

Regular Board of Directors Meeting  
Monday, October 9, 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. GMDA Winter Conference

The GMDA Winter Conference is being held January 23-25, 2024 at the Heartbeat of Music City, Cambria Nashville Downtown. See attached save the date notice and draft agenda.

6.A.2.a.2. 2024 NACD Annual Meeting

The 2024 NACD Annual Meeting is being held February 10-14, 2024 in San Diego, CA. The early bird registration deadline is December 22th . See draft agenda as attached.

6.A.2.b. Reports

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

6.A.2.b.2. Nebraska Land Trust

Director McKnight attended the Nebraska Land Trust Meeting at Lower Platte South on Friday, September 22nd and will give an update at Board Meeting.

6.A.3. MANAGEMENT ITEMS

6.A.3.a. Directors Absence

Discussion took place about director's absences.

6.A.3.b. Monthly Education Program

Kyle Overturf contacted staff after the Executive Committee and he will not have the Annual Audit ready until the November Board Meeting.

Gottschalk has arranged for Aaron Bos - CLASS Investment Services to present at the October Board Meeting. CLASS Investment Services operates just like our NPAIT and Union Bank STFIT.

6.A.3.c. New Office - Update

Updated office plans were handed out and emailed to directors.

6.A.3.d. Sand Creek Utility Easement

Gottschalk is working with the City of Wahoo on the final easement association with the city's sewer trunk extension project. An ingress/egress easement is needed for the limited work to be completed on the north side of our Wanahoo dam. We hope to have an easement ready to approve at the October board meeting.

6.A.3.e. Remote Reader Equipment Issues

Staff is currently working with METOS on our ongoing remote reader issues. After months of little to no communication, management has been in contact with Pessl Instruments (METOS' parent company) and are working through our immediate risk concerns with our 70 monitoring wells.

6.A.4. EQUIPMENT

6.A.5. PERSONNEL

6.A.5.a. O & M Technician

Staff interviewed three individuals for the Operation and Maintenance Technician position.

Kaitlyn Fehlhafer has been hired to fill the position. Kaitlyn has been working for the Lower Platte South NRD the past two summers and will graduate from UNL in December with a Bachelor of Science Degree in Fisheries and Wildlife with a focus on Habitat Management/Wildlife Ecology and Management.

Kaitlyn will work a couple days a week until she graduates in December and then will move to full-time status.

6.A.5.b. NRD/NRCS Employees - Federal Shutdown

Discussion is needed on how we plan to proceed in the event of a federal shutdown effective October 1st. We have five NRCS field office staff who will be affected by a shut down, 4 Field Office Assistants and one technician.

6.A.6. FINANCE

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

Grant reviewed the August Financial Statement.

We will approve the financial statements after we receive our Annual Audit.

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

Attached find Gottschalk's time and expense sheets.

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

6.B. Operations Committee - Action as Required

6.B.1. ELECT COMMITTEE VICE-CHAIR

Alex Kavan nominated Ryan Engel to be Vice-Chair of the Operations Committee. Nominations ceased.

6.B.2. UNFINISHED BUSINESS

Nothing to consider for unfinished business.

6.B.3. WILD NE AND OTHER PROGRAMS

We are having a virtual meeting with Biologist Tim Grosch with Ducks Unlimited on Monday, October 2nd to discuss the wetland renovation. We would like the following information -Revised design availability, Schedule for meeting w/ Saunders County Board, Schedule for bid announcement and opening, Budget Coordination, Construction initiation target date, Coordinate with M.E. Collins for potential spoil placement, and necessary site preparation needs and timelines. Scott Luedtke of Game & Parks is assisting the NRD with this project.

6.B.4. OPERATION & MAINTENANCE & OTHER ITEMS

The O & M crew has finished all our Fall mowing (Levee Districts have paid in full). We had a drone spray multiple areas of problem trees and vegetation. We sprayed small Phragmites areas along Clear Creek Levee and one on Wanahoo. Fixed split rail fence and Czechland Lake.

We will have a new O & M crew member this month, Kaitlyn Fehlhafer. She is graduating from UNL in December with a degree in Fisheries and Wildlife with emphasis on Habitat Management/Wildlife Ecology & Management. She has worked for the Lower Platte South NRD for the past two summers.

6.B.4.a. Rehabilitation of Cottonwood 21-A, NRCS & HDR

A public meeting is scheduled for Thursday October 12th from 5:00 to 7:00 at the Malmo Fire Hall. Previous to the public meeting, there will be an agency (NRD, NRCS, HDR) meeting starting at 1:00 pm at the NRD office. A public notice was published in the Wahoo Newspaper and letters were sent to landowners and tenants within the watershed. Lacey is adding information on this project to our website. HDR will provide all materials for the meeting.

6.B.4.b. Clear Creek Levee

The Corps of Engineers and Heimann did an annual inspection of the Clear Creek levee system from Camp Ashland to the north end (approx. 10-11 miles). The inspectors gave complimentary comments on the condition and upkeep of the levee but, they still find deficiencies.

We were also informed that the COE would like to close out the Western Sarpy Clear Creek Levee project this fiscal year (by Sept. 30). If it is closed-out we could re-consider selling the Thomas Lakes lots.

6.B.4.c. Lake Wanahoo Archery Range

On Saturday September 16, Eagle Scout Henry Waverka coordinated the building of a 10-40 yard archery range just north of the boat ramp parking lots. Heimann and Schomer assisted along with three scouts, members of the Big Game Conservation Association and family. Pictures attached.

6.B.4.d. Lower Platte Weed Group

Hexogon Helicopters started spraying Phragmites on the Platte River and surrounding areas on Monday September 25th. They have sprayed the Platte River from Hwy 81 to the mouth. Drew assisted in the mapping of areas to be sprayed from Hwy 81 to the Missouri River and other locations.

6.B.4.e. Jason Scott Bridge

Attached is a photo of Jason Scott's access bridge. This was installed, allowing Mr. Scott to gain access to a previously land-locked portion of his property on Sand/Duck Creek Dam 15. Copies of paid invoices will be submitted and cost-share will be paid.

6.B.5. ROCK AND JETTY

We haven't received applications or requests for payment.

6.B.6. LAKE WANAHOO

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

For the month of August, the District received \$2690.00 in annual park

permit revenue. The year by year break down of annual permit sales is listed below.

| <b>Month</b>     | <b>Monthly Total</b> | <b>YTD</b> |
|------------------|----------------------|------------|
| <b>July 2023</b> | \$2690.00            | \$70380.00 |
| <b>July 2022</b> | \$2902.50            | \$71767.50 |
| <b>July 2021</b> | \$2700.00            | \$82292.50 |
| <b>July 2020</b> | \$5035.00            | \$92507.50 |
| <b>July 2019</b> | \$4302.50            | \$79612.50 |

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

For the month of August, the District received \$14,707.66 in camping revenue. The year by year comparison is listed below.

| <b>Month</b>       | <b>Month Total</b> | <b>YTD</b>  |
|--------------------|--------------------|-------------|
| <b>August 2023</b> | \$14707.66         | \$97877.06  |
| <b>August 2022</b> | \$15626.91         | \$94044.74  |
| <b>August 2021</b> | \$11405.61         | \$93918.34  |
| <b>August 2020</b> | \$18197.95         | \$105843.35 |
| <b>August 2019</b> | \$14509.18         | \$75425.64  |

**6.B.6.c. Potential House Donation to Lake Wanahoo**

Last winter, a local landowner contacted staff regarding the potential donation of a home to the Lake Wanahoo property. The landowner would like a Board decision on whether this is something the District is interested in.

