

Operations Committee Meeting
Thursday, March 30, 2023 8:30 AM
Lower Platte North NRD Office
P.O. Box 126
Wahoo, NE 68066

1. UNFINISHED BUSINESS

We do not have any unfinished business.

2. WILD NE AND OTHER PROGRAMS

We are anticipating a prescribed burn this Spring by the Bohemian Alps PBA in the area of Wanhoo where Ducks Unlimited wants to restore the wetland and our soil borrow area is located. We will be mowing firebreaks.

With the assistance of the Game & Parks Burn Crew, we burned off a couple fields just off of Hwy 109 on Friday, March 24.

3. OPERATION & MAINTENANCE & OTHER ITEMS

The O & M crew continues to cut trees on our recreation areas and at Rawhide Ditch. Check garbage and restrooms at Homestead and Czechland Lakes. They are also servicing vehicles and equipment.

3.A. Wanhoo Stilling Basin - (FEMA)

Collins has submitted Pay Application #4 (attached) for \$39,923.02 and is requesting release of a portion of the retainage. As of this application, \$53,516.45 is being held in retainage and the balance to finish is \$61,646.46. If we release 50% of the retainage, the balance to finish would be \$34,888.23. If we release 25%, the balance would be \$48,267.34. We could also release retainage based on an itemized approach also.

A final walk through with Houston Engineering and M.E. Collins will occur after the area is seeded. A punch list will be developed at that time.

3.B. Wanhoo Relief Well Reconditioning

Heimann with the assistance of Olssons has developed a bid proposal application to recondition the remaining 22 wells over the next three years.

Proposal requests were sent to 5 well drilling companies and are due April 26. The request asks that the well reconditioning be completed by November 1st of each year.

3.C. NRD Owned Thomas Lake Lots & Clear Creek Levee

As reported at the last meeting, the Corps of Engineers has not financially closed out the Western Sarpy/Clear Creek Levee Project. So, the District should not sell any of the 6 lots at this time. In a meeting on March 23rd, the Corps stated that neither the sponsors or the Corps owed funds to either. But there's an issue with a culvert in the levee in the National Guard Camp that drains Turner Lake to the Platte River. The culvert is too low. Therefore, when opening the gate of the culvert, Platte River water backflows into Turner Lake. The COE has had knowledge of this for 2 years. We are waiting for an answer as to why, a remedy, and who funds this remedy.

3.D. District Mowing Rates

The District currently mows the Cotterel and Ames Levees with a JD 4450 and 15' mower at a rate of \$60/tractor hour..

The committee was sent information from the 2022 NebGuide to assist in establishing a new rate. NebGuides pages are attached.

3.E. Lake Wanahoo Lake Level Management

The District will start managing the Wanahoo lake level one foot down from the conservation pool elevation of 1210 when G & P finishes their Northern Pike sampling.

The District will follow the NE Dept. Natural Resources directive in regard to releasing water for irrigation purposes this summer as reported at our January meetings.

3.F. National Guard Camp Fuse Plug Reimbursement to LPSNRD

Lower Platte South NRD assisted financially with the repair of the Fuse Plug in the National Guard Camp back in Sept. 2020 and paid LPN \$14,641.66 (which is 50% of the local sponsor share).

They are requesting that LPN reimburse them \$11,713.32 because we will now receive another 15% from FEMA and 5% from NEMA totaling 95% cost-share. If the CDBG-DR (Community Block Grant) we are applying for comes through on the final 5%, LPN would then reimburse LPS the full amount.

In regard to the Community Block Grant, Chapman and Heimann are working on these grant applications for our four project sites that were damaged by the 2019 flood.

3.G. Rehabilitation of Cottonwood 21-A NRCS Contract

Tom Mountford has sent us a statement of work for engineering services and a template of an RFP. We will draft an RFP and have NRCS review it. NRCS has a application for design and planning on Cottonwood 21-A ready for us to sign. Once it is signed and our RFP is approved, we will advertise and send RFP's to engineering firms.

A motion will be needed at Board Meeting to approve signing the design contract with NRCS after Legal Counsel approval.

4. ROCK AND JETTY

We have not received any applications or payment request.

5. LAKE WANAHOO

5.A. Lake Wanahoo Archery Range

Heimann and Schomer met with Henry and Marty Waverka on Friday 3/24 to discuss the potential of installing an archery range on the Wanahoo property. This will be Henry's Eagle Scout project. Staff has selected a location on the west side of the lake, north of the boat ramp parking lot (see attached map). The range will have 4 targets from 10-40 yards with the potential for expansion in the future. Henry will be looking for sponsors to pay for the materials. At this time, if the Board is agreeable to the project, the District would pledge the ground and some labor to the project. We would also write an interlocal agreement with the Big Game

Conservation Association, or similar group, for future upkeep and material purchase.

5.B. Lake Wanahoo Future Developments

Gottschalk and Schomer met with Jake Miriovsky regarding a fish cleaning station at Lake Wanahoo. We discussed potential locations and the pros and cons of each. JEO will be working on an estimated cost for the different locations and get back to us as soon as possible. Staff will be looking into grants including but not limited to the Sport Fish Restoration Act Grant, administered by Nebraska Game & Parks Commission.

Schomer also met with a representative from Commercial Recreation Specialists regarding a marina/dock system. They are currently putting together an estimate and hope to get it back to us in April so we can assess the viability of the project. This may also fall under the scope of the Sport Fish Recreation Act Grant.

5.C. Lake Wanahoo Permit Sales

For the month of February, the District received \$3,852.50 in annual park permit revenue. The year by year break down of annual permit sales is listed below.

Month	Monthly Total	YTD
February 2023	\$3852.50	\$19492.50
February 2022	\$3825.00	\$21707.50
February 2021	\$7935.00	\$24937.50
February 2020	\$6070.00	\$22185.00
February 2019	\$9677.50	\$24635.00

5.D. Lake Wanahoo Camping Revenue

For the month of February, the District received \$4,267.89 in camping revenue. The year by year comparison is listed below.

Month	Month Total	YTD
February 2023	\$4267.89	\$8297.90
February 2022	\$3540.62	\$7148.58
February 2021	\$6189.12	\$10940.62
February 2020	\$1929.90	\$4490.82
February 2019	\$1607.00	\$3974.00

5.E. Clint Johannes Education Building

During the month of March, the building was rented 17 times with 1 NRD event. Revenue for the month was \$1,120.

6. INFORMATION AND EDUCATION

6.A. Information

6.A.1. Radio & eAds

March's KTIC radio ad featured a last reminder for upcoming Nitrogen certification classes or to take the test online. April will feature chemigation permit applications are due by June 1 along with prices.

March's Wahoo Newspaper e-ad featured Wanahoo permits available. April will feature an ad for all 3 recreation areas.

6.A.2. Analytics

The LPNNRD Facebook/Twitter pages, and the website are the fastest and low-cost ways to get information out to the public. Tracking analytics are a way to see if people are seeing the information and what ways seem to be most effective. 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.

