River. This area of concern is primarily from Fremont, Nebraska to the mouth of the Platte River. This group has pooled funds of \$150,000 to retain a contractor to use explosives when needed, to remove ice jams in a timely manner.

During the winter of 2022-2023, there were no ice issues of concern on the lower Platte River.

Rock & Jetty Program

This program was developed to offer cost-share assistance to landowners to construct erosion control devices for stream bank stabilization and to assist Dike and Drainage Districts with maintenance of dikes along the Platte and Elkhorn rivers and perennial streams. In FY22, \$20,000 is budgeted for projects on rivers & streams. We assisted two landowners on maintenance projects in FY 22-23 at a cost of \$5,427.

FY 2024 Platte River Basin Objectives

- Administer \$20,000 in the Rock & Jetty Program to assist with priority stream bank stabilization for cooperators on the Platte and Elkhorn Rivers and Perennial streams. This includes assisting cooperators with meeting the regulations of the Clean Water Act through section 404 permits.
- As a member of the Joint Water Management Advisory Board, provide leadership and assistance to move forward with exploring flood reduction solutions within Dodge County.
- Support the Lower Platte Weed Management Area financially and technically in controlling noxious and invasive weeds.
- Support the Nebraska Land Trust in acquiring easements for the protection and preservation of quality lands.
- Support the Lower Platte River Corridor Alliance by becoming an active voting member.

FY 2025-2029 Long Range Platte River Basin Objectives

- Continue to budget cost-share funds for priority bank stabilization along the Platte and Elkhorn rivers and other perennial streams in the district.
- Continue to be an active member on the Joint Water Management Advisory Board.
- Promote riparian buffer zones along the Platte River and other perennial streams.
- Continue to explore new, innovative and cost-effective ways to protect against stream bank erosion.
- Provide education on stream bank protection and regulations.
- Support and budget annually, as needed, for the Ice Jam Agreement Fund.
- Keep up to date on Clean Water Act and Endangered Species Act regulations.

- Continue to participate with the City of Fremont and Dodge County to study potential nonstructural measures to reduce flooding and economic losses from the Lower Platte River.
- Work with the City of Schuyler as they evaluate the need for future federal funding for completing structural and non-structural approaches to reduce flooding and economic losses from the Platte River through the LPNNRD District-Wide Hazard Mitigation Plan.
- Encourage cities and counties to initiate floodplain management planning to promote wise floodplain development.
- Assist dike and drainage districts within the LPNNRD to properly repair and maintain levy projects.
- Budget annually as needed to support the Lower Platte Weed Management group in controlling noxious weeds.
- Continue to support the Lower Platte River Corridor Alliance as an active voting member.



One of the Lower Platte North NRD's major responsibilities is to conserve and protect our ground and surface water resources. To accomplish this goal, the Lower Platte North continues to participate in water quality studies, ground water level monitoring, and water resource educational activities.

FY 2023 Ground & Surface Water Activities

Ground Water Management Area

LPNNRD implemented a District-wide Groundwater Management Area (GWMA) on January 1, 1997, to address both water quality and quantity concerns. This action was based on data gathered since 1985 indicating where groundwater quality conditions have deteriorated beyond those established as health standards, such as nitrate nitrogen. On that date, groundwater quality Phase I (education) regulations became effective for the entire District.

One primary rule in Phase I requires certification for fertilizer and water use. The District has developed a groundwater program emphasizing a protection-based approach rather than a reactive, corrective approach. Since that time, advanced Phase areas have been determined by trigger levels listed in the rules and regulations of the GWMA. The District has two Phase groundwater quality control areas, those being Bellwood and Richland/Schuyler. The Bellwood Phase 2 Area was established in 2003 and presently covers approximately 30 square miles in the western portion of the Platte Valley in Butler County and includes the town of Bellwood. In 2015 nitrate levels decreased to a point that the trigger levels were not being achieved, so this area was decreased to 20 square miles. The Richland/Schuyler Phase 2 Area was established in 2004. In 2015 this area was raised to Phase 3 because of the rising nitrate levels. This area covers approximately

55 square miles in the Platte Valley of Colfax County and includes the towns of Richland and Schuyler. In 2015, 10 additional sections north of the Richland/Schuyler Area became a Phase 2 area and in 2020 raised to Phase 3. Elevated nitrate-nitrogen levels continue to be the major concern in both Phase areas. Emphasis on awareness is a priority to the District with numerous grants being considered. A grant was received from the Water Sustainability Fund in November 2022. This grant will conduct a geological assessment to go with the AEM flights along with offering cost-share for best management practices in the Schuyler - Richland Phase Area. In July 2023 a WSF grant was approved to determine nitrate legacy from Richland to Fremont.

In June 2018, the District updated its Groundwater Rules and Regulations by adding a Phase Four under Water Quality and managing water by consumptive use or acre feet limitations. As of July 1, 2023, the District had 9424 registered active wells with 4606 irrigation wells and 212 wells in the GWEL network.

In Summer of 2012, the District saw mid-summer declines in the Bruno area and the uplands of Platte and Colfax Counties. These are now designated as the Butler-Saunders and Platte-Colfax Special Quantity Subareas. The District mandated water flow meters, rolling allocations and annual reports in these areas starting in 2016.

In 2012 seven NRD's agreed to develop a Lower Platte Basin plan, which is a cooperative agreement for the Basin Plan. This plan was approved in December of 2017 with each district assigned a depletion allotment within the Basin. The allotment is in 5-year increments starting in 2016 with a formula to determine the acre feet used for new water uses. The District completed its V-IMP in June of 2018 by adding an additional rule of requiring municipalities to report yearly water use, with an annual report

due to NeDNR. The Coalition contracted with the Flatwater Group to analyze the data that will be used in the next 5-year allotment. The group updated the plan for next 5-years in 2022 with new allotments until 2027.

In 2016 the Lower Platte River Consortium, made up of the Lower Platte South NRD, the Lower Platte North NRD, the Papio-Missouri River NRD, Lincoln Water System (LWS), Metropolitan Utilities District (MUD), and the Nebraska Department of Natural Resources (NeDNR), embarked on an effort to develop a drought contingency plan to maintain/mitigate sustainable water supplies to the Lower Platte River during drought conditions. The final report was finalized in the Spring of 2020. The group has discussed the projects to be considered for supplying water into the Platte River and will be making 5-year updates.

Current rules and regulations of the GWMA are available at the LPNNRD headquarters in Wahoo and via the district website at www.lpnrd.org.

Ground Water Quality Sampling

The Lower Platte North NRD continues efforts to develop a ground water quality inventory. The District has been divided into four primary aquifer regions: Todd Valley, Platte Valley, Shell Creek and the Uplands, and further divided into 26 subareas. Staff samples the same wells each summer, weather permitting, to determine long term trends for nitrate-nitrogen. This is referred to as the Statewide Network. The data collected is provided to the Nebraska Department of Environment and Energy (NDEE). NDEE in turn provides this to the Nebraska Legislature on an annual basis.

In 2022 samples were collected from 52 sites.

Year	Nitrate-Nitrogen Range	% Nitrate-nitrogen 0-8.0 ppm	% Nitrate nitrogen 8.01-10.0 ppm	% Nitrate nitrogen > 10 ppm
2022	0 - 18.7 ppm	69% (36 of 52)	15% (8 of 52)	15% (8 of 52)

Samples for pesticide analysis were collected from ten of these sites (19%). The pesticide analysis was for a suite of 25 parameters, and all results were less than reporting level.

Ground Water Energy Level Monitoring Network

One of the responsibilities of the NRDs in the State is to monitor fluctuations in groundwater levels. With the help of area cooperators, a ground water energy level monitoring network has been established in the LPNNRD. This monitoring network has been established to obtain a better understanding of the groundwater levels throughout the District. As of Spring 2023, the LPNNRD had 212 wells in the groundwater energy level monitoring network. These wells are monitored each spring and fall, with selected wells also measured in late August.

The LPNNRD compares the latest spring reading to the 1987 base-year to determine if a subarea needs to be declared a Level 2 or Level 3 groundwater management area. Level 2 and 3 management areas require flow meters on wells, annual reporting of water use, and establishment of acre-inch allocations. For the 26 sub-areas within the District, 24 subareas are currently at Level 1 management, while the other 2 sub-areas still need additional information before these can be designated. Sub-Areas along the Elkhorn and Platte Rivers are showing some of the wells reaching Level 2 and 3 management. The District prefers at least three years of data before the subarea can be designated as a Level 1, 2, or 3 management area.

Fall readings in 2022 and Spring of 2023 showed a decline from the previous year's measurement. This change was the continuing lack of moisture in the last 2 years. Spring readings in 2023 showed 92% of the wells measured had levels lower in Spring 2023 compared to Spring of 2022. There was a 3% rise in 6 wells from a year ago.

Chemigation

Chemigation is the act of injecting chemicals into the water line of an irrigation system that is then applied onto the crops. It is considered to be one of the most efficient ways of applying essential nutrients in times when the crop is uptaking the most amount of nitrogen through its growing stages. In order to chemigate, a licensed permit holder must obtain a permit through the Lower Platte North NRD. Special equipment must be installed to protect Nebraska's groundwater from possible back-flow of chemicals into the groundwater source. To obtain this permit administered by NDEE, you must pass the Chemigation Certification test taught through the University of Nebraska-Lincoln's certification program. There is an online test option available to producers. The chemigation equipment must be properly equipped, inspected and approved by the NRD before applying any chemicals. The number of chemigation permits continues to slowly rise throughout the district due to chemigation's efficient application rate when the crops are in the most need of nutrients. In sandier soil types, chemigation is extremely effective due to the soil's incapability to hold essential nutrients in the root zone after heavy rainfall events.

Chemigation Permits	Total	Renewal	New	Emergency
November 2022	733	676	56	1
August 2023	704	643	61	0

In 2014, the Legislature approved changes to Title 195 that would allow individual NRDs to set chemigation fees. Chemigation fees for LPNNRD are as follows: \$90 for a New permit, \$30 for a Renewal permit, and \$300 for an Emergency permit. Inspections are required on equipment for new permits. Renewal permits are inspected on a three-year rotation. Failure to renew by June 1st of the following year the permit was obtained will cause the permit to lapse. If a renewal

permit lapses, the producer must obtain a new permit and an inspection is required.

Decommissioned (Abandoned) Wells

Abandoned wells are a health and safety concern and have been ruled as illegal by the Nebraska Legislature. A well not used for three consecutive years or one which is no longer useful is considered to be abandoned and needs to be properly decommissioned.

The Lower Platte North NRD offers up to 75% cost share assistance to landowners to properly decommission abandoned water wells. In addition, the district will assist with up to 75% of the cost for pump and obstruction removal on domestic and stock wells. To receive cost share assistance, the actual decommissioning must be performed by a certified well driller or pump installer. The landowner has six months from the time of application to accomplish this task unless good cause is shown.

Since 1992 the district has administered local and state cost-share dollars to decommission 734 wells. Through this program in FY 22-23, a total of \$11,604.58 was administered by LPNNRD for the plugging of 10 wells. The district will administer approximately \$15,500 of state and local funds to plug additional wells during the current fiscal year.

Flow Meter Maintenance Program/Flow Meter Readings

Since 2008, the LPNNRD has implemented the requirement of installing a District approved flow meter on any new or replacement well. Thereafter in 2012, the District also required the installation of a flow meter on any expansion of acres from an existing well. This pumping information is invaluable to the District to know what has been pumped during years of extended drought. It is vital that the LPNNRD keeps track of this going forward into the future. In order to know the volume of water within our aquifer systems, we need to know the water that is being extracted.

In 2016, the district chose to contract with a

private company through the bidding process. The company was scheduled to maintain the flow meters within the LPNNRD’s SQS areas for the first four years. Since that was completed the District has chosen to open the flow meter maintenance program district wide in 2020. Maintenance on the flow meters will be performed once every four years. The district is in charge of the labor and site visit at each meter. Each mechanical meter site visit is \$60 and each battery operated site visit is \$75. This maintenance includes the regular greasing of the mechanical meters and changing the batteries on the digitally read meters. Along with the regular maintenance the private company also ensures that the meter is not damaged from water or vibration. There are approximately 1,150 irrigation well flow meters that are getting routine maintenance once every four years.

Along with the irrigation wells, the LPNNRD also records meter readings from all of the municipality wells within the District including MUD, Lincoln and Fremont. Livestock wells and commercial wells are required to report if the well was drilled after the 2012 requirement date. Over 1,200 readings are recorded annually throughout the LPNNRD District. This Fiscal year the LPNNRD budgeted \$24,000 for the meter maintenance program.

Registered Wells

The Nebraska Legislature declared that the conservation and the beneficial use of ground water are essential to the future well-being of the State. State Law requires that all water wells in the State of Nebraska be registered with the Department of Natural Resources. Wells that are not registered are illegal and should be registered as soon as possible. A breakdown by decade from 1970 to present shows the growth of active irrigation wells in the District.

Table of Active Irrigation Wells within LPNNRD compiled by Completion Date

Date	Number of Active Irrigation Wells in the District
December 31, 1970	1,428
December 31, 1980	2,756
December 31, 1990	3,241
December 31, 2000	3,686
December 31, 2010	4,307
December 31, 2020	4,554
July 1, 2023	4,606

Well Permits

In May of 2008, the LPNNRD placed a flow meter and water reporting condition on well permits for all permits issued after that date. All well permits require well owners to install a flow meter and report their water use for the calendar year to the LPNNRD by December 15 of each year. This reporting requirement is effective the year the well is drilled and for each year thereafter, until the well is decommissioned. From January 1 to July 1st, 2023, the District has issued 26 well permits with 8 new and 18 replacement irrigation wells.

Special Studies

The LPNNRD has done a number of studies within the District. The following is a list of studies that are currently being conducted within the District.

Aquifer Vulnerability Mapping and Analysis

The Lower Platte North has been working with UNL to collect and analyze data within the LPN Water Quality Management Areas. The first stage involved intensive water sampling of irrigation wells for nitrates. A few isotope nitrate samples were collected for the purpose of determining if the nitrates are from organic or inorganic sources. This was followed-up with vadose soil sampling analysis to assist in determining the amount of nitrates in soil and pore water present in the unsaturated zones above the water table. A nitrate tool was developed utilizing this data, along with

geological information to assist in determining vulnerability. This project was completed in 2021 with informational meetings in the area. The plan is to conduct some age dating of groundwater to help in nitrogen management.

3D Airborne Electromagnetic (AEM) Hydrogeologic Framework and Assessment

Papio-Missouri River NRD, NeDNR and LPNNRD started a study in January 2021 to assess AEM survey information, well logs, and other geological information. The data will be used to characterize different geological layers and assign variables such as hydraulic conductivity. This data will be used in groundwater modeling to better understand, assess, and forecast groundwater. This study was completed in January 2022. Starting August 2023 the process of taking this data along with LPSNRD assessment and completing a groundwater model for the Lower Platte River Basin.

Lower Platte River Consortium Study

Municipal wellfields in the Lower Platte River Basin depend on the Platte River to recharge groundwater for their use. This study looked at long term water supplies in the Lower Platte River Basin, and the ability to enhance streamflow, especially in drought conditions, to sustain these municipal water systems. Sustaining water in the river would also provide a benefit to wildlife and agriculture by lessening the likelihood of a 'call' on the river. Due to different hydrologic conditions in the Platte River, such as gaining and losing segments, siting of future reservoirs, groundwater storage projects, etc. becomes important in order to most effectively move water to a desired location downstream. The plan was completed in Spring 2020 with the group now in the process considering the options from the plan to determine the feasibility of the projects.

Eastern Nebraska Water Resources Assessment

LPNNRD is a partner in the Eastern Nebraska Water Resources Assessment (ENWRA). The ENWRA study has been utilizing Airborne

Electromagnetic (AEM) over eastern Nebraska to better model the geology of the glaciated portion of the State. It has opened several questions concerning bedrock aquifers both in water quantity and water quality such as salinity. New flights were conducted in the summer of 2018 with the final report received in summer 2019. A study is being conducted in the Platte-Colfax Area (SQS#2) utilizing the AEM, additional data loggers and other geologic logs to determine the relationship between confining and unconfined layers along with determining drawdown levels for management decisions. The flights and the results can be found on the ENWRA website at (www.enwra.org).

Elkhorn-Loup Model

The Elkhorn-Loup Model (ELM) project is a study of surface water and groundwater resources in the Elkhorn River basin upstream of Norfolk, Nebraska and the Loup River basin upstream of Columbus, Nebraska. Parts of this basin overlap and cover portions of upper Shell Creek.

Certifying Acres

In July 2009, the District signed a contract with gWorks (formerly GIS Workshop) to develop a database of county assessor records as the preliminary step to certifying irrigated acres. Using these records, LPNNRD staff mailed out letters to landowners to verify irrigated ground. As of January 2022, the majority of the irrigation in the district has been cataloged. The District is still granting new irrigation development. Those new acres are not entered into the certification database until they can be verified by aerial photography and accurately modeled. In March of 2021, the District went through all the approved new irrigation acres and modeled out all those that had yet to be counted. Acre certification provides an inventory of the irrigation needs of the District, which is an important part of present and future groundwater management and planning. In addition to cataloging irrigated acres, LPNNRD

staff have been actively working with the Nebraska Department of Natural Resources (NeDNR), as well as local landowners, to bring all irrigation wells in LPNNRD into compliance with Nebraska Revised Statute 46-602 (7).

Nebraska Ordnance Plant Water Pollution Clean Up at Mead

During the 1940s, 1950s and 1960s, an Army Ordnance Plant near Mead was used to assemble bombs and served as an early Atlas Missile ICBM site. Over time, the soil and groundwater at the plant site became polluted with various explosive residues and solvents. The cleanup has been divided into three basic project areas: Soils (OU1), Ground Water (OU2), and Building contamination (OU3). This area has been under study by the Army Corps of Engineers (COE) since 1988. An open house was held by the Corp, May 2023, with annual tours and open houses conducted regularly.

Wellhead Protection Program

The LPNNRD implemented a wellhead protection program in FY 2001. The goal of the program is to minimize potential polluting activities on the land surrounding a community's public water supply well(s). The District has identified 22 communities with public supply wells and they have been encouraged to become involved in the program. The Communities of Newman Grove and Platte Center have applied for Source Water Protection Grants to re-evaluate and approve their wellhead management areas. Both communities will do a nitrogen assessment for the area to assist in future well locations.

Rural Water Districts

In recent years, the District has worked with communities who have had difficulties with water quality and quantity by forming two rural water systems. The Butler County system linked the village of Bruno in 2006, who was having water quality and quantity problems, to David City. Also in 2006, the Saunders County system linked the village of Colon, who was

experiencing water quality concerns, to Wahoo. The LPNNRD operates both of these systems. The District purchases water from the larger communities and delivers it to the smaller communities; RW staff manage and maintain Colon's system and billing while Bruno manages their infrastructure and household billing. Both systems are designed to serve rural customers along each service route. Combined, the two systems serve over 135 households in Saunders and Butler Counties. To address fiscal concerns both RWDs have implemented a phased rate increase strategy to more diligently manage the financial standings of both districts. The District has been in contact with several other communities and anticipates several more communities and rural customers to be serviced by rural water systems in the future as rural communities face an increased burden at providing adequate quantity, and quality, water while maintaining aging infrastructure. Both systems are greater than 10 years old and repairs/replacements of meters is expected to take up RWD staff's time in 2023-24 as a number of meters and components are nearing the end of their expected service life.

Geographic Information System (GIS) and Global Positioning System (GPS)

LPNNRD has used Geographic Information System (GIS) technology since 1996. GIS is an automated system combining database information and maps. Features on a map, created with GIS technology, contain attribute or feature descriptions that are referenced by location. The data used by a GIS system consists of Vector and Raster Data. Vector data consists of point (wells), line (roads) and polygon data (irrigation boundaries or parcels); with Raster data consisting of pixels, where each pixel on the screen corresponds to a data point. Raster data includes aerial photography and elevation data such as LiDAR (a highly accurate elevation dataset). The District has incorporated the use of GIS into most district functions, including the certification of irrigated acres, maintenance, project planning, modeling of groundwater

availability, and the movement of contaminants such as nitrates through the soil profile.

In addition to in-house GIS activities, LPNNRD GIS staff assist a variety of partners, including projecting FSA aerial photography into Nebraska State Plane Feet coordinates for NeDNR, custom authoring of maps for the Nebraska Land Trust, coordination of helicopter flight lines for invasive species control with the Lower Platte Weed Management Area, and helping other NRDs with GIS questions as they emerge.

LPNNRD entered into an agreement with Phoenix Web Group to create a robust, relational database. GIS will be the backbone of this database and will allow LPNNRD to quickly, and efficiently, look up any information pertaining to any project or cost share that has been completed for any constituent with land in LPNNRD.

The Global Positioning System (GPS) relies on 31 NAVSTAR satellites, which provide world wide positioning and navigation information around the clock. Receivers acquire signals from satellites to determine precise locations on earth. The data obtained from taking GPS positions can be downloaded and mapped with GIS, making the two technologies complementary. LPNNRD partnered with NRCS on the purchase of a sub-centimeter GPS base station. This allows NRCS and NRD staff to quickly and efficiently perform a variety of tasks in the field with survey level precision.

As drone technology continues to evolve, LPNNRD has added a SkyDio2 Autonomous Drone to its inventory. LPNNRD Staff have completed FAA Part 107 certification, which ensures safe operation of drones for commercial purposes. This certification process involves an exam that covers airspace regulations, weather, and aviation safety.

FY 2024 Ground and Surface Water Objectives

- Continue to monitor changes in groundwater levels and quality in the district.
- Continue with LPNNRD Groundwater Management Area (GWMA) programs to help avoid the Lower Platte Basin being designated “fully appropriated.”
- Continue to implement Voluntary Integrated Water Management Plan (V-IMP) for the District and basin-wide plan. Utilize acre feet allotments assigned to the District for the benefit of the basin.
- As part of the GWMA, continue with LPNNRD certification classes, demonstration plots, generation of maps indicating problem areas, and evolving the development of a master database.
- Continue to cooperate with the United States Geological Survey (USGS) in monitoring groundwater levels at two sites.
- Continue to cooperate with the United States Geological Survey (USGS) in monitoring surface water levels at four sites and one site for contamination evaluation.
- Use the Subarea Delineation Study to identify ‘small pocket aquifers’ in the Swedeburg, Prague, Yutan, and Yutan South subareas. Review other aquifer subareas to determine if Stay Management Areas are justified in other portions of our District.
- Continue sampling of approximately 53 wells in our District that are part of the Nebraska State-wide Network.
- Continue to monitor the Phase Areas in Richland-Schuyler and Bellwood for nitrate and elevate these areas as needed.
- Continue implementing extensive sampling of soil and water in the Phase Areas for the purpose of identifying workable best management practices for curbing the rising nitrate trend.
- Implement best management practices within the Phase Areas for the purpose of decreasing nitrate levels.
- Administer \$19,000 of state and local cost-

share funds to decommission abandoned water wells, and provide 100% cost-share assistance within Wellhead Protection Areas to communities that are actively doing projects within its management area.

- Maintain a multi-agency groundwater energy level monitoring network in the Wann Basin of the Platte Valley north of Ashland to pool information from different agencies collecting water level data. This information is being used by the COE and MUD to refine their groundwater modeling efforts.
- Continue to implement the Chemigation Program to inspect safety equipment on permitted irrigation systems in the district.
- Continue with the District's Well Permitting Program and Variance Process throughout the District.
- Continue to review water use reports submitted to the LPNNRD as part of the well permitting process from new and replacement wells.
- Provide information and education on water conservation and safe disposal of farm and household chemicals.
- Continue to map registered and unregistered wells in the district using GPS.
- Promote and sponsor LPNNRD's Spring Conservation Sensation.
- Provide information on Integrated Pest Management in news releases and the "Viaduct" newsletter to encourage reduced use of pesticides.
- Support and promote urban water conservation and chemical disposal throughout the District.
- Assist in organizing the annual NRD Water Programs Conference held each year to update the NRD's on activity of State and Federal Agencies, new research, and Legislative issues.
- Continue to install flow meters on irrigation wells that are part of our Ground Water Energy Level (GWEL) Network.
- Expand the GWEL network to monitor aquifer sub-areas as designated in the 2009

Subarea Delineation Study. This will be done by incorporating additional high capacity wells and the drilling of new monitoring wells.

- Continue to monitor clean up efforts by the COE at the Former Ordnance Plant at Mead, Nebraska.
- Work with the COE to establish spacing requirements for future high capacity irrigation, industrial, and/or municipal wells that are requesting to be installed near known contaminant plumes from the Former Ordnance Plant near Mead, so these wells will not interfere with the COE's clean up efforts.
- Continue to monitor clean up efforts by the University of Nebraska at the Eastern Nebraska Research and Extension Center (ENREC) facilities east of Ithaca, Nebraska.
- Maintain transducers placed in District monitoring wells to record changes in groundwater energy levels and to continue the process of installing real-time remote reads.
- Implement Level 2 or Level 3 Management areas as warranted caused by declining groundwater energy levels in 50% or more of the monitoring wells reaching their trigger levels after three consecutive spring readings.
- Review livestock permits from NDEE.
- Investigate irrigation runoff and groundwater management area complaints as needed.
- Expand the NeRain program within our District.
- Continue to be a sponsor member of the Elkhorn-Loup Model (ELM).
- Continue groundwater studies with the University and NeDNR in the SQS areas. Study will focus on confined and unconfined aquifers and drawdowns within these areas.
- Communicate with well drillers and pump installers on water concerns within the District.
- Continue to assist the Eastern Nebraska Water Resources Assessment (ENWRA) with

the use of AEM (Airborne Electromagnetic) to study the eastern glaciated portions of Nebraska to provide a geologic framework map.

- Improve irrigation efficiency by working with UNL Extension on the Nebraska Agricultural Water Management Network (NAWMN) to install Watermark sensors and ET gauges with producers each year in our District.
- Continue with the process of updating Irrigated Acre Certification within the District.
- Continue working on projects identified within the Shell Creek Watershed Water Quality Plan.
- Update water quality objectives as identified in the Wahoo Creek Watershed and the Shell Creek Watershed Water Quality Plans.
- Continue to increase producer participation in online reporting for entering their data to improve efficiency and quality of data.
- Analyze the real-time water level measurement network in Special Quantity Areas for in-season management decisions for determining warning triggers.
- Start the groundwater modeling process jointly with PMRNRD, LPSNRD and NeDNR within the Lower Platte Basin for updating the Hydrological Connected Area (HCA) and assist in the well permitting process.
- To work with USGS and Lower Loup NRD on assessing legacy nitrate in Platte, Colfax and Dodge Counties, Nebraska by identifying wells to sample.
- To continue to work with UNL and NDEE on an interseeding cover crop project in the Shell and Wahoo Creek Watersheds.

FY 2025-2029 Long Range Ground and Surface Water Objectives

- Continue groundwater quality sampling throughout the LPNNRD, both the State-wide network and intensive sampling of selected regional aquifers.
- Continue water quality education programs based on the goals and objectives of the

LPNNRD Groundwater Management Area, which includes LPNNRD certification classes for landowners, municipal, and industrial water users.

- If needed, designate further Phase II, III, and IV boundaries for the Groundwater Quality Management Areas.
- Educate the need for check valves in protecting the aquifer from contamination.
- Continue with nitrogen application demonstrations and participate with demonstrations on integrated pest management and sustainable agriculture.
- Assist in the proper decommissioning of water wells in the district.
- Continue to use GPS to map registered and unregistered wells within the district.
- If necessary, designate Level II and III boundaries within the district to manage declining groundwater levels.
- If necessary, designate new Special Quantity Subareas (SQS) within the district to manage mid summer declines of groundwater energy levels in aquifers that operate under large pressure swings.
- Continue measurement of ground water energy levels in the district.
- Develop a groundwater model to assist in management for each sub-area. Additional information on water use from all wells will be needed for accurate information.
- Continued partnership with the Eastern Nebraska Water Resources Assessment (ENWRA) and apply information to the glaciated portions of our District.
- Initiate additional studies to identify vulnerable aquifers and modify GWMA rules and regulations to protect these aquifers and their long term sustainability. Continue geophysical work, installation of monitoring wells and test holes to better define these vulnerable sub-areas. Additional AEM flights with ¼ to ⅓ mile spacing would gratefully assist in defining such areas. Eventually cover the entire District with these detailed AEM investigations.
- Continue using AEM (airborne electromagnetic) information to analyze

bedrock aquifers both in water quantity and water quality. Test holes and monitoring wells will have to be installed and sampled to determine these as a possible source of usable groundwater. New management strategies need to be developed for these aquifers such as summer trigger levels for confined bedrock aquifers, especially if these are hydrologically isolated from overlying alluvial aquifers. This could develop into three dimensional management where aquifers at different depths are treated by a separate set of rules for each one. This could become very complex but will likely be the only way to sustain the use of these aquifers far into the future.

- Install precipitation gauges near monitoring wells in important sub-areas.
- Utilize the completed Lower Platte River Consortium Study for possible locations for recharge and reservoir sites to better convey water downstream to municipal wellfields.
- Complete water quality objectives as identified in the Watershed Quality Plans.
- Continue to update the Groundwater Management Plan to include Integrated Management of surface and ground water. It may be necessary to install additional surface water gauging sites coupled with nearby groundwater monitoring wells as tools for integrated water management.
- Expand the GWEL network to have continuous recording monitoring wells in each sub-area to better manage the resource with the ability for remote real-time readings. This is especially important in confined aquifers.
- Continue to update the certification of irrigated acres.
- Continue to assist District communities who have difficulties with water quality and quantity by helping determine rural water system feasibility.
- Keep the Saunders County Rural Water System study as an alternative in the event of changing federal regulations governing municipal water supplies.

- Keep abreast of updates and new iterations of the Elkhorn-Loup Model (ELM) to determine which areas in the Shell Creek watershed are in hydrologic connection with the Elkhorn or Loup River basins.

In summary, the LPNRRD needs to focus on five areas in the next five years:

1. Using information from the AEM flights and test holes, establish a monitoring well network in these confined aquifers to record continuous ground water energy levels. It is midsummer declines (late July to mid-August) when large drops in aquifer pressure can cause some wells to run low on water. Map locations of potential recharge sites. More flights, test holes and/or monitoring wells might be necessary in areas to provide the necessary information.

2. Establish ground water management rules to better address confined aquifers. This could involve comparing spring to summer ground water energy levels and comparing this to the potentiometric aquifer thickness and the depth of bedrock. The current management rules for unconfined aquifers should be adequate for future conditions. These controls are based on three consecutive spring readings at or below their trigger levels in at least 50% of the GWEL wells in a given subarea.

