

Water Committee Meeting  
Wednesday, May 1, 2024 6:00 PM  
Lower Platte North NRD Office  
P.O. Box 126  
Wahoo, NE 68066

1. UNFINISHED BUSINESS

2. REGULATORY

2.A. GROUND WATER MANAGEMENT AREA

2.A.1. Variance Requests in the Restricted Development Areas

Variana and Sons Inc in regard to the expansion of acres variance for the N1/2 SW1/4 S33-16N-4E Butler County.

Randy called and would like to delay this application to a future Committee Meeting.

2.A.2. Well Permit Program

2.A.3. Tile Drain Discussion

Discussion on tile drains as this is still an issue within the District. The committee and staff discussed which agency has the jurisdiction over tile drains. This has been handled in the past as a civil suit in the court system.

2.A.4. Cost Share Programs

2.A.4.a. Flow Meter Maintenance Program

An Invoice is attached for \$16,737 from Tri-City for meter maintenance in Saunders County. This completes the 4-year cycle of meter maintenance within the District. The plan is to go back to Zone 1 for 2024-25, which is northern Butler, Colfax and Eastern Platte Counties.

2.A.5. Lower Platte River Basin Water Management Plan Coalition (LPRBC)

Members of the Coalition Board held their annual meeting on Tuesday, April 23. The Board approved the IMP reports from each participating agency. They approved next year's budget with the dues being \$10,000 for each member. This fund will be utilized in future years to assist in the next modeling effort for determining 10/50 lines and stream depletion values.

Attached is the depletion chart.

2.B. CHEMIGATION

For 2024, we have 298 renewals and 9 new permit applications for a current total of 307. Inspections for 1 new permit have been completed.

2.C. GROUND WATER ENERGY LEVELS

GWEL information for Spring of 2024.

The following compares Spring 2024 to 2023 with all areas lower in 2024.

- Districtwide Spring of 2024 was 1.17 feet lower.
- The Upland area was 2.16 feet lower
- The Todd Valley area was 1.62 feet lower.
- The Platte Valley area was 0.58 feet lower.
- The Shell Creek area was 0.71 feet lower
- The WANN Basin area was 0.86 feet lower

Attached is some additional information.

The committee discussed whether the trigger levels and geological regions should be re-evaluated. The majority of the current triggers were developed in the 1990s with the data at that time. More data has been collected with AEM flights and assessments. The plan is to have LRE hydrogeologists present at the May water committee meeting, as they are currently working on the LPN groundwater management plan.

## 2.D. GROUND WATER QUALITY SAMPLING

This winter, staff has been collecting domestic samples all winter. 89 water samples were sent to the Health Lab in Lincoln with the average from all the samples 11.22 PPM. The range was 0 to 36.40 with any samples over 10 ppm that did not have a RO unit informed about the rebate program, with NDEE. Four test your wells events were held along with some of these results not being sent to the lab as they showed nitrate under 8 PPM with the testing kits.

The committee discussed a RO rebate system for LPN along with assistance on registering the wells. Staff will be developing a rebate program for the Committee to review at the May Committee meeting.

## 3. GROUND WATER PROGRAMS

### 3.A. DECOMMISSIONED WELL PROGRAM

#### 3.A.1. Well Estimates

One new well has been reviewed and approved for decommissioning since the last Committee meeting.

Well Owner	Type of Well	Cost Share Estimate	County
Dworak Agriculture LLC (Donald Dworak)	Irrigation	1292.24	Butler

### 3.A.2. Plugged Wells

1 well has been plugged, reviewed, and ready for cost share payment approval this month.

Well Owner	Type of Well	Cost Share Estimate	County
Gary Harms	Irrigation	\$ 1,261.13	Platte

### 3.B. LOWER PLATTE NORTH NRD GROUND WATER STUDIES

Attached find a bill from Sentinel Fertigation Inc. for a nitrogen efficiency project. The demonstration site is located on Meduna Family Land in Saunders County.

**A motion will be needed at Board Meeting to pay Sentinel Fertigation \$10,803.88 for equipment needed for the demonstration site.**

#### 3.B.1. Phase Area Update

The following applications are ready for payment from the LPNNRD.

- Flow meter application for Skytown Properties for \$1,000
- Flow Meter application for Midland Land LLC for \$1,000.
- Cover Crop Incentive for Midland Land LLC for 79 acres at \$5/acre for a total of \$395.
- Soil Moisture Sensors for \$750 to Midland Land LLC for 13-17-3, Colfax County
- Flow meter application for Rambour Realty Co for \$1,000.
- Flow meter application for Fred Otradovsky for \$1,000.
- Flow meter applications to Mark Horejsi for \$4,000.

The total amount of the cost share for the April Committee Meeting is \$9,145. More paperwork might be received with more reimbursement by Board meeting.