FACEBOOK	Total Reach	Engagements	Followers
March 2023	5,403	5,791	1,450
February 2023	8,800	9,065	1,435
January 2023	3,663	100	1,427
December	5,758	163	1,421

TWITTER	Total impressions	Engagements	Followers
March 2023	1,906	94	399
February 2023	4,044	213	397
January 2023	1,954	95	391
December	2,570	102	388

Top Posts on Facebook and Twitter:

- Groundwater Awareness week posts highlighting groundwater quality and quantity
- Upcoming beekeeping flyer
- Boat docks in at Wanahoo
- Pictures from Sydney's St. Wenceslaus Pre-K visit about soil
- NRD Recreation Exploration

WEBSITES	Users	Traffic Channel	Top Pages	Devices
March 2023	1,662	Organic 64.6% Direct 21.9% Referral 10.7% Social 2.7%	Lake Wanahoo Home Czechland Lake Downloads Forestry	Mobile 49.34% Desktop 47.71% Tablet 2.95%
February 2023	1,446	Organic 63.2% Direct 21.8% Referral 7.7% Social 7.3%	Home Lake Wanahoo Downloads Forestry Nitrogen Certification	Mobile 49.45% Desktop 47.65% Tablet 2.90%
January 2023	1,614	Organic 67.9% Direct 20.8% Referral 8.3% Social 3%	Lake Wanahoo Home Forestry Czechland Lake Nitrogen Certification	Mobile 50.87% Desktop 47.15% Tablet 1.98%
December	1,156	Organic 62.7% Direct 22.9% Referral 8.7% Social 5.7%	Home Lake Wanahoo Forestry Downloads Contact	Mobile 49.39% Desktop 48.62% Tablet 1.99%

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).

Social clicks: 45 from Facebook, 2 from Twitter.

Referral clicks: 75 from NARD, 19 from Visit Nebraska, 6 from NGPC, 2 from the ad on Wahoo Newspaper's site.

6.A.3. Shell Creek Watershed Student Monitoring Group Scholarship Applications

The LPNNRD received three scholarship applications for the Shell Creek Watershed Monitoring Group Scholarship:

Mara, Ranslem, Newman Grove. She has participated in the Shell Creek Watershed Monitoring program since 7th grade. Her plans after graduation include attending UNL, majoring in biology then continue to medical school to be a Physician's Assistant.

Eliza Bailey, Schuyler. She has participated in the Shell Creek Watershed Monitoring Program the last four years. Her plans after graduation include attending Southeast Community College, majoring in Nursing and Diversified Agriculture.

Kathryn Novacek, Schuyler. She has participated in the Shell Creek Watershed Monitoring Program the last four years. Her plans after graduation include attending Northeast Community College, majoring in Veterinary Technology.

6.B. Education

6.B.1. Past Events

- **March 9th:** Coffee Lakeside: Lake Ecosystems. The presentation covered lake ecology, fish kills, spring turnover, and invasive aquatic species. 3 people attended.
- **March 10th:** Wahoo High School Careers Class. Talked with 10 students about my career in natural resources and what we do here at the NRD.
- **March 14th:** Gave the same Lake Ecosystems presentation to attendees at the Senior citizen center in Wahoo. 8 people attended.
- **March 15th:** Survival Club. John Miyoshi talked with students about fishing.
- **March 23rd:** Went to St. Wenceslaus Pre-K classroom to talk about heathy soils, earthworms, and more. 28 students did some soil finger painting and ended the visit with a little dirt in a cup (see attachment).

6.B.2. Future Events

- **April 5th:** All about bees event (see attached flyer).
- **April 6th:** Coffee Lakeside: Paula Hoppe is our guest speaker and she will be talking about waterfowl identification.
- **April 11th:** Presentation at the Senior Citizen Center over the power of nature-based play and why people of all ages should be spending more time outdoors.
- **April 18th:** Survival Club - Campfire starting.
- **April 20th:** Fremont Eco-fair.
- **April 23rd:** Community Fishing Event at Lake Wanahoo.

7. RURAL WATER SYSTEMS

2022 Water Quality reports were received for both RWDs (attached) and have been posted to our website. Per state policy we will also publicly post and notify all customers.

Benal and Elliott attended NeRWA's Annual Conference 3/13-15. Both received enough CEUs for Grade 4 license renewal due 12/31. Major topics throughout the conference were; Lead Service Line Inventory (LSLI) and Emerging Contaminant (PFAS, nitrate) and potential/probable future implications to rural utilities; i.e. increased testing/monitoring and possible infrastructure upgrades.

RWD is started to build our LSLI and doesn't foresee any major obstacles with reporting. When Colon RWD was developed any lead, or galvanized, service components were replaced during meter installation. All Bruno RWD customers are new (post lead ban 1984) and shouldn't pose a risk

7.A. Colon System

Routine monthly sampling completed, meters read and bills to be mailed
3/31. RWD responded to 2 locate requests.

7.B. Bruno System

Routine monthly sampling completed, meters read and bills to be mailed
3/31. RWD responded to 3 locate requests.

7.C. Other

Contractor's Application for Payment No.

4

Application Period: 01/30/2023 Through 03/27/2023	Application Date: 3/27/2023
To: Lower Platte North Natural Resources District (Owner)	From: ME Collins Contracting Co., Inc. (Contractor)
Project: Lake Wanhoo Apron Overlay	Via (Engineer): Houston Engineering
Contract:	
Owner's Contract No.:	Contractor's Project No.:
	Engineer's Project No.: 022-22-01

**Application For Payment
Change Order Summary**

Approved Change Orders			
Number	Additions	Deductions	
001	\$44,358.91		1. ORIGINAL CONTRACT PRICE <u>\$452,487.40</u>
002	\$46,448.24		2. Net change by Change Order <u>\$90,807.15</u>
			3. Current Contract Price (Line 1 ± 2) <u>\$543,294.55</u>
			4. TOTAL COMPLETED AND STORED TO DATE
			(Column F total on Progress Estimates) <u>\$535,164.55</u>
			5. RETAINAGE*:
			a. 10% X \$ 535,164.55 Work Completed <u>\$53,516.45</u>
			b. 10% X \$ - Stored Material _____
			c. Total Retainage (Line 5.a + Line 5.b) <u>\$53,516.45</u>
			6. AMOUNT ELIGIBLE TO DATE (Line 4 - Line 5.c) <u>\$481,648.09</u>
			7. LESS PREVIOUS PAYMENTS (Line 6 from prior Application) <u>\$441,725.07</u>
			8. AMOUNT DUE THIS APPLICATION <u>\$39,923.02</u>
			9. BALANCE TO FINISH, PLUS RETAINAGE
			(Column H total on Progress Estimates + Line 5.c above) <u>\$61,646.46</u>
TOTALS	\$90,807.15		
NET CHANGE BY CHANGE ORDERS	\$90,807.15		

Contractor's Certification

The undersigned Contractor certifies, to the best of its knowledge, the following:
 (1) All previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with the Work covered by prior Applications for Payment;
 (2) Title to all Work, materials and equipment incorporated in said Work, or otherwise listed in or covered by this Application for Payment, will pass to Owner at time of payment free and clear of all Liens, security interests, and encumbrances (except such as are covered by a bond acceptable to Owner indemnifying Owner against any such Liens, security interest, or encumbrances); and
 (3) All the Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective.