**6.B.6.d. Clint Johannes Education Building**

During the month of September, the building was rented 25 times with 3 NRD events. Total for the month was \$2,170.

**6.B.7. INFORMATION AND EDUCATION**

**6.B.7.a. Information**

**6.B.7.a.1. Radio & eAds**

September's KTIC radio ad featured the availability of environmental

education programs. October will feature the no-till grass drill rental options.

September's Wahoo newspaper e-ad featured the environmental education programs. October will feature the no-till grass drill rental options.

6.B.7.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.*

|  | <b>Total Reach</b> | <b>Engagements</b> | <b>Followers</b> |
|--|--------------------|--------------------|------------------|
|  | 1,406              | 59                 | 1,493            |
|  | 5,101              | 550                | 1,489            |

|  |      |     |       |
|--|------|-----|-------|
|  | 9260 | 428 | 1,481 |
|--|------|-----|-------|

|  | <b>Total impressions</b> | <b>Engagements</b> | <b>Followers</b> |
|--|--------------------------|--------------------|------------------|
|  | 4,517                    | 215                | 406              |
|  | 3,292                    | 123                | 405              |
|  | 2,072                    | 99                 | 404              |

**Top Posts on Facebook and Twitter:**

- Cover crop field demo flyer
- Coffee Lakeside flyer
- Envirothon Field Day flyer
- Drought monitor map
- Movement in Nature event flyer

|  | Users | Traffic Channel   | Top Pages   | Devices   |
|--|-------|---|---|---|
|  | 1,649 | Organic 75%<br>Direct 20.1%<br>Referral 4.1%<br>Social 0.8%   | Lake Wanahoo<br>Home<br>Czechland Lake<br>Outdoor Recreation<br>Staff     | Mobile 59.9%<br>Desktop 38.4%<br>Tablet 1.7%    |
|  | 2,402 | Organic 63.1%<br>Direct 30.3%<br>Referral 4.7%<br>Social 1.9% | Lake Wanahoo<br>Home<br>Czechland Lake<br>Downloads<br>Staff              | Mobile 53.28%<br>Desktop 45.59%<br>Tablet 1.13% |
|  | 2,409 | Organic 71.8%<br>Direct 21.7%<br>Referral 5.2%<br>Social 1.3% | Lake Wanahoo<br>Home<br>Czechland Lake<br>Downloads<br>Outdoor Recreation | Mobile 62.2%<br>Desktop 36.2%<br>Tablet 1.5%    |
|  | 2,523 | Organic 72.7%<br>Direct 20.8%<br>Referral 5.4%<br>Social 1%   | Lake Wanahoo<br>Home<br>Czechland Lake                                    | Mobile 65.2%<br>Desktop 33.1%<br>Tablet 1.7%    |

|  |  |  |                              |  |
|--|--|--|------------------------------|--|
|  |  |  | Outdoor Recreation Downloads |  |
|--|--|--|------------------------------|--|

*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).*

6.B.7.b. Education

6.B.7.b.1. Past Events

- **September 14th:** Coffee Lakeside, Nature's patterns, 3 people attended.
- **September 15th:** Papio NRD Field Trip assistance, 75 2nd grade students went through 3 different stations.
- **September 19th:** Envirothon Field Day. Students from Arlington (8), Stanton (7), Scribner-Snyder (10), Bennington (13), Lutheran High Northeast-Norfolk (5), Freeman (4), and Zoo Academy-Omaha (4), attended a learning day at Lake Wanahoo for the future Envirothon Competitions.
- **September 20th:** Moving with Nature - Let's Play Yoga Event. 10 people attended.
- **September 21st:** Fremont Middle School Outdoor Day. Due to the weather, we hosted 150 out of the 300 students, at 4 different stations. Tree planting (Sean and Dave), Careers Jeopardy (Lacey and Ryan), Aquatic Insects and Aquifers (Will, Russell, Noah), and Pollination and seed bombs (Sydney).
- **September 26th:** St. Wenceslaus pre-K classroom visit. Students learned about trees.

6.B.7.b.2. Future Events

- **September 29th:** Arlington public schools, 1st graders. Topic is soil.
- **October 3rd:** Trinity Lutheran Survival 1/2 day
- **October 3rd-6th:** Fairground Festival with Extension
- **October 12th-13th:** I&E Meeting in Wahoo
- **October 18th:** Survival Club
- **October 19th:** Coffee Lakeside
- **October 24th:** Papio Field Trip
- **October 25th:** Wahoo 1st grade first field trip
- **October 27th-29th:** Fall Festival

6.B.8. RURAL WATER SYSTEMS

6.B.8.a. Colon System

A new home is nearing completion and RWD is in the process of tapping line and installing the new meter.

Routine monthly sampling completed, bills will be mailed 9/29.

6.B.8.b. Bruno System

The communication issues between the Bruno water tower and Bruno RWD meter pit have been resolved. Atlas Automation upgraded the radios and relocated the pressure transducer to the meter pit. Everything is working as it should. All costs for this project were covered by the Village of Bruno.

Routine monthly sampling completed, and bills will be mailed 9/29.

6.B.8.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)

The District reviewed 49 applications totaling 569.74 acre feet of new depletion, and 3520 acres. Attached is the ranking sheet for these applications.

The Board can approve up to 200 acre feet of new depletion per year.

6.C.2.a.2. Variance Requests in the Restricted Development Areas

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

6.C.2.a.4. Well Permit Kevin Indra

Kevin Indra applied for a Well Permit classified as Other (Wildlife/Wetlands) for the NW SW S13-17N-5E, Saunders County. He plans on utilizing the well normally in October for waterfowl and only when necessary.

Attached are the well permit and maps of the location.

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

Jeff Temme applied for a replacement well permit for G-064047 on the NW NE S23-22N-6W, Boone County on May 18, 2023. NRD staff approved the permit and the well was drilled. Part of the process is that Jeff is required to abandon the old well to classify it as a replacement well. Jeff would like to keep the old well as a livestock well and put in a submersible pump that would pump about 20 GPM. The NRD would change his permit from a replacement well to a new well with no

increase in irrigated acres. The new well would receive a new DNR well number if the well permit is classified as a new well.

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

Staff met with Jesse Korus- UNL CSD and Lower Elkhorn (LE) staff to discuss the data available for SQS #2 and the area north of the line. Jesse commented on the study he had been working on showing the unconfining and confining layers, that the pumping wells to the north would not have much influence on what is happening within the LPN District. LE completed a similar study with LRE on geological assessment that LPN has just completed. It was discussed that LPN and LE GIS personnel would complete some maps showing both sides of the NRD lines utilizing the current data. Discussion on allocations and confining layers and does it help during the pumping season, as groundwater pressure in some areas comes back to previous levels yearly.

Attached is some information from graduate students and Jesse Korus. The first attachment is a map and description of some of the areas in the SQS 2 areas, with the other attachment the complete study conducted by these individuals. Also shown is a presentation given by Jesse at the Committee meeting in March of 2022.

6.C.2.a.7. Cost Share Programs

6.C.2.a.7.A. Irrigation Well Sample Kits

337 kits to producers so far in 2023. 318 of these have been returned.