Received 2 flow meter applications from Edwin Slavik for \$1,000/meter  
Received 1 flow meter application from Calvin Nelson for \$1,000/meter.  
Received 1 flow meter application from Leander Rerucha for \$1,000/meter  
Received 1 flow meter application from Lost Creek LLC for \$1,000/meter.  
Received 1 flow meter application from Dan Zoucha for \$1,000/meter.  
Received 1 flow meter application from Violet Theilan for \$1,000/meter.  
Received 1 flow meter application from CMC Landholdings LLC for \$1000/meter.

Received 1 flow meter application from Denise McAfee for \$1,000/meter.  
Received 1 flow meter application from Galyn Johannes for \$1,000/meter  
Received 1 flow meter application from Rambour Realty for \$1,000/meter.  
Received 3 flow meter applications from Carl Grotelueshen for \$1,000/meter  
Received 1 flow meter application from Roger Wilshusen for \$1,000/meter.  
Received 1 flow meter application from Jon Engel for \$1,000/meter.  
Received 2 flow meter applications from Gregg Melliger for \$1,000/meter.  
Received 3 flow meter applications from Midland Land LLC for \$1000/meter.  
Received 1 flow meter application from Skytown Properties for \$1,000/meter.  
Received 1 flow meter application from Trish Vojtech for \$1,000/meter  
Received 1 flow meter application from Lonnie Kitt for \$1,000/meter.  
Received 3 flow meter applications from Marcy Kallweit for \$1,000/meter  
Received 1 flow meter application from Brian Kluck for \$1,000/meter.  
Received 1 flow meter application from Keith Kallweit for \$1,000/meter.  
Received 14 flow meter applications from A Glen Kluck Co for \$1,000/meter.  
Received 1 flow meter application from Galen Cech for \$1000/meter.  
Received 2 flow meter applications from Richard Shonka for \$1,000/meter.  
Received 1 flow meter application from Lorene Oehlrich for \$1,000/meter  
Received 2 flow meter applications from Arnold Oehlrich for \$1,000/meter.  
Received 1 flow meter application from Rae Jean Sjogren for \$1,000/meter  
Received 2 flow meter applications from Larry Kohler for \$1,000/meter.  
Received 2 flow meter applications from Gary Wachal for \$1,000/meter.  
Received 1 flow meter application from Scott Muhle for \$1,000/meter.

The total amount committed for flow meter cost share is \$150,000, which NRD budgeted \$170,000 for this cost share item.

Dan Wachal was approved for a gravity to pivot conversion through the NRCS on the NW of the SE for Section 10-17N-2, Colfax County. The LPNNRD will be proceeding with approving the application for \$10,000 received on July 19, 2023. The NRD initially budgeted \$5,000 but increased to \$10,000 in the fall after receiving a total of 8 applications. This will be the 5th application that NRCS approved, but still have 3 more applications waiting for funding.

Received 1 application from Mel Bailey on the Iron Chlorosis Incentive Program for \$3,000 on 200 acres at \$15/acre located on Section 18-17N-3E.

### 3.B.2. Groundwater Management Plan

Staff met with LRE on suggestions for the GWMP. An update on these recommendations is planned at the May Water Committee Meeting. The plan is to have 2 stakeholders meeting in the first week of June.

An invoice is attached for \$4,717.50 per contract.

### 3.B.3. Lower Platte River Consortium

The Consortium group met on Wednesday, April 24. Items discussed were water levels by NRDs and Municipalities along with stream flows in the Platte River. An update was given on the current drought and communication between

agencies.

A workshop was held after the regular meeting to discuss the purpose of the group, along with potential projects and education. A synopsis is being put together for the group to consider and if any projects have the potential to move forward. The next meeting is planned for May 29 to discuss the current drought and projects.

### 3.C. NEW MONITORING WELLS EQUIPMENT

Staff are working with In-situ on equipment like splitters and rain gauges that would be purchased with the current credits.

Staff showed the current online HydroVue Information from In-Situ to the Committee.

## 4. SURFACE WATER PROGRAMS

### 4.A. STATE LAKES, FOR THE WEEK OF

Hello everyone!

A new season of Beach Watch begins on May 6<sup>th</sup>! NDEE and our sampling partners are ready for another season of beach monitoring for microcystin and *E. coli* bacteria. Sampling will be occurring at 55 beaches on 50 different lakes across the state of Nebraska from May 6<sup>th</sup> to September 30<sup>th</sup>. One item to note is that Summit and Wagon Train Lakes will not be sampled this year until lake water levels increase as levels remain low due to recent renovations.

A "Health Alert" will be issued at beaches when microcystin exceeds 8 ppb and signs will be posted (see below). When *E. coli* bacteria levels are measured above 235 colonies/100ml of sample a "Health Alert" will not be triggered, but conditions are considered a high risk for illness if water is ingested. Unlike with dangerous levels of HABS, signs are not specifically posted and beaches are not closed for high bacteria levels. This is primarily because bacteria values change quickly while microcystin levels are more persistent and can remain for several weeks.