Contractor Signature

By: _____ Date: _____

Payment of: \$ 39,923.02
 (Line 8 or other - attach explanation of the other amount)

is recommended by: Houston Engineering 3/29/2023
 (Engineer) (Date)

Payment of: \$ _____
 (Line 8 or other - attach explanation of the other amount)

is approved by: _____ _____
 (Owner) (Date)

Approved by: _____ _____
 Funding or Financing Entity (if applicable) (Date)

Progress Estimate

Contractor's Application

For (Contract): Lake Wanhoo Apron Overlay										Application Number: 4			
Application Period: 01/30/2023 Through 03/27/2023										Application Date: 3/27/2023			
A					B	C1	C2	C3	D	E	F	G	H
Item		Contract Information				Estimated Quantity Installed this Pay Application Period	Previous Quantity Installed	Total Quantity Installed	Value of Work Installed to Date	Materials Presently Stored (not in C)	Total Completed and Stored to Date (D + E)	% (F / B)	Balance to Finish (B - F)
Bid Item No.	Description	Item Quantity	Units	Unit Price	Total Value of Item (\$)								
1.001	MOBILIZATION	1	LS	\$ 41,632.00	\$ 41,632.00		1	1	\$41,632.00		\$41,632.00	100.0%	
1.002	WATER HANDLING	1	LS	\$ 14,433.00	\$ 14,433.00		1	1	\$14,433.00		\$14,433.00	100.0%	
1.003	RCC GRINDING/REMOVAL	175	CY	\$ 746.00	\$ 130,550.00		175	175	\$130,550.00		\$130,550.00	100.0%	
1.004	BASIN CLEANING AND PREPARATION	1	LS	\$ 11,555.00	\$ 11,555.00		1	1	\$11,555.00		\$11,555.00	100.0%	
1.005	SET ANCHORS	169	EA	\$ 78.00	\$ 13,182.00		169	169	\$13,182.00		\$13,182.00	100.0%	
1.006	CLASS 6000 CONCRETE	221.2	CY	\$ 596.78	\$ 132,007.74		221.2	221.2	\$132,007.74		\$132,007.74	100.0%	
1.007	FIBER REINFORCEMENT - ALTERNATIVE B	10215	LBS	\$ 6.00	\$ 61,290.00		10215	10215	\$61,290.00		\$61,290.00	100.0%	
1.008	STEEL REINFORCEMENT - ALTERNATIVE B	17032	LBS	\$ 2.20	\$ 37,470.40		17032.00	17032	\$37,470.40		\$37,470.40	100.0%	
1.009	LONGITUDINAL/TRANSVERSE JOINTS (INCLUDING WATERSTOPS)	225.6	LF	\$ 30.00	\$ 6,768.00		225.6	225.6	\$6,768.00		\$6,768.00	100.0%	
1.010	PERIMETER WATERSTOPS	310.5	LF	\$ 135.00	\$ 41,917.50		310.5	310.5	\$41,917.50		\$41,917.50	100.0%	
1.011	SEEDING	1	LS	\$8,130.00	\$ 8,130.00								\$8,130.00
1.012	RE-MOBILIZATION	1	LS	\$ 11,200.00	\$ 11,200.00	1		1.0	\$11,200.00		\$11,200.00	100.0%	
1.013	BAFFLE PLATE REMOVAL AND REPLACEMENT	86.5	LF	\$383.34	\$ 33,158.91	86.5		86.5	\$33,158.91		\$33,158.91	100.0%	
Totals					\$ 543,294.55				\$535,164.55		\$535,164.55	98.50%	\$ 8,130.00

2022 NEBRASKA CUSTOM RATES - PART II

CUSTOM PRACTICE	NEBRASKA AGRICULTURAL STATISTICS DISTRICTS								STATE
	Northwest	North	Northeast	Central	East	Southwest	South	Southeast	
-----All Units in Dollars Unless Specified-----									
SOLID MANURE HAULING, rate per mile									
Number Reporting	#	#	#	#	#	#	#	#	3
Average Rate	-	-	-	-	-	-	-	-	2.33
Range	-	-	-	-	-	-	-	-	1.00-4.00
Most Common	-	-	-	-	-	-	-	-	-
SOLID MANURE APPLICATION, rate per ton									
Number Reporting	#	#	#	#	#	#	#	#	6
Average Rate	-	-	-	-	-	-	-	-	4.58
Range	-	-	-	-	-	-	-	-	2.00-10.00
Most Common	-	-	-	-	-	-	-	-	-
VARIABLE RATE MANURE APPLICATION, rate per acre									
Number Reporting	#	#	#	#	#	#	#	#	3
Average Rate	-	-	-	-	-	-	-	-	8.33
Range	-	-	-	-	-	-	-	-	2.00-12.00
Most Common	-	-	-	-	-	-	-	-	-
FENCING, TRENCHING, MOWING									
BUILDING NEW FENCE (LABOR CHARGE ONLY FOR BUILDING 4 STRAND BARBED /WOOD POSTS), rate per hour									
Number Reporting	#	#	#	#	#	#	#	#	3
Average Rate	-	-	-	-	-	-	-	-	18.67
Range	-	-	-	-	-	-	-	-	16.00-20.00
Most Common	-	-	-	-	-	-	-	-	20.00
CLEARING CEDAR TREES, rate per hour									
Number Reporting	#	#	#	#	#	#	#	3	6
Average Rate	-	-	-	-	-	-	-	118.33	105.83
Range	-	-	-	-	-	-	-	80-150	75-150
Most Common	-	-	-	-	-	-	-	-	125.00
MOWING GRASS (CRP OR PASTURE), rate per hour									
Number Reporting	#	#	#	#	#	#	#	#	4
Average Rate	-	-	-	-	-	-	-	-	76.00
Range	-	-	-	-	-	-	-	-	40-114
Most Common	-	-	-	-	-	-	-	-	-
CHECKING and CLOSING PIVOT TRACKS									
CHECKING PIVOTS DURING IRRIGATION SEASON, rate per hour									
Number Reporting	#	#	#	#	#	#	#	#	9
Average Rate	-	-	-	-	-	-	-	-	25.83
Range	-	-	-	-	-	-	-	-	9.50-50.00
Most Common	-	-	-	-	-	-	-	-	25.00