6.C.2.a.7.B. Flow Meter Maintenance Program

The flow meter maintenance contract will expire in the spring of 2024. Attached is a letter that will be sent out to individuals and firms that might have an interest in doing flow meter maintenance within LPNNRD. Staff will be sending the letter out in the first part of October with Committee reviewing at the next Committee Meeting with Board Approval in November. The firm selected will not start until fall/winter 2024-25. The District does maintenance on about 300 - 350 meters a year at this time.

The Committee had no changes to the letter and staff will proceed with sending it out in October.

6.C.2.a.8. 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 to 19.8        | 50.8% (32 of 63)  | 15.9% (10 of 63) | 20.6% (13 of 63)  | 12.7% (8 of 63)   |

6.C.2.a.9. 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  | 27% (68 of 255)   |  |

Five more samples from this area have been returned - these are at HHS lab.

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

Attached is the list of producers that have been identified as active producers but have let their LPNNRD certification expire. NRD staff has offered a couple of options during the summer, which a couple of producers in attendance to get into compliance. This list is only for individuals that attended a certification class in the past but does not include individuals that have never attended.

Discussion points.

- Should the NRD certification class be offered Districtwide or only in management areas (quantity and quality)?
  - The committee would prefer keeping the rule Districtwide.
- Enforcement ideas after non-compliance determination.
  - 1 - year timeout from well permits and variances after becoming in compliance.
  - At this time, a person can become in compliance immediately upon an application.
  - The well permit could have some legality.
- Well permits could be an issue, but most well drillers won't drill without a permit.
  - The committee questioned how this might be handled with landowners and tenants . More discussion at future Committee meetings.

- Chemigation is another option, but you don't want someone doing something illegally.
- No NRD cost-share for a certain amount of time.

The committee asked staff about what should happen next. Staff will make phone calls to all of the producers on the list for one last attempt to bring them into compliance.

6.C.2.b. CHEMIGATION

no updates for chemications, same 5 left to do after harvest

6.C.2.c. GROUND WATER ENERGY LEVELS

Attached is information on summer water levels in WANN Basin.

6.C.3. GROUND WATER PROGRAMS

6.C.3.a. DECOMMISSIONED WELL PROGRAM

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

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

| Well Owner                       | Type of Well | Cost Share Estimate | C |
|----------------------------------|--------------|---------------------|---|
| Luke Glaser and Christina Glaser | Domestic     | 1044.30             |   |
|                                  |              |                     |   |
|                                  |              |                     |   |

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

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

| Well Owner | Type of Well | Cost Share Estimate |  |
|------------|--------------|---------------------|--|
|            |              |                     |  |
|            |              |                     |  |
|            |              |                     |  |

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

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

An invoice is attached from LRE for \$4,872.13 for Hydrological Assessment per contract.

The staff would like some clarification on Phase 4 water quality rules:

Rule 1 - Levels of nitrate exceed 15.01 ppm for nitrates or other non-point source containments.

Rule 2 - Continuation of Phase One, Two and Three Rules. Consideration of the reporting deadline so soil samples are taken into consideration in the same crop year. A 2 part reporting process or one deadline of March 15.

-- Discussion at the committee meeting on why it is important to receive information prior to the upcoming crop year.

Rule 3 - Split application of commercial nitrogen is required with 80 pounds maximum applied before May 1.

Rule 4 - Nitrogen application must not exceed District Recommendations.

-- Discussion at the Committee meeting on how this was calculated on LPN reports.

Rule 5 - Flow meters are required on all high capacity wells

Rule 6 - A rolling acre-inch allocation, in 3-year increments, will be put into place by the District and will be based on the aquifer subarea, crop planted, irrigation distribution system, percent decline of the aquifer, water use of the aquifer, climatic conditions, net corn crop requirements, and discretionary factors.

Rule 7 - NRD staff will work directly with individuals on Best Management Practices.

### 6.C.3.b.2. Phoenix Database

An invoice from Phoenix Web Group for \$8,635 is attached for the second part of the payment per contract approved in June 2023. This was an update to the NRD database.

The staff made a presentation at the Committee on the new updates and how it will streamline some of the entries when the producer is entering the data online.

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

The next meeting will be held October 17 at MUD Platte River West. This meeting will discuss options to consider new or removal of existing projects..

## 6.C.3.c. MONITORING WELLS EQUIPMENT

Staff has been installing In-Situ equipment for a few of the wells within the District. An invoice from In-Situ is attached for \$83,225.95, which the Board approved a quote at the July Board meeting for \$91,901.45. There might be other costs in the future as NRD staff keeps repairing the cables. Discussion at the committee meeting showed the issue with the splices in the cable and the need to fix them correctly before other issues arise. A representative from In-Situ was present to answer questions and staff showed the website where the data is displayed.

6.C.4. Groundwater Retreat

A groundwater retreat is being planned for the water committee and any other board member for Wednesday, November 29 from 2:30 to 5:30 pm, Water Committee meeting will start at 6 pm.

Tentative Agenda Item:

- First 30 minutes, there will be an update and review of general groundwater information.
- Discussion on SQS #2 and management
- Nitrogen Management
- Crop Insurance and changing practices.
- Other Issues?

6.C.5. SURFACE WATER PROGRAMS

6.C.5.a. STATE LAKES, FOR THE WEEK OF

This week's beach Bacteria and Harmful Algal Bloom results are now posted on the NDEE web page ([Current Health Alerts and Sampling Results For This Week](#)).

There will be **1** beach on Health Alert this week. Willow Creek Reservoir in Pierce County remains on Health Alert. While Glenn Cunningham Lake in Douglas County will be removed from Health Alert. When a lake exceeds 8 ppb of microcystin it will be placed on Health Alert.

| <b>Current Lakes on "Health Alert"</b> |               |                          |            |
|--|---------------|--------------------------|------------|
| <b>Lake</b>                            | <b>County</b> | <b>Microcystin (ppb)</b> | <b>Sam</b> |
| <b>Willow Creek Reservoir</b>          | <b>Pierce</b> | <b>&gt;35</b>            | <b>9/1</b> |

A lake that is placed on Health Alert will remain under Health Alert status until it has tested below 8 ppb. If a lake is under a Health Alert, signs will be posted recommending people avoid full body contact activities such as swimming, wading, skiing, jet skiing, etc.

We have **0** beaches with *E.coli* testing above 235 colonies/100 ml.

| <b>Lakes with High <i>E.coli</i> Bacteria</b> |               |                            |                    |
|---|---------------|----------------------------|--------------------|
| <b>Lake</b>                                   | <b>County</b> | <b><i>E.coli</i> (mpn)</b> | <b>Sample Date</b> |
| <b>NONE!</b>                                  |               |                            |                    |

When *E. coli* bacteria levels test above 235 colonies/100 ml a Health Alert is not issued. However, conditions are at a higher risk to human health when swimming. Considering the more rapid changes in bacteria conditions, signs are not posted with these higher levels. Although, we want people to be aware of beach conditions and use their own judgment as to whether they use a listed water body. Have a great weekend!

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  
<http://dee.ne.gov> | [Twitter](#) | [Facebook](#)

6.C.6. OTHER

GMDA winter conference is January 23-25, 2024 in Nashville.