3. AEM flights have given a new interest in bedrock aquifers such as the Dakota formation. Monitoring wells in selected areas are needed to determine the water quality and quantity of these bedrock aquifers. Also are these bedrock aquifers in hydrologic connection to any overlying aquifers? If this is the case and new high capacity wells are being established in these bedrock aquifers then management should shift focus to the more vulnerable aquifer to sustain long term viability of both aquifers. If these bedrock aquifers are isolated from the overlying aquifer then "three dimensional management" where wells are managed differently due to

their depth may be in order. This could get complex but management needs to take the chemical and physical characteristics of the aquifer in account. For example, what is the salinity of the groundwater and is the bedrock aquifer cemented, unconsolidated, sandstone, limestone, or shale.

4. Horizontal wells. In the immediate future horizontal high capacity irrigation water wells will likely be established in thin aquifers to increase well output or yield. On the plus side, these could replace several vertical wells that are used in series and therefore be a cost savings to the well owner. On the negative side these could quickly dry up thin aquifers less than 20 feet in thickness and affect nearby wells. How do you manage such a system? At the least you could require 600 feet spacing from any point of the lateral to a neighbor's well but again this may not provide much protection in thin aquifers such as the area immediately west of Fremont. Other management options would be to restrict the number of acres irrigated, restrict the length and direction of the laterals, restrict well output such as limit the gallons per minute, establish water allocation, install monitoring wells such as near the end of the laterals to track groundwater levels, etc.

5. Integrated Water Management. Siting of potential recharge sites, storage reservoirs (both surface and groundwater), and potential water reuse projects to enhance the water supply in the District. Additional monitoring wells, streamflow gauging, and precipitation sites will likely be necessary. Effects of climate change will also need to be considered as part of integrated water management.



In response to the Erosion and Sediment Control Act (LB 474), passed in 1986, the Natural Resources Commission developed the Nebraska Soil and Water Conservation Strategy. This strategy outlines a course of action for efficiently conserving and managing the state's natural resources.

The Lower Platte North NRD administers the Erosion and Sediment Act and has patterned its local program after the state strategy. The district administers state and local cost-share funds through Soil and Water Conservation Programs (SWCP) to offer incentives to producers for installation of land treatment practices. LPNNRD staff also worked with NRCS staff to utilize Farm Bill Programs to repair erosion problems.

FY 2023 Soil Conservation Activities

Soil and Water Conservation Programs (SWCP)

Under Soil and Water Conservation Programs (SWCP), the LPNNRD allocated \$83,029.99 of state funds (Dept. Natural Resources) for land treatment practices during fiscal year 2023 in cooperation with 12 different landowner projects. In addition, 3 Buffer Strip contracts were administered with \$12,258 in state funds.

For fiscal year 2024, \$92,179.61 of state funds (from the Nebraska Department of Natural Resources) and \$25,000 of local funds will be allocated for soil and water conservation practices through the LPNNRD Lands for Conservation Program (LFC). The LFC program offers landowners a per/acre payment to set aside production ground to allow for summer construction. This lessens the burden on the fall construction season allowing more conservation work to be implemented.

Wahoo Creek Water Quality Land Treatment Efforts

Wahoo Creek in Saunders County, Nebraska, has resided on the Environmental Protection Agency's (EPA) list of impaired water bodies for decades. To address the impaired status of Wahoo Creek, LPNNRD in partnership with the U.S. Environmental Protection Agency (EPA) and the Nebraska Department of Environment and Energy (NDEE) developed the Wahoo Creek Watershed Water Quality Management Plan in 2013. These plans are updated every 5 years and the District is in the process of completing another update. This plan identifies goals to reduce excess phosphorus, nitrogen, soil sediments, and E. coli bacteria in the Wahoo Creek Watershed. This plan meets the EPA's requirement of containing "Nine Elements" of an effective watershed management plan. The plan identifies water quality goals to protect and enhance the quality of all water resources within the Wahoo Creek. Sub-watersheds within the Wahoo Creek Watershed were prioritized for future water quality projects. LPNNRD in partnership with EPA, NDEE, and the Natural Resource Conservation Service (NRCS) identified four Wahoo Creek sub-watersheds as National Water Quality Initiative (NWQI) areas to receive special EQIP and EPA 319 funding for landowners to complete conservation practices to help achieve the numerous identified water quality goals.

Shell Creek Watershed EPA Section 319 Water Quality Improvement Efforts

Shell Creek is a major tributary of the Lower Platte River. Land use in the approximately 305,000 acre watershed is predominantly row crop agriculture. Portions of Shell Creek are on the Environmental Protection Agency's (EPA) impaired waters list. The most notable impairments include E. coli (bacteria) and Atrazine.

The Shell Creek Watershed Improvement

Group (SCWIG) is a volunteer committee that formed in 1999 to lead local efforts to identify problems and to promote implementation of conservation practices to improve water quality in Shell Creek. This evolved into an advisory group to LPNNRD continuing to provide local leadership toward reducing erosion and water quality impairments in the watershed. A community-based planning approach was used to gather input from the citizens of the watershed for development of the Shell Creek Watershed Environmental Enhancement Plan that emphasizes combinations of practices that improve water quality.

Over the past 23 years, the Shell Creek Watershed has benefited with over \$2 million in EPA Section 319 funds combined with approximately \$4 million in partnering federal and local funds for assisting landowners in establishing Best Management Practices on their farms. These efforts resulted in Shell Creek becoming the first agricultural watershed in the nation to have a segment delisted for atrazine contamination in FY 2018.

In FY 2023, the NRD secured \$779,000 in grants from EPA/NDEE Section 319 and the Nebraska Environmental Trust (NET). These grant dollars matched with local funds are expected to yield over \$1.4 million of water quality work in the watershed over the next three years.

Erosion and Sediment Complaints

The LPNNRD responds to occasional erosion and sediment complaints. In most cases, these complaints are resolved before going through the formal complaint process. Many cases are drainage issues that are resolved between the District and landowners. During FY2022 NRD staff was subpoenaed on a case between two neighbors that could not be resolved amicably. The case has yet to be resolved as both parties continue to work together. During FY2023 LPNNRD was contacted by a landowner concerned about the placement of a tile outlet near his fence/property line. The work being completed on the neighbor's property was not

being done with NRD, or NRCS, approval. The NRD reached out to the neighbor's and through multiple conversations was able to come to an agreement that satisfied both parties.

FY 2024 Soil Conservation Objectives

- Use technical assistance from the NRCS in the planning, design, construction, and maintenance of conservation measures applied to the land.
- Use Federal, state, and local funds to promote and implement land and water treatment projects in priority areas of Wahoo Creek Watershed to reduce erosion and improve water quality. The NRD plans to coordinate with local NRCS through the National Water Quality Initiative (NWQI), NDEE's 319 program, and local funding efforts to achieve the goal.
- Continue encouraging the implementation of summer conservation construction utilizing federal funding within the Wahoo Creek Watershed through the Lands for Conservation program; for FY24 the NRD has approved \$19,600 for the set aside of 85 acres.
- Administer \$92,179.61 of State NSWCP funds and \$25,000 of local cost-share and grant funds to landowners for the construction of terraces, tile outlets, waterways, diversions, small dams, planting of permanent vegetation, and maintaining water quality.
- Continue to promote conservation tillage measures, pasture & range management, sustainable agriculture, and the Conservation Reserve Program (CRP), through news releases and the district's newsletter.
- Recognize the Outstanding Soil and Water Conservationists.
- Continue to assist landowners in resolving soil erosion and sediment complaints.
- Provide financial support and staff time to conservation education activities.

- Continue to work closely with locally-led conservation groups to promote soil and water conservation throughout the district.
- Partner with the Shell Creek Watershed Improvement Group (SCWIG), EPA/NDEE, NET, and NRCS toward continuing implementation of Best Management Practices in the Shell Creek Environmental Enhancement Plan Implementation.
- Work with NRCS, NDEE, NET, Saunders County, and the Wahoo Creek locally led Steering Committee in pursuing additional federal and state funds to assist with land treatment practices as defined in water quality objectives in the Wahoo Creek Watershed Water Quality Plan.
- Assist with the formation of local landowner advisory steering committees in the Wahoo and Bone/Skull Creek Watersheds for planning soil & water conservation practices and flood reduction.
- Use existing and new technology and GIS software programs for implementing and promoting soil conservation practices.
- Promote the use of and make available soil surveys and land use information.
- Continue to support Locally Led Landowner Groups to promote and implement soil and water conservation practices.

FY 2025-2029 Soil Conservation Long Range Objectives

- FY 2024-2028 Soil Conservation Long Range Objectives (Sean, Ryan) DONE
- Maintain existing land treatment practices and programs.
- Continue to work with all counties in the district to reduce roadside erosion.
- Administer NET and NDEE/EPA 319 Grant Programs to improve water quality throughout Wahoo Creek, Shell Creek, and the Lower Platte River Corridor Alliance priority watersheds.
- Look for new and innovative soil and water conservation methods.
- Partner with NRCS, UNL Extension, and landowners to improve all aspects of their water and soil quality.
- Continue to support the Land and Range Judging Contests.
- Continue targeting SWCP land treatment program funds for priority watersheds in the District.



FLOOD CONTROL & DAMAGE REDUCTION ACTIVITIES

Projects have been completed in priority areas in the LPNNRD to help reduce flooding and provide grade stabilization. Projects have been completed in Bellwood, Clear Creek, Cottonwood Creek, Sand and Duck Creek, Swedeburg, and Rawhide Creek watersheds. Current high priority flood reduction areas include Bone Creek, Shell Creek,, Skull Creek, and Wahoo Creek watersheds. On federal and state projects where the LPNNRD acts as project sponsor, the district obtains land rights and is also responsible for operation and maintenance activities on these projects after they are built.

The LPNNRD offers local assistance for the construction of small dams that can help counties and/or landowners protect county roads, control erosion, and provide water for livestock and wildlife.

FY 2023 Flood Control and Damage Reduction Activities

Wahoo Creek Flood Reduction Efforts

The NRD is currently in the process of building ten flood reduction dams in Wahoo Creek watershed, estimated to cost \$19.7 million in 2020. Federal (WFPO) and state funds (JEDI) are expected to fund the entire project including planning, design, permitting, land rights, construction, and construction oversight. Construction will begin in FY2024 on three sites: 26a, 26b, and 27. Construction is expected to begin in FY2025 on the remaining seven sites: 55, 66, 77, 82, 84, 86, and 86. Completion of all ten dam sites is anticipated by the end of FY28.

Sand Creek Environmental Restoration Project (Lake Wanahoo)

With the invaluable assistance of numerous local, state, and federal partners, 2011

witnessed the completion of construction on Lake Wanahoo's earth embankment. The breakwater feature and the fisheries component were completed a few years prior to the embankment. Recreation components were completed for Lake Wanahoo in FY2011. Construction of seven upstream flood reduction/environmental enhancement structures were completed in FY12-14. In FY19, LPNNRD assumed Lake Wanahoo's recreation management responsibilities from the Nebraska Game and Parks Commission.

Operation and Maintenance

District staff completed inspections on 45 watershed structures and special projects in the NRD in FY 23. These inspections help detect problems before they become serious. Also during the 2023 fiscal year, noxious weeds and volunteer trees were sprayed on 45 dams, Clear Creek Levee, and the Rawhide Ditch System. Annual maintenance activities such as removing debris, repairing fences and unplugging risers were completed at many of the dam locations. The District is currently working with NRCS and a Engineer Consultant in the rehabilitation of dam Cottonwood 21-A.

Army Corps of Engineers 205 Flood Studies

Over the past many years, the District has partnered with local entities and the US Army Corps of Engineers to study flood protection alternatives for their areas. In 2004, LPNNRD partnered with Fremont, Inglewood, and Dodge County to look at a potential levee project to remove areas from the Platte River 100-year ice induced floodplain. In FY 2017, the Fremont study evolved into a General Investigation (GI) Study which determined that there is not a feasible structural solution (levee) to the City of Fremont's flood threat from the Platte River. In 2018 the GI Study evolved back to a 205

Non-Structural Study for the City of Fremont and Dodge County. This effort will continue in FY 2024.

In 2005, LPNNRD entered into an interlocal agreement with the City of Schuyler to evaluate levee protection options to protect the city from flooding from the Platte River and Shell Creek. In FY 2012, the Schuyler 205 Study was completed and entered into the project design phase. In FY 2014 the design phase was completed and LPNNRD assisted Schuyler with obtaining needed land rights for the Shell Creek Levee portion of the project which began construction activities in the spring of 2014 and most construction activities were completed in the fall of 2015. LPNNRD continued to assist Schuyler in FY 2018 with closing out the project with the Army Corps of Engineers. Schuyler continues to do a great job in maintaining the levee.

FY 2024 Flood Control and Damage Reduction Objectives

- Continue with accelerated land treatment efforts in identified priority watersheds in the District.
- Complete annual and/or biennial inspections on 45 watershed structures; spray noxious weeds & cut and treat trees on 45 dams, Clear Creek Levee, and Rawhide ditch; complete regular maintenance activities at all sites.
- Continue to be an active partner on the Joint Water Management Advisory Board to explore flood reduction and drainage solutions in portions of Dodge County within LPNNRD.
- Partner with the City of Fremont, Dodge County, and Papio-Missouri River NRD to fund operation and maintenance of established USGS cameras and water gauges at five locations along the Lower Platte River.
- Partner with Dodge County and City of Fremont on FEMA Drainage

Improvement Project.

- Continue to educate the public on watershed management and flood reduction in LPNNRD newsletters, news releases, and our website.
- Cooperate with landowners and counties in evaluating small dam sites for cost-share throughout the district.
- Continue to partner with the Army Corps of Engineers, FEMA, City of Fremont, Englewood, and Dodge County on exploring non-structural opportunities for feasible flood control solutions.
- Support the City of Schuyler for exploring non-structural opportunities for feasible flood control solutions from the Platte River through the LPNNRD District-wide Hazard Mitigation Plan.
- Work with Communities, Counties, and other entities on projects identified in our District-wide All Hazard Mitigation Plan.
- Complete easement acquisition for all ten Wahoo Creek Watershed flood reduction dam sites.
- Complete engineering designs on Wahoo Creek Dam Sites 55, 66, 77, 82, 84, 85, 86.
- Begin construction on Wahoo Creek Dam Sites 26a, 26b, and 27.
- Begin the process of updating LPNNRD's district-wide All Hazard Mitigation Plan.
- Work with Dodge County, City of Fremont, and other JWMAB members toward the completion of the Rawhide Watershed WFPO Planning efforts.
- Partner with NRCS through the Dam Rehabilitation program to rehabilitate dam Cottonwood 21-A.

FY 2025-2029 Flood Control and Damage Reduction Long Range Objectives

- Continue to commit funds and staff time toward completing flood water control/reduction structures in the Wahoo Creek Watershed.

- Continue to budget staff time and funds to maintain and operate completed flood control structures that are sponsored by the LPNNRD.
- Develop a long term plan for Operation and Maintenance costs associated with large structures.
- Continue to explore flood reduction opportunities for Bone Creek, Shell Creek, and Skull Creek Watersheds.
- Continue to encourage cities and counties in the district to accept and implement Floodplain Management Authorities.
- Assist Fremont, Inglewood, and Dodge County with non-structural flood protection projects as identified by the Army Corps of Engineers study and the Hazard Mitigation Plan Flood Resiliency study.
- Assist Schuyler with non-structural Platte River flood protection project opportunities as they become available.
- Assist District Communities in evaluating future flood protection for their communities through updating the District's Hazard Mitigation Plan and assisting with identified projects.
- Construct ten approved Wahoo Creek flood water reduction dams by the end of 2028.
- Continue to work with JWMAB members on the numerous projects identified as flood reduction/drainage improvement projects.
- Partner with NRCS in the Dam Rehabilitation Program on dam Cottonwood 21-A.



The district administers several programs designed to enhance the region’s forest, range, and wildlife land, including the Tree Planting Program, Wildlife Habitat Programs with Nebraska Game & Parks and Pheasants Forever, SWCP Program, and Mitigation Program. The district also sponsors educational activities such as Range Judging and Land Judging contests, and other school-oriented activities.

FY 2023 Forestry, Range, and Wildlife Habitat Activities

Tree Program

One of the most visible and popular programs offered by the LPNNRD is the district’s tree planting program. As a direct result of this program, begun in 1973, an estimated 873,225 trees and shrubs have been planted in the district. Trees and shrubs may be obtained from the NRD for windbreaks, shelterbelts, wildlife habitat, woodlots, and Christmas tree plantings. Besides providing a planting service, the NRD also designs tree planting plans and offers technical advice on ground preparation for tree sites.

During the spring of 2023, 10,475 trees and shrubs were distributed to District residents. Of this total, 3,606 were planted by the NRD field crew at 12 sites.

Wildlife Program

Lower Platte North continues to encourage landowners to set aside land for wildlife habitat by using Federal Programs and Programs provided by Nebraska Game & Parks and Pheasant Forever. These programs include Corners For Wildlife and Wild Nebraska.

Community Forestry Program

In FY 2022-2023 LPNNRD donated 900 seedlings for schools in Fremont and Newman

Grove; provided trees to the District’s annual Spring Conservation Sensation; and provided trees for the Fremont EcoFair. The District budgets \$2,000 for Community tree development projects. The District did not assist a Community during the fiscal year.

FY 2024 Forestry, Range, and Wildlife Habitat Objectives

- Plant and distribute conservation trees and shrubs through the district’s Tree Planting Program.
- Continue to include tree planting as an eligible cost-share practice under the
- SWCP program.
- Offer trees and give staff presentations to elementary students across the district.
- Assist cooperators with signing up for Wildlife Programs.
- Cooperate with the Extension Service and the NRCS in obtaining tree orders from District residents.
- Provide cost-sharing for the conversion of cropland to grassland through the SWCP program.
- Cooperate with Pheasant Forever Chapters to enhance wildlife habitat and establish windbreaks.

FY 2025-2029 Forestry, Range, and Wildlife Habitat Long Range Objectives

- Increase tree and shrub sales and planting each year through the district’s Tree Planting Program for qualified property owners.
- Provide information and education on tree planting, woodland management, grassland management, and proper wildlife habitat enhancement through media, tours, and schools.

- Continue to administer Wildlife Habitat programs in cooperation with the Nebraska Game and Parks Commission and other partnering entities as opportunities arise.



FY 2023 Recreation Activities

Czechland Lake Recreation Area

Czechland Lake Recreation Area is a multipurpose project located one mile north of Prague, Nebraska on Highway 79. Flood control, recreation, and education are the main benefits of the project. Located at a convenient distance from Omaha, Lincoln, Fremont, and Wahoo, the 85 surface acre lake is situated on 265 acres of public access land operated and maintained by the LPNNRD.

State park permits and fees are not required for entrance to the area. Czechland Lake has 11 electrical camper pads at an \$18/night fee for the use of a camping pad. There are also three non-electrical pads. A Nebraska Fishing License is required for anglers. The lake fishery is managed by the Nebraska Game and Parks Commission, which stocks and monitors fish populations. Catfish, Bluegill, Northern Pike, and Largemouth Bass were initially stocked in Czechland Lake.

Originally built as one of twelve floodwater structures in the Cottonwood Creek Watershed, Czechland Lake has developed into one of the area's most popular recreation spots. The reservoir and recreation area development was built at a total cost of \$1.8 million. Funding for the project was shared by the Nebraska Natural Resources Commission, Saunders County, USDA Natural Resources Conservation Service, and LPNNRD. Grant monies from the U.S. Environmental Protection Agency have been used to reduce non-point source pollution entering the lake and to provide educational resources.

The Czechland recreation area was used extensively during FY 2023 generating approximately \$10,000 in camping revenue. Mowing, trash removal, repair, and upkeep of park equipment, and thistle control kept LPNNRD park staff very busy during the spring and summer.

Homestead Lake (Skull Creek Site #55)

Construction was completed on Homestead Lake in 2001. The dam offers flood control for nearby communities, and has been developed for public recreation. Recreation facilities include a shelter, restroom, picnic areas, a boat ramp, and hunting areas. FY 2023 proved to be another very popular year for recreationists as the area was extensively used.

Lake Wanahoo

Work was completed on recreation facilities at Lake Wanahoo one mile north of Wahoo in FY 2012. Recreation facilities at the 1,600 acre site straddle the 662-acre lake, with camping and boating access on the west side and a day use area on the east. A rocky hiking/biking trail winds throughout the park, linking the east and west side recreation areas over a breakwater levee one mile north of the dam. Mowed trails north of the levee provide access to undeveloped areas set aside for wildlife habitat.

The camping area contains 75 camper pads, 54 tent camping sites, and 6 primitive cabins. All camper pads are equipped with electrical hookups and are rock surfaced. All sites have fire rings and picnic tables.

The recreation area offers access to two large boat ramps wide enough to accommodate four boats at a time. Boating on the entire lake is no-wake only.

The day use area on the east side of the lake has two large picnic shelters and two smaller ones, all offering scenic views of the lake. In FY 2017 a dump station for RV's was constructed on the east day use area as well as a disc golf course/nature educational trail.

Both the camping and day use areas provide excellent fishing access, with a total of seven fishing jetties. One jetty on each side has an attached handicapped pier. The lake was stocked with largemouth bass, bluegill, blue

catfish, crappie, northern pike, and walleye beginning in 2008.

Limited hunting opportunities will continue to be available at Lake Wanahoo through the Game & Parks Commission PATH Program, where adults can schedule a time to mentor a youth hunter at designated hunting sites north of the recreation area.

The Lake Wanahoo Recreation Area was opened to the public in spring 2012. An operation and maintenance plan was developed with the assistance of the Nebraska Game and Parks Commission and Pheasants Forever in FY 2014 which identified activities that were implemented in 2015.

In FY 2019, LPNNRD assumed the responsibilities of administering Lake Wanahoo as a public recreation area from the Nebraska Games & Park Commission.

In FY 2020, the Clint Johannes Education Building was completed on the day use portion of the recreation area. This facility provides a protected outdoor education space for LPNNRD education activities, as well as a public rental facility for the public. Also in FY 2020, six new primitive cabins were installed in the primitive camping portion of the park to give visitors a unique alternative to tent camping.

FY 2025-2029 Recreation Long Range Objectives

- Continue to evaluate the development of new outdoor public recreational opportunities as they arise.
- Continue to assist NE Game & Parks and Pheasant Forever in developing new areas offering public access.
- Install a new fish cleaning station on the West side of Lake Wanahoo.

FY 2024 Recreation Objectives

- Continue to budget funds for maintenance, including grass mowing, tree trimming, grading roads, outhouse cleaning, trash removal, painting, and noxious weed control, at Lake Wanahoo, Czechland Lake, and Homestead Lake Recreation Areas.
- LPNNRD will continue managing all recreation at the Lake Wanahoo recreation area.
- Design and installation of 10-14 slip marina on west side of the lake. Marina will enable campers with boats the opportunity to keep their boats on the water during their stay.



It is the general policy of the LPNNRD not to provide financial assistance for drainage improvement and channel rectification unless a project has public benefit and is sponsored by a county, city, Drainage District, or a group of landowners through an established Improvement Project Area. Under this policy, the district has cooperated on several projects that have provided public benefit.

FY 2024 Drainage Improvement & Channel Rectification Objectives

- Worked with Colfax County to complete new Shell Creek South Channel Improvement/Benching Projects.
- Partnered with Dodge County and Fremont to support drainage improvements east of Fremont through FEMA.
- Partnered with the North Bend Drainage District, Dodge County, and City of Fremont to support the drainage improvement project for the North Bend drainage ditch through FEMA.
- Continue to oversee the Rawhide Creek West Branch Project to ensure that landowners properly control vegetation.
- Continue providing assistance to Platte Center with stabilizing segments of Elm Creek.

FY 2025-2029 Drainage Improvement & Channel Rectification Long Range Objectives

- Evaluate potential technical and funding assistance to counties, cities, and other entities in the district that sponsor sound drainage and channel improvement projects.



Over 30 years ago, vast changes occurred in Nebraska's solid waste regulations. Landfills that weren't properly designed, operated, or sited were required to shut down, as were unauthorized dumps. In order for a landfill to operate, it must be approved by the State and receive a permit. If a permit is not issued, the landfill cannot legally operate. Currently, the only permitted landfill in the Lower Platte North NRD is a facility near David City.

FY 2024 Waste Disposal & Pollution Objectives

- Promote recycling efforts in the district through education programs, newsletters, and news releases.
- Participate in education efforts to promote the reduction of pollution to our air, water, and soil resources.
- Cooperate and be supportive of other group and agency pollution control efforts, education, and/or regulation.

FY 2025-2029 Waste Disposal & Pollution Long Range Objectives

- Assist and encourage all District communities in establishing collection locations for recyclable wastes.
- Assist District cities and counties in establishing pickup days for hazardous household and farmstead wastes as opportunities arise.
- Promote waste reduction efforts in the district through education and incentives.



A major responsibility of the Lower Platte North NRD is to keep the public aware of the district's various projects and programs, and to inform and educate children and adults about the wise use and management of our natural resources.

FY 2023 Information & Education Activities

During fiscal year 2023, the Lower Platte North NRD conducted many activities to help residents learn the importance of our soil and water resources and to stay informed of issues and concerns regarding natural resources. Some of the highlights included the following.

Publications and Marketing

The NRD distributes two newsletters each fiscal year. The Winter issue of "The Viaduct" newsletter includes an additional page that contains the Annual Report. In FY 2012, the district switched distribution of "The Viaduct" newsletter from direct mail subscriptions to inserts in area newspapers. In FY 2023, more than 20,000 copies of each newsletter were distributed in eight newspapers and via email. Copies of the newsletter are also available on the website at www.lpnrd.org/downloads.

Various brochures describing LPNNRD programs and services were updated as needed in FY 2023. These brochures are displayed in the office and distributed during LPNNRD sponsored events and exhibit booths.

Press releases are distributed to district newspapers, email lists and radio stations. Numerous ads spotlighting different NRD programs and upcoming deadlines air on KTIC Radio throughout the year. Digital ads on the Wahoo newspaper website continued in FY 2023. In FY 2020, the LPNNRD began airing 30-second program commercials on News Channel Nebraska covering the various

departments of the LPNNRD. In FY2023, a recreation video featuring Czechland Lake, Homestead Lake, and Lake Wanahoo was produced and aired on News Channel Nebraska.

The NRD continues to maintain information and education outreach for the district through the use of social media outlets on Facebook, Twitter, and YouTube. These outlets are maintained weekly and provide information along with photos and videos about the district's ongoing activities and events.

Website

The NRD's website at www.lpnrd.org contains information on nearly all of the district's projects and programs, along with staff information, board of directors information, as well as committee and board meeting minutes, and district publications. Online applications and registration forms for various projects and programs are also available. Additionally, online payment capabilities continue to allow customers to pay for trees, rural water bills, and Lake Wanahoo permits. The website continues to be updated frequently.

Video Promotion

Beginning in FY 2018, 60-second, and 30-second videos were created to promote the conservation efforts of departments of the NRD. Past directors, current directors, and current staff have been featured in the videos. Promotional videos have been created for the Water Department, Operations & Maintenance department, Projects department, Information and Education department, and the three LPNNRD recreation areas (Czechland Lake, Homestead Lake, and Lake Wanahoo). Clips from all of the videos are combined to create one video that features portions of each department at the LPNNRD. These videos are shown as educational purposes for presentations, on the LPNNRD website,

commercials through area television stations, and featured on social media platforms.

Education Programs

During FY 2023, the district continued with two year-long programs. The St. Wenceslaus Pre-kindergarten students learn about wildlife, trees, birds, soil and water conservation through books, pictures, stories, and hands-on activities. The students visited Lake Wanahoo at the end of the year for a field trip filled with nature hikes, nature crafts, and disc golf. The district teamed up with Wahoo Public middle school students for the Survival Club program, making a total of three school years of the program. LPNNRD staff and other outdoor enthusiasts met monthly with students during the school year to learn about hiking, knot tying, 2-legged predators, 4-legged predators, fishing, first aid, foraging for wild foods, fire building and other outdoor survival skills. Opening up the program to the whole middle school had student attendance consistent with almost 30 students for the campfire building exercise and an average of 10 students per month. The end of the year camp out at Lake Wanahoo will be a priority in FY 2024. Trinity Lutheran Middle School met with Staff at Lake Wanahoo for a half day event, where we worked through survival club activities such as knot tying, 2 and 4 legged predators, everyday carry kits, foraging for wild foods, campfire building, and campfire cooking.

The district continues to participate in the Career Exploration Opportunities (CEO) Program with Wahoo Public Schools. During the fall semester of 2023, LPNNRD staff hosted one high school senior and he rotated between each department to learn about the LPNNRD responsibilities. The district will host another student during the fall of FY 2024. This student will be with staff every day from 1:30-3:30 but will drop down to three days a week starting in November.

The Clint Johannes Education Building is utilized for events of all kinds. Local teachers and other organizations will use it for their

students and staff as a meeting space with a great view and amenities. The LPNNRD utilizes the building for educational events each month. The event, Coffee Lakeside, has impacted close to 100 people, who meet in the building once a month. Topics included wildflowers, fireflies, animal adaptations, fall activities, phenology, nature based play, lake ecosystems, water flower identification, fungi, and more. All other NRD related events are also hosted in the building or another location at Lake Wanahoo.

Seven new events were held at the LPNNRD with a total of 10 held throughout the fiscal year. Wildflowers and Wine and All About Bees were two repeating events that continue to draw in large crowds. These events center around pollinators, their habitat, and how we can continue to provide natural places on both small and large scales to aid in the conservation of these species. The new events offered were: Trivia and Game Nights; Back to School Night; 1st Annual Fall Festival; Native American Heritage Day; Natural Resources Camp; Community Fishing Event; and Nocturnal Nights. These events drew in participants of all ages with some returning and some new individuals. Staff also participated in the county-wide, Kid's Summer Institute, that ran all of June. Students participated in dip netting for macroinvertebrates; birding; disc golf; nature journaling; and wild about wildflowers. These classes were held at Lake Wanahoo. Staff met with North Bend Public Library and Yutan Public Library for story time hours where owl pellets were dissected and birds were studied. Some of the FY 2023 events were made possible by partnerships with other agencies, organizations, and businesses. Strengthening these relationships and exploring new ones will continue to be a goal for FY 2024.

The Lower Platte North NRD and Lower Platte South NRD rotate in hosting the East Central Land Judging Contest. Land Judging is a competition for high students that challenges them to gain a better understanding of soil structure and land evaluation. The Lower Platte North NRD works with local NRCS employees to choose a site location and help with site

preparation. The Lower Platte North NRD staff and NRCS staff will assist in the preparation, contest monitoring, and scoring efforts during the contest. The East Central Land Judging Contest was held by Lower Platte North NRD on October 5th, 2022. 253 students competed in this event. The Area 5 Range Judging Contest was also held in FY 2023, where staff at the LPNNRD helped host the competition. 260 students competed in this event that was held at Camp Moses Merrill.

The annual LPNNRD Spring Conservation Sensation was held on May 3rd at Lake Wanahoo. Fifth and sixth grade students from Saunders, Butler, and Dodge Counties participated in various activities. Hands-on activities were presented by LPNNRD staff, additional personnel from various agencies and organizations, and volunteers to teach students about the environment, natural resources, tree planting, lake ecosystems, wildlife education and more. 300 students attended the event.