Too few responses to publish

2022 NEBRASKA CUSTOM RATES - PART II

CUSTOM PRACTICE	NEBRASKA AGRICULTURAL STATISTICS DISTRICTS								
	Northwest	North	Northeast	Central	East	Southwest	South	Southeast	STATE
-----All Units in Dollars Unless Specified-----									
CHECKING PIVOTS DURING IRRIGATION SEASON, rate per acre									
Number Reporting	#	#	#	#	5	#	#	#	10
Average Rate	-	-	-	-	13.60	-	-	-	13.00
Range	-	-	-	-	10.00-25.00	-	-	-	2.00-25.00
Most Common	-	-	-	-	10.00	-	-	-	10.00
CLOSING PIVOT TRACKS, rate per hour									
Number Reporting	#	#	#	4	#	3	#	#	12
Average Rate	-	-	-	96.25	-	63.33	-	-	100.00
Range	-	-	-	50-150	-	25-100	-	-	25-250
Most Common	-	-	-	-	-	-	-	-	75.00
CLOSING PIVOT TRACKS, rate per pivot									
Number Reporting	#	#	#	#	4	#	3	#	13
Average Rate	-	-	-	-	243.75	-	316.67	-	296.92
Range	-	-	-	-	150-500	-	200-500	-	100-800
Most Common	-	-	-	-	150.00	-	-	-	500.00
HEAVY EQUIPMENT SERVICE RATES, SKID STEER and TRACTOR RENTAL RATES									
SKID STEER LOADER RENT, (EXCLUDE FUEL & OPERATOR), rate per metered hour									
Number Reporting	#	#	#	#	#	#	#	3	6
Average Rate	-	-	-	-	-	-	-	90.00	71.67
Range	-	-	-	-	-	-	-	75-120	50-120
Most Common	-	-	-	-	-	-	-	75.00	50.00
TRACTOR RENT, TRACTOR ONLY (EXCLUDE FUEL AND OPERATOR), UNDER 100 H.P., rate per meter hour									
Number Reporting	#	#	#	#	#	#	#	#	3
Average Rate	-	-	-	-	-	-	-	-	31.67
Range	-	-	-	-	-	-	-	-	25.00-40.00
Most Common	-	-	-	-	-	-	-	-	-
TRACTOR RENT, TRACTOR ONLY (EXCLUDE FUEL AND OPERATOR), 100-149 H.P., rate per meter hour									
Number Reporting	#	#	#	#	#	3	#	#	6
Average Rate	-	-	-	-	-	61.67	-	-	59.17
Range	-	-	-	-	-	50.00-75.00	-	-	35-100
Most Common	-	-	-	-	-	-	-	-	35.00
TRACTOR RENT, TRACTOR ONLY (EXCLUDE FUEL AND OPERATOR), 150-250 PTO H.P., rate per meter hour									
Number Reporting	#	#	#	#	#	#	#	#	5
Average Rate	-	-	-	-	-	-	-	-	70.00
Range	-	-	-	-	-	-	-	-	45.00-90.00
Most Common	-	-	-	-	-	-	-	-	-

Too few responses to publish

2022 NEBRASKA CUSTOM RATES - PART II

CUSTOM PRACTICE	NEBRASKA AGRICULTURAL STATISTICS DISTRICTS								
	Northwest	North	Northeast	Central	East	Southwest	South	Southeast	STATE
-----All Units in Dollars Unless Specified-----									
TRACTOR RENT, TRACTOR ONLY (EXCLUDE FUEL AND OPERATOR), GREATER THAN 250 PTO H.P., rate per meter hour									
Number Reporting	#	#	#	#	#	3	#	#	7
Average Rate	-	-	-	-	-	106.67	-	-	90.00
Range	-	-	-	-	-	100-120	-	-	70-120
Most Common	-	-	-	-	-	100.00	-	-	100.00
HEAVY EQUIPMENT OPERATIONS, BULLDOZING /CLEARING LAND, (Includes machinery, fuel, and labor), rate per hour									
Number Reporting	#	#	3	#	#	#	#	3	11
Average Rate	-	-	203.33	-	-	-	-	163.33	163.18
Range	-	-	180-250	-	-	-	-	150-180	70-250
Most Common	-	-	180.00	-	-	-	-	-	180.00
HEAVY EQUIPMENT OPERATIONS, EXCAVATING, (Includes machinery, fuel, and labor), rate per hour									
Number Reporting	#	#	3	#	#	#	#	4	11
Average Rate	-	-	216.67	-	-	-	-	168.75	181.36
Range	-	-	190-250	-	-	-	-	150-200	65-250
Most Common	-	-	-	-	-	-	-	150.00	200.00
HEAVY EQUIPMENT OPERATIONS, HAULING WITH DUMP TRUCK OR SIDE DUMP, rate per hour									
Number Reporting	#	#	#	#	#	#	#	4	9
Average Rate	-	-	-	-	-	-	-	125.00	99.22
Range	-	-	-	-	-	-	-	110-150	48-150
Most Common	-	-	-	-	-	-	-	120.00	120.00
CUSTOM OPERATOR INFORMATION									
ACRES COVERED PER YEAR IN CUSTOM WORK									
Number Reporting	9	12	22	19	33	7	12	37	122
Average Acres	7015	6078	3887	5948	6982	7191	26622	8470	6033
Range	320-30,000	1,000-20,000	125-30,000	200-50,000	40-100,000	100-30,000	500-194,260	30-194,260	30-194,260
HOURS SPENT PER YEAR ON CUSTOM WORK OPERATIONS									
Number Reporting	7	10	13	16	22	5	10	20	80
Average Hours	829	454	263	1118	443	820	1138	353	594
Range	32-2,500	12-2,000	5-800	20-10,500	6-2,400	100-2,500	80-5,000	5-1,500	5-10,500
LABOR RATE									
AVERAGE LABOR RATE ASSUMED OR INCLUDED IN CUSTOM RATES, rate per hour									
Number Reporting	8	9	14	17	23	7	13	30	96
Average Rate	21.25	20.11	20.93	27.06	27.64	23.86	21.85	19.68	22.61
Range	15.00-50.00	15.00-30.00	19.00-25.00	15.00-60.00	15.00-60.00	17.00-50.00	15.00-30.00	12.00-40.00	12.00-60.00
Most Common	15.00	20.00	20.00	20.00	20.00	20.00	15.00	20.00	20.00
DIESEL COST									
EXPECTED FARM DELIVERED DIESEL FUEL COST IN 2022, rate per gallon									
Number Reporting	8	9	19	16	29	7	11	27	99
Average Rate	3.27	3.14	2.79	2.76	3.20	3.06	2.74	3.17	3.05
Range	2.70-4.50	2.25-4.00	2.01-4.00	1.70-4.00	2.01-5.90	2.80-3.60	1.75-3.60	2.40-4.50	1.70-5.90
Most Common	-	4.00	2.85	3.00	3.50	-	3.00	3.50	3.00







THE HUNTING TO GO



Rediscover the Outdoors

2023 Lake Wanahoo

NRD Recreation Area Permits are now available! Stop by the office in Wahoo or order online at lpnnrd.org



LOWER PLATTE NORTH
Natural Resources District

Rediscover the Outdoors

Visit one or all of the
LPNNRD Recreation Areas—
Czechland Lake near Prague
Homestead Lake near Bruno
Lake Wanahoo near Wahoo



LOWER PLATTE NORTH
Natural Resources District

Shell Creek Watershed Monitoring Program Scholarship

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

To qualify for a scholarship, applicants must:

- Be a graduating senior at Newman Grove High School, Schuyler Central High School, or Columbus Lakeview High School
- Have completed at least one year as a member of the Shell Creek Watershed Monitoring Program
- Be enrolled in an accredited two-year or four-year college or university
- Plan to pursue a major or course of study relating to science and/or natural resources
- Return completed scholarship application and supporting materials by **March 15th**

Applications will be evaluated by NRD staff and representatives from Newman Grove Public Schools, Schuyler Public Schools, and Lakeview Community Schools. The final award decision will be made by the Lower Platte North NRD Board of Directors.