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

6.D. Projects Committee - Action as Required

6.D.1. UNFINISHED BUSINESS

6.D.2. JOINT WATER MANAGEMENT ADVISORY BOARD (JWMAB)

6.D.2.a. East Fremont/Elkhorn Township Drainage - FEMA HMPG

A Notice of Intent to apply for federal grant funds was submitted to NEMA (Nebraska Emergency Management Agency). The federal grant announcement has yet to be published due to FEMA's (Federal Emergency Management Agency) financial issues.

6.D.2.b. West Fremont - FEMA BRIC

A progress meeting occurred on September 14 at Fremont City Council Chambers. Structural and nonstructural alternatives were discussed. Coincident flow maps and rough costs area attached.

6.D.2.c. Rawhide Creek Watershed - NRCS WFPO

A public open house was held on September 6th at the Fremont Extension office. A good turnout of approximately 40 showed up with good questions and feedback. The official summary document will be shared with projects committee once it is completed.

6.D.3. SHELL CREEK WATERSHED

6.D.3.a. Shell Creek Implementation - 319 & NET

A SCWIG meeting occurred on September 19th at the Columbus NRCS office. As a reminder, the kids will present at our November Board meeting located in Newman Grove. A request was made from Newman Grove to provide consumable supplies needed by the students to continue analyzing groundwater samples. Project coordinator Bill Bos continues to make progress on implementing BMPs and staff are working on plans to rehabilitate six existing billboards and producing other promotional items including flyers and signs. The next SCWIG meeting is scheduled for December 5th at the Columbus NRCs office.

6.D.3.b. Tom Sprunk Grade Stabilization Project

Bill Bos submitted paperwork (attachment) for project certification and

payment for Tom Sprunk's grade stabilization project along Shell Creek. The final cost of the project came in at \$24,444.60, approved application cost was \$19,144.60. Cost overruns are due to cost of trucking in the fill material to meet compaction specs. Reimbursement for this project will come through the Shell Creek NET grant.

6.D.4. WAHOO CREEK WATERSHED

6.D.4.a. Dam Site Planning Update

6.D.4.a.1. Design - Olsson

Multiple meetings the past month regarding delays; USACE is requesting a further review by FWS for impacts related to Northern Long-eared bat, which is newly listed as endangered. Initial review by NRCS shows no impact to these species, but will require concurrence from FWS.

USACE will allow a Nationwide Permit (NWP) for the first 3 sites which will expedite the process by eliminating the alternative analysis and public comment period.

Design update: initially Olsson was operating that Nebraska DNR would supply edits to site 26A and any comments should be applied to further site designs and NRCS conducted reviews. Now, DNR will be reviewing all sites which will add to total review time.

Olsson invoice for \$63,439.25 is attached along with a progress report.

6.D.4.a.2. Real Estate - Olsson & Great Plains Appraisal

Olsson Real Estate invoice is attached for \$1,436.81.

Most work over the past month involved agency meeting and coordination with Great Plains appraisal scheduling. Overall work has slowed due to permitting delays.

6.D.5. HAZARD MITIGATION PLAN UPDATE

FEMA requested a few clarifications regarding our grant application for updating the HMP. JEO is submitting those on our behalf. This grant is also affected by FEMA's financial issues.

6.D.6. NEBRASKA BUFFER STRIP PROGRAM PAYMENTS

Our annual NeBSP (listed below) contract payments are due to be dispersed. Funding for the contracts comes from Nebraska Dept of Agriculture, while the NRD holds the contracts and performs status reviews. The NRD is reimbursed \$40.00 per status review.

Contract

| Holder                    | Acres | NDA #  | Annual Payment |
|---------------------------|-------|--------|----------------|
| Janice Wilke Trust        | 2.98  | 99400a | \$190.16       |
| Mary Theresa Norton Trust | 8     | 20062  | \$1,757.44     |

|                                    |      |        |            |
|------------------------------------|------|--------|------------|
| Mary<br>Theresa<br>Norton<br>Trust | 13.7 | 20062  | \$3,009.62 |
| Mary<br>Theresa<br>Norton<br>Trust | 11.2 | 20059  | \$2,399.04 |
| Mark<br>Wilke                      | 4.81 | 99400b | \$457.91   |
| Charles<br>Barjenbru<br>ch         | 9.5  | 100    | \$2,033.00 |
| Randall<br>Brabec                  | 1    | 22010  | \$250.00   |
| James<br>Barjenbru<br>ch           | 2.5  | 23015  | \$595.88   |
| James<br>Barjenbru<br>ch           | 8.2  | 362    | \$1,661.98 |
| Ed<br>Luetkenha<br>us              | 4.5  | 10058  | \$967.50   |
| Larry<br>Bruhn                     | 4.7  | 21007  | \$876.36   |
| Tom<br>Sprunk                      | 13.3 |        | \$2,992.50 |
| Tom<br>Sprunk                      | 2.8  |        | \$630.00   |
| Tom<br>Sprunk                      | 2.1  |        | \$472.50   |
| Dean Klug<br>Family<br>Trust       | 6.3  | 99074a | \$232.72   |
| Norman<br>Lindgren                 | 2.1  | 20027  | \$83.16    |
| Rod<br>Julsen*                     | 23.1 | 451    | \$5,197.50 |
| Kaye<br>Lidolph                    | 7.8  | 20037  | \$1,381.30 |
| Rezac<br>Farms Inc                 | 4.7  |        | \$1,057.50 |
| Rezac<br>Farms Inc                 | 3.6  |        | \$786.96   |

|                            |        |        |             |
|----------------------------|--------|--------|-------------|
| Rezac Farms Inc            | 1      |        | \$218.60    |
| Rezac Farms Inc            | 1.4    |        | \$306.04    |
| Rezac Farms Inc            | 1.7    |        | \$371.62    |
| Rezac Farms Inc            | 3.5    |        | \$787.50    |
| Dan Gehring/Arllis Plummer | 8.9    | 21020  | \$2,148.46  |
| Reece/Berklau Klug         | 11.7   | 21024  | \$2,632.50  |
| David Luckey               | 12.7   | 21022  | \$2,818.89  |
| Diann Svatora              | 5.5    | 21023  | \$1,327.70  |
| Sam Welch                  | 4.9    | 21025  | \$1,050.32  |
| River Road Land INC        | 13     | 00143a | \$3,250.00  |
| Craig Foltz                | 27.3   | 00574a | \$6,825.00  |
| Dry Creek Farms (Vavricek) | 11.7   |        | \$2,925.00  |
| Charlene Klug (Welch)      | 2.1    | 23016  | \$467.10    |
| Total                      | 228.49 |        | \$52,161.76 |

6.D.7. OTHER

The Village of Colon is planning on building a new park. Representatives from the Village will be present to discuss the project.