If you would like more information on HABS follow the links below:

NDEE HABS Fact Sheet: <http://deq.ne.gov/NDEQProg.nsf/OnWeb/ENV042607>

EPA Harmful Algal Blooms (HABS) in Water Bodies: <https://www.epa.gov/habs>

Here's to the new Beach Season!

Justin Haas  
**State Lakes Coordinator**  
**Nebraska Department of Environment and Energy**  
P.O. Box 98922  
245 Fallbrook Blvd., Suite 100  
Lincoln, Nebraska 68509-8922  
Direct: 402-471-4224 | Main office: 402-471-2186

5. OTHER

5.A. COMMENTS FROM THE PUBLIC

Tri City Meters, Inc.  
 210 E. Front St.  
 P O Box 126  
 Alda, NE. 68810



# SALES INVOICE

Date	Invoice #
4/16/2024	19991

Please Remit Payment to: P.O. Box 126 Alda, NE. 68810-0126

Bill To:

Ship To:

Lower Platte North NRD  
 511 Commercial Park Rd  
 Wahoo, NE 68066

P.O. No.	Terms	Ship Date	Ship Via
	Due on receipt	4/11/2024	

Item	Quantity	Description	Rate	Amount
LPNRD Meter Ser...	255	2023 Meter Service Meter Service work in LPNRD Mechanical Meters	60.00	15,300.00
LPNRD Meter Ser...	11	Meter Service work in LPNRD Electronic Meters Senninger/Seametrics	75.00	825.00
SI7400-0011	14	Batteries f/ Signet 8150	18.00	252.00
Sea31126-00	4	SeaMetric Battery Pack 7.2V for AG2000	90.00	360.00
<b>Total</b>				\$16,737.00

Payment Terms: - Invoice amount shall be due and payable in thirty (30) days from invoice date.  
 - Interest at 1.5 percent per month shall be accrued on any unpaid past due balance.

This Invoice is Subject to the Policies, Terms, and Conditions Set Forth on the Reverse Side.

Phone #	Fax #	E-mail
308-379-2013	308-382-1811	tricitymeters@gmail.com

LOWER PLATTE BASIN WATER MANAGEMENT COALITION  
 FIFTH REPORTING PERIOD: JAN 1, 2023 TO DECEMBER 31, 2023

TABLE 1 - PEAK SEASON DEPLEITIONS

NRD	Peak Season					Combined Percent of Allowable
	Remaining 5-YR Allowable Depletion (AF)	2023 NRD Reported NET Depletion (AF)	NRD - Percent of Allowable	2023 NeDNR Reported Depletion (AF)	NeDNR - Percent of Allowable	
Upper Loup NRD	5393.46	39.5	0.7%	0.0	0.0%	0.7%
Lower Loup NRD	11928.68	-11.7	-0.1%	26.9	0.2%	0.1%
Upper Elkhorn NRD	2927.25	0.3	0.0%	0.0	0.0%	0.0%
Lower Elkhorn NRD	8356	305.9	3.7%	-38.0	-0.5%	3.2%
Papio-Missouri River NRD	1811.4	88.5	4.9%	0.0	0.0%	4.9%
Lower Platte South NRD	2065.526	-0.9	0.0%	0.0	0.0%	0.0%
Lower Platte North NRD	3790.808	205.4	5.4%	14.0	0.4%	5.8%
<b>TOTALS</b>	<b>36,273</b>	<b>627</b>	<b>1.7%</b>	<b>2.9</b>	<b>0.0%</b>	<b>1.7%</b>

TABLE 2 - PEAK SEASON DEPLEITIONS AND CONSUMPTIVE USE

NRD	PEAK SEASON 5-YR ALLOWABLE DEPLETION (AF)	2023 NRD Reported NET Depletion (AF)	NeDNR Reported Depletion (AF)	NRD Prior Years Peak Season Consumptive Use (AF)	2023 NRD Peak Season Consumptive Use (AF)	NRD Total Peak Season Consumptive Use (AF)	NeDNR Total Peak Season Consumptive Use (AF)	Total New Peak Season Depletions	Total New Peak Season Consumptive Use	Remaining 5- YR Allowable Depletion (AF)	Percent of Remaining 5- YR Allowable Depletion
Lower Loup NRD	11928.68	-11.7	26.9	2347.9	-69.6	2278.3	26.9	15.2	2305.2	11913.5	99.9%
Upper Elkhorn NRD	2927.25	0.3	0.0	686.1	1.1	687.2	0.0	0.3	687.2	2927.0	100.0%
Lower Elkhorn NRD	8356	305.9	-38.0	2826.6	605.5	3432.1	-38.0	267.9	3394.0	8088.1	96.8%
Papio-Missouri River NRD	1811.4	88.5	0.0	87.5	66.4	153.9	0.0	88.5	153.9	1722.9	95.1%
Lower Platte South NRD	2065.526	-0.9	0.0	26.6	-0.1	26.5	0.0	-0.9	26.5	2066.5	100.0%
Lower Platte North NRD	3790.808	205.4	14.0	1847.5	322.2	2169.7	14.0	219.4	2183.7	3571.4	94.2%
<b>TOTALS</b>	<b>36,273</b>	<b>627</b>	<b>3</b>	<b>8,782</b>	<b>1,060</b>	<b>9,841</b>	<b>3</b>	<b>630</b>	<b>9,844</b>	<b>35,643</b>	<b>98%</b>