The second annual LPNNRD Natural Resources Camp was held at Lake Wanahoo. For one week, attendees learned how to fish, how to go birding, about the amphibians and reptiles of Nebraska, and insects, both macroinvertebrates they found in the lake and the land dwelling butterflies and moths. Eight boys attended the week-long camp. The hands-on activities were the students favorite parts per their evaluations and they are looking forward to returning next summer. The goal for FY 2024 is a full camp of 15 attendees, and new activities such as fire starting and campfire cooking, and archery.

Test Your Well Event is a program that partners with area FFA chapters to host public events, providing nitrate testing of water samples from private wells at no cost to the attendees. The district held 3 events in FY 2023 that involved over 20 students. The goal for FY 2024 is to have every FFA chapter in our district host a test your well night.

Staff at the LPNNRD went into 29 classrooms, attended 2 outdoor classrooms days, held 6 field trips, and interacted with every grade level Pre-K through 12th. Four new schools,

Aquinas Catholic, Trinity Lutheran, Lindsay Holy Family, and Fishers School (Schuyler), invited us into their classrooms this year amongst other schools we've previously attended. Some of the goals for FY 2024 involve finding teachers in school districts such as North Bend, Mead, or Yutan, where we haven't previously been to, and work with them to bring fun and educational activities to their classrooms. Staff is also pushing Coffee Lakeside out of Wahoo and into other communities. North Bend Public Library will be hosting a Coffee Lakeside in the fall of FY 2024.

District staff provided various presentations and activities during natural resources festivals, field days, out-of-school time programs, school classrooms, online activities on the LPNNRD website, and adult education events. As a result of the district's educational outreach efforts, there was interaction with approximately 2,774 youth and 300 adults in FY 2022. These numbers do not include the 513 students who participated in Land and Range Judging. The interactions this fiscal year brought us to over 1,000 more student participants than the previous year. LPNNRD will strive for even more interactions in the years to come.

Awards, Contests, and Events

In addition to marketing efforts, the LPNNRD provides a physical presence with exhibit booths at local county fairs, agriculture expos and other events across the district. In FY 2023, exhibit booths were displays at the Soybean Day in Wahoo, Fremont Corn Expo, Career Fair at Midland University, Fremont Eco Fair, and Butler County Fair. Donations were provided to the Saunders County Fair and Dodge County Fair. Materials at the events included brochures of the NRD's projects and programs, and various promotional items.

The Lower Platte North NRD offers three \$1,000 scholarships for graduating seniors who have been involved in the Shell Creek Watershed Monitoring Program and plan to pursue higher education relating to science or natural resources. The Shell Creek Watershed

Improvement Group (SCWIG) prioritizes education outreach to improve public awareness of the project and encourage conservation with best management practices. Newman Grove High School, Lakeview Community Schools, and Schuyler Central High School are involved with the conservation efforts in the watershed. The students spend their summers collecting samples and measurements, analyzing data, and reporting results to determine water quality of the stream.

FY 2024 Information & Education Objectives

- Publish the district newsletter "Viaduct" biannually in an electronic format and as a printed newspaper insert in 10 area newspapers.
- Send timely news releases to the local media on various LPNNRD programs, projects, and activities.
- Disperse pamphlets and other publications about LPNNRD programs.
- Update the district's website frequently.
- Continue to provide a display at county fairs or agriculture events (up to five major counties) within the district.
- Continue information and education outreach for the district through the use of tools such as local radio stations, local TV stations, and social media outlets (Facebook, Twitter, YouTube, etc.).
- Continue with the annual awards and recognition program.
- Provide district elementary students with free trees, as requested, in the spring.
- Provide LPNNRD staff as requested to speak to community organizations and schools on NRD activities and environmental topics.
- Provide various education programs, events, and activities to area schools and out-of-school time programs.
- Host the East Central Region Land Judging Contest in the fall of 2022.
- Host the 32nd Spring Conservation

Sensation in May 2023.

- Develop new programs and promotional projects to aid in outreach efforts of the district.
- Develop a video for the three recreation areas in the district.
- Provide assistance and publications for the students involved in the Shell Creek Watershed Monitoring Program.
- Continue to provide a scholarship for graduating seniors in the Shell Creek Watershed Monitoring Program who plan to pursue higher education relating to science or natural resources.

FY 2025-2029 Information & Education Long Range Objectives

- Search for new and effective ways to inform and educate the public on the NRD purpose and programs.
- Participate with the Information & Education Staff Group to coordinate statewide I&E activities and produce statewide products.
- Increase participation in activities sponsored by other agencies relating to the NRD's responsibilities.
- Seek to have conservation/environmental education as a part of the school curriculum.
- Support environmental education activities and events throughout the district, and neighboring NRDs.
- Provide assistance for the East Central Region Land Judging Contest in the fall of 2023, hosted by Lower Platte South NRD.
- Assist in the development of an outdoor classroom for a district school.
- Partner with district schools to host Test Your Well Events annually.



LPNNRD Staff

The staff of the Lower Platte North NRD includes 19 full-time and 11 part-time/seasonal employees. The NRD administers a full-time field technician, four field office assistants in Natural Resource Conservation Service county offices, and a Recreation Facilitator for Czechland & Homestead Lake Recreation Areas.

Included in the part-time positions, the district employs seasonal conservation technicians to assist in the layout of land treatment structures. There are seasonal summer employees hired to help with Lake Wanahoo, water sampling, tree planting, and maintenance of LPNNRD projects. Personnel positions and assigned responsibilities may increase in the future as increased project and program responsibilities increase.

Current staff as of September 1, 2023:

Sydney Abbott, **Education Coordinator**
 Daryl Andersen, **Water Resources Manager**
 Jill Breunig, **Bookkeeping Department Head/Administrative Assistant**
 Will Brueggemann, **Water Resources Specialist**
 Ryan Chapman, **Assistant General Manager**
 Duke Dokulil, **Operations & Maintenance Technician**
 Sean Elliott, **Projects/Rural Water Manager**
 Noah Franzen, **Water Resources Specialist**
 Eric Gottschalk, **General Manager**
 Bob Heimann, **Operations & Maintenance Manager**
 David Moore, **Operations & Maintenance Technician**
 Russell Oaklund, **Lead Water Resources Specialist**
 Dave Odvody, **Recreation Facilitator**
 Karen Rezac, **Department/Administrative Assistant**
 Lacey Sabatka, **Information Coordinator**
 Bret Schomer, **Wanahoo Recreation Supervisor/Water Resources Specialist**
 Drew ten Bensel, **Grants/GIS**

Staff Support for NRCS Offices:

Adam Brockman, **Conservation Technician**
 Kimberly Piitz, **NRD/NRCS Field Office Assistant (Butler County)**
 Kristin Miller, **NRD/NRCS Field Office Assistant (Colfax County)**
 Jessica Marty, **NRD/NRCS Field Office Assistant (Dodge County)**
 Marla Milliken, **NRD/NRCS Field Office Assistant (Saunders County)**

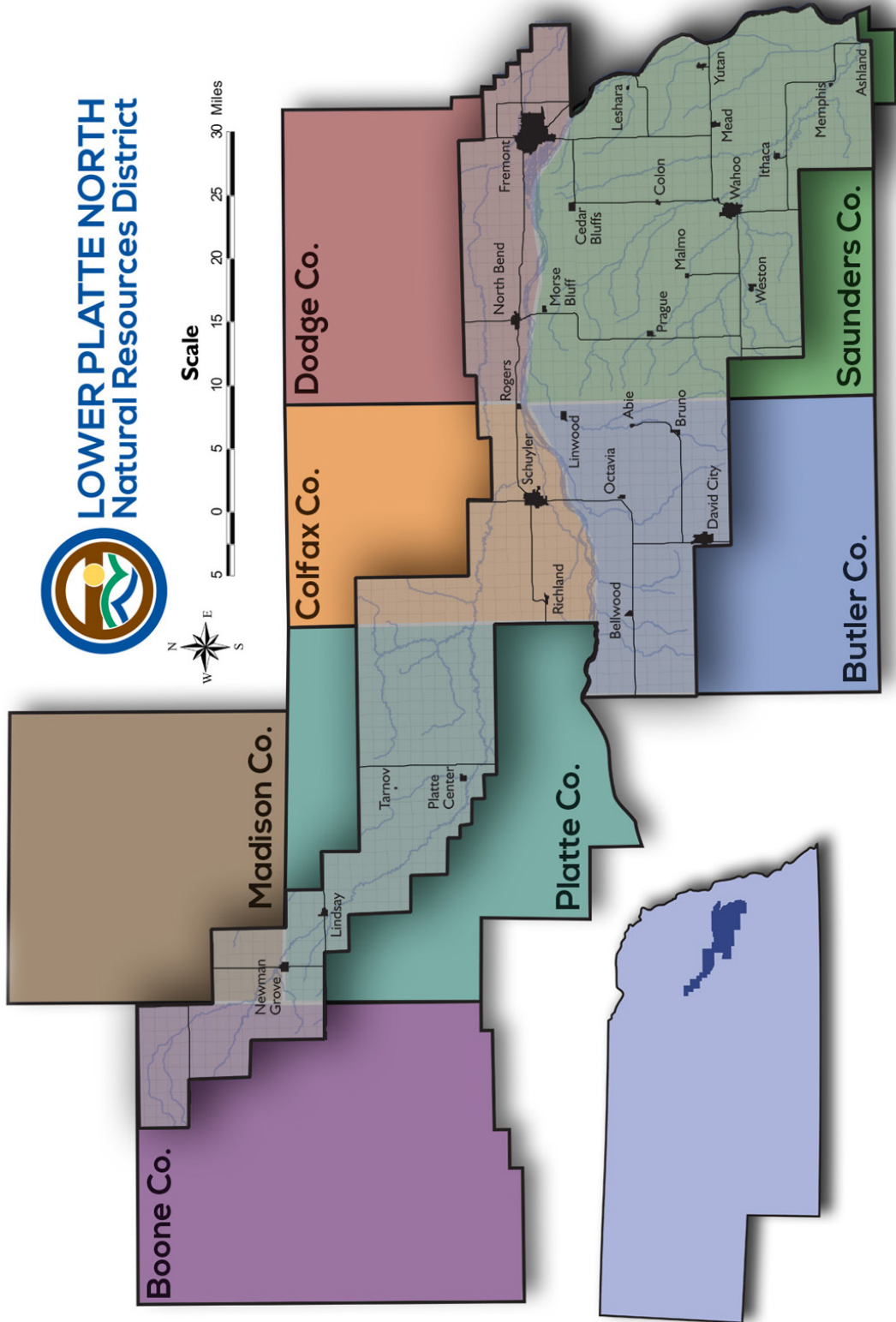


FY 2024 Financial Objectives

- Funding required for the LPNNRD projects and programs for Fiscal Year 2024 requires a general operating budget of \$ 8,761,805 of which \$ 3,480,715 is required from the district's local tax levy. The FY 2024 tax levy of .028652 cents per \$100 actual valuation is required from District property. Projected expenses and income for FY 2024-2029 are shown in Appendix F.
- A tax levy of .028652 means that an owner of a \$150,000 home will pay \$ 42.98 in NRD taxes in FY 2024. An owner of farm land valued at \$7,000 per acre will pay \$ 2.00 an acre/year to the NRD in FY 2024. The LPNNRD levy represents about two percent of the total property tax collected.

FY 2025-2029 Financial Long Range Objectives

- Although it is expected that the amount of revenue from all sources will fluctuate during the next few years, it is anticipated that the LPNNRD will operate at a mill levy between \$0.035 and \$0.055 per \$100 actual valuation as the District continues to assist with flood reduction project priorities and to address our responsibilities with groundwater water quality and quantity management.



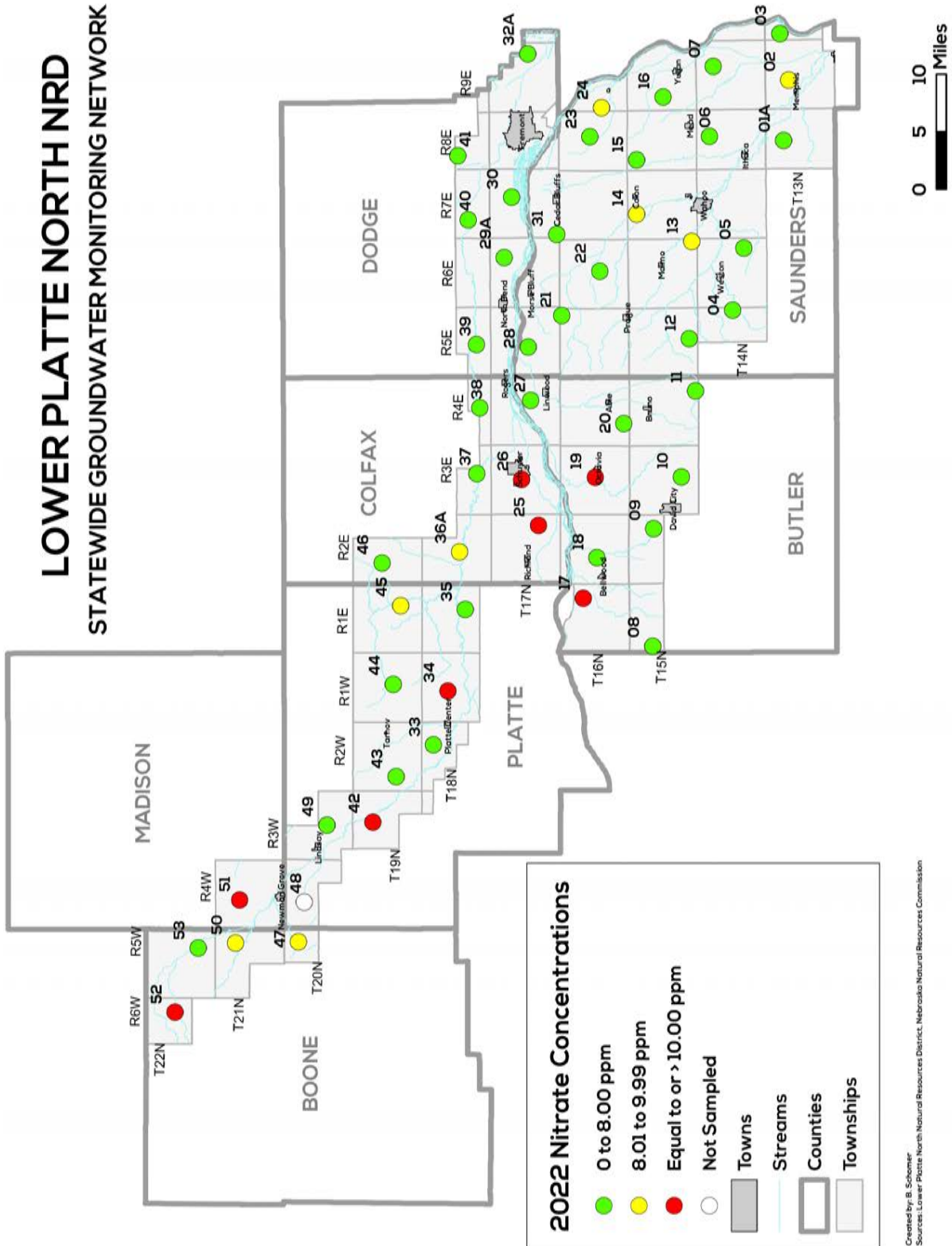


APPENDIX B – Estimated Population by County

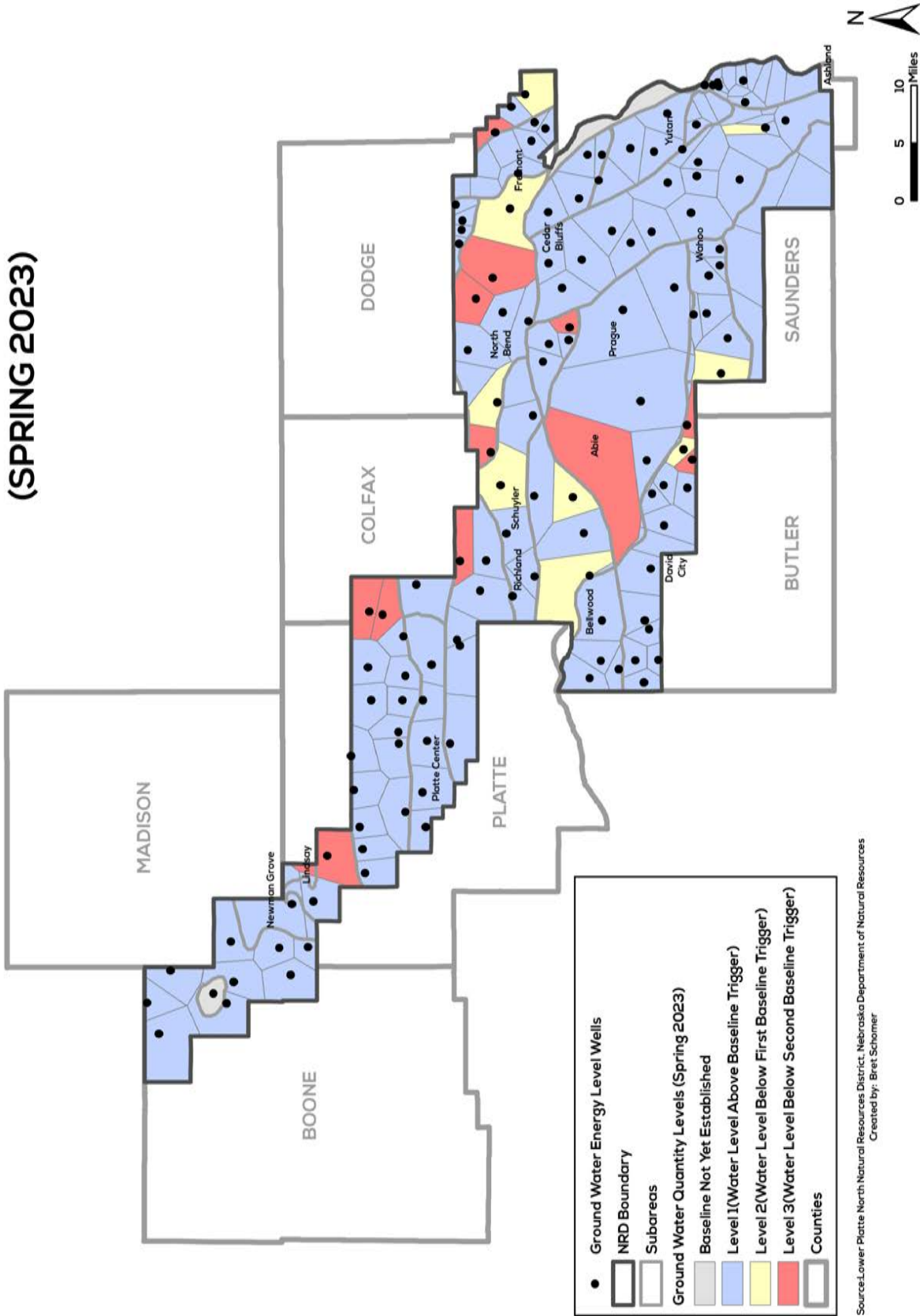
COUNTY	% OF COUNTY IN DISTRICT	ACRES IN DISTRICT	RURAL POPULATION IN DISTRICT	URBAN POPULATION IN DISTRICT	TOTAL
Boone	12.78	56,175	173	0	173
Butler	44.38	167,700	1,815	3,763	5,578
Colfax	40.76	108,582	1,069	6,699	7,768
Dodge	31.96	111,147	3,017	28,800	31,817
Madison	6.25	22,998	155	667	822
Platte	37.78	165,401	2,196	668	2,864
Saunders	81.39	395,098	7,477	8,948	16,425
TOTAL		1,027,101	15,902	49,545	65,447

Twenty-eight cities, towns and villages are located within the Lower Platte North NRD, listed below with their populations (according to 2020 United States Census):

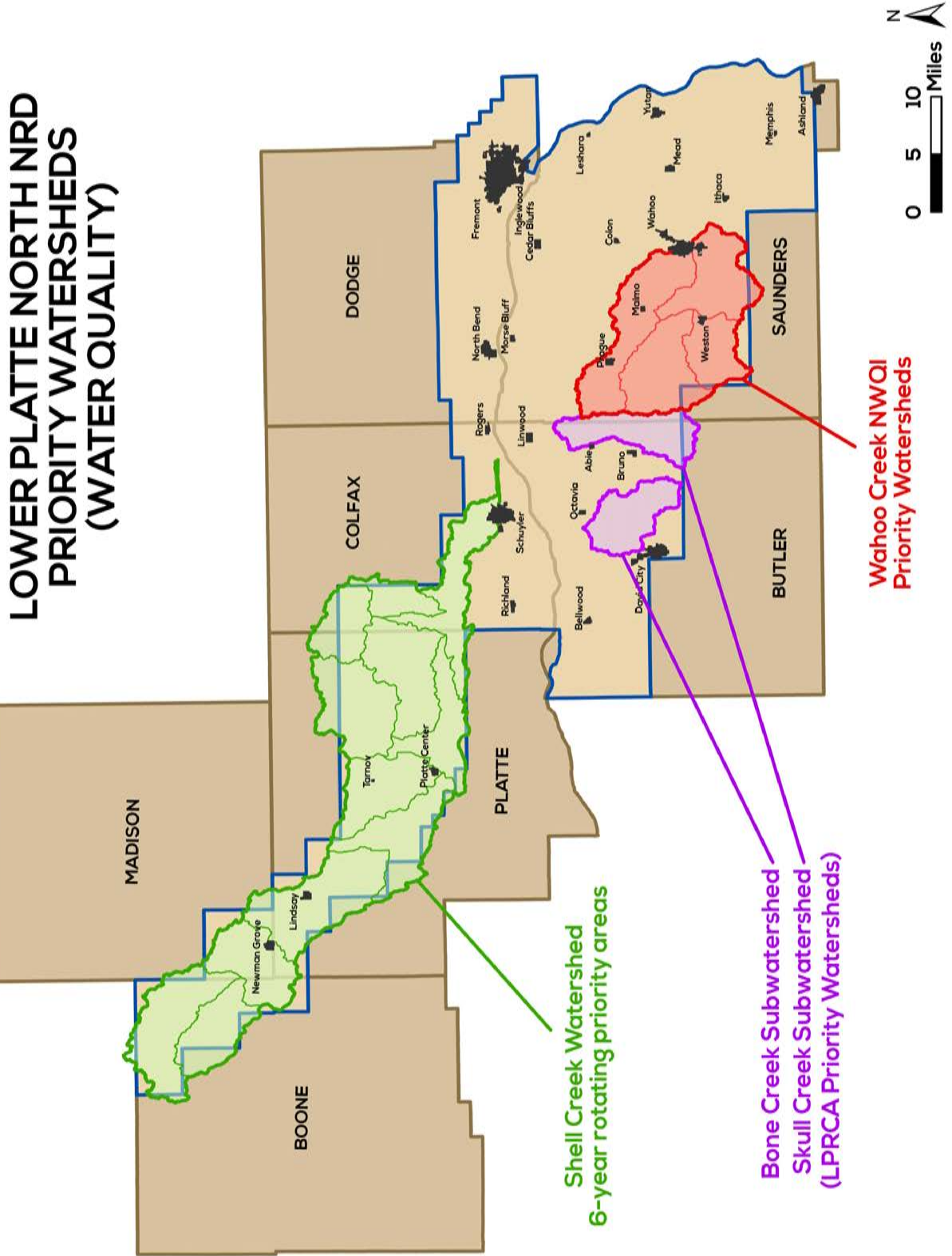
Abie	65	Memphis.....	109
Ashland	3,086	Morse Bluff	117
Bellwood.....	407	Newman Grove.....	667
Bruno	95	North Bend.....	1,279
Cedar Bluffs	615	Octavia	107
Colon.....	107	Platte Center	333
David City.....	2,995	Prague	291
Fremont	27,141	Richland	70
Inglewood.....	380	Rogers.....	82
Ithaca	160	Schuyler	6,547
Leshara	108	Tarnov	52
Lindsay	283	Wahoo	4,818
Linwood	94	Weston	250
Malmo	94	Yutan.....	1,347
Mead.....	617		



LOWER PLATTE NORTH NRD
GROUNDWATER ENERGY LEVEL NETWORK
(SPRING 2023)

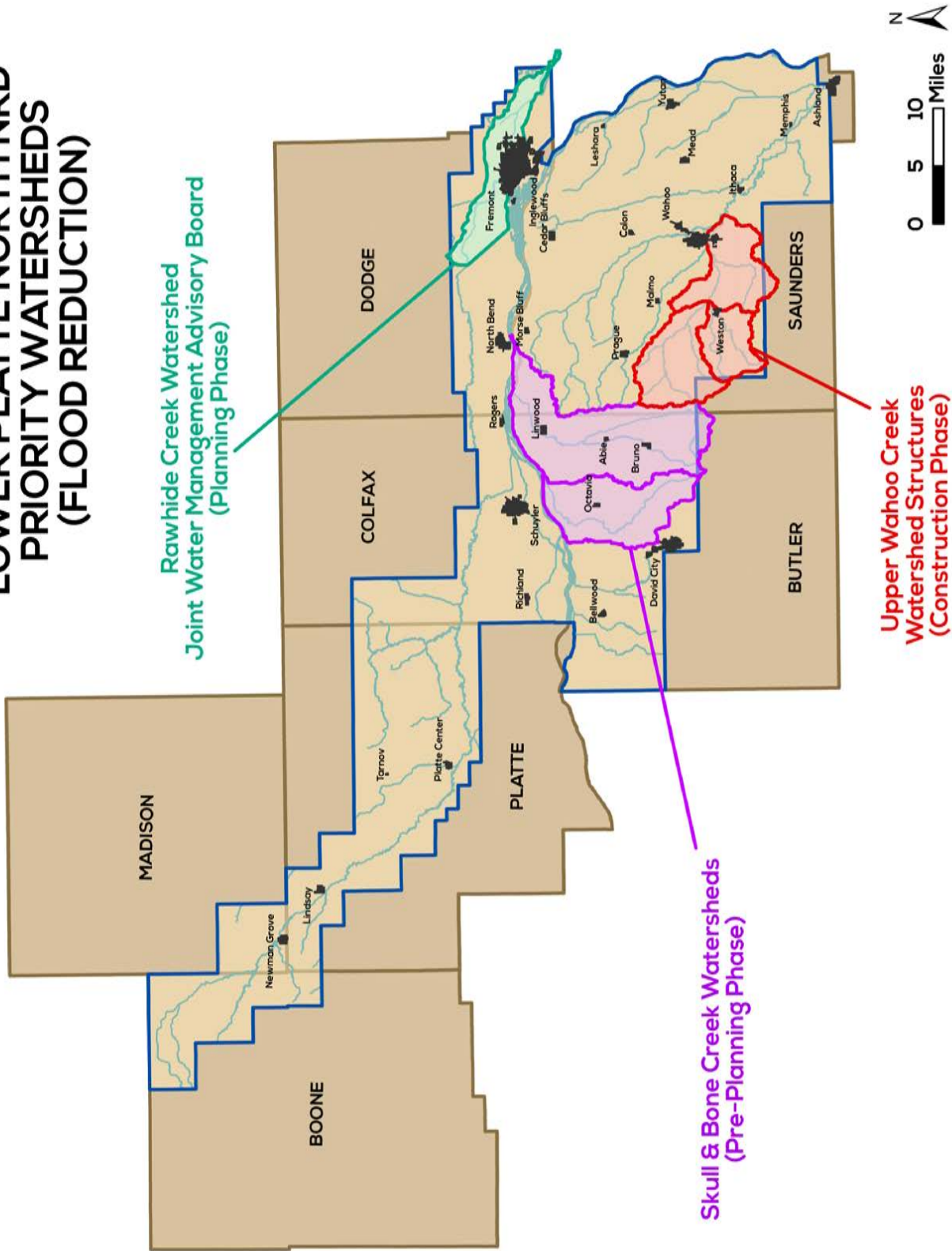


Source: Lower Platte North Natural Resources District, Nebraska Department of Natural Resources
Created by: Bret Schomer





LOWER PLATTE NORTH NRD PRIORITY WATERSHEDS (FLOOD REDUCTION)



APPENDIX G – Projected Budget Income, Fiscal Years 2024-2029



Description	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
AVAILABLE CASH (Sinking Funds, etc.)	\$304,410	\$812,848	\$869,898	\$913,392	\$959,062	\$1,007,015
FEDERAL INCOME						
NRCS (WFPO & RCPP)	\$499,610	\$3,500,000	\$5,000,000	\$2,000,000	\$0	\$0
FEMA (Stilling Basin)	\$2,709,600	\$0	\$0	\$0	\$0	\$0
FEMA (Flood Funds)	\$392,500	\$0	\$0	\$0	\$0	\$0
NDEE (EPA 319)	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000
State JEDI Funds	\$1,000,000	\$2,000,000	\$4,000,000	\$4,000,000	\$4,000,000	\$0
STATE INCOME						
NE Buffer Strip Program	\$52,000	\$54,000	\$56,000	\$58,000	\$60,000	\$0
Decommissioned Well Fund	\$3,500	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000
Natural Resource WQ Fund	\$52,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
Shell Creek Implementation	\$43,829	\$10,000	\$10,000	\$0	\$0	\$0
Water Sustainability Fund	\$133,031	\$500,075	\$500,075	\$500,075	\$0	\$0
Sand Creek - NRDF	\$22,000	\$0	\$0	\$0	\$0	\$0
Lake Wanahoo Other	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
Wild NE	\$3,820	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000
Motor Vehicle Prorate	\$8,400	\$8,400	\$8,400	\$8,400	\$8,400	\$8,400
OTHER INCOME						
Rural Water Income	\$134,000	\$140,000	\$143,000	\$150,000	\$150,000	\$150,000
Property Tax	\$3,480,715	\$3,480,715	\$3,480,715	\$3,480,715	\$3,480,715	\$3,480,715
Investment Income	\$125,000	\$125,000	\$100,000	\$100,000	\$100,000	\$100,000
Equipment, Rent, Parks, Salaries, Etc.	\$625,192	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000
Local Income	\$118,940	\$130,000	\$130,000	\$130,000	\$130,000	\$130,000
TOTAL	\$9,928,547	\$11,539,038	\$15,078,088	\$12,118,582	\$9,666,177	\$5,654,130