6.D.8. ADJOURNMENT

7. Additional Action Items
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 – October 9, 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 as we proceed through this process. There will be a public scoping meeting for the project this Thursday (October 12<sup>th</sup>) from 5:00-7:00 pm at the American Legion Hall in Malmo. (135 Center Ave. Malmo, NE)
- Lower Platte North NRD's FY '24 Annual Budget has been completed and submitted to the State of Nebraska's Auditor's office and all other agencies we are required to submit. For the eighth year in a row, our district's asking has remained the same with a local taxing of \$ 3,480,714. While future years may require an increase, this level asking shows our district and our board's dedication to our tax payers and our ability to leverage our local money to state and federal money at a rate of 39.9% of our total budget.
- Typically, October is the month we are presented with our annual audit for acceptance. We have been contacted by Kyle Overturf, our auditor, due to staffing turnover, they will have to push back this presentation until next month'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. We were informed this past month, USACE has approved permitting the first three sites separately thus not further delaying our permitting timetable on these structures. Nebraska State NRCS is also doing a great job working with us on our approved federal funding and keeping us updated on all requirements. In the months ahead we will be finalizing land rights on the first three sites and potentially moving forward with a tree removal contract allowing us to stay outside any federal endangered species nesting rules and regulations.
- Our office has received notice from USACE they are getting close to closing out our Western Sarpy/Clear Creek Levy Project. This project has been complete for 10 years and well overdue to be closed out. Papio NRD is the lead on this project and will be keeping us updated on how the closeout is proceeding.
- I continue to work with METOS and their parent company Pessl Instruments to see what can be done in regards to our ongoing issues. Our main concern is the damage our equipment has experienced since their remote readers were attached and the ongoing risk to each of our data loggers until a permanent fix can be completed on all 70 wells.
- Staff is finalizing our potential FEMA 428 equipment purchases from the 2019 event and we will be updating committees once this has been complete. The FEMA 428 funds allows us to purchase equipment assisting in our efforts to help reduce and/or eliminate future damage to our flood reduction infrastructure.

**Have a great month and STAY SAFE!**

**-Eric Gottschalk – General Manager, Lower Platte North NRD**

**LOWER PLATTE NORTH NRD MINUTES  
BOARD MEETING  
September 11, 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, September 11, 2023.

**1. NOTICE OF MEETING**

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

The advanced notice of our September 11, 2023, board meeting was posted on the Lower Platte North NRD website and posted in the Wahoo Newspaper on September 7, 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:**

|          |                 |          |
|----------|-----------------|----------|
| Bailey   | Birkel          | Engel    |
| Hilger   | Johnson, Jerry  | Kavan    |
| Lawrence | McKnight (Zoom) | Saalfeld |
| Sabatka  | Saeger          | Seier    |
| Tonnies  | Yosten          | Thompson |

**DIRECTORS ABSENT**

|                |        |       |
|----------------|--------|-------|
| Johnson, Duane | Meduna | Olson |
|----------------|--------|-------|

**STAFF AND GUESTS:**

|               |                |                |
|---------------|----------------|----------------|
| Gottschalk    | Breunig        | Andersen       |
| Lausterer     | Chapman        | Schomer (Zoom) |
| Abbott (Zoom) | Sabatka (Zoom) | Heimann (Zoom) |

**3. APPROVAL OF AGENDA**

**4. COMMENTS - ADVISORS/GUESTS/DIRECTORS**

**a. Guest Comments**

**b. NRCS Report – None**

**c. NARD Report**

Bob Hilger gave the NARD report.

**d. NRC Report - None**

**e. Manager Report**

Gottschalk reviewed his written report.

**f. Education Program**

Gottschalk reviewed the financial portion of the operating policies.

**5. APPROVAL OF MINUTES**

Tonnies made the motion, seconded by Saalfeld, to approve the minutes from the August 14, 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 - None**

**3. Management Items**

**a. Director Absences**

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

**b. Monthly Education Program – Update Given**

**c. Temporary Construction Easement – City of Wahoo**

Tonnies made the motion, seconded by Saalfeld, to authorize Chairman to sign the temporary construction easement, purchase agreement and permanent easement with the City of Wahoo for the Sand Creek Utility Project. Motion carried on consent agenda.

**d. NARD Dues Payment**

Tonnies made the motion, seconded by Saalfeld, to pay NARD \$32,575.87 for our FY 2023-24 membership dues. Motion carried on consent agenda.

**e. Sub-District 2 Vacancy**

Saeger made the motion, seconded by Yosten, to appoint John Goldsberry to fill the vacancy in Sub-District 2. Motion carried all members present voting aye.

**f. FNIC – 10/1/23 Renewal**

Birkel made the motion, seconded by Sabatka, to approve the proposal in the amount of \$116,293 from FNIC for insurance coverage from 10/1/23 to 10/1/24. It was further recommended to add downstream liability coverage on the Wanhoo Dam at an additional premium of \$1,214. Motion carried all members present voting aye.

**g. New Office Building**

Tonnies made the motion, seconded by Saalfeld, to approve the proposal from Thiele Geotech Inc. for Geotechnical Exploration for the proposed new office building for a lump sum of \$6,200 and authorize Manager Gottschalk to sign the proposal. Motion carried on consent agenda.

**h. November Board Meeting – Update Given**

**i. Long Range Plan – Update Given**

**4. Equipment - None**

**5. Personnel**

**a. Water Department Staffing**

Saalfeld made the motion, seconded by Lawrence, to return Will Brueggemann to full-time status as Water Specialist in our Water Department. Motion carried all members present voting aye.

**6. Finance**

**a. Approval of Financial Reports – Update Given**

**b. Approval of Managers Expenses**

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

**c. Accounts Over 90 Days - Update Given**

**d. Budget and Set Property Tax Rate**

Saeger made the motion, seconded by Tonnies, 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. Motion carried all members present voting aye.

Tonnies made the motion, seconded by Saalfeld, that the September 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. Grass Drill Rental Revenue – Update Given**

**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**

**6. INFORMATION & EDUCATION**

**a. Information**

**1. Radio and Digital Ads – Update Given**

**2. Analytics – Update Given**

**3. Long Range Plan**

Johnson, J. made the motion, seconded by Saalfeld, to approve the FY 2024 Long Range Plan as attached to the Operations Committee minutes. Motion carried all members present voting aye.

**4. KZ100 Advertising – Update Given**

**5. Nebraska Public Media**

Tonnies made the motion, seconded by Saalfeld, to run two 30-second spots on Wednesday night during science programming for a total of 14 weeks, totaling \$1,680. Motion carried on consent agenda.

**b. Education – Update Given**

**1. Past Events - Update Given**

**2. Future Events – Update Given**

**7. RURAL WATER SYSTEMS**

**a. Colon – Update Given**

**b. Bruno – Update Given**

**c. Other - None**

Tonnies made the motion, seconded by Saalfeld, that the September 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 in the Hydrologically Connected Area (Limited Development Area) – Update Given**

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

Birkel made the motion, seconded by Johnson, J., to approve the 4 applications for 365 acres and 68.267-acre feet of new depletion in the Non-Hydrological areas of the District as attached to the Water Committee Minutes. Motion carried all members present voting aye.

**3. Well Permit Program**

**a. Well Permits Approved- Update Given**

**4. Irrigation Runoff Complaint – Update Given**

**5. Supplemental Well Permit**

Hilger made the motion, seconded by Saalfeld, to approve the supplemental well permit for Daivid and Jerry Proskovec for the NW¼ S2-T16N-R3E Butler County. Motion carried.

**AYE:** Bailey, Birkel, Engel, Hilger, Johnson, J., Kavan, Lawrence, Saalfeld, Sabatka, Seier, Tonnies, Yosten, Thompson

**NAY:** Saeger

**6. Flow Meter Discussion – Update Given**

**7. Special Quantity Subareas – Update Given**

**8. Cost-Share Programs**

**a. Irrigation Well Sample Kits- Update Given**

**9. Bellwood Phase 2 Area – Update Given**

**10. Richland – Schuyler Phase 3 Area – Update Given**

**11. Lower Platte River Basin Water Management Plan Coalition (LPRBC)**

Tonnies made the motion, seconded by Saalfeld, to pay our FY23-24 Lower Platte River Basin Coalition dues in the amount of \$10,000. Motion carried on consent agenda.