Scholarship recipients will receive ½ of the scholarship upon recipient selection, with the remainder being issued upon proof of successful completion of the first term with a GPA of B/3.0 or above. If a scholarship recipient fails to attend an accredited two-year or four-year college or university or does not complete their first term with a GPA of at least B/3.0, scholarship funds may be directed to an alternate.

Application Procedure

Applicants should complete the application form in its entirety and provide:

- An essay (750 words or less) stating their chosen course of study, how it relates to science and/or natural resources, and how they believe their experience with the Shell Creek Watershed Monitoring Program will help them achieve their academic goals
- Copy of their high school grades/transcript with GPA
- Copy of SAT/ACT scores, if available
- Proof of enrollment at an accredited two-year or four-year college or university (letter of acceptance, etc.)

Applications must be received by the LPNNRD Office no later than March 15th for consideration for the fall term.

SHELL CREEK WATERSHED MONITORING PROGRAM SCHOLARSHIP APPLICATION

1. ACADEMIC YEAR – Indicate the academic year for which you are applying for scholarship assistance: 2023-2024

2. MAJOR/COURSE OF STUDY – Indicate the major or course of study you will be pursuing:

I will be majoring in Biology to then further my education in medical school to become a Physician's Assistant

3. COLLEGE – Indicate the accredited two-year or four-year college or university you will be attending: University of Nebraska-Lincoln

4. PERSONAL DATA

Applicant Name (First MI Last):

Mara K Ranslem

Primary Residence:

Address: 205 S 8th Street

City: Newman Grove State: Nebraska ZIP: 68758

Primary Phone: (402)-608-0311

Email: mkranslem@gmail.com

Parent/GuardianName(s): Justin and Kim Ranslem

5. PERSONAL ESSAY – On one separate sheet of paper provide an essay stating your chosen major/course of study, how it relates to science and/or natural resources, and how you believe your experience with the Shell Creek Watershed Monitoring Program will help you achieve your academic goals. Please do not exceed one page.

6. HIGH SCHOOL GRADES - Provide a copy of your most recent high school grades/transcript, including GPA.

7. SAT/ACT SCORES - If available, provide a copy of your SAT or ACT results. *Continued on next*

page

8. PROOF OF ENROLLMENT - Provide proof of enrollment (ie. letter of acceptance, tuition statement, or class schedule) from the college/university you will be attending.

PLEASE SUBMIT ONLY ONE APPLICATION. Completion of items 1 through 8 above is mandatory. If the information requested does not apply, enter N/A. Applications should be sent to: **Lower**

Platte North NRD, PO Box 126, Wahoo, NE 68066, or emailed to lpnnrd@lpnnrd.org

ELIGIBILITY – To be eligible, an applicant must satisfy the following requirements:

Be a graduating senior at Newman Grove High School, Schuyler Central High School, or Columbus Lakeview High School.

Have completed at least one year as a member of the Shell Creek Watershed Monitoring Program.

Be enrolled in an accredited two- or four-year college or university.

Plan to pursue a major or course of study relating to science and/or natural resources.

All applications and supporting materials must be received by the LPNNRD Office no later than March 15th for consideration for the fall term.

Lower Platte North NRD staff and representatives from Newman Grove Public Schools, Schuyler Public Schools and Lakeview Community Schools will evaluate applications. The Lower Platte North NRD Board of Directors will make the final award decision.

I certify that, to the best of my knowledge, all information given on this application is true, correct, original and complete, and that I understand and will abide by the scholarship requirements if I am chosen as the recipient.

Applicant's Signature Mara Bassem Date: 3/8/2023

Shell Creek Watershed Monitoring Program Scholarship Essay

My name is Mara Ranslem and I am a senior at Newman Grove Public Schools. Next school year, I will be attending the University of Nebraska-Lincoln to major in biology. With my biology degree, I will further my education in medical school to pursue my dream of becoming a Physician's Assistant. I have been set on going into the medical field and studying science since I was in elementary. I find science interesting, and I am always learning new things within the science field on a daily basis. As a Physician's Assistant, I will be dealing with several aspects of science. For example, I will always be using life science and chemistry to diagnose my patients to the best of my ability. Therefore, I will be required to take several science classes to prepare me for my future career. My different classes and experiences have helped me decide on this career choice!

An important experience of mine is that I have been involved in the Shell Creek Watershed Monitoring Program since I was a seventh grader. With this program, I have been able to collect the water, test the water, and do some research to gain more knowledge about our mission in Shell Creek Watershed. While some people may claim to know how to do some tasks in this group, I have been trained to perform all of the tasks and teach others, as well. This organization has granted me the opportunity to use my acquired leadership skills and knowledge to benefit the community. In the Shell Creek Watershed Monitoring Program, our goal is to inform the public about the current water situations. Therefore, I will use these same tactics in my future career to keep everyone informed and safe. This organization has played such an important role in my life, and I can't wait to continue advocating the importance of it to my peers!

Applications must be received by the LPNDRD Office no later than March 15th for consideration for the fall term.

SHELL CREEK WATERSHED MONITORING PROGRAM SCHOLARSHIP APPLICATION

1. **ACADEMIC YEAR** – Indicate the academic year for which you are applying for scholarship assistance: 2023

2. **MAJOR/COURSE OF STUDY** – Indicate the major or course of study you will be pursuing:

Nursing + Agriculture

3. **COLLEGE** – Indicate the accredited two-year or four-year college or university you will be attending:

Southeast Community College - Beatrice

4. PERSONAL DATA

Applicant Name (First MI Last):

Eliza C. Bailey

Primary Residence:

Address 850 Road G

City Schuyler State NE ZIP 68661

Primary Phone 402-615-5601 Email elizabailey005@gmail.com

Parent/Guardian Name(s) Matt + Jill Bailey

5. **PERSONAL ESSAY** – On one separate sheet of paper provide an essay stating your chosen major/course of study, how it relates to science and/or natural resources, and how you believe your experience with the Shell Creek Watershed Monitoring Program will help you achieve your academic goals. Please do not exceed one page.

6. **HIGH SCHOOL GRADES** - Provide a copy of your most recent high school grades/transcript, including GPA.

7. **SAT/ACT SCORES** - If available, provide a copy of your SAT or ACT results.

Continued on next page

8. PROOF OF ENROLLMENT - Provide proof of enrollment (ie. letter of acceptance, tuition statement, or class schedule) from the college/university you will be attending.

PLEASE SUBMIT ONLY ONE APPLICATION. Completion of items 1 through 8 above is mandatory. If the information requested does not apply, enter N/A. Applications should be sent to: **Lower Platte North NRD, PO Box 126, Wahoo, NE 68066**, or emailed to **lpnnrd@lpnnrd.org**

ELIGIBILITY – To be eligible, an applicant must satisfy the following requirements:

Be a graduating senior at Newman Grove High School, Schuyler Central High School, or Columbus Lakeview High School.

Have completed at least one year as a member of the Shell Creek Watershed Monitoring Program.

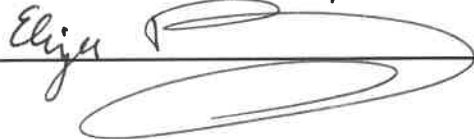
Be enrolled in an accredited two- or four-year college or university.

Plan to pursue a major or course of study relating to science and/or natural resources.