APPENDIX H – Projected Budget Expenses, Fiscal Years 2024-2029

ADMINISTRATION						
	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Bonds	\$100	\$100	\$100	\$100	\$100	\$100
Dues & Memberships	\$39,000	\$40,000	\$41,000	\$43,000	\$44,000	\$45,000
Fees & Licenses	\$11,465	\$11,924	\$12,401	\$12,897	\$13,200	\$13,200
GIS	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
Insurance	\$76,174	\$79,221	\$82,390	\$85,685	\$89,113	\$92,677
Interest Expense	\$	\$0	\$0	\$0	\$0	\$0
Legal Notices	\$,812	\$2,925	\$3,042	\$3,163	\$3,290	\$3,421
Maintenance Contracts	\$5,356	\$5,570	\$5,793	\$6,025	\$6,266	\$6,516
Office Supply & Expense	\$12,276	\$12,767	\$13,278	\$13,809	\$14,361	\$14,936
Computer Supply & Expense	\$32,000	\$33,000	\$34,000	\$35,000	\$36,000	\$37,000
Postage	\$7,030	\$7,312	\$7,604	\$7,908	\$8,225	\$8,554
Professional Services	\$140,000	\$142,000	\$142,000	\$144,000	\$148,000	\$149,000
Rent Expense	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
Support to Organizations	\$1,300	\$1,400	\$1,500	\$1,600	\$1,600	\$1,600
Telephone	\$20,659	\$21,485	\$22,344	\$23,238	\$24,168	\$25,134
Utilities	\$9,194	\$9,561	\$9,944	\$10,342	\$10,755	\$11,185

INFORMATION & EDUCATION						
	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Education	\$12,438	\$12,936	\$13,453	\$13,992	\$14,551	\$15,133
Information	\$32,394	\$33,690	\$35,037	\$36,439	\$37,896	\$39,412
Scholarships & Grants	\$3,245	\$3,375	\$3,510	\$3,650	\$3,796	\$3,948
Other	\$10,546	\$10,967	\$11,406	\$11,862	\$12,337	\$12,830

OPERATION & MAINTENANCE						
	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Auto & Truck Expense	\$23,795	\$24,747	\$25,737	\$26,766	\$27,837	\$28,950
Building Maintenance	\$10,059	\$10,461	\$10,880	\$11,315	\$11,767	\$12,238
Community Forestry Program	\$2,500	\$2,500	\$3,000	\$3,000	\$3,000	\$3,000
Operation & Maintenance	\$310,149	\$322,555	\$335,457	\$348,875	\$362,830	\$377,343
Project Repairs	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
Stream Bank Stabilization	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
Wildlife Habitat	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
Other	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000

PERSONNEL						
	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Directors Expense	\$41,858	\$43,532	\$45,274	\$47,084	\$48,968	\$50,927
Directors Per Diem	\$38,000	\$38,000	\$38,000	\$38,000	\$38,000	\$38,000
Employee Benefits	\$500,781	\$520,812	\$541,645	\$563,310	\$585,843	\$609,276
Payroll Taxes	\$100,589	\$104,612	\$108,797	\$113,149	\$117,675	\$122,382
Personnel Expense	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000
Salaries	\$1,342,880	\$1,383,166	\$1,424,661	\$1,467,401	\$1,490,000	\$1,540,000

APPENDIX H – Projected Budget Expenses, Fiscal Years 2024-2029



PROJECTS

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Inter-governmental	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000
Special Projects	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000
Wanahoo	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
Other Projects	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000

PLATTE RIVER CORRIDOR ALLIANCE

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
WQ Monitoring	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000

WATER

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Groundwater Management Plan	\$50,000	\$60,000	\$65,000	\$70,000	\$75,000	\$75,000
Groundwater Programs	\$195,932	\$203,769	\$211,920	\$220,397	\$229,213	\$238,381
Regulatory	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
Surface Water Programs	\$18,000	\$18,000	\$18,000	\$18,000	\$18,000	\$18,000
Special Projects	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
Land Treatment	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000

RURAL WATER DISTRICT

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Rural Water District	\$150,580	\$156,604	\$162,868	\$169,382	\$176,158	\$183,204

CAPITAL IMPROVEMENTS

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Wanahoo Stilling Basin & Oversight	\$0	\$0	\$0	\$0	\$0	\$0
Wanahoo Improvements	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
Wahoo Creek Dams	\$1,277,500	\$3,500,000	\$2,450,000	\$2,100,000	\$0	\$0
Land Rights (Wahoo Creek)	\$547,500	\$1,500,000	\$1,050,000	\$900,000	\$0	\$0
Fremont/Dodge County Drainage	\$440,000	\$440,000	\$440,000	\$440,000	\$440,000	\$0
Skull/Bone Creek	\$0	\$0	\$0	\$400,000	\$400,000	\$400,000
Cottonwood 21A Spillway	\$50,000	\$50,000	\$0	\$0	\$0	\$0
Buildings	\$500,000	\$500,000	\$500,000	\$40,000	\$40,000	\$40,000
Large Structure O&M Sinking Fund	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
Flood Reduction Sinking Fund	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000

CAPITAL OUTLAY

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Capital Outlay	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000

BUDGET TOTAL

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
BUDGET TOTAL	\$8,514,111	\$11,804,990	\$10,370,038	\$9,929,389	\$7,029,947	\$5,189,749

UNITED STATES DEPARTMENT OF THE INTERIOR
DOWN PAYMENT (BILL) REQUEST

Bill #: 91085210
Customer: 600000136
Date: 07/12/2023
Due Date: 09/10/2023

Make Remittance Payable To: U.S. Geological Survey
Billing Contact: Amanda Flynn, Budget Analyst Phone: 402-328-4144

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	
07/12/2023	The streamgages at Shell Creek near Columbus and Wahoo Creek at Ashland, and one real-time groundwater level monitoring site, as agreed to in Joint Funding Agreement 23NRJFA00170 between the Lower Platte North Natural Resources District and the US Geological Survey. JFA 23NRJFA00170 23NRJFA00170	1	18,190.00	1	18,190.00
	Date rec'd <u>8/4/23</u>				

Approved by _____ Amount Due this Bill: 18,190.00

Date approved _____

Accounting Classification:
Sales Order: 112613
Sales Office: GENR
Customer: 600000136
Accounting #: 11357273

Expense acct 400403

Funding source _____

TIN: *****2716

% (amount) _____

Income acct _____



United States Department of the Interior

U.S. GEOLOGICAL SURVEY
Water Resources Discipline
Nebraska Water Science Center
5231 South 19th Street
Lincoln, NE 68512-1271

August 25, 2023

Eric Gottschalk
Lower Platte North Natural Resources District
PO Box 126
Wahoo, NE 68066

Dear Mr. Gottschalk:

Enclosed is a copy of Joint Funding Agreement No. 24NRJFA00170 for the operation of two streamgages at Shell Creek near Columbus and Wahoo Creek at Ashland and one real-time groundwater level monitoring site as listed in the enclosed summary of proposed funding. The total amount of the agreement is \$25,940 or \$6,930 for the U.S. Geological Survey and \$19,010 for the Lower Platte North Natural Resources District. Funds in the amount of \$9,870 from the Federal Priority Streamgages Program (FPS), which are not included in the above amounts, have been used as a supplement to or in place of Cooperative Matching Funds. Please sign the agreement and return by email to aflynn@usgs.gov. Work cannot be continued until we receive the signed agreement.

Work performed with funds from this agreement will be conducted on a fixed-price basis under the authority of statute 43 USC 36C. Billings will be rendered annually in July 2024. The results of all work under this agreement will be available for publication by the U.S. Geological Survey.

For more information or any questions concerning this agreement, please contact Jason Lambrecht at 402-328-4124.

Sincerely,

Steven M. Peterson, Director
USGS Nebraska Water Science Center

2 Enclosures

USGS UEI No. NJQMLNG5LA5

Form 9-1366
(May 2018)

U.S. Department of the Interior
U.S. Geological Survey
Joint Funding Agreement
FOR
Water Resource Investigations

Customer #: 600000136
Agreement #: 24NRJFA00170
Project #: NR00GS1
TIN #: 47-0542716

Fixed Cost Agreement YES[X] NO[]

THIS AGREEMENT is entered into as of October 1, 2023, by the U.S. GEOLOGICAL SURVEY, Nebraska Water Science Center, UNITED STATES DEPARTMENT OF THE INTERIOR, party of the first part, and the LOWER PLATTE NORTH NATURAL RESOURCES DISTRICT, party of the second part.

1. The parties hereto agree that subject to the availability of appropriations and in accordance with their respective authorities there shall be maintained in cooperation **streamgages at Shell Creek near Columbus and Wahoo Creek at Ashland, and one real-time groundwater level monitoring site**, herein called the program. The USGS legal authority is 43 USC 36C; 43 USC 50, and 43 USC 50b.

2. The following amounts shall be contributed to cover all of the cost of the necessary field and analytical work directly related to this program. 2(b) include In-Kind-Services in the amount of \$0.00

- (a) \$6,930 by the party of the first part during the period October 1, 2023 to September 30, 2024
- (b) \$19,010 by the party of the second part during the period October 1, 2023 to September 30, 2024
- (c) Contributions are provided by the party of the first part through other USGS regional or national programs, in the amount of: \$9,870

Description of the USGS regional/national program:
Federal Priority Streamgages Program

- (d) Additional or reduced amounts by each party during the above period or succeeding periods as may be determined by mutual agreement and set forth in an exchange of letters between the parties.
- (e) The performance period may be changed by mutual agreement and set forth in an exchange of letters between the parties.

3. The costs of this program may be paid by either party in conformity with the laws and regulations respectively governing each party.

4. The field and analytical work pertaining to this program shall be under the direction of or subject to periodic review by an authorized representative of the party of the first part.

5. The areas to be included in the program shall be determined by mutual agreement between the parties hereto or their authorized representatives. The methods employed in the field and office shall be those adopted by the party of the first part to insure the required standards of accuracy subject to modification by mutual agreement.

6. During the course of this program, all field and analytical work of either party pertaining to this program shall be open to the inspection of the other party, and if the work is not being carried on in a mutually satisfactory manner, either party may terminate this agreement upon 60 days written notice to the other party.

7. The original records resulting from this program will be deposited in the office of origin of those records. Upon request, copies of the original records will be provided to the office of the other party.

8. The maps, records or reports resulting from this program shall be made available to the public as promptly as possible. The maps, records or reports normally will be published by the party of the first part. However, the party of the second part reserves the right to publish the results of this program, and if already published by the party of the first part shall, upon request, be furnished by the party of the first part, at cost, impressions suitable for purposes of reproduction similar to that for which the original copy was prepared. The maps, records or reports published by either party shall contain a statement of the cooperative relations between the parties. The Parties acknowledge that scientific information and data developed as a result of the Scope of Work (SOW) are subject to applicable USGS review, approval, and release requirements, which are available on the USGS Fundamental Science Practices website <https://www.usgs.gov/about/organization/science-support/science-quality-and-integrity/fundamental-science-practices>

Form 9-1366
(May 2018)

U.S. Department of the Interior
U.S. Geological Survey
Joint Funding Agreement
FOR
Water Resource Investigations

Customer #: 600000136
Agreement #: 24NRJFA00170
Project #: NR00GS1
TIN #: 47-0542716

9. Billing for this agreement will be rendered **annually**. Invoices not paid within 60 days from the billing date will bear Interest, Penalties, and Administrative cost at the annual rate pursuant the Debt Collection Act of 1982, (codified at 31 U.S.C. § 3717) established by the U.S. Treasury.

USGS Technical Point of Contact

Name: Jason Lambrecht
Hydrologic Data Section Chief
Address: 5231 South 19th
Lincoln, NE 68512
Telephone: (402) 328-4124
Fax: (402) 328-4101
Email: jmlambre@usgs.gov

Customer Technical Point of Contact

Name: Eric Gottschalk
General Manager
Address: PO Box 126
Wahoo, NE 68066
Telephone: (402) 443-4675
Fax:
Email: egottschalk@lpnrd.org

USGS Billing Point of Contact

Name: Amanda Flynn
Budget Analyst
Address: 5231 South 19th
Lincoln, NE 68512
Telephone: (402) 328-4144
Fax: (402) 328-4101
Email: aflynn@usgs.gov

Customer Billing Point of Contact

Name: Eric Gottschalk
General Manager
Address: PO Box 126
Wahoo, NE 68066
Telephone: (402) 443-4675
Fax:
Email: egottschalk@lpnrd.org

U.S. Geological Survey
United States
Department of Interior

Lower Platte North Natural Resources District

Signature

Signatures

By _____
Name: Steven M. Peterson
Title: Director

By _____ Date: _____
Name:
Title:

By _____ Date: _____
Name:
Title:

By _____ Date: _____
Name:
Title:

NSWCP FUND DISTRIBUTION 2023-2024

NRDs	Equal Division of \$1,000,000	Division based on NRI* Conservation Needs	Total
Upper Big Blue	\$ 43,478.26	\$ 35,509.33	\$ 78,987.59
Lower Big Blue	\$ 43,478.26	\$ 36,699.59	\$ 80,177.85
Upper Elkhorn	\$ 43,478.26	\$ 30,549.93	\$ 74,028.19
Lower Elkhorn	\$ 43,478.26	\$ 147,889.43	\$ 191,367.69
Little Blue	\$ 43,478.26	\$ 37,493.09	\$ 80,971.35
Upper Loup	\$ 43,478.26	\$ 19,540.05	\$ 63,018.31
Lower Loup	\$ 43,478.26	\$ 113,371.97	\$ 156,850.24
Lewis & Clark	\$ 43,478.26	\$ 46,023.27	\$ 89,501.53
Papio - Missouri River	\$ 43,478.26	\$ 64,869.00	\$ 108,347.26
Nemaha	\$ 43,478.26	\$ 54,950.20	\$ 98,428.46
Upper Niobrara-White	\$ 43,478.26	\$ 40,171.17	\$ 83,649.43
Middle Niobrara	\$ 43,478.26	\$ 20,135.18	\$ 63,613.44
Lower Niobrara	\$ 43,478.26	\$ 15,473.34	\$ 58,951.60
North Platte	\$ 43,478.26	\$ 43,741.94	\$ 87,220.20
South Platte	\$ 43,478.26	\$ 35,310.96	\$ 78,789.22
Twin Platte	\$ 43,478.26	\$ 19,936.80	\$ 63,415.06
Central Platte	\$ 43,478.26	\$ 31,541.81	\$ 75,020.07
Lower Platte North	\$ 43,478.26	\$ 48,701.35	\$ 92,179.61
Lower Platte South	\$ 43,478.26	\$ 44,932.20	\$ 88,410.46
Upper Republican	\$ 43,478.26	\$ 37,889.85	\$ 81,368.11
Middle Republican	\$ 43,478.26	\$ 33,525.57	\$ 77,003.83
Lower Republican	\$ 43,478.26	\$ 20,730.31	\$ 64,208.57
Tri-Basin	\$ 43,478.26	\$ 12,894.45	\$ 56,372.71
TOTAL	\$ 1,000,000.00	\$ 991,880.79	\$ 1,991,880.79
	\$ 1,000,000.00	\$ 991,880.79	\$ 1,991,880.79

* National Resources Inventory (NRI) conservation needs are based on the percentage share that the cost of each NRD's conservation needs are of the total state conservation needs. The cost of the conservation needs was based on the 1982 national resources inventory compiled by the NRCS and a statewide average cost of treating this land.

Rawhide Creek Watershed

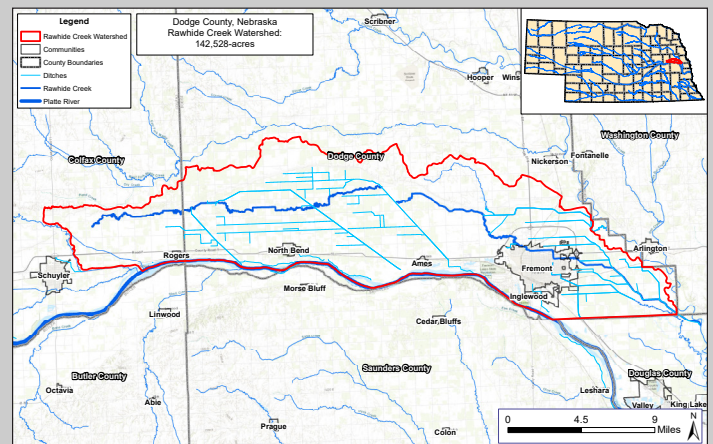
FLOOD RISK REDUCTION PLAN PUBLIC MEETING

*Wednesday, September 6, 2023 from 5:00 to 7:00 p.m.
UNL Extension in Dodge County - 1206 W. 23rd St, Fremont*

Join us to get an update on the Rawhide Creek Watershed Flood Risk Reduction Plan, including proposed projects. All residents of the Rawhide Creek Watershed are encouraged to attend this meeting.

Members of the planning team will be available to discuss the plan's progress and answer questions. The meeting will be an open house event, no formal presentation will be made, and attendees may drop-in anytime.

To provide comment on flooding events in the Rawhide Creek Watershed and to learn more about the project, scan this code with the camera on your smart phone to view the latest project information and updates.



Contact Information

For more information, contact:

Tom Smith

Dodge County Emergency Management Director

402-727-2785

emergencymanagement@dodgecountyne.gov

PROJECT WEBSITE: <https://arcg.is/OX9HTn>

Invoice



601 P St Suite 200
PO Box 84608
Lincoln, NE 68501-4608
Tel 402.474.6311, Fax 402.474.5063

August 17, 2023
Invoice No: 466656

Ryan Chapman
Lower Platte North NRD
PO Box 126
Wahoo, NE 68066-0126

Invoice Total \$48,703.93

Olsson Project # A18-34230 Lower Platte North NRD Wahoo Creek Watershed & 7 Dam Sites
Phase II
Professional services rendered July 9, 2023 through August 5, 2023 for work completed in accordance with agreement.

Phase	100	Sites 55 66 77 82 84 85 86 Project Management		
Labor				
			Hours	Amount
Principal			4.00	1,026.36
	Totals		4.00	1,026.36
	Total Labor			1,026.36
			Total this Phase	\$1,026.36

Phase	110	Geotechnical Engineering		
Labor				
			Hours	Amount
Assistant Engineer			28.50	2,789.87
Technician			.50	37.53
Project Professional			137.00	19,100.54
Assistant Professional			66.75	7,632.76
	Totals		232.75	29,560.70
	Total Labor			29,560.70
			Total this Phase	\$29,560.70

Phase	120	Dam Design		
Labor				
			Hours	Amount
Principal			8.50	1,323.71
	Totals		8.50	1,323.71
	Total Labor			1,323.71
			Total this Phase	\$1,323.71

Phase	130	Permitting		
-------	-----	------------	--	--

INVOICE PAYMENT IS REQUESTED WITHIN 30 DAYS

Labor

	Hours	Amount	
Assistant Professional	112.50	16,227.87	
Designer	4.50	565.29	
Totals	117.00	16,793.16	
Total Labor			16,793.16
		Total this Phase	\$16,793.16
		AMOUNT DUE THIS INVOICE	\$48,703.93

Outstanding Invoices

Number	Date	Balance
464773	7/26/2023	60,140.04
Total		60,140.04

Authorized By: Andrew Phillips

Progress Report for Wahoo Creek Watershed Dams Sites



Lower Platte North NRD

For Work Completed During The Month Of : July, 2023

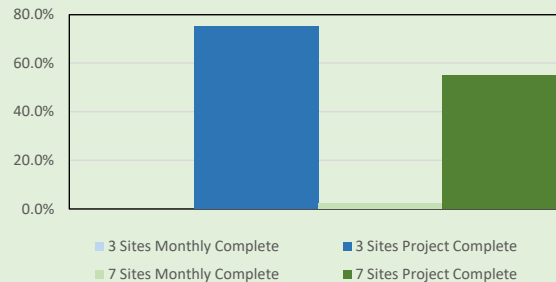
(through 8/5/23)

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	\$ 23,213		0.0%	\$ 14,067.55	60.6%
020 - Geotechnical Engineering	\$ 224,493		0.0%	\$ 226,775.48	101.0%
030 - Dam Design	\$ 184,885		0.0%	\$ 199,168.83	107.7%
040 - Permitting	\$ 86,634		0.0%	\$ 60,884.18	70.3%
050 - Survey and Legal Descriptions	\$ 11,142		0.0%	\$ 23,636.47	212.1%
060 - Community/Public Participation	\$ -			\$ -	
070 - Construction Services	\$ 171,962			\$ 1,590.75	0.9%
				\$ -	
3 Sites Totals	\$ 702,329	\$ -	0.0%	\$ 526,123.26	74.9%

Project # A18-3423 (separate invoice) Sites 55, 66, 77, 82, 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	\$ 60,813	\$ 1,026.36	1.7%	\$ 32,916.80	54.1%
110 - Geotechnical Engineering	\$ 592,047	\$ 29,560.70	5.0%	\$ 529,782.57	89.5%
120 - Dam Design	\$ 425,202	\$ 1,323.71	0.3%	\$ 376,777.42	88.6%
130 - Permitting	\$ 244,810	\$ 16,793.16	6.9%	\$ 111,927.26	45.7%
140 - Survey and Legal Descriptions	\$ 28,165		0.0%	\$ 31,508.10	111.9%
150 - Community/Public Participation	\$ 30,000		0.0%	\$ 5,899.20	19.7%
160 - Other	\$ -			\$ -	
170- Construction Services	\$ 603,992			\$ -	0.0%
7 Sites Totals	\$ 1,985,029	\$ 48,703.93	2.5%	\$ 1,088,811.35	54.9%

Billings For Month	\$ 48,703.93
Total Billings To Date	\$ 1,614,934.61
Project Budget	\$ 2,687,358.00
Budget Remaining	\$ 1,072,423.39

% Budget Spent Per Site



Summary Of Work Completed This Month	
Sites 26A, 26B, & 27	Sites 55,66,77,82,84,85, & 86
-No work completed this month awaiting meeting with NRCS -Majority of environmental work completed as part of 2nd 7 dams	- H&H excavation modeling and sheets, principal spillway modeling, plan sheet updates for 60% submittal for Sites 84, 85, and 86. -Geotechnical analysis, laboratory and report prep for sites 84, 85, and 86. -Structural: Impact basin discussions and calculations -Project management -Environmental: Alternative impacts, wetland mitigation calculations and NESCAP calculation book, permit application review

Planned Work For Next Month	
Site 26A, 26B, & 27	Sites 55, 66, 77, 82, 84, 85, & 86
-Scheduling meeting with NRCS to review final comments and changes completed for plans and reports -Environmental: USACE had a change in PM and we have scheduled a meeting with them to confirm permit process moving forward -Goal is to have Site 26A submitted to State by mid-August	-H&H design, centerline layout, and auxiliary spillway design -Geotechnical design calculations for 84, 85, and 86 -Structural calculations for riser and outlet structure for remaining dams -Goal is to have 84, 85, & 86 60% submittal to NRCS by end of August

For questions regarding billings, please contact Andrew Phillips at (402) 440-8807 or aphillips@olsson.com

Progress Report for Wahoo Creek Watershed Dams Sites



Lower Platte North NRD

For Work Completed During The Month Of : July, 2023

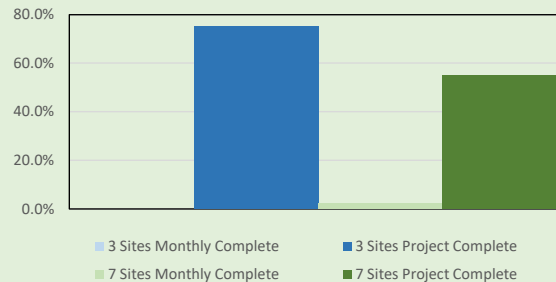
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For questions regarding billings, please contact Andrew Phillips at (402) 440-8807 or aphillips@olsson.com

Invoice



601 P St Suite 200
PO Box 84608
Lincoln, NE 68501-4608
Tel 402.474.6311, Fax 402.474.5063

August 10, 2023
Invoice No: 465802

Ryan Chapman
Lower Platte North NRD
PO Box 126
Wahoo, NE 68066-0126

Invoice Total \$4,671.32

Olsson Project # 023-00443 LPNNRD Wahoo Creek Watershed Flood Reduction Project Real Estate Services
Professional services rendered through August 5, 2023 for work completed in accordance with our Agreement dated February 17, 2023.

Phase 100 Real Estate Acquisitions

Labor

	Hours	Amount	
Principal	10.75	2,471.32	
Totals	10.75	2,471.32	
Total Labor			2,471.32

Reimbursable Expenses

Ownership & Title Certificates	2,200.00		
Total Reimbursables	2,200.00		2,200.00

Total this Phase \$4,671.32

Billing Limits

	Current	Prior	To-Date
Total Billings	4,671.32	17,336.69	22,008.01
Limit			210,000.00
Balance Remaining			187,991.99

AMOUNT DUE THIS INVOICE \$4,671.32

Outstanding Invoices

Number	Date	Balance
464215	7/24/2023	459.78
Total		459.78

Billings to Date

	Current	Prior	Total
Labor	2,471.32	17,018.32	19,489.64
Expense	2,200.00	318.37	2,518.37
Totals	4,671.32	17,336.69	22,008.01

Email invoices to: rchapman@lpnnrd.org; selliott@lpnnrd.org and CC: jbreunig@lpnnrd.org

Authorized By: Danielle Allen _____

Authorization: Section 5104, Water Resources Development Act of 2007 (P.L. 110-114).

**SEC. 5104. LOWER PLATTE RIVER WATERSHED RESTORATION,
NEBRASKA.**

(a) **IN GENERAL.**—The Secretary may cooperate with and provide assistance to the Lower Platte River natural resources districts in the State of Nebraska to serve as non-Federal interests with respect to—

(1) conducting comprehensive watershed planning in the natural resource districts;

(2) assessing water resources in the natural resource districts; and

(3) providing project feasibility planning, design, and construction assistance for water resource and watershed management in the natural resource districts, including projects for environmental restoration and flood damage reduction.

(b) **FUNDING.**—

(1) **FEDERAL SHARE.**—The Federal share of the cost of carrying out an activity described in subsection (a)(1) shall be 75 percent.

(2) **NON-FEDERAL SHARE.**—The non-Federal share of the cost of carrying out an activity described in subsection (a) may be provided in cash or in kind.

(c) **AUTHORIZATION OF APPROPRIATIONS.**—There is authorized to be appropriated to the Secretary to carry out this section \$12,000,000.



LOWER PLATTE SOUTH natural resources district

3125 Portia Street | P.O. Box 83581 • Lincoln, Nebraska 68501-3581
P: 402.476.2729 • F: 402.476.6454 | www.lpsnrd.org

March 10, 2023

Colonel Mark R. Himes, District Commander
United States Army Corps of Engineers, Omaha District
1616 Capitol Ave.
Omaha, NE 68102-4901

RE: Lower Platte River Restoration and Resiliency, Nebraska – Aquatic Ecosystem Restoration
Comprehensive Study – Letter of Intent.

Dear Colonel Himes:

A comprehensive study is needed to better assess degraded habitats, reducing flood risks, and improving flood resiliency in the Lower Platte River Watershed.

The Lower Platte River is a unique large river system that is home to three federally threatened and endangered species and several additional species of concern. The Lower Platte experienced record flooding in 2019 that caused extensive damage to property, transportation corridors, and water and wastewater infrastructure. Increasing population and changes in land use in the watershed along the Lower Platte River pose significant challenges to preserve high quality habitat and maintain reliable water supply for over 50 percent of the State's population.

The 24 communities and 8 counties within the Lower Platte River Corridor constitute the area of the State with the largest sustained population growth, the area also includes rural and socioeconomically disadvantaged communities. Demand for high quality natural habitat areas is on the rise as is the desire to have nature-based recreational opportunities, and the Lower Platte corridor is readily positioned to serve that need. A project that restores natural habitats and addresses flood risks through working with nature to restore and expand the quantity, quality, and diversity of riverine, wetland, and riparian habitats would increase climate resiliency and infrastructure reliability for this region of the state.

The Lower Platte River Corridor Alliance (LPRCA) continues to work collaboratively to address these issues but additional study is needed to integrate data to identify projects that can be conducted across the watershed to restore degraded habitat, reduce flood risks, improve flood resiliency, and provide immediate and multiple benefits to the watershed.

The Lower Platte South NRD, on behalf of the Lower Platte River Corridor Alliance stands ready and able to serve as the local sponsor for this comprehensive study currently estimated to cost \$3,000,000.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Zillig', with a long horizontal flourish extending to the right.

Paul D. Zillig
General Manager

cc: John Winkler, General Manager – Papio-Missouri River NRD
Eric Gottschalk, General Manager – Lower Platte North NRD

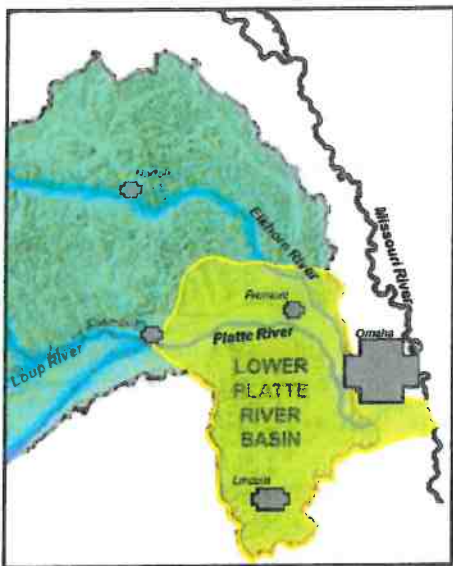


**US Army Corps
of Engineers**
Omaha District

Lower Platte Restoration & Resiliency, Nebraska

Authority: Resolution adopted by U.S. House of Representatives
Committee on Public Works, dated September 28, 1994

Probable Sponsors: Papio-Missouri River, Lower Platte North, and
Lower Platte South Natural Resource Districts



LOCATION AND DESCRIPTION: The Lower Platte River refers to the most downstream 180 miles of the Platte River from Grand Island, Nebraska to the mouth. The specific study area will cover about 3,000 square miles in eastern Nebraska, from the Loup River confluence downstream to the Missouri River confluence and including the lower reach of the Elkhorn Rivers. The Lower Platte River is located within the internationally significant Central Flyway containing several environmentally sensitive areas, and is home to several rural and economically disadvantaged communities that were devastated by the catastrophic 2019 flood.

PROBLEM AND NEED: Ecosystem resources in the Lower Platte River watershed have been impacted from activities such as federal dam, levee, and irrigation projects; water supply and groundwater withdrawals; agricultural practices; and transportation, commercial, and residential development along the floodplain. This unique sand-bed, braided river is home to several nationally significant endangered,

threatened, and native fish, bird, and wildlife species. The riverine, wetland, and riparian habitats along the Lower Platte River provide important connections from the Missouri River valley to the Central Platte and Sandhills ecoregions.

Record flooding along the Platte, Loup, and Elkhorn rivers in March 2019 resulted in extensive damage to property, transportation routes, and water and wastewater infrastructure. Disruption of rail service and the months long closure of federal, state, and local highways cost hundreds of millions of dollars in damages and detours. Agricultural damages included losses of hundreds of thousands of head of livestock and tens of thousands of acres of farmland which were damaged along with millions of bushels of grain destroyed in grain bins and flooded elevators. This study would look to use natural and nature-based approaches to restore in-stream, wetland, and riparian habitats along the river corridors and achieve both restoration and flood risk resiliency improvements for the region. Outcomes would be improved stream morphology, increased floodplain connectivity and storage to buffer floodwaters, increased flood conveyance, increased flood resiliency, and reduced safety risks.