**12. Voluntary Integrated Water Management Plan – Update Given**

**b. CHEMIGATION – Update Given**

**3. GROUND WATER PROGRAMS**

**a. Decommissioned Well Program**

**1. Well Estimates – Update Given**

**2. Plugged Wells**

Tonnies made the motion, seconded by Saalfeld, to approve the cost-share payment for the following well decommissioning: Jack Barta - \$1,067.80. Motion carried on consent agenda.

**b. LOWER PLATTE NORTH NRD GROUND WATER STUDIES**

**1. Phase Area**

Tonnies made the motion, seconded by Saalfeld, to approve the following flow meter cost-share payments: Oehlrich Farms - \$2,000 and Gene Novak - \$1,000. Motion carried on consent agenda.

Tonnies made the motion, seconded by Saalfeld, to increase the dollar amounts from \$800 to \$1000 for cost-share on all flow meters in the Schuyler/Richland Management Area, as there is not much difference in price. Motion carried on consent agenda.

**2. Regenerative Ag Conference - Update Given**

**3. Lower Platte River Consortium – Update Given**

**c. Long Range Plan – Update Given**

**4 SURFACE WATER PROGRAMS**

**a. USGS Stream Flow Gauging Sites**

Birkel made the motion, seconded by Engel, to approve the current invoice from USGS in the amount of \$18,190 for two stream gages and 1 groundwater monitoring site. It was further recommended to authorize Chairman to sign the attached agreement with USGS dated October 2023 to September 2024 in the amount of \$19,010 for two stream gages and 1 groundwater monitoring site. Motion carried all members present voting aye.

**5. OTHER**

**a. Comments from the Public – None**

Tonnies the motion, seconded by Saalfeld, that the September LPNNRD Water Committee Minutes be received and placed on file. Motion carried on consent agenda.

**D. PROJECTS COMMITTEE REPORT**

**1. UNFINISHED BUSINESS – NONE**

**2. SWCP – Update Given**

**a. SWCP Application Approvals**

**3. 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**

**4. SHELL CREEK WATERSHEDS**

**a. Shell Creek Implementation – 319 and NET**

**1. NET – Alternate Water Source Payment**

Tonnies made the motion seconded by Saalfeld, to approve the following payments for completed alternate water source projects within the Shell Creek:

Fred Siefken - \$16,852.94

Arden Saalfeld - \$11,593.25

Motion carried on consent agenda.

**2. On-Site Wastewater System Upgrade**

Tonnies made the motion, seconded by Saalfeld, to approve payment to Kyle Reed in the amount of \$7,377.71 and approve a \$7,500 cost-share application to Jeff Klug for wastewater system upgrades within the Shell Creek. Motion carried on consent agenda.

**5. 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**

**4. County Road Impacts – Update Given**

**b. Water Quality – NWQI & 319 – Update Given**

**6. LOWER PLATTE RIVER COORIDOR ALLIANCE – Update Given**

**7. SCRAP TIRE COLLECTION**

Yosten made the motion, seconded by Lawrence, to assist Keep Fremont Beautiful with their tire collection event by providing staff help and 33% of overages up to \$2,500. Motion carried.

**AYE:** Bailey, Engel, Hilger, Johnson, J., Kavan, Lawrence, Saalfeld, Sabatka, Saeger, Seier, Tonnies, Yosten, Thompson

**NAY:** Birkel

**8. Long Range Plan – Update Given**

**13. OTHER – Update Given**

Tonnies made the motion, seconded by Saalfeld, that the September LPNNRD Projects Committee Minutes be received and placed on file. Motion carried on consent agenda.

**7. ADDITIONAL ACTION ITEMS**

**7a. Big Game Conservation Association Agreement**

Seier made the motion, seconded by Johnson, J., to authorize Chair 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 being developed by Troop 405. 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**

Tonnies made the motion, seconded by Saalfeld, to approve the September Consent Agenda. Motion carried all members present voting aye.

**10. COMMENTS FROM DIRECTORS/GUESTS**

**11. MEETING ESTABLISHMENT AND ADJOURNMENT**

The October Board of Directors Meeting will be held on Monday, October 9, 2023, 6:00 p.m. Meeting adjourned at 8:07 p.m.

Board Meeting Minutes

09/11/23

Page 8

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 September 11, 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

## Jill Breunig

---

**From:** Jill Breunig  
**Sent:** Monday, September 11, 2023 4:44 PM  
**To:** 'Daryl Andersen'  
**Subject:** FW: 2024 Winter Conference - Save the Date!!!

**From:** Groundwater Management Districts Association <gmdausainfo@gmail.com>  
**Sent:** Monday, September 11, 2023 4:30 PM  
**Subject:** 2024 Winter Conference - Save the Date!!!

Save the Date!!! We're going to Nashville!!!

The 2024 Annual Winter Meeting of Groundwater Management Districts Association will be in Nashville, Tennessee, at The Heartbeat of Music City, Cambria Nashville Downtown, on January 23-25<sup>th</sup>, 2024. Reserve your guest room by December 20, 2023, at this [GMD3 reservation link](#) or call 615.515.5800 to take advantage of the discounted rate. The guestroom is \$219 per night. Valet parking is currently available for overnight guests at \$45.00 per car per evening.

The tentative agenda is:

Tuesday, January 23:

Welcome Reception 6:00 pm. To 8:00 pm.

Wednesday, January 24:

Breakfast: 8:00 am to 9:00 am.

General Session: 9:00 am to 12:00 pm.

Lunch: 12:00 pm to 1:00 pm.

GMDA Board Meeting: 1:15 p.m. to 1:45 p.m.

Offsite Activity: 2:30 pm to??