# CHEMIGATION - May 2024

## TOTAL CHEMIGATION APPLICATIONS IN 2023 (701)

### NEW CHEMIGATION APPLICATIONS - 9

(5) Boone (0) Butler (1) Colfax (0) Dodge (1) Madison (0) Platte (2) Saunders

### RENEWALS: 298

BOONE COUNTY - 20  
BUTLER COUNTY - 24  
COLFAX COUNTY - 29  
DODGE COUNTY - 42  
MADISON COUNTY - 6  
PLATTE COUNTY - 69  
SAUNDERS COUNTY - 108

### RENEWAL INSPECTIONS: 0

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

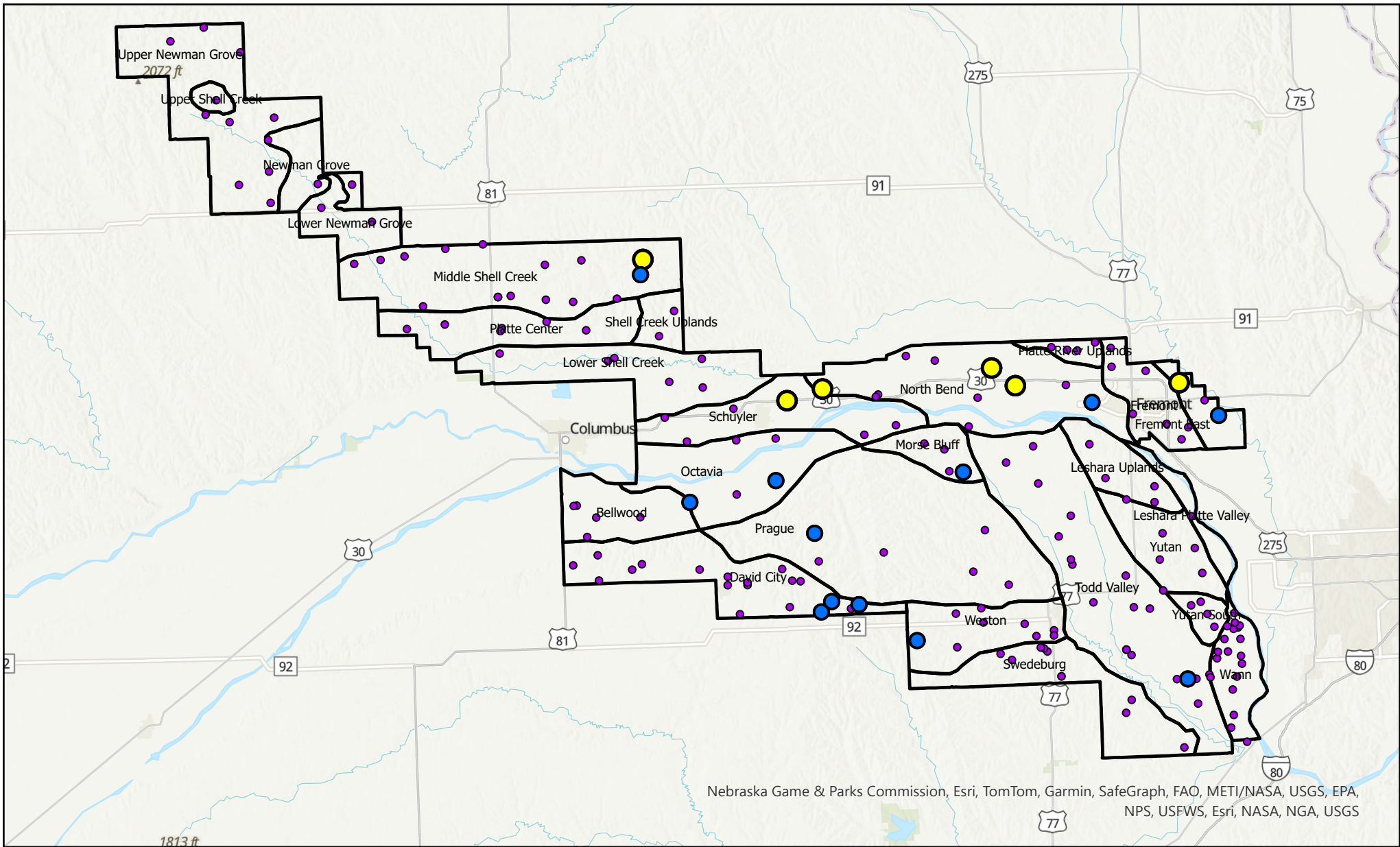
### NEW INSPECTIONS: 0

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

### NEW CANCELLATIONS: 0

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

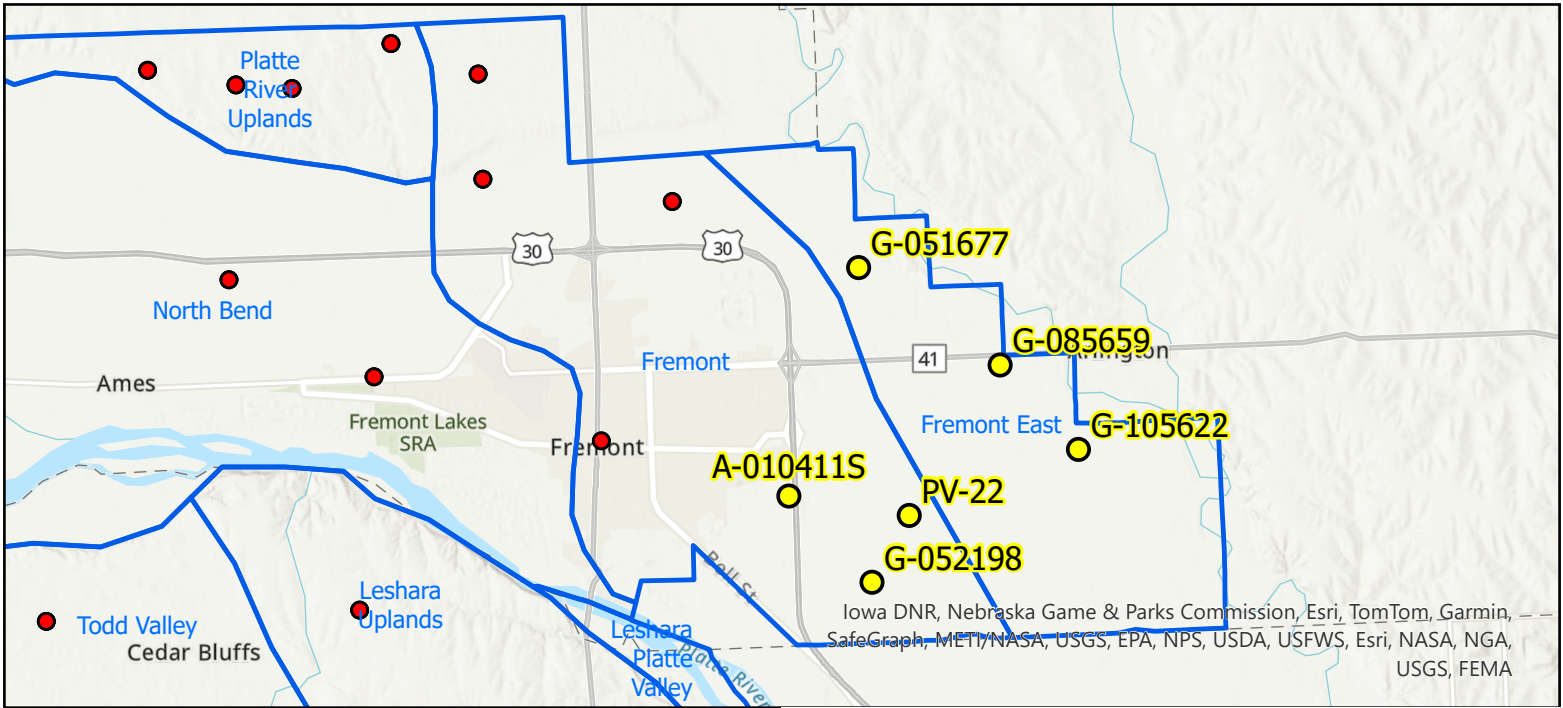
### EMERGENCY: 0



- Trigger Level met 2 consec. years
- Trigger Level met 3 consec. years
- GWL Networks (all wells)
- Subareas