ACTIVITIES FOR FY23: None.

PROPOSED ACTIVITIES FOR FY24: If funded, execute the Feasibility Cost Share Agreement, host a scoping charette, and complete the Alternatives Milestone Meeting (AMM).

ISSUES AND OTHER INFORMATION: This feasibility study will build upon existing studies by the USACE and others with a focus on developing a comprehensive plan to restore nationally significant habitats for fish and wildlife and increase flood risk resiliency for the region.

<u>Financial Data</u>	<u>Amount</u>
Estimated Federal Cost	\$1,500,000
Allocations thru FY22	\$0
FY23 Allocation	\$0
President's Budget FY24	TBD
Balance to Complete	\$1,500,000

Paul Zillig

From: Paul Zillig
Sent: Saturday, March 18, 2023 7:28 AM
To: Dillon Kuehn; Water Strategies
Cc: Larry Ruth; Luke Peterson; John Yoakum; John Winkler; Eric Gottschalk; David Potter; Dean Edson; Dave Landis; Eckert Uptmor, Kayla A CIV USARMY CENWO (USA)
Subject: USACE CDS - Lower Platte River Restoration and Resiliency Study
Attachments: SKM_C55823031807140.pdf; Fischer FY2024 Fischer Appropriations Request Form_USACE - Lower Platte River Restoration and Resiliency.docx

Dillon/Kris:

Things have been moving quickly on what's needed for a funding request for the Lower Platte River Restoration and Resiliency Study. We've submitted the attached letter and fact sheet to the Corps, this has been nearly an annual submittal since 2007 as we attempt to get this study started. I was informed yesterday that we needed to also submit our request to Senator Fischer's office, that request is also attached.

A little history on this study is that the Lower Platte River Corridor Alliance (LPRCA - includes the LPSNRD, Lower Platte North NRD, Papio-Missouri River NRD and others) worked to get a Section 5104, Water Resources Development Act of 2007 Authorization of \$12M. Since then we've been working to get approval to begin the study process.

The LPRCA went thru a few years where LPNNRD dropped out and the members had a number of other priorities. I'm glad to report the LPNNRD has decided to again be a part of the LPRCA. They recognize the importance of the study but haven't committed at this point, if approved I feel that we can work something out. I've gone ahead and submitted our annual request, in hopes that it can be part of the planning that's needed for Lower Platte and Missouri River area.

I will not be making the trip to DC early next week. I will have LPSNRD Directors Larry Ruth, Luke Peterson, and John Yoakum in attendance but are not in position to answer questions concerning the specifics of this study or request. I believe both John Winkler and Eric Gottschalk will be in DC and can best express the position of their NRDs.

If you have any questions or need anything from me, please email or give me a call (402.476.2729).

Paul

From: Paul Zillig
Sent: Friday, March 17, 2023 4:12 PM
To: appropriations@fischer.senate.gov
Subject: USACE CDS

Senator Fischer:

Please find attached the Lower Platte River Restoration and Resiliency study request.

Paul Zillig

USACE CDS

1. Name / Title of Request: Lower Platte River Restoration and Resiliency, Nebraska – Aquatic Ecosystem Restoration Comprehensive Study.
2. Name and contact information (phone and email) of the person or organization making the request. Paul Zillig, General Manager, 402.476.2729, pzillig@lpsnrd.org
3. Federal Agency: USACE
4. USACE Account: Investigation – Environmental Business Line.
5. USACE Authority (if relevant)
6. Full dollar amount requested: \$3,000,000 (\$1.5M fed and \$1.5M non-fed)
7. Has the project received USACE funding before? No.
8. Project Purpose – A comprehensive study to better assess degraded habitats, reducing flood risks, and improving flood resiliency in the Lower Platte River Watershed.
9. Project Description— The Lower Platte River is a unique large river system that is home to three federally threatened and endangered species and several additional species of concern. The Lower Platte experienced record flooding in 2019 that caused extensive damage to property, transportation corridors, and water and wastewater infrastructure. Increasing population and changes in land use in the watershed along the Lower Platte River pose significant challenges to preserve high quality habitat and maintain reliable water supply for over 50 percent of the State’s population.

The 24 communities and 8 counties within the Lower Platte River Corridor constitute the area of the State with the largest sustained population growth, the area also includes rural and socioeconomically disadvantaged communities. Demand for high quality natural habitat areas is on the rise as is the desire to have nature-based recreational opportunities, and the Lower Platte corridor is readily positioned to serve that need. A project that restores natural habitats and addresses flood risks through working with nature to restore and expand the quantity, quality, and diversity of riverine, wetland, and riparian habitats would increase climate resiliency and infrastructure reliability for this region of the state.

The Lower Platte River Corridor Alliance (LPRCA) continues to work collaboratively to address these issues but additional study is needed to integrate data to identify projects that can be conducted across the watershed to restore degraded habitat, reduce flood risks, improve flood resiliency, and provide immediate and multiple benefits to the watershed.
10. Project Town, City or County (if the project is County-wide): The Lower Platte River Basin downstream of Columbus, NE, including parts of Cass, Sarpy, Lancaster, Seward, Saunders, Douglas, Washington, Dodge, Colfax, Platte and Butler Counties.
11. Recipient Name (legal name of the organization) / Point of Contact Name, Phone Number, E-mail Address, and Mailing Address in Nebraska: Paul Zillig, General Manager LPSNRD, 402.476.2729, pzillig@lpsnrd.org, P.O. Box 83581, Lincoln, NE 68501-3581.

Please send your completed form to our appropriations email address (appropriations@fischer.senate.gov) no later than **Friday, March 17th, 2023**. If you have any questions, please do not hesitate to contact our office at 202-224-6551.

Submission to Senator Fischer's office does not guarantee funding

Casey Vaughan
Keep Fremont Beautiful
152 E. 6th Street, Suite 105
Fremont, NE 68025
(402) 941-6122
keepfremontbeautiful@gmail.com

August 18, 2023
2023 Scrap Tire Collection Event

Lower Platte North Natural Resources District
Attn: Ryan Chapman
511 Commercial Park Road
Wahoo, NE 68066
(402) 443-4675
rchapman@lpnrd.org


Dear Ryan,

On behalf of Keep Fremont Beautiful, I would like to request volunteer and financial assistance from Lower Platte North Natural Resources District for our upcoming Scrap Tire Collection Event. This event is scheduled to take place on Saturday, November 11, 2023, from 8:00 a.m. to 1:00 p.m. at Christensen Field, located at 1730 W. 16th Street in Fremont. We will be accepting tires from Dodge County residents; however, we do expect to have participants from nearby counties within a ten-mile radius of Fremont, including Washington, Douglas, and Saunders Counties.

In anticipation of a large-scale event, and this being my first scrap tire collection as KFB Director, I feel it would be beneficial to have experienced NRD staff available to assist with traffic flow and tire monitoring. The City of Fremont has been awarded grant funding through the Nebraska Department of Environment and Energy (NDEE) to recycle up to 300 tons of tires. While this estimate has adequately covered our past events, we feel there is a possibility we will receive an influx of participants due to limited free disposal opportunities in our area throughout the past few years.

I will be reaching out to the NDEE within the next few weeks to inquire about slippage in the event we do exceed 300 tons. I would also like to ask Lower Platte North NRD to contribute up to 30% of potential overage, should it not be covered through the NDEE's slippage fund. I appreciate your assistance with event planning and thank you for your consideration.

Respectfully,


Casey Vaughan

SCRAP TIRE **COLLECTION EVENT**



Saturday, November 11th | 8:00 a.m. - 1:00 p.m.

Christensen Field - 1730 W. 16th St.

DODGE COUNTY RESIDENTS ONLY

NO dealers, resellers, or businesses that charge a tire disposal fee.

Tires ACCEPTED: Car, Truck, Semi-Truck, & Tractor

NO RIMS

LIMIT OF 100 TIRES PER VEHICLE

Limited assistance - Plan to unload your own.





LOWER PLATTE NORTH
Natural Resources District

LONG RANGE IMPLEMENTATION PLAN

Fiscal Year 2024

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Introduction

The Lower Platte North Natural Resources District (LPNNRD) is one of 23 Natural Resources Districts created in 1969 with the passage of LB 1357 by the Nebraska Unicameral. Since its formation in 1972, the LPNNRD has been assisting people in the Lower Platte River Basin in the development and protection of our soil and water resources. Nebraska Statutes require that Natural Resources Districts develop a Long Range Implementation Plan. The purpose of this plan is to summarize accomplishments during fiscal year 2022 (July 1, 2022 to June 30, 2023) and planned District activities for fiscal year 2023. There are also objectives for a five-year period from fiscal years 2024 to 2028. The plan serves as an implementation tool of the district’s Master Plan, which is updated every ten years.

This Long Range Implementation Plan was approved by the LPNNRD Board of Directors on September 11, 2023.

Authority and Responsibilities

The Natural Resources Districts have been given statutory responsibility outlined in Sections 2-3229, R.R.S. 1943. In this section it states that “The purposes of the Natural Resources Districts shall be to develop and execute, through the exercise of powers and authorities contained in this act, plans, facilities, works and programs relating to: (1) erosion prevention and control, (2) prevention of damages from flood water and sediment, (3) flood prevention and control, (4) soil conservation, (5) water supply for any beneficial uses, (6) development, management, utilization, and conservation of groundwater and surface water, (7) pollution control, (8) solid waste disposal and sanitary drainage, (9) drainage improvement and channel rectification, (10) development and management of fish and wildlife habitat, (11)

development and management of recreational and park facilities, and (12) forestry and range management.”

Lower Platte North NRD programs and projects are available to meet the goal of properly developing our water and related land resources.

Description of the District

The Lower Platte North Natural Resources District is located in the Lower Platte River Basin in eastern Nebraska and includes 1,031,000 acres of land. A portion of Saunders, Butler, Platte, Dodge, Colfax, Boone, and Madison Counties are within the district (see Appendix A), which includes twenty-eight cities, towns, and villages. Besides the Platte River, other notable tributaries in the district include: Bone Creek, Clear Creek, Duck Creek, Elm Creek, Loseke Creek, Rawhide Creek, Sand Creek, Shell Creek, Silver Creek, Skull Creek, Taylor Creek, and Wahoo Creek.

The population of the district is approximately 65,000, of which about half is rural and half urban. The Lower Platte North NRD is financed by a tax levy which may be up to four and one-half cents per \$100 valuation for general purposes and another one cent for water programs. The FY 2024 tax levy is 0.028652 cents per \$100 valuation.

Governing Body

The Lower Platte North Natural Resources District (LPNNRD) is governed by a 19-member Board of Directors. The directors are elected at the general election for a term of four years, with half of the members up for election every two years.

The district is divided into nine (9) subdistricts. Two board members are elected from each of the nine subdistricts, and one board member is elected at large every four years.



The district operates by a set of bylaws which are kept on file at the district headquarters at Wahoo, Nebraska.

FY 2023 Platte River Basin Activities

One of the great natural resources of Nebraska is the Platte River. It is the feature that attracted early settlers to our state and guided the wagon trails. Today, we look at the Platte River differently. It is a water source for agriculture and cities like Fremont, Lincoln, and Omaha, a haven for wildlife, and a place for recreation. Issues surrounding the Platte are a top priority at the LPNNRD, since approximately 72 miles of the river flow directly through, or border, the district.

Ice Jam Agreement

In 1994, the LPNNRD entered into an agreement with the Papio-Missouri River NRD, Lower Platte South NRD, and Cass, Douglas, Sarpy and Saunders Counties to more effectively deal with ice jams and their resulting flood damages along the Lower Platte River. This area of concern is primarily from Fremont, Nebraska to the mouth of the Platte River. This group has pooled funds of \$150,000 to retain a contractor to use explosives when needed, to remove ice jams in a timely manner.

During the winter of 2022-2023, there were no ice issues of concern on the lower Platte River.

Rock & Jetty Program

This program was developed to offer cost-share assistance to landowners to construct erosion control devices for stream bank stabilization and to assist Dike and Drainage Districts with maintenance of dikes along the Platte and Elkhorn rivers and perennial streams. In FY22, \$20,000 is budgeted for projects on rivers & streams. We assisted two landowners on maintenance projects in FY 22-23 at a cost of \$5,427.

FY 2024 Platte River Basin Objectives

- Administer \$20,000 in the Rock & Jetty Program to assist with priority stream bank stabilization for cooperators on the Platte and Elkhorn Rivers and Perennial streams. This includes assisting cooperators with meeting the regulations of the Clean Water Act through section 404 permits.
- As a member of the Joint Water Management Advisory Board, provide leadership and assistance to move forward with exploring flood reduction solutions within Dodge County.
- Support the Lower Platte Weed Management Area financially and technically in controlling noxious and invasive weeds.
- Support the Nebraska Land Trust in acquiring easements for the protection and preservation of quality lands.
- Support the Lower Platte River Corridor Alliance by becoming an active voting member.

FY 2025-2029 Long Range Platte River Basin Objectives

- Continue to budget cost-share funds for priority bank stabilization along the Platte and Elkhorn rivers and other perennial streams in the district.
- Continue to be an active member on the Joint Water Management Advisory Board.
- Promote riparian buffer zones along the Platte River and other perennial streams.
- Continue to explore new, innovative and cost-effective ways to protect against stream bank erosion.
- Provide education on stream bank protection and regulations.
- Support and budget annually, as needed, for the Ice Jam Agreement Fund.
- Keep up to date on Clean Water Act and Endangered Species Act regulations.

- Continue to participate with the City of Fremont and Dodge County to study potential nonstructural measures to reduce flooding and economic losses from the Lower Platte River.
- Work with the City of Schuyler as they evaluate the need for future federal funding for completing structural and non-structural approaches to reduce flooding and economic losses from the Platte River through the LPNNRD District-Wide Hazard Mitigation Plan.
- Encourage cities and counties to initiate floodplain management planning to promote wise floodplain development.
- Assist dike and drainage districts within the LPNNRD to properly repair and maintain levy projects.
- Budget annually as needed to support the Lower Platte Weed Management group in controlling noxious weeds.
- Continue to support the Lower Platte River Corridor Alliance as an active voting member.



One of the Lower Platte North NRD's major responsibilities is to conserve and protect our ground and surface water resources. To accomplish this goal, the Lower Platte North continues to participate in water quality studies, ground water level monitoring, and water resource educational activities.

FY 2023 Ground & Surface Water Activities

Ground Water Management Area

LPNNRD implemented a District-wide Groundwater Management Area (GWMA) on January 1, 1997, to address both water quality and quantity concerns. This action was based on data gathered since 1985 indicating where groundwater quality conditions have deteriorated beyond those established as health standards, such as nitrate nitrogen. On that date, groundwater quality Phase I (education) regulations became effective for the entire District.

One primary rule in Phase I requires certification for fertilizer and water use. The District has developed a groundwater program emphasizing a protection-based approach rather than a reactive, corrective approach. Since that time, advanced Phase areas have been determined by trigger levels listed in the rules and regulations of the GWMA. The District has two Phase groundwater quality control areas, those being Bellwood and Richland/Schuyler. The Bellwood Phase 2 Area was established in 2003 and presently covers approximately 30 square miles in the western portion of the Platte Valley in Butler County and includes the town of Bellwood. In 2015 nitrate levels decreased to a point that the trigger levels were not being achieved, so this area was decreased to 20 square miles. The Richland/Schuyler Phase 2 Area was established in 2004. In 2015 this area was raised to Phase 3 because of the rising nitrate levels. This area covers approximately

55 square miles in the Platte Valley of Colfax County and includes the towns of Richland and Schuyler. In 2015, 10 additional sections north of the Richland/Schuyler Area became a Phase 2 area and in 2020 raised to Phase 3. Elevated nitrate-nitrogen levels continue to be the major concern in both Phase areas. Emphasis on awareness is a priority to the District with numerous grants being considered. A grant was received from the Water Sustainability Fund in November 2022. This grant will conduct a geological assessment to go with the AEM flights along with offering cost-share for best management practices in the Schuyler - Richland Phase Area. In July 2023 a WSF grant was approved to determine nitrate legacy from Richland to Fremont.

In June 2018, the District updated its Groundwater Rules and Regulations by adding a Phase Four under Water Quality and managing water by consumptive use or acre feet limitations. As of July 1, 2023, the District had 9424 registered active wells with 4606 irrigation wells and 212 wells in the GWEL network.

In Summer of 2012, the District saw mid-summer declines in the Bruno area and the uplands of Platte and Colfax Counties. These are now designated as the Butler-Saunders and Platte-Colfax Special Quantity Subareas. The District mandated water flow meters, rolling allocations and annual reports in these areas starting in 2016.

In 2012 seven NRD's agreed to develop a Lower Platte Basin plan, which is a cooperative agreement for the Basin Plan. This plan was approved in December of 2017 with each district assigned a depletion allotment within the Basin. The allotment is in 5-year increments starting in 2016 with a formula to determine the acre feet used for new water uses. The District completed its V-IMP in June of 2018 by adding an additional rule of requiring municipalities to report yearly water use, with an annual report

due to NeDNR. The Coalition contracted with the Flatwater Group to analyze the data that will be used in the next 5-year allotment. The group updated the plan for next 5-years in 2022 with new allotments until 2027.

In 2016 the Lower Platte River Consortium, made up of the Lower Platte South NRD, the Lower Platte North NRD, the Papio-Missouri River NRD, Lincoln Water System (LWS), Metropolitan Utilities District (MUD), and the Nebraska Department of Natural Resources (NeDNR), embarked on an effort to develop a drought contingency plan to maintain/mitigate sustainable water supplies to the Lower Platte River during drought conditions. The final report was finalized in the Spring of 2020. The group has discussed the projects to be considered for supplying water into the Platte River and will be making 5-year updates.

Current rules and regulations of the GWMA are available at the LPNNRD headquarters in Wahoo and via the district website at www.lpnrd.org.

Ground Water Quality Sampling

The Lower Platte North NRD continues efforts to develop a ground water quality inventory. The District has been divided into four primary aquifer regions: Todd Valley, Platte Valley, Shell Creek and the Uplands, and further divided into 26 subareas. Staff samples the same wells each summer, weather permitting, to determine long term trends for nitrate-nitrogen. This is referred to as the Statewide Network. The data collected is provided to the Nebraska Department of Environment and Energy (NDEE). NDEE in turn provides this to the Nebraska Legislature on an annual basis.

In 2022 samples were collected from 52 sites.

Year	Nitrate-Nitrogen Range	% Nitrate-nitrogen 0-8.0 ppm	% Nitrate nitrogen 8.01-10.0 ppm	% Nitrate nitrogen > 10 ppm
2022	0 - 18.7 ppm	69% (36 of 52)	15% (8 of 52)	15% (8 of 52)

Samples for pesticide analysis were collected from ten of these sites (19%). The pesticide analysis was for a suite of 25 parameters, and all results were less than reporting level.

Ground Water Energy Level Monitoring Network

One of the responsibilities of the NRDs in the State is to monitor fluctuations in groundwater levels. With the help of area cooperators, a ground water energy level monitoring network has been established in the LPNNRD. This monitoring network has been established to obtain a better understanding of the groundwater levels throughout the District. As of Spring 2023, the LPNNRD had 212 wells in the groundwater energy level monitoring network. These wells are monitored each spring and fall, with selected wells also measured in late August.

The LPNNRD compares the latest spring reading to the 1987 base-year to determine if a subarea needs to be declared a Level 2 or Level 3 groundwater management area. Level 2 and 3 management areas require flow meters on wells, annual reporting of water use, and establishment of acre-inch allocations. For the 26 sub-areas within the District, 24 subareas are currently at Level 1 management, while the other 2 sub-areas still need additional information before these can be designated. Sub-Areas along the Elkhorn and Platte Rivers are showing some of the wells reaching Level 2 and 3 management. The District prefers at least three years of data before the subarea can be designated as a Level 1, 2, or 3 management area.

Fall readings in 2022 and Spring of 2023 showed a decline from the previous year's measurement. This change was the continuing lack of moisture in the last 2 years. Spring readings in 2023 showed 92% of the wells measured had levels lower in Spring 2023 compared to Spring of 2022. There was a 3% rise in 6 wells from a year ago.

Chemigation

Chemigation is the act of injecting chemicals into the water line of an irrigation system that is then applied onto the crops. It is considered to be one of the most efficient ways of applying essential nutrients in times when the crop is uptaking the most amount of nitrogen through its growing stages. In order to chemigate, a licensed permit holder must obtain a permit through the Lower Platte North NRD. Special equipment must be installed to protect Nebraska's groundwater from possible back-flow of chemicals into the groundwater source. To obtain this permit administered by NDEE, you must pass the Chemigation Certification test taught through the University of Nebraska-Lincoln's certification program. There is an online test option available to producers. The chemigation equipment must be properly equipped, inspected and approved by the NRD before applying any chemicals. The number of chemigation permits continues to slowly rise throughout the district due to chemigation's efficient application rate when the crops are in the most need of nutrients. In sandier soil types, chemigation is extremely effective due to the soil's incapability to hold essential nutrients in the root zone after heavy rainfall events.

Chemigation Permits	Total	Renewal	New	Emergency
November 2022	733	676	56	1
August 2023	704	643	61	0

In 2014, the Legislature approved changes to Title 195 that would allow individual NRDs to set chemigation fees. Chemigation fees for LPNNRD are as follows: \$90 for a New permit, \$30 for a Renewal permit, and \$300 for an Emergency permit. Inspections are required on equipment for new permits. Renewal permits are inspected on a three-year rotation. Failure to renew by June 1st of the following year the permit was obtained will cause the permit to lapse. If a renewal

permit lapses, the producer must obtain a new permit and an inspection is required.

Decommissioned (Abandoned) Wells

Abandoned wells are a health and safety concern and have been ruled as illegal by the Nebraska Legislature. A well not used for three consecutive years or one which is no longer useful is considered to be abandoned and needs to be properly decommissioned.

The Lower Platte North NRD offers up to 75% cost share assistance to landowners to properly decommission abandoned water wells. In addition, the district will assist with up to 75% of the cost for pump and obstruction removal on domestic and stock wells. To receive cost share assistance, the actual decommissioning must be performed by a certified well driller or pump installer. The landowner has six months from the time of application to accomplish this task unless good cause is shown.

Since 1992 the district has administered local and state cost-share dollars to decommission 734 wells. Through this program in FY 22-23, a total of \$11,604.58 was administered by LPNNRD for the plugging of 10 wells. The district will administer approximately \$15,500 of state and local funds to plug additional wells during the current fiscal year.

Flow Meter Maintenance Program/Flow Meter Readings

Since 2008, the LPNNRD has implemented the requirement of installing a District approved flow meter on any new or replacement well. Thereafter in 2012, the District also required the installation of a flow meter on any expansion of acres from an existing well. This pumping information is invaluable to the District to know what has been pumped during years of extended drought. It is vital that the LPNNRD keeps track of this going forward into the future. In order to know the volume of water within our aquifer systems, we need to know the water that is being extracted.

In 2016, the district chose to contract with a

private company through the bidding process. The company was scheduled to maintain the flow meters within the LPNNRD’s SQS areas for the first four years. Since that was completed the District has chosen to open the flow meter maintenance program district wide in 2020. Maintenance on the flow meters will be performed once every four years. The district is in charge of the labor and site visit at each meter. Each mechanical meter site visit is \$60 and each battery operated site visit is \$75. This maintenance includes the regular greasing of the mechanical meters and changing the batteries on the digitally read meters. Along with the regular maintenance the private company also ensures that the meter is not damaged from water or vibration. There are approximately 1,150 irrigation well flow meters that are getting routine maintenance once every four years.

Along with the irrigation wells, the LPNNRD also records meter readings from all of the municipality wells within the District including MUD, Lincoln and Fremont. Livestock wells and commercial wells are required to report if the well was drilled after the 2012 requirement date. Over 1,200 readings are recorded annually throughout the LPNNRD District. This Fiscal year the LPNNRD budgeted \$24,000 for the meter maintenance program.

Registered Wells

The Nebraska Legislature declared that the conservation and the beneficial use of ground water are essential to the future well-being of the State. State Law requires that all water wells in the State of Nebraska be registered with the Department of Natural Resources. Wells that are not registered are illegal and should be registered as soon as possible. A breakdown by decade from 1970 to present shows the growth of active irrigation wells in the District.

Table of Active Irrigation Wells within LPNNRD compiled by Completion Date

Date	Number of Active Irrigation Wells in the District
December 31, 1970	1,428
December 31, 1980	2,756
December 31, 1990	3,241
December 31, 2000	3,686
December 31, 2010	4,307
December 31, 2020	4,554
July 1, 2023	4,606

Well Permits

In May of 2008, the LPNNRD placed a flow meter and water reporting condition on well permits for all permits issued after that date. All well permits require well owners to install a flow meter and report their water use for the calendar year to the LPNNRD by December 15 of each year. This reporting requirement is effective the year the well is drilled and for each year thereafter, until the well is decommissioned. From January 1 to July 1st, 2023, the District has issued 26 well permits with 8 new and 18 replacement irrigation wells.

Special Studies

The LPNNRD has done a number of studies within the District. The following is a list of studies that are currently being conducted within the District.

Aquifer Vulnerability Mapping and Analysis

The Lower Platte North has been working with UNL to collect and analyze data within the LPN Water Quality Management Areas. The first stage involved intensive water sampling of irrigation wells for nitrates. A few isotope nitrate samples were collected for the purpose of determining if the nitrates are from organic or inorganic sources. This was followed-up with vadose soil sampling analysis to assist in determining the amount of nitrates in soil and pore water present in the unsaturated zones above the water table. A nitrate tool was developed utilizing this data, along with

geological information to assist in determining vulnerability. This project was completed in 2021 with informational meetings in the area. The plan is to conduct some age dating of groundwater to help in nitrogen management.

3D Airborne Electromagnetic (AEM) Hydrogeologic Framework and Assessment

Papio-Missouri River NRD, NeDNR and LPNNRD started a study in January 2021 to assess AEM survey information, well logs, and other geological information. The data will be used to characterize different geological layers and assign variables such as hydraulic conductivity. This data will be used in groundwater modeling to better understand, assess, and forecast groundwater. This study was completed in January 2022. Starting August 2023 the process of taking this data along with LPSNRD assessment and completing a groundwater model for the Lower Platte River Basin.

Lower Platte River Consortium Study

Municipal wellfields in the Lower Platte River Basin depend on the Platte River to recharge groundwater for their use. This study looked at long term water supplies in the Lower Platte River Basin, and the ability to enhance streamflow, especially in drought conditions, to sustain these municipal water systems. Sustaining water in the river would also provide a benefit to wildlife and agriculture by lessening the likelihood of a 'call' on the river. Due to different hydrologic conditions in the Platte River, such as gaining and losing segments, siting of future reservoirs, groundwater storage projects, etc. becomes important in order to most effectively move water to a desired location downstream. The plan was completed in Spring 2020 with the group now in the process considering the options from the plan to determine the feasibility of the projects.

Eastern Nebraska Water Resources Assessment

LPNNRD is a partner in the Eastern Nebraska Water Resources Assessment (ENWRA). The ENWRA study has been utilizing Airborne

Electromagnetic (AEM) over eastern Nebraska to better model the geology of the glaciated portion of the State. It has opened several questions concerning bedrock aquifers both in water quantity and water quality such as salinity. New flights were conducted in the summer of 2018 with the final report received in summer 2019. A study is being conducted in the Platte-Colfax Area (SQS#2) utilizing the AEM, additional data loggers and other geologic logs to determine the relationship between confining and unconfined layers along with determining drawdown levels for management decisions. The flights and the results can be found on the ENWRA website at (www.enwra.org).

Elkhorn-Loup Model

The Elkhorn-Loup Model (ELM) project is a study of surface water and groundwater resources in the Elkhorn River basin upstream of Norfolk, Nebraska and the Loup River basin upstream of Columbus, Nebraska. Parts of this basin overlap and cover portions of upper Shell Creek.

Certifying Acres

In July 2009, the District signed a contract with gWorks (formerly GIS Workshop) to develop a database of county assessor records as the preliminary step to certifying irrigated acres. Using these records, LPNNRD staff mailed out letters to landowners to verify irrigated ground. As of January 2022, the majority of the irrigation in the district has been cataloged. The District is still granting new irrigation development. Those new acres are not entered into the certification database until they can be verified by aerial photography and accurately modeled. In March of 2021, the District went through all the approved new irrigation acres and modeled out all those that had yet to be counted. Acre certification provides an inventory of the irrigation needs of the District, which is an important part of present and future groundwater management and planning. In addition to cataloging irrigated acres, LPNNRD

staff have been actively working with the Nebraska Department of Natural Resources (NeDNR), as well as local landowners, to bring all irrigation wells in LPNNRD into compliance with Nebraska Revised Statute 46-602 (7).

Nebraska Ordnance Plant Water Pollution Clean Up at Mead

During the 1940s, 1950s and 1960s, an Army Ordnance Plant near Mead was used to assemble bombs and served as an early Atlas Missile ICBM site. Over time, the soil and groundwater at the plant site became polluted with various explosive residues and solvents. The cleanup has been divided into three basic project areas: Soils (OU1), Ground Water (OU2), and Building contamination (OU3). This area has been under study by the Army Corps of Engineers (COE) since 1988. An open house was held by the Corp, May 2023, with annual tours and open houses conducted regularly.

Wellhead Protection Program

The LPNNRD implemented a wellhead protection program in FY 2001. The goal of the program is to minimize potential polluting activities on the land surrounding a community's public water supply well(s). The District has identified 22 communities with public supply wells and they have been encouraged to become involved in the program. The Communities of Newman Grove and Platte Center have applied for Source Water Protection Grants to re-evaluate and approve their wellhead management areas. Both communities will do a nitrogen assessment for the area to assist in future well locations.

Rural Water Districts

In recent years, the District has worked with communities who have had difficulties with water quality and quantity by forming two rural water systems. The Butler County system linked the village of Bruno in 2006, who was having water quality and quantity problems, to David City. Also in 2006, the Saunders County system linked the village of Colon, who was

experiencing water quality concerns, to Wahoo. The LPNNRD operates both of these systems. The District purchases water from the larger communities and delivers it to the smaller communities; RW staff manage and maintain Colon's system and billing while Bruno manages their infrastructure and household billing. Both systems are designed to serve rural customers along each service route. Combined, the two systems serve over 135 households in Saunders and Butler Counties. To address fiscal concerns both RWDs have implemented a phased rate increase strategy to more diligently manage the financial standings of both districts. The District has been in contact with several other communities and anticipates several more communities and rural customers to be serviced by rural water systems in the future as rural communities face an increased burden at providing adequate quantity, and quality, water while maintaining aging infrastructure. Both systems are greater than 10 years old and repairs/replacements of meters is expected to take up RWD staff's time in 2023-24 as a number of meters and components are nearing the end of their expected service life.