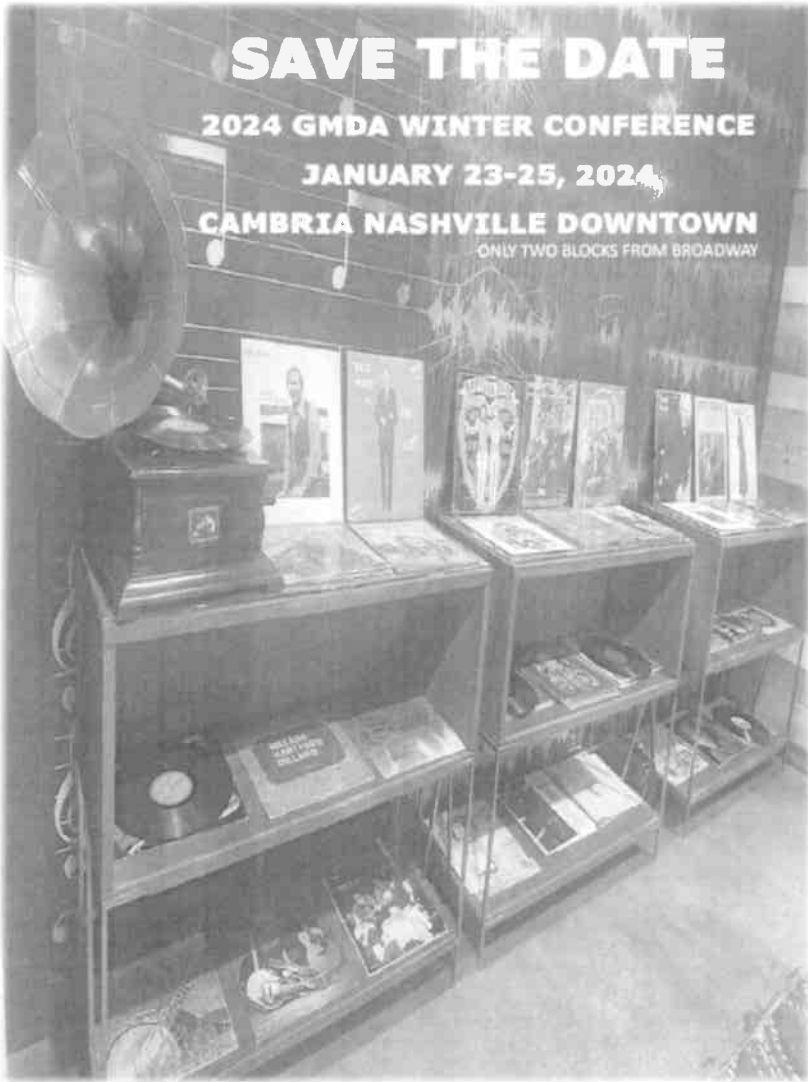
Thursday, January 25:

Breakfast: 8:00 am to 9:00 am.

General Session: 9:00 am to 12:00 pm.

Lunch: 12:00 pm to 1:00 pm.

General Session: 1:00 pm to 5:00 pm.



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Respectfully,

Kristen Blackwell  
Groundwater Management Districts Association  
PO Box 83581  
Lincoln NE 68521  
[www.gmdausa.org](http://www.gmdausa.org)





National Association of  
Conservation Districts

**NACD 2024 Annual Meeting  
Sheraton San Diego**

**Draft Agenda as of 9/17/2023**

*Subject to change*

**Thursday, February 8**

8am-5pm                      Officer Meeting                      Pelican

**Friday, February 9**

8am-12pm                      Service Project

12:00pm-1:00pm              Officer/Board/Staff Lunch              Shorebreak

1:00pm-5:00pm                Executive Board Meeting                Pelican

6:00pm-7:00pm                NACD Leadership Reception              Suite

**Saturday, February 10**

7:00am-9:00am                Registration set up                      Pacific Jewel Foyer

9:00am-6:00pm                Registration                              Pacific Jewel Foyer

7:30am                            Executive Board Breakfast                Pelican

8:00am-12:00pm                Executive Board Meeting                Pelican

9:00am-12:00pm                Hold space                                Coral 1, 2,3,4,5, Osprey

8:00am-1:00pm                NCDEA Board Meeting                    Pacific Jewel A

9:00am-5:00pm                NCF-Envirothon Operating  
Committee                                Pacific Jewel B

9:00am-5:00pm                NARC&DC Board meeting                Sandpiper AB

|                 |                                       |                  |
|-----------------|---------------------------------------|------------------|
| 10:00am-12:00pm | New Board Members Orientation         | Silver Pearl 1   |
| 1:00pm-4:30pm   | NACD Board of Directors Meeting       | Silver Pearl 1   |
| 1:00pm-5:00pm   | NCDEA District Employee Training      | Coral 2          |
| 1:00pm-5:00pm   | Next Generation Leadership Institute  | Pelican          |
| 8:00am-5:00pm   | Interdenominational room              | Osprey           |
| 1:30pm-5:00pm   | NASCA Board Meeting                   | Coral 1          |
| 2:00pm-7:00pm   | National Conservation Showcase Set up | Sliver Pearl 2/3 |
| 4:30pm-6:00pm   | Resolutions Committee Meeting         | Sandpiper CD     |
| 5:00pm-6:00pm   | President's Reception (tba)           | Suite            |
| 5:00pm-6:00pm   | Shuttle buses to event                |                  |
| 6:00pm-8:00pm   | CACD Host State Event                 | USS Midway       |
| 8:00pm-9:00pm   | Shuttle Buses from event              |                  |

### **Sunday, February 11**

|                |                                      |                     |
|----------------|--------------------------------------|---------------------|
| 7:00am-6:00pm  | Registration                         | Pacific Jewel Foyer |
| 7:00am-5:00pm  | Interdenominational room             | Osprey              |
| 8:00am-12:00pm | NARC&DC Board meeting                | Sandpiper AB        |
| 8:30am-5:00pm  | Next Generation Leadership Institute | Pelican             |
| 9:00am-11:30am | Soil Health Meet and Greet           | Coral 3             |
| 9:00am-11:30am | Urban Meet and Greet                 | Coral 2             |
| 9:00am-11:30am | Grants Meet and Greet                | Coral 1             |

|                 |  |                                       |
|-----------------|--|---------------------------------------|
| 10:00am-11:30am | Legislative, Natural Resources and District and Partner Relations Committee meetings | Coral 4, 5, Shorebreak                |
| 9:00am-12:00pm  | NCF-Envirothon Operating Committee   | SeaGlass                              |
| 12:00pm-6:00pm  | AFA + NACD Sustainability Institute Registration                                     | Eventide                              |
| 11:30am-1:00pm  | ACED Lunch meeting   | restaurant                            |
| 1:00pm-3:00pm   | 7 Region Meetings  | Coral 1,2,3,4,5, Osprey, Sandpiper AB |
| 2:00pm-6:00pm   | AFA + NACD Sustainability Institute  | Eventide                              |
| 3:00pm-5:00pm   | NACD Board of Directors Meeting  | Silver Pearl 1                        |
| 3:00pm-5:00pm   | ACED Business Meeting  | Driftwood                             |
| 3:30pm-5:00pm   | First Timer Session  | Shorebreak                            |
| 4:00pm-6:00pm   | National Conservation Showcase   | Silver Pearl 2/3                      |
| 5:00pm-10:00pm  | AFA + NACD Sustainability Institute Dinner and football party                        | Seaglass                              |
| 5:00pm-6:00pm   | National Conservation Showcase Welcome Reception                                     | Silver Pearl 2/3                      |
| 5:30pm-7:00pm   | NGLI Cohort Social hosted by NACD Presidents Association                             | Tidepool 5                            |

**Monday, February 12**

|               |   |                     |
|---------------|---|---------------------|
| 7:00am-6:00pm | Registration                              | Pacific Jewel Foyer |
| 7:00am-8:00am | National Conservation Showcase And Coffee | Silver Pearl 2/3    |
| 7:00am-7:00pm | DOD REPI meeting room                     | Pelican             |

|                 |  |                        |
|-----------------|--|------------------------|
| 6:30am-7:30am   | AFA + NACD Sustainability Institute<br>Grab and Go Breakfast | Eventide               |
| 8:00am-10:30am  | Opening General Session                                      | Pacific Jewel Ballroom |
| 10:30am-12:00pm | National Conservation Showcase                               | Silver Pearl 2/3       |
| 12:00pm-2:00pm  | Leadership Luncheon  | Pacific Jewel Ballroom |
| 2:15pm-5:00pm   | National Conservation Showcase                               | Silver Pearl 2/3       |
| 2:15pm-5:00pm   | NCF Board of Trustees  | Driftwood 2            |
| 2:30pm-6:00pm   | NRCS meeting   | Coral 5                |
| 2:30pm-3:30pm   | Breakout Sessions (4)  | Coral 1,2,3,4          |
| 2:45pm-5:30pm   | NACD Resolutions Hearings (2)                                | Shorebreak, Seaglass   |
| 4:00pm-5:00pm   | Breakout Sessions (4)  | Coral 1,2,3,4          |
| 6:00pm-9:00pm   | NCF Auction  | Pacific Jewel Ballroom |