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Lower Platte North NRD staff and representatives from Newman Grove Public Schools, Schuyler Public Schools and Lakeview Community Schools will evaluate applications. The Lower Platte North NRD Board of Directors will make the final award decision.

I certify that, to the best of my knowledge, all information given on this application is true, correct, original and complete, and that I understand and will abide by the scholarship requirements if I am chosen as the recipient.

Applicant's Signature Elija  **Date:** 03/05/23

Agriculture and the medical field have always been two things that I have been close to my heart. Therefore I have decided to major in Nursing and Diversified Agriculture. The beauty of both of these majors is that I can do so much with both. I have grown to love little kids, especially babies. Therefore, if I choose the nursing pathway, I plan to either be a NICU Nurse or a Labor and Delivery Nurse. As I have gotten older and more involved in activities, I have also come to realize that I miss helping on the family farm. With a diversified ag major, I can go down many different routes. Together, I have the best of both worlds.

I have been involved in the Shell Creek Watershed Improvement Group's water testing program for the past 4 years. Water quality is important no matter what career path I choose. Drinking water affects everyone. It wasn't until I started testing water that I realized how much goes into the water we drink everyday. Our chapter tests stream water as well as well water.

Not only has water testing helped me understand what is in the water we drink, but it has also taught me the importance of strong communication skills. Testing water involves interacting with a wide variety of people. The whole community should be involved. Helping the community has taught me to focus more on the needs of others rather than just myself. We all drink water from the same source. Therefore water connects us all so everyone should be included. Water testing has also taught me the importance of time management as well as dedication. When testing for E.Coli in the streams, the water has to be read within 24-28 hours. If the data isn't read within the time frame, the sample won't be accurate. Our chapter tested Shell Creek every Wednesday throughout the summer. I had to make sure to plan accordingly. I have made many memorable experiences with water testing such as looking up to see the collection water bottle floating down stream, getting stuck in the mud and then starting to sink, or falling face first in the creek, just to name a few.

I will use this knowledge I have gained further down the road by testing my water. When I am out living on my own, I will test my own water because I understand the consequences of not testing water. I will use all the skills I have gained to further my education as well as help me with my future endeavors. I will forever cherish the memories and skills I have learned through water testing.

Thank you,
Elyse 

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- Copy of their high school grades/transcript with GPA
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Applications must be received by the LPNNRD Office no later than March 15th for consideration for the fall term.

SHELL CREEK WATERSHED MONITORING PROGRAM SCHOLARSHIP APPLICATION

1. ACADEMIC YEAR – Indicate the academic year for which you are applying for scholarship assistance: 2023-2024

2. MAJOR/COURSE OF STUDY – Indicate the major or course of study you will be pursuing:

I will be majoring in Biology to then further my education in medical school to become a Physician's Assistant

3. COLLEGE – Indicate the accredited two-year or four-year college or university you will be attending: University of Nebraska-Lincoln

4. PERSONAL DATA

Applicant Name (First MI Last):

Mara K Ranslem

Primary Residence:

Address: 205 S 8th Street

City: Newman Grove State: Nebraska ZIP: 68758

Primary Phone: (402)-608-0311

Email: mkranslem@gmail.com

Parent/GuardianName(s): Justin and Kim Ranslem

5. PERSONAL ESSAY – On one separate sheet of paper provide an essay stating your chosen major/course of study, how it relates to science and/or natural resources, and how you believe your experience with the Shell Creek Watershed Monitoring Program will help you achieve your academic goals. Please do not exceed one page.

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I certify that, to the best of my knowledge, all information given on this application is true, correct, original and complete, and that I understand and will abide by the scholarship requirements if I am chosen as the recipient.

Applicant's Signature Mara Bassem Date: 3/8/2023

Shell Creek Watershed Monitoring Program Scholarship Essay

My name is Mara Ranslem and I am a senior at Newman Grove Public Schools. Next school year, I will be attending the University of Nebraska-Lincoln to major in biology. With my biology degree, I will further my education in medical school to pursue my dream of becoming a Physician's Assistant. I have been set on going into the medical field and studying science since I was in elementary. I find science interesting, and I am always learning new things within the science field on a daily basis. As a Physician's Assistant, I will be dealing with several aspects of science. For example, I will always be using life science and chemistry to diagnose my patients to the best of my ability. Therefore, I will be required to take several science classes to prepare me for my future career. My different classes and experiences have helped me decide on this career choice!

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Lower Platte North NRD

Yesterday at 10:00 AM · 🌐



Last week, the Lower Platte North NRD visited St. Wenceslaus students to teach them about soil and why it's so important. The students were able to play in the soil and create mud paintings. The NRD offers more than just soil activities – learn about all of the classroom activities available at lpnrd.org



 Boost this post to reach up to 221 more people if you spend \$14.

Boost post



All About **Bees**

Wednesday
April 5

Doors open at 5:45 p.m.
Presentations at 6:00 p.m.

Clint Johannes Education Building
1655 County Road 16
East side of Lake Wanhoo
near Wahoo, NE



Exploratory Bee Keeping
How to get started in beekeeping
Producing varietal honey
Ways to make your yard bee-friendly
Honey tasting





Lower Platte North RWD - Bruno

Annual Water Quality Report For January 1 to December 31, 2022

This report is intended to provide you with important information about your drinking water and the efforts made by the Lower Platte North RWD - Bruno water system to provide safe drinking water.

Para Clientes Que Hablan Español: Este informe contiene información muy importante sobre el agua que usted bebe. Tradúzcalo ó hable con alguien que lo entienda bien.

For more information regarding this report, or to request a hard copy, contact:

SEAN C ELLIOTT
402-443-4675

If you would like to observe the decision-making processes that affect drinking water quality, please attend the regularly scheduled meeting of the Village Board/City Council. If you would like to participate in the process, please contact the Village/City Clerk to arrange to be placed on the agenda of the meeting of the Village Board/City Council.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline (800-426-4791).

Source Water Assessment Availability:

The Nebraska Department of Environment and Energy (NDEE) has completed the Source Water Assessment. Included in the assessment are a Wellhead Protection Area map, potential contaminant source inventory, and source water protection information. To view the Source Water Assessment or for more information please contact the person named above on this report or the NDEE at 402-471-3376 or go to <http://dee.ne.gov>.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Sources of Drinking Water:

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and groundwater wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals

and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

The source of water used by Lower Platte North RWD - Bruno is purchased ground water. Our drinking water is supplied from another water system through a Consecutive Connection (CC). To find out more about our drinking water sources and additional chemical sampling results, please contact our office at the number provided above.

Buyer Name	Seller Name
Lower Platte North RWD - Bruno	City Of David City

Contaminants that may be present in source water include:

- * Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- * Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban storm water runoff, industrial, or domestic wastewater discharges, oil and gas production, mining, or farming.
- * Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- * Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.
- * Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

Drinking Water Health Notes:

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. All Community water systems are responsible for providing high quality drinking water but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline (800-426-4791), at <http://www.epa.gov/safewater/lead> or at the NDEE Drinking Water Division (402-471-1009).