Geographic Information System (GIS) and Global Positioning System (GPS)

LPNNRD has used Geographic Information System (GIS) technology since 1996. GIS is an automated system combining database information and maps. Features on a map, created with GIS technology, contain attribute or feature descriptions that are referenced by location. The data used by a GIS system consists of Vector and Raster Data. Vector data consists of point (wells), line (roads) and polygon data (irrigation boundaries or parcels); with Raster data consisting of pixels, where each pixel on the screen corresponds to a data point. Raster data includes aerial photography and elevation data such as LiDAR (a highly accurate elevation dataset). The District has incorporated the use of GIS into most district functions, including the certification of irrigated acres, maintenance, project planning, modeling of groundwater

availability, and the movement of contaminants such as nitrates through the soil profile.

In addition to in-house GIS activities, LPNNRD GIS staff assist a variety of partners, including projecting FSA aerial photography into Nebraska State Plane Feet coordinates for NeDNR, custom authoring of maps for the Nebraska Land Trust, coordination of helicopter flight lines for invasive species control with the Lower Platte Weed Management Area, and helping other NRDs with GIS questions as they emerge.

LPNNRD entered into an agreement with Phoenix Web Group to create a robust, relational database. GIS will be the backbone of this database and will allow LPNNRD to quickly, and efficiently, look up any information pertaining to any project or cost share that has been completed for any constituent with land in LPNNRD.

The Global Positioning System (GPS) relies on 31 NAVSTAR satellites, which provide world wide positioning and navigation information around the clock. Receivers acquire signals from satellites to determine precise locations on earth. The data obtained from taking GPS positions can be downloaded and mapped with GIS, making the two technologies complementary. LPNNRD partnered with NRCS on the purchase of a sub-centimeter GPS base station. This allows NRCS and NRD staff to quickly and efficiently perform a variety of tasks in the field with survey level precision.

As drone technology continues to evolve, LPNNRD has added a SkyDio2 Autonomous Drone to its inventory. LPNNRD Staff have completed FAA Part 107 certification, which ensures safe operation of drones for commercial purposes. This certification process involves an exam that covers airspace regulations, weather, and aviation safety.

FY 2024 Ground and Surface Water Objectives

- Continue to monitor changes in groundwater levels and quality in the district.
- Continue with LPNNRD Groundwater Management Area (GWMA) programs to help avoid the Lower Platte Basin being designated “fully appropriated.”
- Continue to implement Voluntary Integrated Water Management Plan (V-IMP) for the District and basin-wide plan. Utilize acre feet allotments assigned to the District for the benefit of the basin.
- As part of the GWMA, continue with LPNNRD certification classes, demonstration plots, generation of maps indicating problem areas, and evolving the development of a master database.
- Continue to cooperate with the United States Geological Survey (USGS) in monitoring groundwater levels at two sites.
- Continue to cooperate with the United States Geological Survey (USGS) in monitoring surface water levels at four sites and one site for contamination evaluation.
- Use the Subarea Delineation Study to identify ‘small pocket aquifers’ in the Swedeburg, Prague, Yutan, and Yutan South subareas. Review other aquifer subareas to determine if Stay Management Areas are justified in other portions of our District.
- Continue sampling of approximately 53 wells in our District that are part of the Nebraska State-wide Network.
- Continue to monitor the Phase Areas in Richland-Schuyler and Bellwood for nitrate and elevate these areas as needed.
- Continue implementing extensive sampling of soil and water in the Phase Areas for the purpose of identifying workable best management practices for curbing the rising nitrate trend.
- Implement best management practices within the Phase Areas for the purpose of decreasing nitrate levels.
- Administer \$19,000 of state and local cost-

share funds to decommission abandoned water wells, and provide 100% cost-share assistance within Wellhead Protection Areas to communities that are actively doing projects within its management area.

- Maintain a multi-agency groundwater energy level monitoring network in the Wann Basin of the Platte Valley north of Ashland to pool information from different agencies collecting water level data. This information is being used by the COE and MUD to refine their groundwater modeling efforts.
- Continue to implement the Chemigation Program to inspect safety equipment on permitted irrigation systems in the district.
- Continue with the District's Well Permitting Program and Variance Process throughout the District.
- Continue to review water use reports submitted to the LPNNRD as part of the well permitting process from new and replacement wells.
- Provide information and education on water conservation and safe disposal of farm and household chemicals.
- Continue to map registered and unregistered wells in the district using GPS.
- Promote and sponsor LPNNRD's Spring Conservation Sensation.
- Provide information on Integrated Pest Management in news releases and the "Viaduct" newsletter to encourage reduced use of pesticides.
- Support and promote urban water conservation and chemical disposal throughout the District.
- Assist in organizing the annual NRD Water Programs Conference held each year to update the NRD's on activity of State and Federal Agencies, new research, and Legislative issues.
- Continue to install flow meters on irrigation wells that are part of our Ground Water Energy Level (GWEL) Network.
- Expand the GWEL network to monitor aquifer sub-areas as designated in the 2009

Subarea Delineation Study. This will be done by incorporating additional high capacity wells and the drilling of new monitoring wells.

- Continue to monitor clean up efforts by the COE at the Former Ordnance Plant at Mead, Nebraska.
- Work with the COE to establish spacing requirements for future high capacity irrigation, industrial, and/or municipal wells that are requesting to be installed near known contaminant plumes from the Former Ordnance Plant near Mead, so these wells will not interfere with the COE's clean up efforts.
- Continue to monitor clean up efforts by the University of Nebraska at the Eastern Nebraska Research and Extension Center (ENREC) facilities east of Ithaca, Nebraska.
- Maintain transducers placed in District monitoring wells to record changes in groundwater energy levels and to continue the process of installing real-time remote reads.
- Implement Level 2 or Level 3 Management areas as warranted caused by declining groundwater energy levels in 50% or more of the monitoring wells reaching their trigger levels after three consecutive spring readings.
- Review livestock permits from NDEE.
- Investigate irrigation runoff and groundwater management area complaints as needed.
- Expand the NeRain program within our District.
- Continue to be a sponsor member of the Elkhorn-Loup Model (ELM).
- Continue groundwater studies with the University and NeDNR in the SQS areas. Study will focus on confined and unconfined aquifers and drawdowns within these areas.
- Communicate with well drillers and pump installers on water concerns within the District.
- Continue to assist the Eastern Nebraska Water Resources Assessment (ENWRA) with

the use of AEM (Airborne Electromagnetic) to study the eastern glaciated portions of Nebraska to provide a geologic framework map.

- Improve irrigation efficiency by working with UNL Extension on the Nebraska Agricultural Water Management Network (NAWMN) to install Watermark sensors and ET gauges with producers each year in our District.
- Continue with the process of updating Irrigated Acre Certification within the District.
- Continue working on projects identified within the Shell Creek Watershed Water Quality Plan.
- Update water quality objectives as identified in the Wahoo Creek Watershed and the Shell Creek Watershed Water Quality Plans.
- Continue to increase producer participation in online reporting for entering their data to improve efficiency and quality of data.
- Analyze the real-time water level measurement network in Special Quantity Areas for in-season management decisions for determining warning triggers.
- Start the groundwater modeling process jointly with PMRNRD, LPSNRD and NeDNR within the Lower Platte Basin for updating the Hydrological Connected Area (HCA) and assist in the well permitting process.
- To work with USGS and Lower Loup NRD on assessing legacy nitrate in Platte, Colfax and Dodge Counties, Nebraska by identifying wells to sample.
- To continue to work with UNL and NDEE on an interseeding cover crop project in the Shell and Wahoo Creek Watersheds.

FY 2025-2029 Long Range Ground and Surface Water Objectives

- Continue groundwater quality sampling throughout the LPNNRD, both the State-wide network and intensive sampling of selected regional aquifers.
- Continue water quality education programs based on the goals and objectives of the

LPNNRD Groundwater Management Area, which includes LPNNRD certification classes for landowners, municipal, and industrial water users.

- If needed, designate further Phase II, III, and IV boundaries for the Groundwater Quality Management Areas.
- Educate the need for check valves in protecting the aquifer from contamination.
- Continue with nitrogen application demonstrations and participate with demonstrations on integrated pest management and sustainable agriculture.
- Assist in the proper decommissioning of water wells in the district.
- Continue to use GPS to map registered and unregistered wells within the district.
- If necessary, designate Level II and III boundaries within the district to manage declining groundwater levels.
- If necessary, designate new Special Quantity Subareas (SQS) within the district to manage mid summer declines of groundwater energy levels in aquifers that operate under large pressure swings.
- Continue measurement of ground water energy levels in the district.
- Develop a groundwater model to assist in management for each sub-area. Additional information on water use from all wells will be needed for accurate information.
- Continued partnership with the Eastern Nebraska Water Resources Assessment (ENWRA) and apply information to the glaciated portions of our District.
- Initiate additional studies to identify vulnerable aquifers and modify GWMA rules and regulations to protect these aquifers and their long term sustainability. Continue geophysical work, installation of monitoring wells and test holes to better define these vulnerable sub-areas. Additional AEM flights with ¼ to ⅓ mile spacing would gratefully assist in defining such areas. Eventually cover the entire District with these detailed AEM investigations.
- Continue using AEM (airborne electromagnetic) information to analyze

bedrock aquifers both in water quantity and water quality. Test holes and monitoring wells will have to be installed and sampled to determine these as a possible source of usable groundwater. New management strategies need to be developed for these aquifers such as summer trigger levels for confined bedrock aquifers, especially if these are hydrologically isolated from overlying alluvial aquifers. This could develop into three dimensional management where aquifers at different depths are treated by a separate set of rules for each one. This could become very complex but will likely be the only way to sustain the use of these aquifers far into the future.

- Install precipitation gauges near monitoring wells in important sub-areas.
- Utilize the completed Lower Platte River Consortium Study for possible locations for recharge and reservoir sites to better convey water downstream to municipal wellfields.
- Complete water quality objectives as identified in the Watershed Quality Plans.
- Continue to update the Groundwater Management Plan to include Integrated Management of surface and ground water. It may be necessary to install additional surface water gauging sites coupled with nearby groundwater monitoring wells as tools for integrated water management.
- Expand the GWEL network to have continuous recording monitoring wells in each sub-area to better manage the resource with the ability for remote real-time readings. This is especially important in confined aquifers.
- Continue to update the certification of irrigated acres.
- Continue to assist District communities who have difficulties with water quality and quantity by helping determine rural water system feasibility.
- Keep the Saunders County Rural Water System study as an alternative in the event of changing federal regulations governing municipal water supplies.

- Keep abreast of updates and new iterations of the Elkhorn-Loup Model (ELM) to determine which areas in the Shell Creek watershed are in hydrologic connection with the Elkhorn or Loup River basins.

In summary, the LPNNRD needs to focus on five areas in the next five years:

1. Using information from the AEM flights and test holes, establish a monitoring well network in these confined aquifers to record continuous ground water energy levels. It is midsummer declines (late July to mid-August) when large drops in aquifer pressure can cause some wells to run low on water. Map locations of potential recharge sites. More flights, test holes and/or monitoring wells might be necessary in areas to provide the necessary information.

2. Establish ground water management rules to better address confined aquifers. This could involve comparing spring to summer ground water energy levels and comparing this to the potentiometric aquifer thickness and the depth of bedrock. The current management rules for unconfined aquifers should be adequate for future conditions. These controls are based on three consecutive spring readings at or below their trigger levels in at least 50% of the GWEL wells in a given subarea.

3. AEM flights have given a new interest in bedrock aquifers such as the Dakota formation. Monitoring wells in selected areas are needed to determine the water quality and quantity of these bedrock aquifers. Also are these bedrock aquifers in hydrologic connection to any overlying aquifers? If this is the case and new high capacity wells are being established in these bedrock aquifers then management should shift focus to the more vulnerable aquifer to sustain long term viability of both aquifers. If these bedrock aquifers are isolated from the overlying aquifer then "three dimensional management" where wells are managed differently due to

their depth may be in order. This could get complex but management needs to take the chemical and physical characteristics of the aquifer in account. For example, what is the salinity of the groundwater and is the bedrock aquifer cemented, unconsolidated, sandstone, limestone, or shale.

4. Horizontal wells. In the immediate future horizontal high capacity irrigation water wells will likely be established in thin aquifers to increase well output or yield. On the plus side, these could replace several vertical wells that are used in series and therefore be a cost savings to the well owner. On the negative side these could quickly dry up thin aquifers less than 20 feet in thickness and affect nearby wells. How do you manage such a system? At the least you could require 600 feet spacing from any point of the lateral to a neighbor's well but again this may not provide much protection in thin aquifers such as the area immediately west of Fremont. Other management options would be to restrict the number of acres irrigated, restrict the length and direction of the laterals, restrict well output such as limit the gallons per minute, establish water allocation, install monitoring wells such as near the end of the laterals to track groundwater levels, etc.

5. Integrated Water Management. Siting of potential recharge sites, storage reservoirs (both surface and groundwater), and potential water reuse projects to enhance the water supply in the District. Additional monitoring wells, streamflow gauging, and precipitation sites will likely be necessary. Effects of climate change will also need to be considered as part of integrated water management.



In response to the Erosion and Sediment Control Act (LB 474), passed in 1986, the Natural Resources Commission developed the Nebraska Soil and Water Conservation Strategy. This strategy outlines a course of action for efficiently conserving and managing the state's natural resources.

The Lower Platte North NRD administers the Erosion and Sediment Act and has patterned its local program after the state strategy. The district administers state and local cost-share funds through Soil and Water Conservation Programs (SWCP) to offer incentives to producers for installation of land treatment practices. LPNNRD staff also worked with NRCS staff to utilize Farm Bill Programs to repair erosion problems.

FY 2023 Soil Conservation Activities

Soil and Water Conservation Programs (SWCP)

Under Soil and Water Conservation Programs (SWCP), the LPNNRD allocated \$83,029.99 of state funds (Dept. Natural Resources) for land treatment practices during fiscal year 2023 in cooperation with 12 different landowner projects. In addition, 3 Buffer Strip contracts were administered with \$12,258 in state funds.

For fiscal year 2024, \$92,179.61 of state funds (from the Nebraska Department of Natural Resources) and \$25,000 of local funds will be allocated for soil and water conservation practices through the LPNNRD Lands for Conservation Program (LFC). The LFC program offers landowners a per/acre payment to set aside production ground to allow for summer construction. This lessens the burden on the fall construction season allowing more conservation work to be implemented.

Wahoo Creek Water Quality Land Treatment Efforts

Wahoo Creek in Saunders County, Nebraska, has resided on the Environmental Protection Agency's (EPA) list of impaired water bodies for decades. To address the impaired status of Wahoo Creek, LPNNRD in partnership with the U.S. Environmental Protection Agency (EPA) and the Nebraska Department of Environment and Energy (NDEE) developed the Wahoo Creek Watershed Water Quality Management Plan in 2013. These plans are updated every 5 years and the District is in the process of completing another update. This plan identifies goals to reduce excess phosphorus, nitrogen, soil sediments, and E. coli bacteria in the Wahoo Creek Watershed. This plan meets the EPA's requirement of containing "Nine Elements" of an effective watershed management plan. The plan identifies water quality goals to protect and enhance the quality of all water resources within the Wahoo Creek. Sub-watersheds within the Wahoo Creek Watershed were prioritized for future water quality projects. LPNNRD in partnership with EPA, NDEE, and the Natural Resource Conservation Service (NRCS) identified four Wahoo Creek sub-watersheds as National Water Quality Initiative (NWQI) areas to receive special EQIP and EPA 319 funding for landowners to complete conservation practices to help achieve the numerous identified water quality goals.

Shell Creek Watershed EPA Section 319 Water Quality Improvement Efforts

Shell Creek is a major tributary of the Lower Platte River. Land use in the approximately 305,000 acre watershed is predominantly row crop agriculture. Portions of Shell Creek are on the Environmental Protection Agency's (EPA) impaired waters list. The most notable impairments include E. coli (bacteria) and Atrazine.

The Shell Creek Watershed Improvement

Group (SCWIG) is a volunteer committee that formed in 1999 to lead local efforts to identify problems and to promote implementation of conservation practices to improve water quality in Shell Creek. This evolved into an advisory group to LPNNRD continuing to provide local leadership toward reducing erosion and water quality impairments in the watershed. A community-based planning approach was used to gather input from the citizens of the watershed for development of the Shell Creek Watershed Environmental Enhancement Plan that emphasizes combinations of practices that improve water quality.

Over the past 23 years, the Shell Creek Watershed has benefited with over \$2 million in EPA Section 319 funds combined with approximately \$4 million in partnering federal and local funds for assisting landowners in establishing Best Management Practices on their farms. These efforts resulted in Shell Creek becoming the first agricultural watershed in the nation to have a segment delisted for atrazine contamination in FY 2018.

In FY 2023, the NRD secured \$779,000 in grants from EPA/NDEE Section 319 and the Nebraska Environmental Trust (NET). These grant dollars matched with local funds are expected to yield over \$1.4 million of water quality work in the watershed over the next three years.

Erosion and Sediment Complaints

The LPNNRD responds to occasional erosion and sediment complaints. In most cases, these complaints are resolved before going through the formal complaint process. Many cases are drainage issues that are resolved between the District and landowners. During FY2022 NRD staff was subpoenaed on a case between two neighbors that could not be resolved amicably. The case has yet to be resolved as both parties continue to work together. During FY2023 LPNNRD was contacted by a landowner concerned about the placement of a tile outlet near his fence/property line. The work being completed on the neighbor's property was not

being done with NRD, or NRCS, approval. The NRD reached out to the neighbor's and through multiple conversations was able to come to an agreement that satisfied both parties.

FY 2024 Soil Conservation Objectives

- Use technical assistance from the NRCS in the planning, design, construction, and maintenance of conservation measures applied to the land.
- Use Federal, state, and local funds to promote and implement land and water treatment projects in priority areas of Wahoo Creek Watershed to reduce erosion and improve water quality. The NRD plans to coordinate with local NRCS through the National Water Quality Initiative (NWQI), NDEE's 319 program, and local funding efforts to achieve the goal.
- Continue encouraging the implementation of summer conservation construction utilizing federal funding within the Wahoo Creek Watershed through the Lands for Conservation program; for FY24 the NRD has approved \$19,600 for the set aside of 85 acres.
- Administer \$92,179.61 of State NSWCP funds and \$25,000 of local cost-share and grant funds to landowners for the construction of terraces, tile outlets, waterways, diversions, small dams, planting of permanent vegetation, and maintaining water quality.
- Continue to promote conservation tillage measures, pasture & range management, sustainable agriculture, and the Conservation Reserve Program (CRP), through news releases and the district's newsletter.
- Recognize the Outstanding Soil and Water Conservationists.
- Continue to assist landowners in resolving soil erosion and sediment complaints.
- Provide financial support and staff time to conservation education activities.

- Continue to work closely with locally-led conservation groups to promote soil and water conservation throughout the district.
- Partner with the Shell Creek Watershed Improvement Group (SCWIG), EPA/NDEE, NET, and NRCS toward continuing implementation of Best Management Practices in the Shell Creek Environmental Enhancement Plan Implementation.
- Work with NRCS, NDEE, NET, Saunders County, and the Wahoo Creek locally led Steering Committee in pursuing additional federal and state funds to assist with land treatment practices as defined in water quality objectives in the Wahoo Creek Watershed Water Quality Plan.
- Assist with the formation of local landowner advisory steering committees in the Wahoo and Bone/Skull Creek Watersheds for planning soil & water conservation practices and flood reduction.
- Use existing and new technology and GIS software programs for implementing and promoting soil conservation practices.
- Promote the use of and make available soil surveys and land use information.
- Continue to support Locally Led Landowner Groups to promote and implement soil and water conservation practices.

FY 2025-2029 Soil Conservation Long Range Objectives

- FY 2024-2028 Soil Conservation Long Range Objectives (Sean, Ryan) DONE
- Maintain existing land treatment practices and programs.
- Continue to work with all counties in the district to reduce roadside erosion.
- Administer NET and NDEE/EPA 319 Grant Programs to improve water quality throughout Wahoo Creek, Shell Creek, and the Lower Platte River Corridor Alliance priority watersheds.
- Look for new and innovative soil and water conservation methods.
- Partner with NRCS, UNL Extension, and landowners to improve all aspects of their water and soil quality.
- Continue to support the Land and Range Judging Contests.
- Continue targeting SWCP land treatment program funds for priority watersheds in the District.



FLOOD CONTROL & DAMAGE REDUCTION ACTIVITIES

Projects have been completed in priority areas in the LPNNRD to help reduce flooding and provide grade stabilization. Projects have been completed in Bellwood, Clear Creek, Cottonwood Creek, Sand and Duck Creek, Swedeburg, and Rawhide Creek watersheds. Current high priority flood reduction areas include Bone Creek, Shell Creek,, Skull Creek, and Wahoo Creek watersheds. On federal and state projects where the LPNNRD acts as project sponsor, the district obtains land rights and is also responsible for operation and maintenance activities on these projects after they are built.

The LPNNRD offers local assistance for the construction of small dams that can help counties and/or landowners protect county roads, control erosion, and provide water for livestock and wildlife.

FY 2023 Flood Control and Damage Reduction Activities

Wahoo Creek Flood Reduction Efforts

The NRD is currently in the process of building ten flood reduction dams in Wahoo Creek watershed, estimated to cost \$19.7 million in 2020. Federal (WFPO) and state funds (JEDI) are expected to fund the entire project including planning, design, permitting, land rights, construction, and construction oversight. Construction will begin in FY2024 on three sites: 26a, 26b, and 27. Construction is expected to begin in FY2025 on the remaining seven sites: 55, 66, 77, 82, 84, 86, and 86. Completion of all ten dam sites is anticipated by the end of FY28.

Sand Creek Environmental Restoration Project (Lake Wanahoo)

With the invaluable assistance of numerous local, state, and federal partners, 2011

witnessed the completion of construction on Lake Wanahoo's earth embankment. The breakwater feature and the fisheries component were completed a few years prior to the embankment. Recreation components were completed for Lake Wanahoo in FY2011. Construction of seven upstream flood reduction/environmental enhancement structures were completed in FY12-14. In FY19, LPNNRD assumed Lake Wanahoo's recreation management responsibilities from the Nebraska Game and Parks Commission.

Operation and Maintenance

District staff completed inspections on 45 watershed structures and special projects in the NRD in FY 23. These inspections help detect problems before they become serious. Also during the 2023 fiscal year, noxious weeds and volunteer trees were sprayed on 45 dams, Clear Creek Levee, and the Rawhide Ditch System. Annual maintenance activities such as removing debris, repairing fences and unplugging risers were completed at many of the dam locations. The District is currently working with NRCS and a Engineer Consultant in the rehabilitation of dam Cottonwood 21-A.

Army Corps of Engineers 205 Flood Studies

Over the past many years, the District has partnered with local entities and the US Army Corps of Engineers to study flood protection alternatives for their areas. In 2004, LPNNRD partnered with Fremont, Inglewood, and Dodge County to look at a potential levee project to remove areas from the Platte River 100-year ice induced floodplain. In FY 2017, the Fremont study evolved into a General Investigation (GI) Study which determined that there is not a feasible structural solution (levee) to the City of Fremont's flood threat from the Platte River. In 2018 the GI Study evolved back to a 205

Non-Structural Study for the City of Fremont and Dodge County. This effort will continue in FY 2024.

In 2005, LPNNRD entered into an interlocal agreement with the City of Schuyler to evaluate levee protection options to protect the city from flooding from the Platte River and Shell Creek. In FY 2012, the Schuyler 205 Study was completed and entered into the project design phase. In FY 2014 the design phase was completed and LPNNRD assisted Schuyler with obtaining needed land rights for the Shell Creek Levee portion of the project which began construction activities in the spring of 2014 and most construction activities were completed in the fall of 2015. LPNNRD continued to assist Schuyler in FY 2018 with closing out the project with the Army Corps of Engineers. Schuyler continues to do a great job in maintaining the levee.

FY 2024 Flood Control and Damage Reduction Objectives

- Continue with accelerated land treatment efforts in identified priority watersheds in the District.
- Complete annual and/or biennial inspections on 45 watershed structures; spray noxious weeds & cut and treat trees on 45 dams, Clear Creek Levee, and Rawhide ditch; complete regular maintenance activities at all sites.
- Continue to be an active partner on the Joint Water Management Advisory Board to explore flood reduction and drainage solutions in portions of Dodge County within LPNNRD.
- Partner with the City of Fremont, Dodge County, and Papio-Missouri River NRD to fund operation and maintenance of established USGS cameras and water gauges at five locations along the Lower Platte River.
- Partner with Dodge County and City of Fremont on FEMA Drainage

Improvement Project.

- Continue to educate the public on watershed management and flood reduction in LPNNRD newsletters, news releases, and our website.
- Cooperate with landowners and counties in evaluating small dam sites for cost-share throughout the district.
- Continue to partner with the Army Corps of Engineers, FEMA, City of Fremont, Englewood, and Dodge County on exploring non-structural opportunities for feasible flood control solutions.
- Support the City of Schuyler for exploring non-structural opportunities for feasible flood control solutions from the Platte River through the LPNNRD District-wide Hazard Mitigation Plan.
- Work with Communities, Counties, and other entities on projects identified in our District-wide All Hazard Mitigation Plan.
- Complete easement acquisition for all ten Wahoo Creek Watershed flood reduction dam sites.
- Complete engineering designs on Wahoo Creek Dam Sites 55, 66, 77, 82, 84, 85, 86.
- Begin construction on Wahoo Creek Dam Sites 26a, 26b, and 27.
- Begin the process of updating LPNNRD's district-wide All Hazard Mitigation Plan.
- Work with Dodge County, City of Fremont, and other JWMAB members toward the completion of the Rawhide Watershed WFPO Planning efforts.
- Partner with NRCS through the Dam Rehabilitation program to rehabilitate dam Cottonwood 21-A.

FY 2025-2029 Flood Control and Damage Reduction Long Range Objectives

- Continue to commit funds and staff time toward completing flood water control/reduction structures in the Wahoo Creek Watershed.

- Continue to budget staff time and funds to maintain and operate completed flood control structures that are sponsored by the LPNNRD.
- Develop a long term plan for Operation and Maintenance costs associated with large structures.
- Continue to explore flood reduction opportunities for Bone Creek, Shell Creek, and Skull Creek Watersheds.
- Continue to encourage cities and counties in the district to accept and implement Floodplain Management Authorities.
- Assist Fremont, Inglewood, and Dodge County with non-structural flood protection projects as identified by the Army Corps of Engineers study and the Hazard Mitigation Plan Flood Resiliency study.
- Assist Schuyler with non-structural Platte River flood protection project opportunities as they become available.
- Assist District Communities in evaluating future flood protection for their communities through updating the District's Hazard Mitigation Plan and assisting with identified projects.
- Construct ten approved Wahoo Creek flood water reduction dams by the end of 2028.
- Continue to work with JWMAB members on the numerous projects identified as flood reduction/drainage improvement projects.
- Partner with NRCS in the Dam Rehabilitation Program on dam Cottonwood 21-A.



The district administers several programs designed to enhance the region’s forest, range, and wildlife land, including the Tree Planting Program, Wildlife Habitat Programs with Nebraska Game & Parks and Pheasants Forever, SWCP Program, and Mitigation Program. The district also sponsors educational activities such as Range Judging and Land Judging contests, and other school-oriented activities.

FY 2023 Forestry, Range, and Wildlife Habitat Activities

Tree Program

One of the most visible and popular programs offered by the LPNNRD is the district’s tree planting program. As a direct result of this program, begun in 1973, an estimated 873,225 trees and shrubs have been planted in the district. Trees and shrubs may be obtained from the NRD for windbreaks, shelterbelts, wildlife habitat, woodlots, and Christmas tree plantings. Besides providing a planting service, the NRD also designs tree planting plans and offers technical advice on ground preparation for tree sites.

During the spring of 2023, 10,475 trees and shrubs were distributed to District residents. Of this total, 3,606 were planted by the NRD field crew at 12 sites.

Wildlife Program

Lower Platte North continues to encourage landowners to set aside land for wildlife habitat by using Federal Programs and Programs provided by Nebraska Game & Parks and Pheasant Forever. These programs include Corners For Wildlife and Wild Nebraska.

Community Forestry Program

In FY 2022-2023 LPNNRD donated 900 seedlings for schools in Fremont and Newman

Grove; provided trees to the District’s annual Spring Conservation Sensation; and provided trees for the Fremont EcoFair. The District budgets \$2,000 for Community tree development projects. The District did not assist a Community during the fiscal year.

FY 2024 Forestry, Range, and Wildlife Habitat Objectives

- Plant and distribute conservation trees and shrubs through the district’s Tree Planting Program.
- Continue to include tree planting as an eligible cost-share practice under the
- SWCP program.
- Offer trees and give staff presentations to elementary students across the district.
- Assist cooperators with signing up for Wildlife Programs.
- Cooperate with the Extension Service and the NRCS in obtaining tree orders from District residents.
- Provide cost-sharing for the conversion of cropland to grassland through the SWCP program.
- Cooperate with Pheasant Forever Chapters to enhance wildlife habitat and establish windbreaks.

FY 2025-2029 Forestry, Range, and Wildlife Habitat Long Range Objectives

- Increase tree and shrub sales and planting each year through the district’s Tree Planting Program for qualified property owners.
- Provide information and education on tree planting, woodland management, grassland management, and proper wildlife habitat enhancement through media, tours, and schools.

- Continue to administer Wildlife Habitat programs in cooperation with the Nebraska Game and Parks Commission and other partnering entities as opportunities arise.



FY 2023 Recreation Activities

Czechland Lake Recreation Area

Czechland Lake Recreation Area is a multipurpose project located one mile north of Prague, Nebraska on Highway 79. Flood control, recreation, and education are the main benefits of the project. Located at a convenient distance from Omaha, Lincoln, Fremont, and Wahoo, the 85 surface acre lake is situated on 265 acres of public access land operated and maintained by the LPNNRD.

State park permits and fees are not required for entrance to the area. Czechland Lake has 11 electrical camper pads at an \$18/night fee for the use of a camping pad. There are also three non-electrical pads. A Nebraska Fishing License is required for anglers. The lake fishery is managed by the Nebraska Game and Parks Commission, which stocks and monitors fish populations. Catfish, Bluegill, Northern Pike, and Largemouth Bass were initially stocked in Czechland Lake.

Originally built as one of twelve floodwater structures in the Cottonwood Creek Watershed, Czechland Lake has developed into one of the area's most popular recreation spots. The reservoir and recreation area development was built at a total cost of \$1.8 million. Funding for the project was shared by the Nebraska Natural Resources Commission, Saunders County, USDA Natural Resources Conservation Service, and LPNNRD. Grant monies from the U.S. Environmental Protection Agency have been used to reduce non-point source pollution entering the lake and to provide educational resources.

The Czechland recreation area was used extensively during FY 2023 generating approximately \$10,000 in camping revenue. Mowing, trash removal, repair, and upkeep of park equipment, and thistle control kept LPNNRD park staff very busy during the spring and summer.

Homestead Lake (Skull Creek Site #55)

Construction was completed on Homestead Lake in 2001. The dam offers flood control for nearby communities, and has been developed for public recreation. Recreation facilities include a shelter, restroom, picnic areas, a boat ramp, and hunting areas. FY 2023 proved to be another very popular year for recreationists as the area was extensively used.