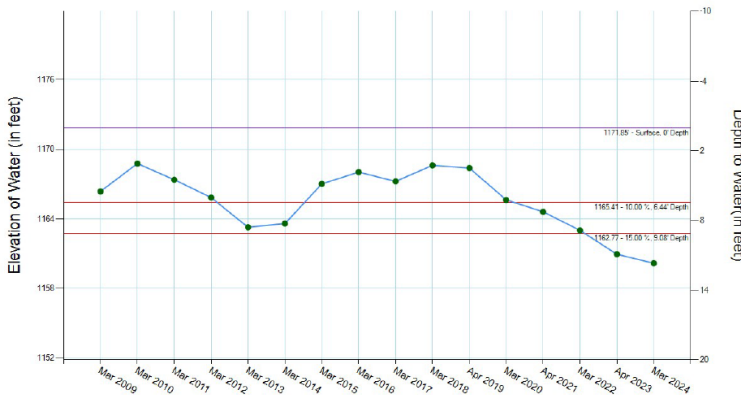
## Groundwater Level Network and Trigger Levels Met

# GWLs: Fremont East Subarea and Neighboring Wells

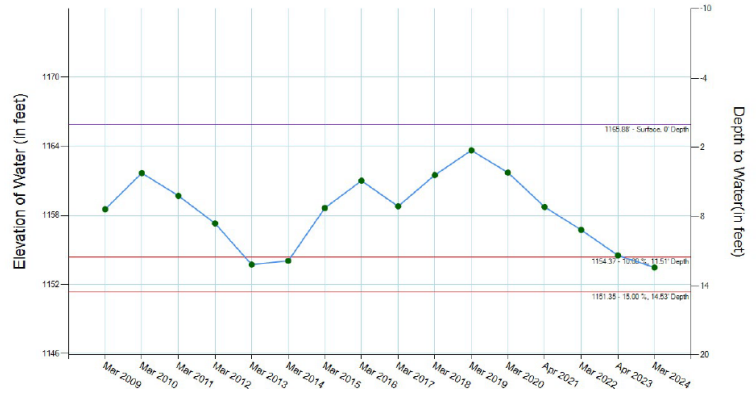


\* at least 3 years at or below trigger level

\*G-051677 Water Level Readings

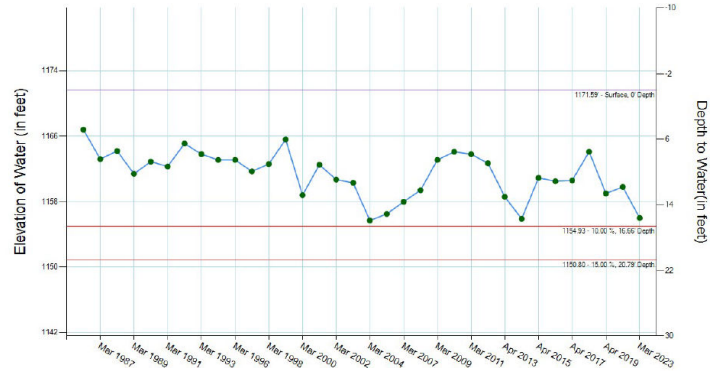


G-085659 Water Level Readings

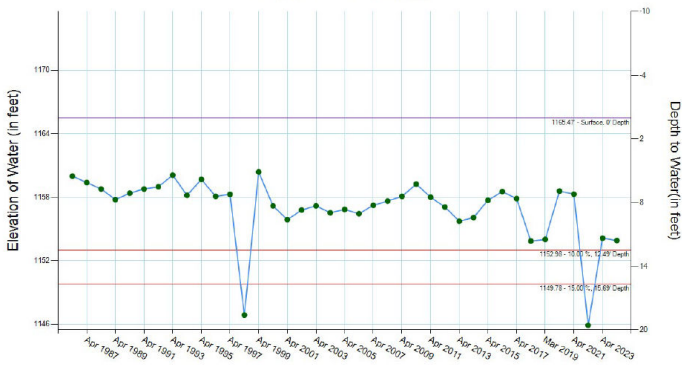


G-105622  
 Lower Trigger Level: 6.44  
 2022: 5.69  
 2023: 7.41  
 2024: 8.56

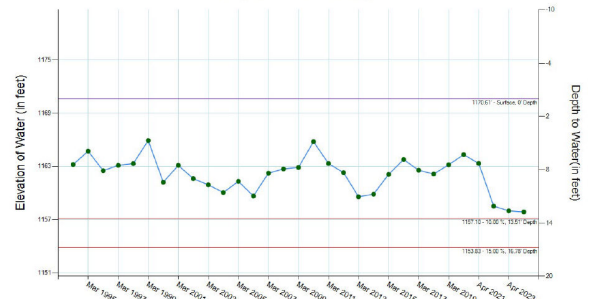
A-010411S Water Level Readings



PV-22 Water Level Readings



G-052198 Water Level Readings





April 9, 2024  
 Invoice No: 26025

<b>Invoice Total:</b>	<b>\$4,717.50</b>
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Daryl Andersen  
 Lower Platte North NRD  
 511 Commercial Park Road  
 Wahoo, NE 68066-0126