The Lower Platte North RWD - Bruno is required to test for the following contaminants: Coliform Bacteria, Antimony, Arsenic, Asbestos, Barium, Beryllium, Cadmium, Chromium, Copper, Cyanide, Fluoride, Lead, Mercury, Nickel, Nitrate, Nitrite, Selenium, Sodium, Thallium, Alachlor, Atrazine, Benzo(a)pyrene, Carbofuran, Chlordane, Dalapon, Di(2-ethylhexyl)adipate, Dibromochloropropane, Dinoseb, Di(2-ethylhexyl)-phthalate, Diquat, 2,4-D, Endothal, Endrin, Ethylene dibromide, Glyphosate, Heptachlor, Heptachlor epoxide, Hexachlorobenzene, Hexachlorocyclopentadiene, Lindane, Methoxychlor, Oxamyl (Vydate), Pentachlorophenol, Picloram, Polychlorinated biphenyls, Simazine, Toxaphene, Dioxin, Silvex, Benzene, Carbon Tetrachloride, o-Dichlorobenzene, Para-Dichlorobenzene, 1,2-Dichloroethane, 1,1-Dichloroethylene, Cis-1,2,-Dichloroethylene, Trans-1,2-Dichloroethylene, Dichloromethane, 1,2-Dichloropropane, Ethylbenzene, Monochlorobenzene, 1,2,4-Trichlorobenzene, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, Trichloroethylene, Vinyl Chloride, Styrene, Tetrachloroethylene, Toluene, Xylenes (total), Gross Alpha (minus Uranium & Radium 226), Radium 226 plus Radium 228, Sulfate, Chloroform, Bromodichloromethane, Chlorodibromomethane, Bromoform, Chlorobenzene, m-Dichlorobenzene, 1,1-Dichloropropane, 1,1-Dichloroethane, 1,1,2,2-Tetrachloroethane, 1,2-Dichloropropane, Chloromethane, Bromomethane, 1,2,3-Trichloropropane, 1,1,1,2-Tetrachloroethane, Chloroethane, 2,2-Dichloropropane, o-Chlorotoluene, p-Chlorotoluene, Bromobenzene, 1,3-Dichloropropene, Aldrin, Butachlor, Carbaryl, Dicamba, Dieldrin, 3-Hydroxycarbofuran, Methomyl, Metolachlor, Metribuzin, Propachlor.

How to Read the Water Quality Data Table:

The EPA and State Drinking Water Program establish the safe drinking water regulations that limit the amount of contaminants allowed in drinking water. The table shows the concentrations of detected substances in comparison to the regulatory limits. Substances not detected are not included in the table. The state requires monitoring of certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Therefore, some of this data may be older than one year.

MCL (Maximum Contaminant Level) – The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

MCLG (Maximum Contaminant Level Goal) – The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

AL (Action Level) – The concentration of a contaminant which, if exceeded triggers treatment or other requirements which a water system must follow.

MRDL (Maximum Residual Disinfectant Level) – The highest level of a disinfectant allowed in drinking water.

N/A – Not applicable.

Units in the Table:

ND – Not detectable.

ppm (parts per million) – One ppm corresponds to 1 gallon of concentrate in 1 million gallons of water.

mg/L (milligrams per liter) – Equivalent to ppm.

ppb (parts per billion) – One ppb corresponds to 1 gallon of concentrate in 1 billion gallons of water.

ug/L (micrograms per liter) – Equivalent to ppb.

pCi/L (Picocuries per liter) – Radioactivity concentration unit.

RAA (Running Annual Average) – An ongoing annual average calculation of data from the most recent four quarters.

LRAA (Locational Running Annual Average) – An ongoing annual average calculation of data from the most recent four quarters at each sampling location.

90th Percentile – Represents the highest value found out of 90% of the samples taken in a representative group. If the 90th percentile is greater than the action level, it will trigger a treatment or other requirements that a water system must follow.

TT (Treatment Technique) – A required process intended to reduce the level of a contaminant in drinking water.

Microbiological	Highest No. of Positive Samples	MCL	MCLG	Likely Source of Contamination	Violations Present		
No Detected Results were Found in the Calendar Year of 2022							
Lead and Copper	Monitoring Period	90 th Percentile	Range	Unit	AL	Sites Over AL	Likely Source of Contamination
COPPER, FREE	2022	1.006	0 - 1.02	ppm	1.3	0	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing.
LEAD	2022	2.9	0 - 4.17	ppb	15	0	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing.

During the 2022 calendar year, we had the below noted violation(s) of drinking water regulations.

Violation Type	Category	Analyte	Compliance Period
No Violations Occurred in the Calendar Year of 2022			

The Lower Platte North RWD - Bruno has taken the following actions to return to compliance with the Nebraska Safe Drinking Water Act:

Some or all of our drinking water is supplied from another water system. The table below lists all of the drinking water contaminants, which were detected during the 2022 calendar year from the water systems that we purchase drinking water from.

Regulated Contaminants	Collection Date	Water System	Highest Value	Range	Unit	MCL	MCLG	Likely Source of Contamination
ARSENIC	8/15/2022	City Of David City	6.53	2.14 - 6.53	ppb	10	0	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes.
BARIUM	1/21/2020	City Of David City	0.00649	0.00649	ppm	2	2	Discharge from drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
CHROMIUM	1/21/2020	City Of David City	1.72	1.72	ppb	100	100	Discharge from steel and pulp mills; Erosion of natural deposits.
FLUORIDE	1/21/2020	City Of David City	0.204	0.204	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; Fertilizer discharge.

Unregulated Water Quality Data	Collection Date	Water System	Highest Value	Range	Unit	Secondary MCL
CHLOROMETHANE	10/17/2022	City Of David City	1.94	1.94	ug/L	
SULFATE	12/7/2021	City Of David City	85.9	85.9	mg/L	250

During the 2022 calendar year, the water systems that we purchase water from had the below noted violation(s) of drinking water regulations.

Water System	Type	Category	Analyte	Compliance Period
No Violations Occurred in the Calendar Year of 2022				

There are no additional required health effects notices.

There are no additional required health effects violation notices.



Lower Platte North RWD - Colon

Annual Water Quality Report For January 1 to December 31, 2022

This report is intended to provide you with important information about your drinking water and the efforts made by the Lower Platte North RWD - Colon water system to provide safe drinking water.

Para Clientes Que Hablan Español: Este informe contiene información muy importante sobre el agua que usted bebe. Tradúzcalo ó hable con alguien que lo entienda bien.

For more information regarding this report, or to request a hard copy, contact:

SEAN C ELLIOTT
402-443-4675

If you would like to observe the decision-making processes that affect drinking water quality, please attend the regularly scheduled meeting of the Village Board/City Council. If you would like to participate in the process, please contact the Village/City Clerk to arrange to be placed on the agenda of the meeting of the Village Board/City Council.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline (800-426-4791).

Source Water Assessment Availability:

The Nebraska Department of Environment and Energy (NDEE) has completed the Source Water Assessment. Included in the assessment are a Wellhead Protection Area map, potential contaminant source inventory, and source water protection information. To view the Source Water Assessment or for more information please contact the person named above on this report or the NDEE at 402-471-3376 or go to <http://dee.ne.gov>.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Sources of Drinking Water:

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and groundwater wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals

and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

The source of water used by Lower Platte North RWD - Colon is purchased ground water. Our drinking water is supplied from another water system through a Consecutive Connection (CC). To find out more about our drinking water sources and additional chemical sampling results, please contact our office at the number provided above.