Lake Wanahoo

Work was completed on recreation facilities at Lake Wanahoo one mile north of Wahoo in FY 2012. Recreation facilities at the 1,600 acre site straddle the 662-acre lake, with camping and boating access on the west side and a day use area on the east. A rocky hiking/biking trail winds throughout the park, linking the east and west side recreation areas over a breakwater levee one mile north of the dam. Mowed trails north of the levee provide access to undeveloped areas set aside for wildlife habitat.

The camping area contains 75 camper pads, 54 tent camping sites, and 6 primitive cabins. All camper pads are equipped with electrical hookups and are rock surfaced. All sites have fire rings and picnic tables.

The recreation area offers access to two large boat ramps wide enough to accommodate four boats at a time. Boating on the entire lake is no-wake only.

The day use area on the east side of the lake has two large picnic shelters and two smaller ones, all offering scenic views of the lake. In FY 2017 a dump station for RV's was constructed on the east day use area as well as a disc golf course/nature educational trail.

Both the camping and day use areas provide excellent fishing access, with a total of seven fishing jetties. One jetty on each side has an attached handicapped pier. The lake was stocked with largemouth bass, bluegill, blue

catfish, crappie, northern pike, and walleye beginning in 2008.

Limited hunting opportunities will continue to be available at Lake Wanahoo through the Game & Parks Commission PATH Program, where adults can schedule a time to mentor a youth hunter at designated hunting sites north of the recreation area.

The Lake Wanahoo Recreation Area was opened to the public in spring 2012. An operation and maintenance plan was developed with the assistance of the Nebraska Game and Parks Commission and Pheasants Forever in FY 2014 which identified activities that were implemented in 2015.

In FY 2019, LPNNRD assumed the responsibilities of administering Lake Wanahoo as a public recreation area from the Nebraska Games & Park Commission.

In FY 2020, the Clint Johannes Education Building was completed on the day use portion of the recreation area. This facility provides a protected outdoor education space for LPNNRD education activities, as well as a public rental facility for the public. Also in FY 2020, six new primitive cabins were installed in the primitive camping portion of the park to give visitors a unique alternative to tent camping.

FY 2025-2029 Recreation Long Range Objectives

- Continue to evaluate the development of new outdoor public recreational opportunities as they arise.
- Continue to assist NE Game & Parks and Pheasant Forever in developing new areas offering public access.
- Install a new fish cleaning station on the West side of Lake Wanahoo.

FY 2024 Recreation Objectives

- Continue to budget funds for maintenance, including grass mowing, tree trimming, grading roads, outhouse cleaning, trash removal, painting, and noxious weed control, at Lake Wanahoo, Czechland Lake, and Homestead Lake Recreation Areas.
- LPNNRD will continue managing all recreation at the Lake Wanahoo recreation area.
- Design and installation of 10-14 slip marina on west side of the lake. Marina will enable campers with boats the opportunity to keep their boats on the water during their stay.



It is the general policy of the LPNNRD not to provide financial assistance for drainage improvement and channel rectification unless a project has public benefit and is sponsored by a county, city, Drainage District, or a group of landowners through an established Improvement Project Area. Under this policy, the district has cooperated on several projects that have provided public benefit.

FY 2024 Drainage Improvement & Channel Rectification Objectives

- Worked with Colfax County to complete new Shell Creek South Channel Improvement/Benching Projects.
- Partnered with Dodge County and Fremont to support drainage improvements east of Fremont through FEMA.
- Partnered with the North Bend Drainage District, Dodge County, and City of Fremont to support the drainage improvement project for the North Bend drainage ditch through FEMA.
- Continue to oversee the Rawhide Creek West Branch Project to ensure that landowners properly control vegetation.
- Continue providing assistance to Platte Center with stabilizing segments of Elm Creek.

FY 2025-2029 Drainage Improvement & Channel Rectification Long Range Objectives

- Evaluate potential technical and funding assistance to counties, cities, and other entities in the district that sponsor sound drainage and channel improvement projects.



Over 30 years ago, vast changes occurred in Nebraska's solid waste regulations. Landfills that weren't properly designed, operated, or sited were required to shut down, as were unauthorized dumps. In order for a landfill to operate, it must be approved by the State and receive a permit. If a permit is not issued, the landfill cannot legally operate. Currently, the only permitted landfill in the Lower Platte North NRD is a facility near David City.

FY 2024 Waste Disposal & Pollution Objectives

- Promote recycling efforts in the district through education programs, newsletters, and news releases.
- Participate in education efforts to promote the reduction of pollution to our air, water, and soil resources.
- Cooperate and be supportive of other group and agency pollution control efforts, education, and/or regulation.

FY 2025-2029 Waste Disposal & Pollution Long Range Objectives

- Assist and encourage all District communities in establishing collection locations for recyclable wastes.
- Assist District cities and counties in establishing pickup days for hazardous household and farmstead wastes as opportunities arise.
- Promote waste reduction efforts in the district through education and incentives.



A major responsibility of the Lower Platte North NRD is to keep the public aware of the district's various projects and programs, and to inform and educate children and adults about the wise use and management of our natural resources.

FY 2023 Information & Education Activities

During fiscal year 2023, the Lower Platte North NRD conducted many activities to help residents learn the importance of our soil and water resources and to stay informed of issues and concerns regarding natural resources. Some of the highlights included the following.

Publications and Marketing

The NRD distributes two newsletters each fiscal year. The Winter issue of "The Viaduct" newsletter includes an additional page that contains the Annual Report. In FY 2012, the district switched distribution of "The Viaduct" newsletter from direct mail subscriptions to inserts in area newspapers. In FY 2023, more than 20,000 copies of each newsletter were distributed in eight newspapers and via email. Copies of the newsletter are also available on the website at www.lpnrd.org/downloads.

Various brochures describing LPNNRD programs and services were updated as needed in FY 2023. These brochures are displayed in the office and distributed during LPNNRD sponsored events and exhibit booths.

Press releases are distributed to district newspapers, email lists and radio stations. Numerous ads spotlighting different NRD programs and upcoming deadlines air on KTIC Radio throughout the year. Digital ads on the Wahoo newspaper website continued in FY 2023. In FY 2020, the LPNNRD began airing 30-second program commercials on News Channel Nebraska covering the various

departments of the LPNNRD. In FY2023, a recreation video featuring Czechland Lake, Homestead Lake, and Lake Wanahoo was produced and aired on News Channel Nebraska.

The NRD continues to maintain information and education outreach for the district through the use of social media outlets on Facebook, Twitter, and YouTube. These outlets are maintained weekly and provide information along with photos and videos about the district's ongoing activities and events.

Website

The NRD's website at www.lpnrd.org contains information on nearly all of the district's projects and programs, along with staff information, board of directors information, as well as committee and board meeting minutes, and district publications. Online applications and registration forms for various projects and programs are also available. Additionally, online payment capabilities continue to allow customers to pay for trees, rural water bills, and Lake Wanahoo permits. The website continues to be updated frequently.

Video Promotion

Beginning in FY 2018, 60-second, and 30-second videos were created to promote the conservation efforts of departments of the NRD. Past directors, current directors, and current staff have been featured in the videos. Promotional videos have been created for the Water Department, Operations & Maintenance department, Projects department, Information and Education department, and the three LPNNRD recreation areas (Czechland Lake, Homestead Lake, and Lake Wanahoo). Clips from all of the videos are combined to create one video that features portions of each department at the LPNNRD. These videos are shown as educational purposes for presentations, on the LPNNRD website,

commercials through area television stations, and featured on social media platforms.

Education Programs

During FY 2023, the district continued with two year-long programs. The St. Wenceslaus Pre-kindergarten students learn about wildlife, trees, birds, soil and water conservation through books, pictures, stories, and hands-on activities. The students visited Lake Wanahoo at the end of the year for a field trip filled with nature hikes, nature crafts, and disc golf. The district teamed up with Wahoo Public middle school students for the Survival Club program, making a total of three school years of the program. LPNNRD staff and other outdoor enthusiasts met monthly with students during the school year to learn about hiking, knot tying, 2-legged predators, 4-legged predators, fishing, first aid, foraging for wild foods, fire building and other outdoor survival skills. Opening up the program to the whole middle school had student attendance consistent with almost 30 students for the campfire building exercise and an average of 10 students per month. The end of the year camp out at Lake Wanahoo will be a priority in FY 2024. Trinity Lutheran Middle School met with Staff at Lake Wanahoo for a half day event, where we worked through survival club activities such as knot tying, 2 and 4 legged predators, everyday carry kits, foraging for wild foods, campfire building, and campfire cooking.

The district continues to participate in the Career Exploration Opportunities (CEO) Program with Wahoo Public Schools. During the fall semester of 2023, LPNNRD staff hosted one high school senior and he rotated between each department to learn about the LPNNRD responsibilities. The district will host another student during the fall of FY 2024. This student will be with staff every day from 1:30-3:30 but will drop down to three days a week starting in November.

The Clint Johannes Education Building is utilized for events of all kinds. Local teachers and other organizations will use it for their

students and staff as a meeting space with a great view and amenities. The LPNNRD utilizes the building for educational events each month. The event, Coffee Lakeside, has impacted close to 100 people, who meet in the building once a month. Topics included wildflowers, fireflies, animal adaptations, fall activities, phenology, nature based play, lake ecosystems, water flower identification, fungi, and more. All other NRD related events are also hosted in the building or another location at Lake Wanahoo.

Seven new events were held at the LPNNRD with a total of 10 held throughout the fiscal year. Wildflowers and Wine and All About Bees were two repeating events that continue to draw in large crowds. These events center around pollinators, their habitat, and how we can continue to provide natural places on both small and large scales to aid in the conservation of these species. The new events offered were: Trivia and Game Nights; Back to School Night; 1st Annual Fall Festival; Native American Heritage Day; Natural Resources Camp; Community Fishing Event; and Nocturnal Nights. These events drew in participants of all ages with some returning and some new individuals. Staff also participated in the county-wide, Kid's Summer Institute, that ran all of June. Students participated in dip netting for macroinvertebrates; birding; disc golf; nature journaling; and wild about wildflowers. These classes were held at Lake Wanahoo. Staff met with North Bend Public Library and Yutan Public Library for story time hours where owl pellets were dissected and birds were studied. Some of the FY 2023 events were made possible by partnerships with other agencies, organizations, and businesses. Strengthening these relationships and exploring new ones will continue to be a goal for FY 2024.

The Lower Platte North NRD and Lower Platte South NRD rotate in hosting the East Central Land Judging Contest. Land Judging is a competition for high students that challenges them to gain a better understanding of soil structure and land evaluation. The Lower Platte North NRD works with local NRCS employees to choose a site location and help with site

preparation. The Lower Platte North NRD staff and NRCS staff will assist in the preparation, contest monitoring, and scoring efforts during the contest. The East Central Land Judging Contest was held by Lower Platte North NRD on October 5th, 2022. 253 students competed in this event. The Area 5 Range Judging Contest was also held in FY 2023, where staff at the LPNNRD helped host the competition. 260 students competed in this event that was held at Camp Moses Merrill.

The annual LPNNRD Spring Conservation Sensation was held on May 3rd at Lake Wanahoo. Fifth and sixth grade students from Saunders, Butler, and Dodge Counties participated in various activities. Hands-on activities were presented by LPNNRD staff, additional personnel from various agencies and organizations, and volunteers to teach students about the environment, natural resources, tree planting, lake ecosystems, wildlife education and more. 300 students attended the event.

The second annual LPNNRD Natural Resources Camp was held at Lake Wanahoo. For one week, attendees learned how to fish, how to go birding, about the amphibians and reptiles of Nebraska, and insects, both macroinvertebrates they found in the lake and the land dwelling butterflies and moths. Eight boys attended the week-long camp. The hands-on activities were the students favorite parts per their evaluations and they are looking forward to returning next summer. The goal for FY 2024 is a full camp of 15 attendees, and new activities such as fire starting and campfire cooking, and archery.

Test Your Well Event is a program that partners with area FFA chapters to host public events, providing nitrate testing of water samples from private wells at no cost to the attendees. The district held 3 events in FY 2023 that involved over 20 students. The goal for FY 2024 is to have every FFA chapter in our district host a test your well night.

Staff at the LPNNRD went into 29 classrooms, attended 2 outdoor classrooms days, held 6 field trips, and interacted with every grade level Pre-K through 12th. Four new schools,

Aquinas Catholic, Trinity Lutheran, Lindsay Holy Family, and Fishers School (Schuyler), invited us into their classrooms this year amongst other schools we've previously attended. Some of the goals for FY 2024 involve finding teachers in school districts such as North Bend, Mead, or Yutan, where we haven't previously been to, and work with them to bring fun and educational activities to their classrooms. Staff is also pushing Coffee Lakeside out of Wahoo and into other communities. North Bend Public Library will be hosting a Coffee Lakeside in the fall of FY 2024.

District staff provided various presentations and activities during natural resources festivals, field days, out-of-school time programs, school classrooms, online activities on the LPNNRD website, and adult education events. As a result of the district's educational outreach efforts, there was interaction with approximately 2,774 youth and 300 adults in FY 2022. These numbers do not include the 513 students who participated in Land and Range Judging. The interactions this fiscal year brought us to over 1,000 more student participants than the previous year. LPNNRD will strive for even more interactions in the years to come.

Awards, Contests, and Events

In addition to marketing efforts, the LPNNRD provides a physical presence with exhibit booths at local county fairs, agriculture expos and other events across the district. In FY 2023, exhibit booths were displays at the Soybean Day in Wahoo, Fremont Corn Expo, Career Fair at Midland University, Fremont Eco Fair, and Butler County Fair. Donations were provided to the Saunders County Fair and Dodge County Fair. Materials at the events included brochures of the NRD's projects and programs, and various promotional items.

The Lower Platte North NRD offers three \$1,000 scholarships for graduating seniors who have been involved in the Shell Creek Watershed Monitoring Program and plan to pursue higher education relating to science or natural resources. The Shell Creek Watershed

Improvement Group (SCWIG) prioritizes education outreach to improve public awareness of the project and encourage conservation with best management practices. Newman Grove High School, Lakeview Community Schools, and Schuyler Central High School are involved with the conservation efforts in the watershed. The students spend their summers collecting samples and measurements, analyzing data, and reporting results to determine water quality of the stream.

FY 2024 Information & Education Objectives

- Publish the district newsletter “Viaduct” biannually in an electronic format and as a printed newspaper insert in 10 area newspapers.
- Send timely news releases to the local media on various LPNNRD programs, projects, and activities.
- Disperse pamphlets and other publications about LPNNRD programs.
- Update the district’s website frequently.
- Continue to provide a display at county fairs or agriculture events (up to five major counties) within the district.
- Continue information and education outreach for the district through the use of tools such as local radio stations, local TV stations, and social media outlets (Facebook, Twitter, YouTube, etc.).
- Continue with the annual awards and recognition program.
- Provide district elementary students with free trees, as requested, in the spring.
- Provide LPNNRD staff as requested to speak to community organizations and schools on NRD activities and environmental topics.
- Provide various education programs, events, and activities to area schools and out-of-school time programs.
- Host the East Central Region Land Judging Contest in the fall of 2022.
- Host the 32nd Spring Conservation

Sensation in May 2023.

- Develop new programs and promotional projects to aid in outreach efforts of the district.
- Develop a video for the three recreation areas in the district.
- Provide assistance and publications for the students involved in the Shell Creek Watershed Monitoring Program.
- Continue to provide a scholarship for graduating seniors in the Shell Creek Watershed Monitoring Program who plan to pursue higher education relating to science or natural resources.

FY 2025-2029 Information & Education Long Range Objectives

- Search for new and effective ways to inform and educate the public on the NRD purpose and programs.
- Participate with the Information & Education Staff Group to coordinate statewide I&E activities and produce statewide products.
- Increase participation in activities sponsored by other agencies relating to the NRD’s responsibilities.
- Seek to have conservation/environmental education as a part of the school curriculum.
- Support environmental education activities and events throughout the district, and neighboring NRDs.
- Provide assistance for the East Central Region Land Judging Contest in the fall of 2023, hosted by Lower Platte South NRD.
- Assist in the development of an outdoor classroom for a district school.
- Partner with district schools to host Test Your Well Events annually.



LPNNRD Staff

The staff of the Lower Platte North NRD includes 19 full-time and 11 part-time/seasonal employees. The NRD administers a full-time field technician, four field office assistants in Natural Resource Conservation Service county offices, and a Recreation Facilitator for Czechland & Homestead Lake Recreation Areas.

Included in the part-time positions, the district employs seasonal conservation technicians to assist in the layout of land treatment structures. There are seasonal summer employees hired to help with Lake Wanahoo, water sampling, tree planting, and maintenance of LPNNRD projects. Personnel positions and assigned responsibilities may increase in the future as increased project and program responsibilities increase.

Current staff as of September 1, 2023:

Sydney Abbott, **Education Coordinator**
 Daryl Andersen, **Water Resources Manager**
 Jill Breunig, **Bookkeeping Department Head/Administrative Assistant**
 Will Brueggemann, **Water Resources Specialist**
 Ryan Chapman, **Assistant General Manager**
 Duke Dokulil, **Operations & Maintenance Technician**
 Sean Elliott, **Projects/Rural Water Manager**
 Noah Franzen, **Water Resources Specialist**
 Eric Gottschalk, **General Manager**
 Bob Heimann, **Operations & Maintenance Manager**
 David Moore, **Operations & Maintenance Technician**
 Russell Oaklund, **Lead Water Resources Specialist**
 Dave Odvody, **Recreation Facilitator**
 Karen Rezac, **Department/Administrative Assistant**
 Lacey Sabatka, **Information Coordinator**
 Bret Schomer, **Wanahoo Recreation Supervisor/Water Resources Specialist**
 Drew ten Bensel, **Grants/GIS**

Staff Support for NRCS Offices:

Adam Brockman, **Conservation Technician**
 Kimberly Piitz, **NRD/NRCS Field Office Assistant (Butler County)**
 Kristin Miller, **NRD/NRCS Field Office Assistant (Colfax County)**
 Jessica Marty, **NRD/NRCS Field Office Assistant (Dodge County)**
 Marla Milliken, **NRD/NRCS Field Office Assistant (Saunders County)**

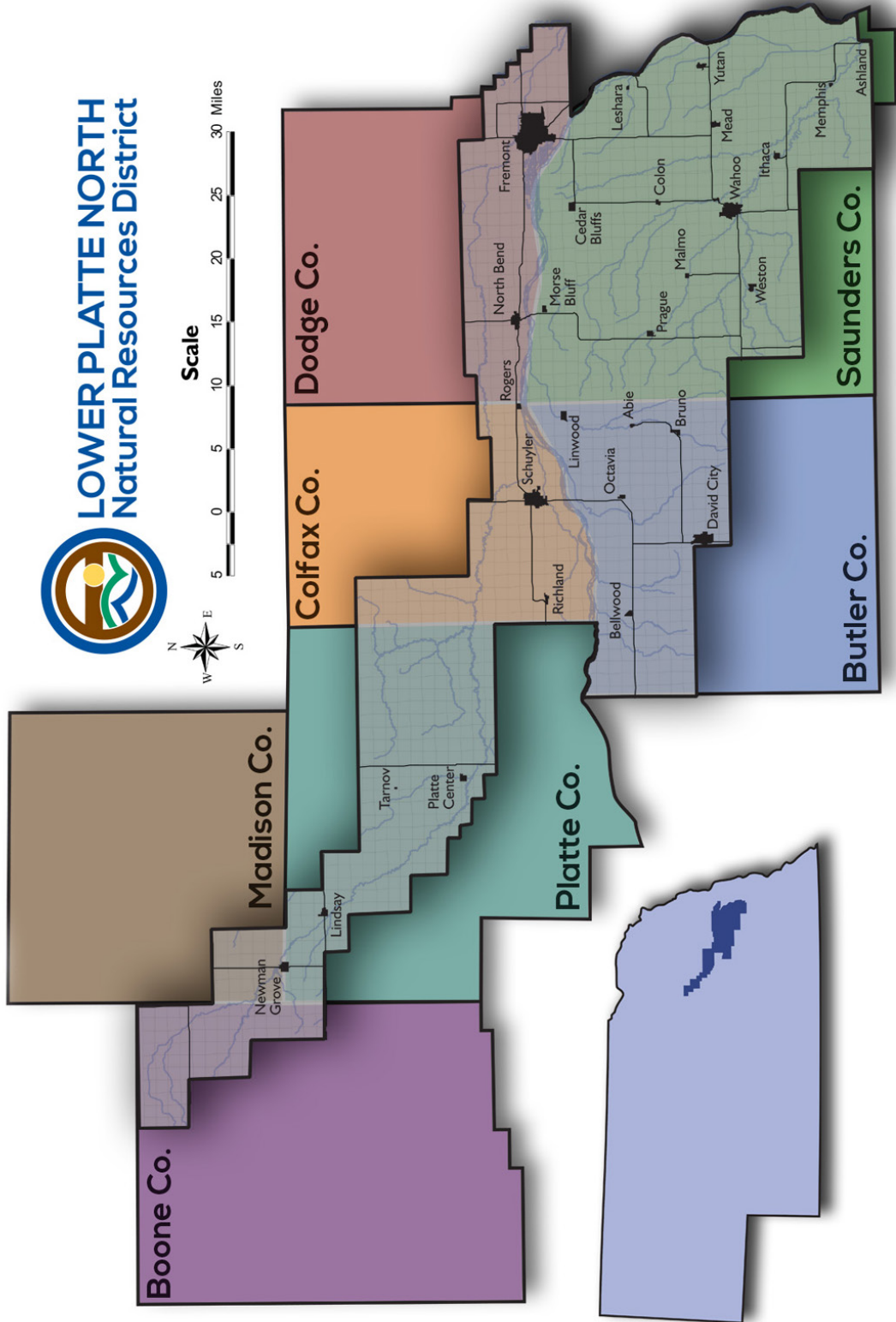


FY 2024 Financial Objectives

- Funding required for the LPNNRD projects and programs for Fiscal Year 2024 requires a general operating budget of \$ 8,761,805 of which \$ 3,480,715 is required from the district's local tax levy. The FY 2024 tax levy of .028652 cents per \$100 actual valuation is required from District property. Projected expenses and income for FY 2024-2029 are shown in Appendix F.
- A tax levy of .028652 means that an owner of a \$150,000 home will pay \$ 42.98 in NRD taxes in FY 2024. An owner of farm land valued at \$7,000 per acre will pay \$ 2.00 an acre/year to the NRD in FY 2024. The LPNNRD levy represents about two percent of the total property tax collected.

FY 2025-2029 Financial Long Range Objectives

- Although it is expected that the amount of revenue from all sources will fluctuate during the next few years, it is anticipated that the LPNNRD will operate at a mill levy between \$0.035 and \$0.055 per \$100 actual valuation as the District continues to assist with flood reduction project priorities and to address our responsibilities with groundwater water quality and quantity management.



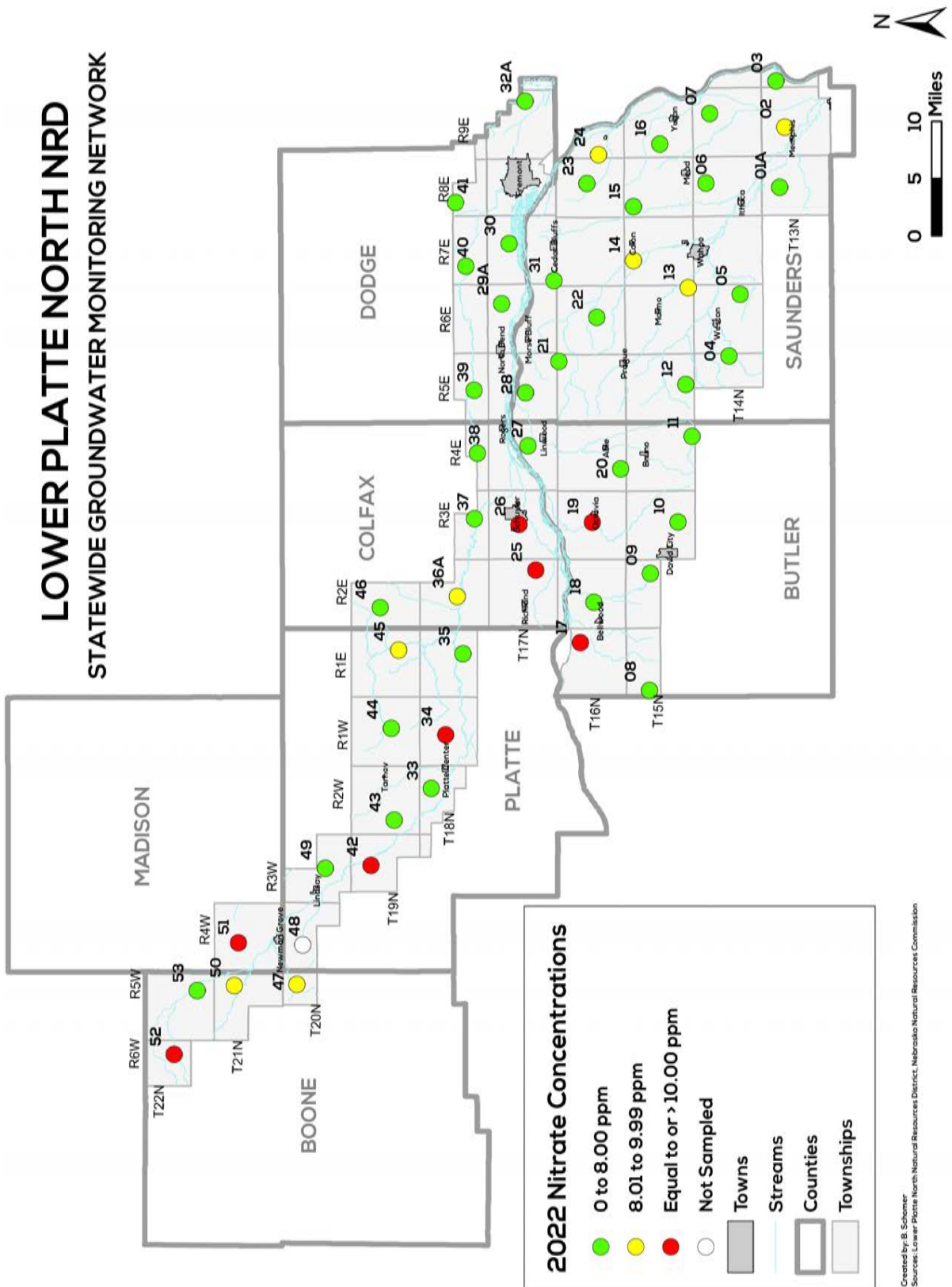


APPENDIX B – Estimated Population by County

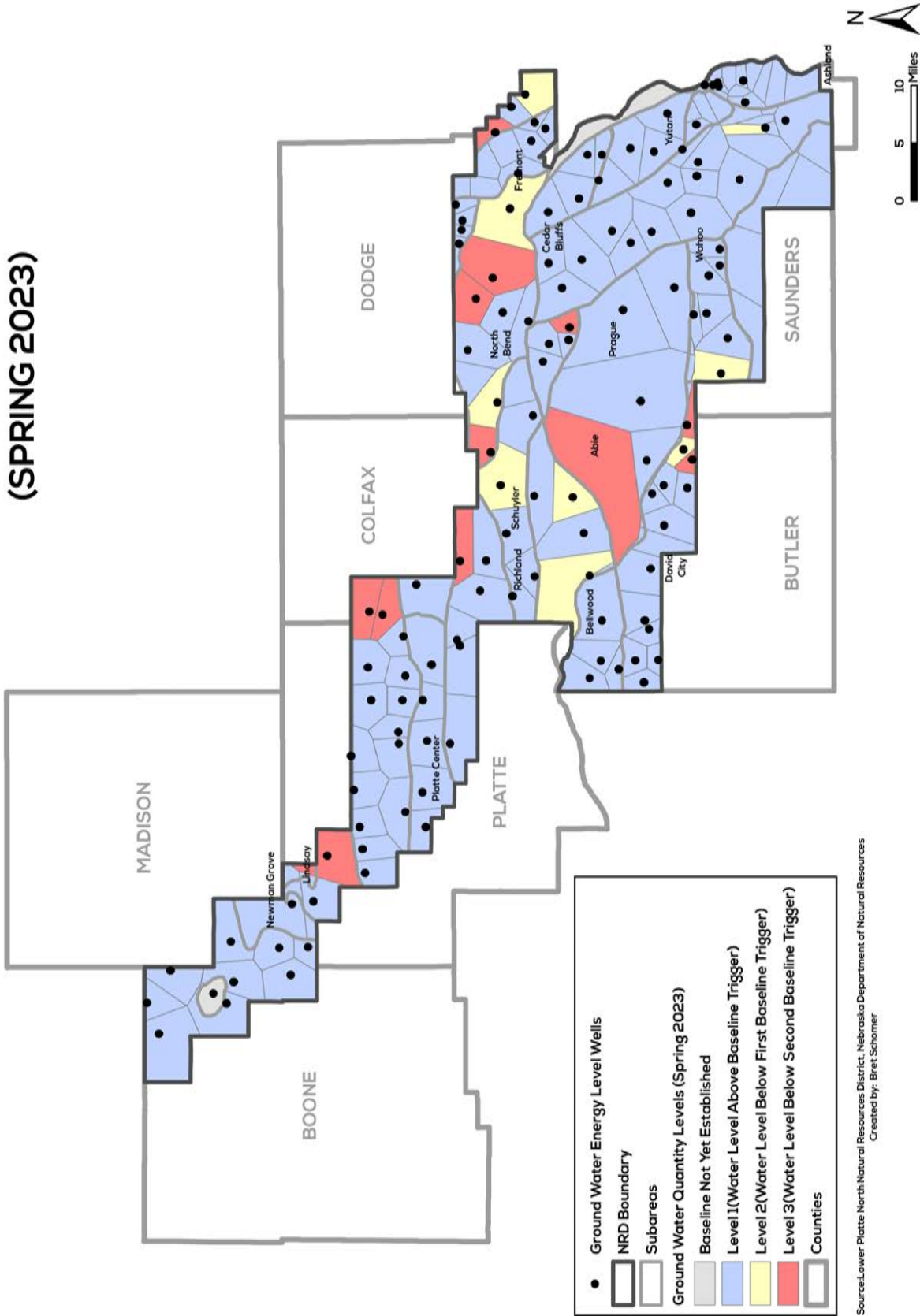
COUNTY	% OF COUNTY IN DISTRICT	ACRES IN DISTRICT	RURAL POPULATION IN DISTRICT	URBAN POPULATION IN DISTRICT	TOTAL
Boone	12.78	56,175	173	0	173
Butler	44.38	167,700	1,815	3,763	5,578
Colfax	40.76	108,582	1,069	6,699	7,768
Dodge	31.96	111,147	3,017	28,800	31,817
Madison	6.25	22,998	155	667	822
Platte	37.78	165,401	2,196	668	2,864
Saunders	81.39	395,098	7,477	8,948	16,425
TOTAL		1,027,101	15,902	49,545	65,447