**Please Remit To:**  
**LRE Water**  
**1221 Auraria Pkwy**  
**Denver, CO 80204**  
**(303) 455-9589**  
**accounting@LREwater.com**

Invoice Email: dandersen@lpnnrd.org  
 Project No.: 5036LPN03  
 Project Name: LPNNRD GW Management Plan

**Professional Services through March 25, 2024**

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Task	01	Data Review & Assessment			
<b>Professional Personnel</b>					
			<b>Hours</b>	<b>Rate</b>	<b>Amount</b>
	Mohr, Jonathan		6.00	195.00	1,170.00
	Sopiwnik, Roscoe		7.00	200.00	1,400.00
	Totals		13.00		2,570.00
	<b>Total Labor</b>				<b>\$2,570.00</b>
				<b>Total this Task</b>	<b>\$2,570.00</b>

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Task	02	Stakeholder Involvement			
<b>Professional Personnel</b>					
			<b>Hours</b>	<b>Rate</b>	<b>Amount</b>
	Mohr, Jonathan		7.00	195.00	1,365.00
	Totals		7.00		1,365.00
	<b>Total Labor</b>				<b>\$1,365.00</b>
				<b>Total this Task</b>	<b>\$1,365.00</b>

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Task	03	Plan Development			
<b>Professional Personnel</b>					
			<b>Hours</b>	<b>Rate</b>	<b>Amount</b>
	Hume, David		2.00	245.00	490.00
	Mohr, Jonathan		1.50	195.00	292.50
	Totals		3.50		782.50
	<b>Total Labor</b>				<b>\$782.50</b>
				<b>Total this Task</b>	<b>\$782.50</b>

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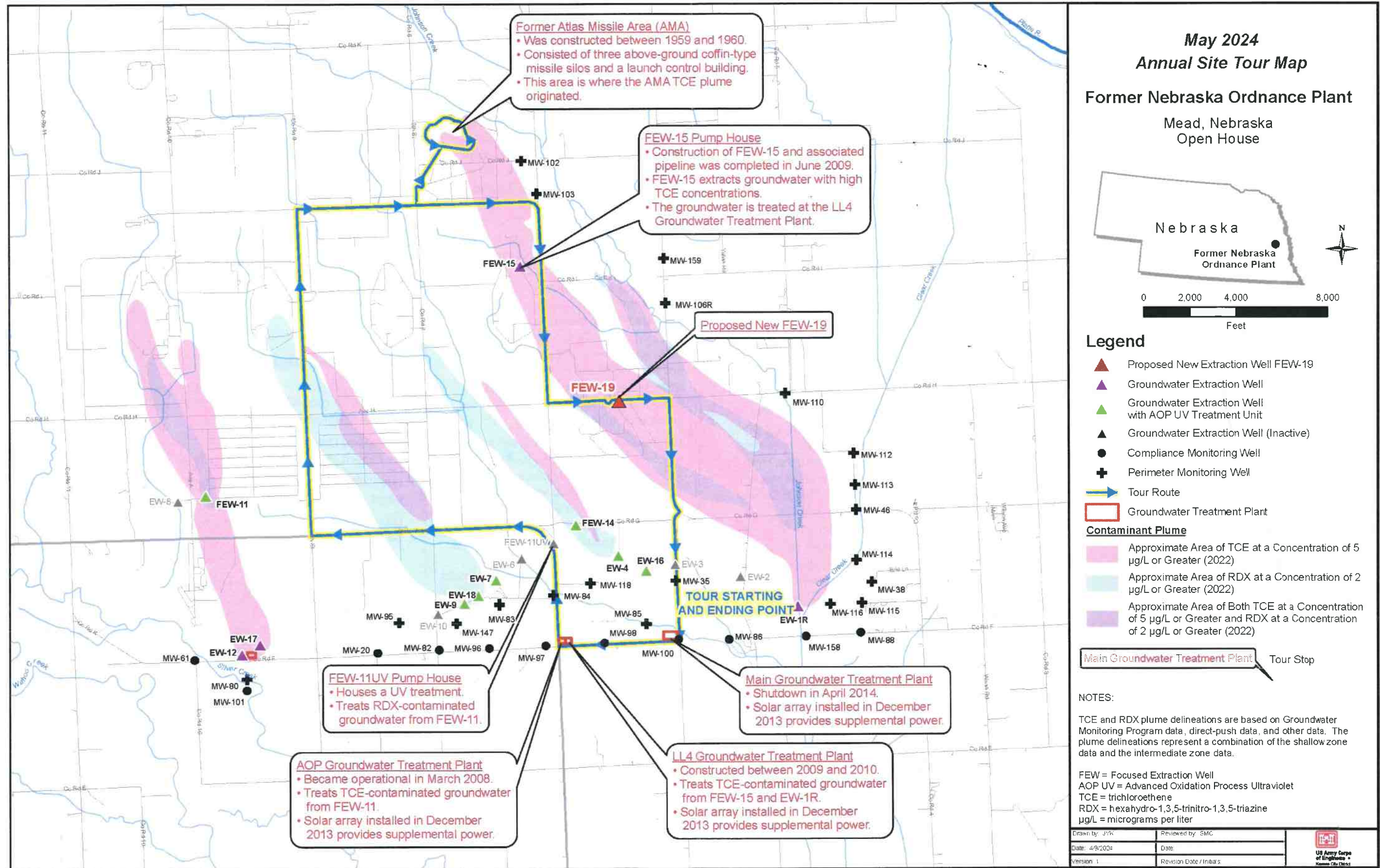
**Total this Invoice** \$4,717.50