Buyer Name	Seller Name
Lower Platte North RWD - Colon	City Of Wahoo

Contaminants that may be present in source water include:

- * Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- * Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban storm water runoff, industrial, or domestic wastewater discharges, oil and gas production, mining, or farming.
- * Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- * Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.
- * Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

Drinking Water Health Notes:

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. All Community water systems are responsible for providing high quality drinking water but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have you water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline (800-426-4791), at <http://www.epa.gov/safewater/lead> or at the NDEE Drinking Water Division (402-471-1009).

The Lower Platte North RWD - Colon is required to test for the following contaminants: Coliform Bacteria, Antimony, Arsenic, Asbestos, Barium, Beryllium, Cadmium, Chromium, Copper, Cyanide, Fluoride, Lead, Mercury, Nickel, Nitrate, Nitrite, Selenium, Sodium, Thallium, Alachlor, Atrazine, Benzo(a)pyrene, Carbofuran, Chlordane, Dalapon, Di(2-ethylhexyl)adipate, Dibromochloropropane, Dinoseb, Di(2-ethylhexyl)-phthalate, Diquat, 2,4-D, Endothal, Endrin, Ethylene dibromide, Glyphosate, Heptachlor, Heptachlor epoxide, Hexachlorobenzene, Hexachlorocyclopentadiene, Lindane, Methoxychlor, Oxamyl (Vydate), Pentachlorophenol, Picloram, Polychlorinated biphenyls, Simazine, Toxaphene, Dioxin, Silvex, Benzene, Carbon Tetrachloride, o-Dichlorobenzene, Para-Dichlorobenzene, 1,2-Dichloroethane, 1,1-Dichloroethylene, Cis-1,2,-Dichloroethylene, Trans-1,2-Dichloroethylene, Dichloromethane, 1,2-Dichloropropane, Ethylbenzene, Monochlorobenzene, 1,2,4-Trichlorobenzene, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, Trichloroethylene, Vinyl Chloride, Styrene, Tetrachloroethylene, Toluene, Xylenes (total), Gross Alpha (minus Uranium & Radium 226), Radium 226 plus Radium 228, Sulfate, Chloroform, Bromodichloromethane, Chlorodibromomethane, Bromoform, Chlorobenzene, m-Dichlorobenzene, 1,1-Dichloropropene, 1,1-Dichloroethane, 1,1,2,2-Tetrachloroethane, 1,2-Dichloropropane, Chloromethane, Bromomethane, 1,2,3-Trichloropropane, 1,1,1,2-Tetrachloroethane, Chloroethane, 2,2-Dichloropropane, o-Chlorotoluene, p-Chlorotoluene, Bromobenzene, 1,3-Dichloropropene, Aldrin, Butachlor, Carbaryl, Dicamba, Dieldrin, 3-Hydroxycarbofuran, Methomyl, Metolachlor, Metribuzin, Propachlor.

How to Read the Water Quality Data Table:

The EPA and State Drinking Water Program establish the safe drinking water regulations that limit the amount of contaminants allowed in drinking water. The table shows the concentrations of detected substances in comparison to the regulatory limits. Substances not detected are not included in the table. The state requires monitoring of certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Therefore, some of this data may be older than one year.

MCL (Maximum Contaminant Level) – The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

MCLG (Maximum Contaminant Level Goal) – The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

AL (Action Level) – The concentration of a contaminant which, if exceeded triggers treatment or other requirements which a water system must follow.

MRDL (Maximum Residual Disinfectant Level) – The highest level of a disinfectant allowed in drinking water.

N/A – Not applicable.

Units in the Table:

ND – Not detectable.

ppm (parts per million) – One ppm corresponds to 1 gallon of concentrate in 1 million gallons of water.

mg/L (milligrams per liter) – Equivalent to ppm.

ppb (parts per billion) – One ppb corresponds to 1 gallon of concentrate in 1 billion gallons of water.

ug/L (micrograms per liter) – Equivalent to ppb.

pCi/L (Picocuries per liter) – Radioactivity concentration unit.

RAA (Running Annual Average) – An ongoing annual average calculation of data from the most recent four quarters.

LRAA (Locational Running Annual Average) – An ongoing annual average calculation of data from the most recent four quarters at each sampling location.

90th Percentile – Represents the highest value found out of 90% of the samples taken in a representative group. If the 90th percentile is greater than the action level, it will trigger a treatment or other requirements that a water system must follow.

TT (Treatment Technique) – A required process intended to reduce the level of a contaminant in drinking water.

TEST RESULTS

Microbiological	Highest No. of Positive Samples	MCL	MCLG	Likely Source of Contamination	Violations Present		
No Detected Results were Found in the Calendar Year of 2022							
Lead and Copper	Monitoring Period	90 th Percentile	Range	Unit	AL	Sites Over AL	Likely Source of Contamination
COPPER, FREE	2020 - 2022	1.124	0.226 - 1.48	ppm	1.3	1	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing.
LEAD	2020 - 2022	0.908	0 - 0.986	ppb	15	0	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing.

During the 2022 calendar year, we had the below noted violation(s) of drinking water regulations.

Violation Type	Category	Analyte	Compliance Period
No Violations Occurred in the Calendar Year of 2022			

The Lower Platte North RWD - Colon has taken the following actions to return to compliance with the Nebraska Safe Drinking Water Act:

Some or all of our drinking water is supplied from another water system. The table below lists all of the drinking water contaminants, which were detected during the 2022 calendar year from the water systems that we purchase drinking water from.

Regulated Contaminants	Collection Date	Water System	Highest Value	Range	Unit	MCL	MCLG	Likely Source of Contamination
ARSENIC	9/6/2022	City Of Wahoo	3.09	2.2 - 3.09	ppb	10	0	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes.
BARIUM	10/4/2021	City Of Wahoo	0.114	0.0539 - 0.114	ppm	2	2	Discharge from drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
CHROMIUM	10/4/2021	City Of Wahoo	1.69	1.39 - 1.69	ppb	100	100	Discharge from steel and pulp mills; Erosion of natural deposits.
COMBINED RADIUM (-226 & -228)	5/2/2022	City Of Wahoo	0.824	0.824	pCi/L	5	0	Erosion of natural deposits
FLUORIDE	10/18/2021	City Of Wahoo	0.394	0.343 - 0.394	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; Fertilizer discharge.
NITRATE-NITRITE	3/21/2022	City Of Wahoo	5.78	2.99 - 5.78	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
SELENIUM	10/18/2021	City Of Wahoo	6.26	5.37 - 6.26	ppb	50	50	Erosion of natural deposits

Unregulated Water Quality Data	Collection Date	Water System	Highest Value	Range	Unit	Secondary MCL
SULFATE	5/24/2022	City Of Wahoo	62.1	34.4 - 62.1	mg/L	250

During the 2022 calendar year, the water systems that we purchase water from had the below noted violation(s) of drinking water regulations.

Water System	Type	Category	Analyte	Compliance Period
No Violations Occurred in the Calendar Year of 2022				

There are no additional required health effects notices.

There are no additional required health effects violation notices.