Twenty-eight cities, towns and villages are located within the Lower Platte North NRD, listed below with their populations (according to 2020 United States Census):

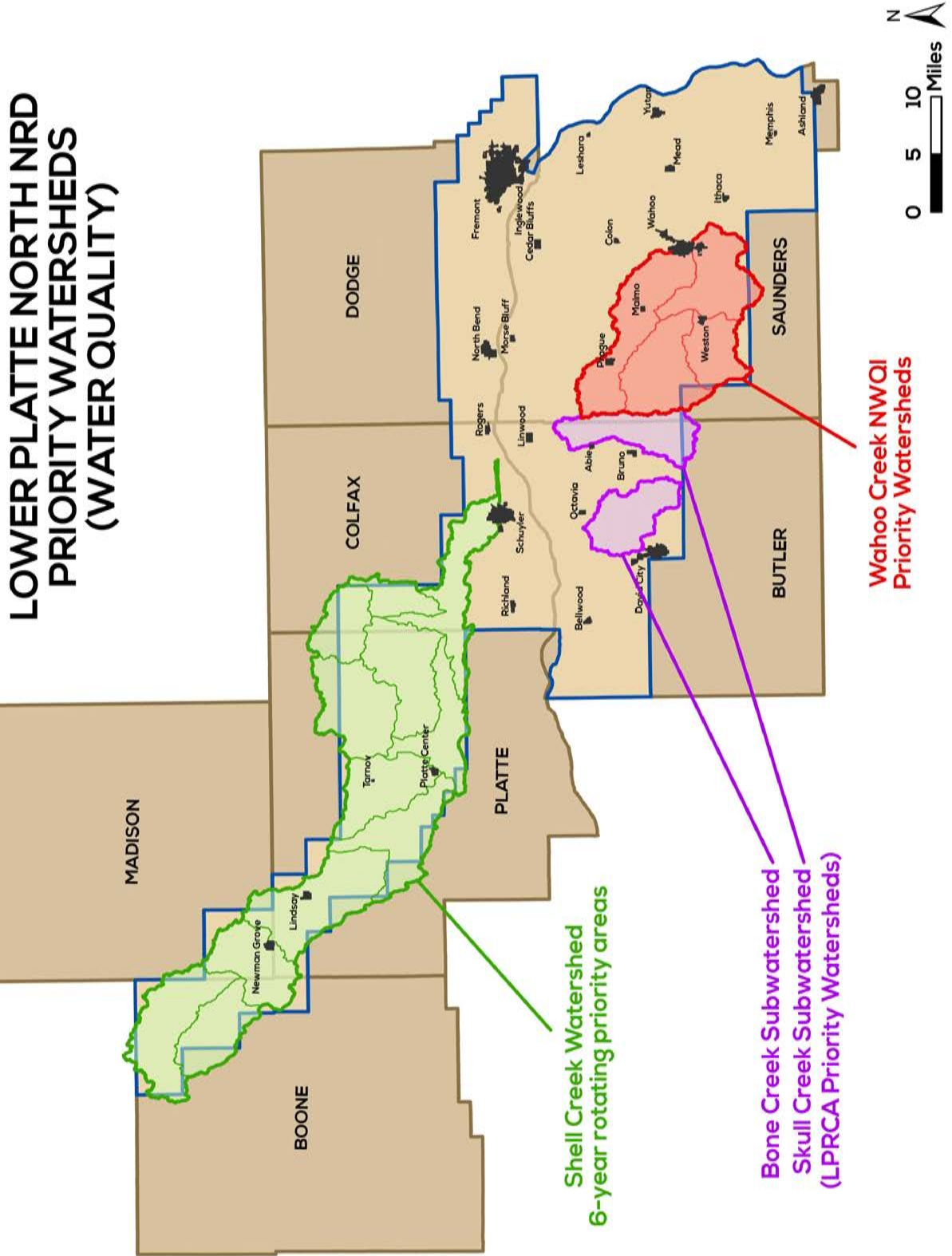
Abie	65	Memphis.....	109
Ashland	3,086	Morse Bluff	117
Bellwood.....	407	Newman Grove.....	667
Bruno	95	North Bend.....	1,279
Cedar Bluffs	615	Octavia	107
Colon.....	107	Platte Center	333
David City.....	2,995	Prague	291
Fremont	27,141	Richland	70
Inglewood.....	380	Rogers.....	82
Ithaca	160	Schuyler	6,547
Leshara	108	Tarnov	52
Lindsay	283	Wahoo	4,818
Linwood	94	Weston	250
Malmo	94	Yutan.....	1,347
Mead.....	617		



**LOWER PLATTE NORTH NRD
GROUNDWATER ENERGY LEVEL NETWORK
(SPRING 2023)**

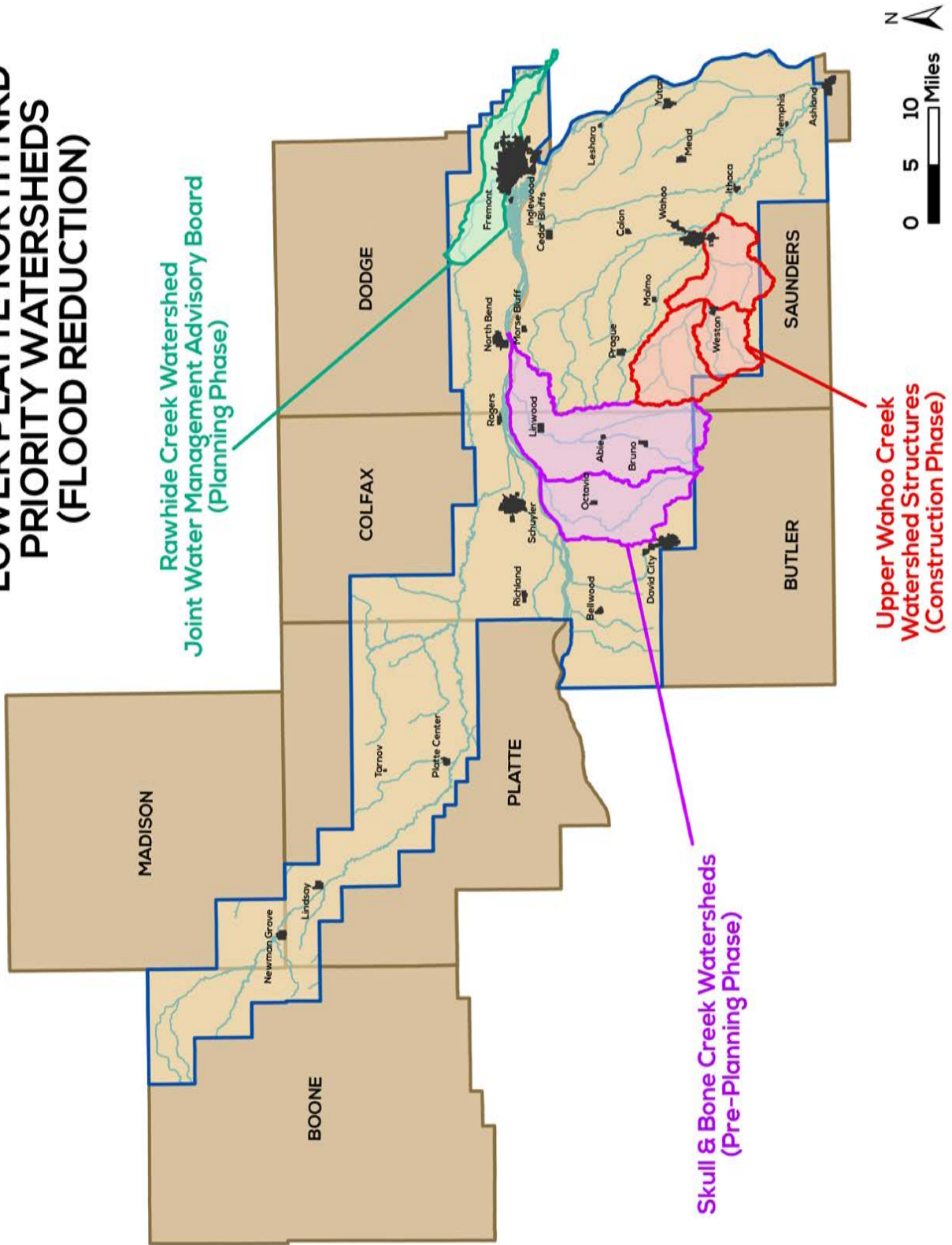


Source: Lower Platte North Natural Resources District, Nebraska Department of Natural Resources
Created by: Bret Schomer





LOWER PLATTE NORTH NRD PRIORITY WATERSHEDS (FLOOD REDUCTION)



APPENDIX G – Projected Budget Income, Fiscal Years 2024-2029



Description	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
AVAILABLE CASH (Sinking Funds, etc.)	\$304,410	\$812,848	\$869,898	\$913,392	\$959,062	\$1,007,015
FEDERAL INCOME						
NRCS (WFPO & RCPP)	\$499,610	\$3,500,000	\$5,000,000	\$2,000,000	\$0	\$0
FEMA (Stilling Basin)	\$2,709,600	\$0	\$0	\$0	\$0	\$0
FEMA (Flood Funds)	\$392,500	\$0	\$0	\$0	\$0	\$0
NDEE (EPA 319)	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000
State JEDI Funds	\$1,000,000	\$2,000,000	\$4,000,000	\$4,000,000	\$4,000,000	\$0
STATE INCOME						
NE Buffer Strip Program	\$52,000	\$54,000	\$56,000	\$58,000	\$60,000	\$0
Decommissioned Well Fund	\$3,500	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000
Natural Resource WQ Fund	\$52,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
Shell Creek Implementation	\$43,829	\$10,000	\$10,000	\$0	\$0	\$0
Water Sustainability Fund	\$133,031	\$500,075	\$500,075	\$500,075	\$0	\$0
Sand Creek - NRDF	\$22,000	\$0	\$0	\$0	\$0	\$0
Lake Wanahoo Other	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
Wild NE	\$3,820	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000
Motor Vehicle Prorate	\$8,400	\$8,400	\$8,400	\$8,400	\$8,400	\$8,400
OTHER INCOME						
Rural Water Income	\$134,000	\$140,000	\$143,000	\$150,000	\$150,000	\$150,000
Property Tax	\$3,480,715	\$3,480,715	\$3,480,715	\$3,480,715	\$3,480,715	\$3,480,715
Investment Income	\$125,000	\$125,000	\$100,000	\$100,000	\$100,000	\$100,000
Equipment, Rent, Parks, Salaries, Etc.	\$625,192	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000
Local Income	\$118,940	\$130,000	\$130,000	\$130,000	\$130,000	\$130,000
TOTAL	\$9,928,547	\$11,539,038	\$15,078,088	\$12,118,582	\$9,666,177	\$5,654,130



APPENDIX H – Projected Budget Expenses, Fiscal Years 2024-2029

ADMINISTRATION						
	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Bonds	\$100	\$100	\$100	\$100	\$100	\$100
Dues & Memberships	\$39,000	\$40,000	\$41,000	\$43,000	\$44,000	\$45,000
Fees & Licenses	\$11,465	\$11,924	\$12,401	\$12,897	\$13,200	\$13,200
GIS	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
Insurance	\$76,174	\$79,221	\$82,390	\$85,685	\$89,113	\$92,677
Interest Expense	\$	\$0	\$0	\$0	\$0	\$0
Legal Notices	\$,812	\$2,925	\$3,042	\$3,163	\$3,290	\$3,421
Maintenance Contracts	\$5,356	\$5,570	\$5,793	\$6,025	\$6,266	\$6,516
Office Supply & Expense	\$12,276	\$12,767	\$13,278	\$13,809	\$14,361	\$14,936
Computer Supply & Expense	\$32,000	\$33,000	\$34,000	\$35,000	\$36,000	\$37,000
Postage	\$7,030	\$7,312	\$7,604	\$7,908	\$8,225	\$8,554
Professional Services	\$140,000	\$142,000	\$142,000	\$144,000	\$148,000	\$149,000
Rent Expense	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
Support to Organizations	\$1,300	\$1,400	\$1,500	\$1,600	\$1,600	\$1,600
Telephone	\$20,659	\$21,485	\$22,344	\$23,238	\$24,168	\$25,134
Utilities	\$9,194	\$9,561	\$9,944	\$10,342	\$10,755	\$11,185

INFORMATION & EDUCATION						
	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Education	\$12,438	\$12,936	\$13,453	\$13,992	\$14,551	\$15,133
Information	\$32,394	\$33,690	\$35,037	\$36,439	\$37,896	\$39,412
Scholarships & Grants	\$3,245	\$3,375	\$3,510	\$3,650	\$3,796	\$3,948
Other	\$10,546	\$10,967	\$11,406	\$11,862	\$12,337	\$12,830

OPERATION & MAINTENANCE						
	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Auto & Truck Expense	\$23,795	\$24,747	\$25,737	\$26,766	\$27,837	\$28,950
Building Maintenance	\$10,059	\$10,461	\$10,880	\$11,315	\$11,767	\$12,238
Community Forestry Program	\$2,500	\$2,500	\$3,000	\$3,000	\$3,000	\$3,000
Operation & Maintenance	\$310,149	\$322,555	\$335,457	\$348,875	\$362,830	\$377,343
Project Repairs	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
Stream Bank Stabilization	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
Wildlife Habitat	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
Other	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000

PERSONNEL						
	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Directors Expense	\$41,858	\$43,532	\$45,274	\$47,084	\$48,968	\$50,927
Directors Per Diem	\$38,000	\$38,000	\$38,000	\$38,000	\$38,000	\$38,000
Employee Benefits	\$500,781	\$520,812	\$541,645	\$563,310	\$585,843	\$609,276
Payroll Taxes	\$100,589	\$104,612	\$108,797	\$113,149	\$117,675	\$122,382
Personnel Expense	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000
Salaries	\$1,342,880	\$1,383,166	\$1,424,661	\$1,467,401	\$1,490,000	\$1,540,000

APPENDIX H – Projected Budget Expenses, Fiscal Years 2024-2029



PROJECTS

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Inter-governmental	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000
Special Projects	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000
Wanahoo	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
Other Projects	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000

PLATTE RIVER CORRIDOR ALLIANCE

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
WQ Monitoring	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000

WATER

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Groundwater Management Plan	\$50,000	\$60,000	\$65,000	\$70,000	\$75,000	\$75,000
Groundwater Programs	\$195,932	\$203,769	\$211,920	\$220,397	\$229,213	\$238,381
Regulatory	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
Surface Water Programs	\$18,000	\$18,000	\$18,000	\$18,000	\$18,000	\$18,000
Special Projects	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
Land Treatment	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000

RURAL WATER DISTRICT

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Rural Water District	\$150,580	\$156,604	\$162,868	\$169,382	\$176,158	\$183,204

CAPITAL IMPROVEMENTS

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Wanahoo Stilling Basin & Oversight	\$0	\$0	\$0	\$0	\$0	\$0
Wanahoo Improvements	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
Wahoo Creek Dams	\$1,277,500	\$3,500,000	\$2,450,000	\$2,100,000	\$0	\$0
Land Rights (Wahoo Creek)	\$547,500	\$1,500,000	\$1,050,000	\$900,000	\$0	\$0
Fremont/Dodge County Drainage	\$440,000	\$440,000	\$440,000	\$440,000	\$440,000	\$0
Skull/Bone Creek	\$0	\$0	\$0	\$400,000	\$400,000	\$400,000
Cottonwood 21A Spillway	\$50,000	\$50,000	\$0	\$0	\$0	\$0
Buildings	\$500,000	\$500,000	\$500,000	\$40,000	\$40,000	\$40,000
Large Structure O&M Sinking Fund	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
Flood Reduction Sinking Fund	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000

CAPITAL OUTLAY

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Capital Outlay	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000

BUDGET TOTAL

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
BUDGET TOTAL	\$8,514,111	\$11,804,990	\$10,370,038	\$9,929,389	\$7,029,947	\$5,189,749



July 12, 2023

Dear LPNNRD Board of Directors and General Manager Eric Gottschalk,

The Village of Colon is trying to create a Community Park. Colon does not have a park, a playground, or an outdoor gathering place for the community. During the Covid-19 Epidemic, we became painfully aware that there was no place to gather outdoors. And also no place for children to play.

The Village Board has been working for several years towards the goal of creating a small park for family gatherings and a recreational area for children to play. We have managed to buy and pay for a vacant parcel of land located at 2nd and Pine Streets. It is not a very large piece of property, but it is a place to start. We hope that someday, we will be able to purchase additional nearby property and expand its size in phases.

We had heard that the LPNNRD sometimes has made donations to a community project within their district or area. If the LPNNRD does at times contribute to certain projects within their district, we would like to ask on behalf of the Colon Community for any contribution the LPNNRD may provide for this much-needed addition to the Community.

We have a preliminary design plan developed that includes a small area for adults and family gatherings with outdoor seating. A small playground with just a few pieces of equipment for children. And a half-basketball court for older children and teens. Of course, a park should also have landscaping with trees and other plantings and some type of safety rubber surfacing for the play area. Until the final design plan is completed, we do not have a precise estimate of the cost but are fully aware we will need help with funding the project.

The Village of Colon has very few resources for funding, but we have managed to create a park fund that currently has just under \$26,000. Realistically, we know this project is going to be an uphill battle to fund, but the town and its residents are involved and want to make this happen. We will continue to apply for grant funding, will have fundraisers, and will solicit donations.

Village of Colon
Board of Trustees
P.O. Box 10
Colon, Nebraska 68018
(402) 443-6251
villageofcolon@yahoo.com



Colon has made significant improvements over the last several years, several new homes have been built within our zoning jurisdiction, with two being built now, and one or two others being planned. Properties have been cleaned up, and businesses have made substantial aesthetic improvements. With all these considerable improvements, the town's real property valuation has more than tripled in the last several years, and with our continued efforts, we hope to continue to grow and create a nice environment where families will choose to live and build new homes.

When the Colon Village Board and the community began to consider building a park and playground, we focused on the human side of the benefits of providing a place for physical activity and social interaction, and then we considered the environmental benefits, but eventually, we realized the fact that parks and playgrounds can have a positive effect on home values and the desirability of living in a town with a park.

As the LPNNRD is the owner of the Colon Rural Water System, creating a community park may very well benefit the LPNNRD with the possibility of future new homes and new water utility customers and generating a higher income for the Colon Rural Water System. Also, the revenues of the state, local, and government entities with taxing authority, can increase as a result of new homes and the increased valuation of property, generating higher tax revenue.

We feel the creation of a community family park is a valuable investment in the desirability to live in Colon. We would like to thank you in advance for your time and consideration of the possibility of becoming involved with the creation of a "Colon Community Family Park".

Sincerely,

The Village of Colon Board of Trustees

Village of Colon
Board of Trustees
P.O. Box 10
Colon, Nebraska 68018
(402) 443-6251
villageofcolon@yahoo.com

**AGREEMENT FOR
LAKE WANAHOO ARCHERY RANGE
FOR PUBLIC USE BETWEEN
LOWER PLATTE NORTH NATURAL RESOURCES DISTRICT
BIG GAME CONSERVATION ASSOCIATION**

This Agreement (hereinafter named Agreement") is made by and among the following Parties:

Lower Platte North Natural Resources District (LPNNRD)
Big Game Conservation Association (BGCA)

All of such parties hereinafter being referred to collectively as "Partners".

WHEREAS:

LPNNRD in coordination with Eagle Scout Henry Waverka and Troop 405 has developed an archery range on Lake Wanahoo publicly owned property.

BGCA's mission is to provide bi-annual maintenance as a co-sponsor to the archery range to ensure that the range is safe, hazard free and functional for all public use which contributes to our recreational, hunting heritage and education.

This agreement is not intended to create either a legal partnership nor a joint venture between the Partners. Rather, the document shall prescribe responsibilities for each entity in reaching their shared goal of providing certain recreational activities on Lake Wanahoo.

THEREFORE, in consideration of the foregoing recitals and their mutual covenants hereinafter expressed, the Partners agree as follows:

1. Authority:

The Partners desire to work together to enhance a designated area on Lake Wanahoo property for a public archery range and make the most efficient use of their respective powers by cooperating on a basis of mutual advantage. In furtherance of this cooperative effort the Parties desire to enter into this Agreement with one another for joint and cooperative action for any power or powers, privileges or authorities exercised or capable of exercise individually by them. It is understood, however, that the LPNNRD is the title holder to the reach estate and thus shall have the discretion to modify or otherwise limit the activities located within the designated area provided that it in doing so it cannot impose additional responsibilities upon BGCA without their express consent.

2. Archery Range Establishment

The LPNNRD will allow Henry Waverka and Troop 405 to:

- a. Install four (4) archery range targets at 10, 20, 30, and 40 yards.
- b. BGCA will provide all materials for construction of the archery range.

3. Archery Range Maintenance

BGCA agrees to provide needed repairs and maintenance to the archery range targets. "Annual Maintenance" shall mean maintaining the structures (targets) each Spring (March) and Summer (August) before Fall archery seasons assuring, they are safe to the public and equipment. If proper maintenance is not completed in a timely manner LPNNRD will notify BGCA of needed repairs and/or maintenance and after 15 days if not completed, the LPNNRD will have the discretionary option to do the maintenance and invoice BGCA. Alternatively, the LPNNRD shall have the authority to discontinue this activity. LPNNRD will provide maintenance to the grounds such as mowing, spraying, and additional materials such as rock.

4. Funding:

All labor and costs associated with establishing a 40-yard archery range will be provided by Troop 405 and BGCA. BGCA and/or another sponsor also agree to provide all costs required for archery target repairs and maintenance.

5. Effective Date:

This Agreement becomes effective upon execution by both Partners. The original copy of this Agreement will be maintained as part of the records of LPNNRD, with a copy being mailed to BGCA.

7. Duration of Agreement:

This Agreement shall extend from the date of execution by both Partners and will remain in effect until one or both Partners wish to terminate the Agreement. This Agreement may be terminated at any time upon a 30-day written notice. Upon termination, BGCA agrees find another sponsor to do the maintenance upkeep on the archery range and leave subject area in good repair, as directed by LPNNRD, within 30 days after receiving notice of agreement termination. If not completed within the 30-day period, LPNNRD will complete needed tasks at a fair and reasonable cost then bill BGCA.

8. Amendment of Agreement:

This Agreement may be amended at any time, subject to written approval of such amendment by both Partners, provided that no amendment shall, directly or indirectly, affect or impair any contracts or agreements agreed upon in writing prior to the effective date of such amendment.

9. Indemnification:

The Partners assume no liability under this Agreement unless expressly accepted herein. Each party agrees to defend the other from and against all liabilities, obligations, losses, damages, claims, and demands arising from the acts of its respective officers, agents, or employees.

10. Default and Dispute:

If any party to this agreement believes that the other is in default of any term or condition of this Agreement, said party shall send written Notice of Default to such party. Failure of the defaulting party to cure a default under this Agreement within thirty (30) days after receipt of the written notice thereof, shall entitle the other party to proceed to take action necessary to cure the default and bill the defaulting party for all costs associated with such cure. If in the event that any dispute or controversy arising out of or relating to this Agreement occurs, the parties shall mutually attempt to mediate such dispute. If no resolution is reached at mediation, the parties may then proceed with a court action against the other at the Saunders County District Court.

IN WITNESS WHEREOF, each Partner has caused this Agreement to be executed by its duly authorized officer as of the date and year shown below.

Lower Platte North Natural Resources District

By: _____

Title: _____

Date: _____

Big Game Conservation Association

By: Chris Edwards Christopher L Edwards

Title: Big Game Conservation Association Committee Member

Date: 09/01/2023

Lower Platte North NRD

Bills Pending

September 11, 2023

<u>Vendor</u>	<u>Description</u>	<u>Balance</u>
ACP	Copier Buyout	8,212.81
Adam Brockmann	Cell Phone Reimbursement	45.00
Advanced Office Automation, Inc.	Reimbursement on Overpayment Copier	69.00
Aflac	Employee Benefits	219.60
Arden Saalfeld	Solar Well Upgrade	11,593.25
Bill Bos	Mileage Reimbursement	375.32
Bomgaars	O/M Expense/Wanahoo Rec/Vehicles	780.41
Bret C. Schomer	Cell Phone Reimbursement	45.00
Bromm, Lindahl, ET AL	Retainer Agreement	500.00
Butler Public Power	Utilities Expense	3,818.51
Chris Poole	Computer Consultant	400.00
Cintas	Wanahoo Ed. Building	136.94
Cuda's Auto, Inc.	Vehicle Tires/Mount Balance/Fix Flat Tires	1,864.00
Daryl Andersen	Cell Phone Reimbursement	45.00
DAS State Acctg - Central Finance OCIO	Tablet Cell Service/Cell Phone	381.31
David A Moore	Cell Phone Reimbursement	45.00
David City Utilities	Bruno Water Purchase	3,553.94
Diode Communications	Open Path NRD/Ed. Building	54.58
Drew ten Bensel	Cell Phone Reimbursement	45.00
Eric Gottschalk	Cell Phone Reimbursement	45.00
Eugene Novak	Flow Meter Cost-Share	1,000.00
FNIC	Commercial Package Renewal	117,507.00
Freddie Siefken	Solar Well Upgrade	16,852.94
Fremont Sanitation	NRD/Wanahoo Garbage	615.95
G & R Electric, Inc.	Czechland Electrical Upgrade	1,150.00
Google	Email Service	248.40
H & H Trucking	Homestaed/Czechland	1,150.20
Hallett Moomey	Shell Creek Stipend	390.00
HBE LLP	Professional Service Accounting	6,750.00
Helm Connected, LLC	New Server Equipment	9,372.00
Hergert Oil	Fuel Expense	2,382.02
In-Situ, Inc.	Monitoring Well Equipment	5,524.05
Intermedia	Long Distance Service	154.95
Jack Barta	Abandoned Well Cost-Share	1,067.80
Jill Breunig	Cell Phone Reimbursement	45.00
Karen Rezac	Cell Phone Reimbursement	45.00
Kim Homes	Education Building Cleaning	150.00
KTIC 840 Rural Radio	Radio Ads	217.00
Kyle Reed	Shell Creek Septic Upgrade	7,377.71
Lacey Sabatka	Cell Phone Reimbursement	45.00
Lincoln Journal Star	Public Notice	108.46
LRE Water	Hydrogologic Assessment	3,301.25
Makenna Smith	NRD Cleaning	495.00
Mid-American Benefits, Inc	Employee Benefits	632.50

Lower Platte North NRD

Bills Pending

September 11, 2023

Midwest Laboratories, Inc	GW Quality Program	225.50
Municipal Supply, Inc. of Omaha	Colon RW New Hookup	108.15
NARD Research	LPRBC Dues	10,000.00
NARD Risk Pool Association	Employee Benefits	39,478.13
Nationwide	Retirement Benefit	6,899.06
Nationwide	Retirement Benefit	71.93
Nationwide	Retirement Benefit	5,912.97
NE Department of Rev.	Wanahoo Lodging Tax	1,034.55
Nebraska Public Health Environmental Lab	GW Quality Program/Producer Kits	32.00
Nebraska Public Health Environmental Lab	Bruno Sampling	15.00
Nebraska Public Health Environmental Lab	Colon Sampling	15.00
Nebraska Public Health Environmental Lab	GW Quality Program/Producer Kits	407.00
Nebraska Public Health Environmental Lab	GW Quality Program/Producer Kits	945.00
Nebraska Public Health Environmental Lab	GW Quality Program/Producer Kits	1,200.00
Nebraska Rural Water Association	Membership Dues	550.00
Nebraska Water Resources Association	Membership Dues	1,950.00
Nebraska's Natural Resource District	Membership Dues	32,606.27
Nebraska's Natural Resource District	Fall Conference Registration	4,890.00
Noah Franzen	Cell Phone Reimbursement	45.00
Oehrich Farm, Inc.	Flow Meter Cost-Share	2,000.00
Olsson Associates	Wahoo Creek Real Estate	4,671.32
Olsson Associates	Wahoo Creek Watershed & 7 Dam Sites	48,703.93
One Call Concepts, Inc	One Call Service	19.50
OOP Inc	Wanahoo Rec.	176.25
O'Reilly Automotive Stores, Inc.	Wanahoo Expense	57.91
Otte Oil & Propane	Diesel/Chemical Purchase	1,947.86
Papio-Missouri River NRD	Water Strategies Reimbursement	2,100.00
Plunkets	Education Building	170.00
Quill.com	Office Supplies	243.56
Robert J. Heimann	Uniform Reimbursement	30.80
Ryan Chapman	Cell Phone Reimbursement	45.00
Sams Club	Czechland/Office Supplies	362.97
Sean Elliott	Steel Toe Boot Reimbursement	65.00
Sean Elliott	Cell Phone Reimbursement	45.00
Simons Home Store	Wanahoo Rec/Ed Bldg/Colon RW/Equip Upkeep	232.16
State of Nebraska DEE	Chemigation Reimbursement	30.00
Sydney Abbott	Cell Phone Reimbursement	45.00
Ty's Outdoor Power & Service	Wanahoo Mower Parts	70.58
U.S. Geological Survey	Stream Gauging	18,190.00
Union Bank & Trust	Bank Fees	39.56
Union Bank & Trust	Biweekly Payroll - 8/18/23	62,348.37
Union Bank & Trust	Biweekly Payroll -9/1/23	49,439.56
Union Bank & Trust - VISA	P. Mtg/Monitoring Well/Wanahoo Rec	4,956.57
Wahoo Auto Parts	Vehicle Expense	15.47
Wahoo Metal Products & Supply, Inc.	Monitoring Wells/Normal O & M	402.40

Lower Platte North NRD

Bills Pending

September 11, 2023

Wahoo Newspaper	Public Notice/Eads	272.00
Wahoo Utilities	Utilities Expense	2,168.55
Wells Fargo Financial Leasing, Inc.	Copier Lease	284.00
William Brueggemann	Cell Phone Reimbursement	45.00
Windstream	Internet Expense	610.44
Grand Total		514,986.22

Consent Agenda

September 11, 2023

- 5. Approval of Minutes
- 6.A.3.b. Director Absence
- 6.A.3.d. NARD Dues Payment
- 6.A.3.g. New Office Building
- 6.A.6.b. Approval Manager Time and Expense Sheets
- 6.B.6.a.5. Nebraska Public Media
- 6.C.2.a.11. Lower Platte River Basin Water Mgmt. Plan Coalition (LPRBC)
- 6.C.4.a.2. Plugged Wells
- 6.C.3.b.1. Phase Area Update
- 6.D.4.a. Shell Creek Implementation – 319 & NET
- 6.D.4.a.1. NET – Alternate Water Source Payment
- 6.D.4.a.2. On-Site Wastewater System Upgrade
- 8. Authorize General Manager to approve and then treasurer to pay monthly recurring expenses pursuant to April 11, 2011 board policy.