**Outstanding Invoices**

<b>Number</b>	<b>Date</b>	<b>Balance</b>
25789	3/18/2024	3,371.50
<b>Total</b>		<b>\$3,371.50</b>

**Total Now Due** **\$8,089.00**

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# NEWS Letter

Former Nebraska Ordnance Plant ■ Mead, Nebraska

## Open House Meeting

The U.S. Army Corps of Engineers (USACE) will host the Spring Open House on Wednesday, May 22, 2024, at the Main Groundwater Treatment Plant located at the junction of County Road 6 and County Road F in Ashland, Nebraska. The Open House meeting will be from 4:30-5:15 p.m. and a Site bus tour will occur from 5:15 p.m. to approximately 7:00 p.m. Technical staff will be in attendance to answer specific questions regarding the former Nebraska Ordnance Plant (NOP). Representatives from the U.S. Environmental Protection Agency (EPA) and Nebraska Department of Environmental and Energy (NDEE) are expected to attend as well. A variety of handouts and displays will be available along with light refreshments.

Neighbors and residents are welcome to join us for a guided bus tour starting at 5:15pm that will introduce you to many parts of the groundwater clean-up project. The bus tour will begin at the Main Groundwater Treatment Plant and will drive to multiple locations, including the Load Line (LL) 4 and Advanced Oxidation Process Groundwater Treatment Plants, extraction well pump house with ultraviolet treatment system, and the former Atlas Missile Area. For further information regarding the meeting, contact the U.S. Army Corps of Engineers Project Manager at (816) 634-3148.

## Operation and Maintenance Summary

USACE conducts groundwater remediation in accordance with the 1997 Record of Decision for Operable Unit 2. Operation of the groundwater treatment system has removed the following from groundwater, as of March 31, 2024:

### Trichloroethene (TCE) removed:

- Load Line 1 groundwater treatment plant – 4,908 pounds
- Advanced Oxidation Process treatment plant – 51,034 pounds
- Load Line 4 groundwater treatment plant – 6,899 pounds

### 1,3,5-Trinitro-1,3,5-triazinane (RDX) removed:

- Ultraviolet treatment systems – 301 pounds

### Gallons of water treated since startup:

- Load Line 1 groundwater treatment plant – 4.1 billion gallons
- Advanced Oxidation Process treatment plant – 3.57 billion gallons
- Load Line 4 groundwater treatment plant – 4.09 billion gallons
- Ultraviolet treatment systems – 8.15 billion gallons

## New Focused Extraction Well FEW-19

In addition to groundwater extraction as a part of hydraulic containment, the remedy for Operable Unit 2 in the 1997 Record of Decision also includes focused extraction from areas with relatively high TCE and/or RDX concentrations to remove contamination more rapidly and shorten remediation timeframe when compared to hydraulic containment pumping alone. In Fall 2024, USACE plans to begin construction and installation of the Focused Extraction Well (FEW)-19 within center of the Load Line (LL) 4

## May 2024

For more information or any questions concerning the former Nebraska Ordnance Plant project, please contact:

Project Manager:

**Alissa Sutter**

U.S. Army Corps of Engineers  
Kansas City District  
601 East 12th Street  
Kansas City, Missouri 64106  
Phone: (816) 634-3148

or go to the project website at:

<https://www.nwk.usace.army.mil/Missions/Environmental/Environmental-Projects/NOP/>

Information repository documents are available for review at:

### Mead Public Library

316 South Vine Street  
Mead, Nebraska 68041  
Phone: (402) 624-6605

### Hours

Monday: 3:30 – 8:00 PM  
Tuesday: 9 AM – Noon/  
3:30 PM - 5:15 PM  
Wednesday: 3:30 – 8:00 PM  
Thursday: 9:00 AM – Noon/  
3:30 PM - 5:15 PM  
Friday: 8:00 AM – 11:30 AM  
Saturday: 9:00 AM - Noon  
Sunday: Closed