## **Tuesday, February 13**

|                 |  |                        |
|-----------------|--|------------------------|
| 7:00am-6:00pm   | Registration   | Pacific Jewel Foyer    |
| 7:00am-7:00pm   | DOD REPI meeting room                                    | Pelican                |
| 7:30am-8:45am   | AFA + NACD Sustainability Institute<br>Partner Breakfast | Eventide               |
| 7:30am-8:30am   | National Conservation Showcase<br>And Coffee             | Silver Pearl 2/3       |
| 7:00am-8:30am   | Presidents Assn Breakfast                                | Shorebreak             |
| 8:45am-11:00am  | General Session  | Pacific Jewel Ballroom |
| 11:15am-12:30pm | AFA + NACD Sustainability Institute<br>Round tables      | Eventide               |
| 11:00am-12:00pm | National Conservation Showcase                           | Silver Pearl 2/3       |

|                |   |                        |
|----------------|---|------------------------|
| 11:30am-1:00pm | Film Lunch                                | Pacific Jewel Ballroom |
| 12:00pm-6:00pm | NRCS meeting                              | Coral 5                |
| 12:30pm-1:30pm | AFA + NACD Sustainability Institute Lunch | Eventide               |
| 1:30pm-3:00pm  | Breakout Sessions (4)                     | Coral 1,2,3,4          |
| 1:30pm-3:30pm  | NACD Board Meeting                        | Silver Pearl 1         |
| 3:30pm-5:00pm  | Breakout Sessions (4)                     | Coral 1,2,3,4          |
| 5:00pm-6:00pm  | NCDEA Social                              | Tidepool 5             |
| 6:00pm-7:00pm  | Banquet Happy Hour                        | Pacific Jewel Foyer    |
| 7:00pm-9:00pm  | Appreciation Banquet                      | Pacific Jewel Ballroom |

### **Wednesday, February 14**

|                |                      |                     |
|----------------|----------------------|---------------------|
| 7:00am-10:00am | Registration         | Pacific Jewel Foyer |
| 8:00am-5:00pm  | CTIC Board meeting   | Osprey              |
| 8:30am-10:00am | NACD Board Meeting   | Silver Pearl 1      |
| 8:30am-11:30am | NCPP Symposia        | Coral 1             |
| 8:30am-11:30am | Symposia             | Coral 2             |
| 10:00am-3:00pm | Symposia             | Coral 3             |
| 10:30am-2:00pm | NACD Executive Board | Pelican             |
| 12:45pm-4:00pm | State Host Tour:     |                     |
| 12:45pm-4:00pm | State Host Tour:     |                     |
| 1:00pm-3:00pm  | ACED Board Meeting   | Sandpiper CD        |

**Thursday, February 15**

|                |  |            |
|----------------|--|------------|
| 8:00am-4:00pm  | National Conservation Planning Partnership Meeting | Shorebreak |
| 12:00pm-1:00pm | National Conservation Planning Partnership Lunch   | Tidepool 2 |



Financial Statements and Accountant's Compilation Report

**Lower Platte North Natural Resources District**

August 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 August 31, 2023, and the related Statements of Activities for the month and two months 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

September 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 N 102nd Court, #100 | Omaha, NE | 68114 | p: 402.895.5050 | f: 402.895.5723

## Lower Platte North NRD Statements of Net Position

|   | Natural Resources<br>District<br>As of<br>08/31/2023 | Rural Water-Bruno<br>As of<br>08/31/2023 | Rural Water-Colon<br>As of<br>08/31/2023 | All Districts<br>As of<br>08/31/2023 |
|---|--|--|--|--------------------------------------|
| <b>Assets</b>                                 |  |  |  |                                      |
| <b>Current Assets</b>                         |  |  |  |                                      |
| <b>Cash and Cash Equivalents</b>              |  |  |  |                                      |
| 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                    | 148,089.90   | 0.00                                     | 0.00                                     | 148,089.90                           |
| 103000 - Cash - County Treasurer              | 827,297.54   | 0.00                                     | 0.00                                     | 827,297.54                           |
| 104000 - Cash - Education Building Res.       | 10,810.00  | 0.00                                     | 0.00                                     | 10,810.00                            |
| 111100 - Investments - NRD - NPAIT            | 2,435.50   | 0.00                                     | 0.00                                     | 2,435.50                             |
| 111105 - Union Bank STFIT                     | 3,724,004.14   | 0.00                                     | 0.00                                     | 3,724,004.14                         |
| <b>Total Cash and Cash Equivalents</b>        | <b>4,713,487.08</b>                                  | <b>60.00</b>                             | <b>90.00</b>                             | <b>4,713,637.08</b>                  |
| <b>Accounts Receivable, Net</b>               |  |  |  |                                      |
| <b>Accounts Receivable</b>                    |  |  |  |                                      |
| 105000 - Accounts Receivable                  | 2,391,473.56   | 8,743.86                                 | 8,227.50                                 | 2,408,444.92                         |
| 105060 - Due from Bruno Water Fund            | 205,358.91   | 0.00                                     | 0.00                                     | 205,358.91                           |
| 105070 - Due from Colon Water Fund            | 25,364.74  | 0.00                                     | 0.00                                     | 25,364.74                            |
| 109000 - Taxes Receivable                     | 188,225.93   | 0.00                                     | 0.00                                     | 188,225.93                           |
| <b>Total Accounts Receivable</b>              | <b>2,810,423.14</b>                                  | <b>8,743.86</b>                          | <b>8,227.50</b>                          | <b>2,827,394.50</b>                  |
| <b>Total Accounts Receivable, Net</b>         | <b>2,810,423.14</b>                                  | <b>8,743.86</b>                          | <b>8,227.50</b>                          | <b>2,827,394.50</b>                  |
| <b>Inventory</b>                              |  |  |  |                                      |
| 165503 - Rural Water Inventory                | 0.00   | 6,579.89                                 | 9,869.84                                 | 16,449.73                            |
| <b>Total Inventory</b>                        | <b>0.00</b>  | <b>6,579.89</b>                          | <b>9,869.84</b>                          | <b>16,449.73</b>                     |
| <b>Prepaid Expenses</b>                       |  |  |  |                                      |
| 116000 - Prepaid Expenses                     | 62,914.30  | 0.00                                     | 0.00                                     | 62,914.30                            |
| <b>Total Prepaid Expenses</b>                 | <b>62,914.30</b>                                     | <b>0.00</b>                              | <b>0.00</b>                              | <b>62,914.30</b>                     |
| <b>Other Current Assets</b>                   |  |  |  |                                      |
| 111225 - Investments - Borrow Fund - NPAIT    | 88,906.62  | 0.00                                     | 0.00                                     | 88,906.62                            |
| 111250 - Investments - Alliance GIS Project   | 7,921.90   | 0.00                                     | 0.00                                     | 7,921.90                             |
| 111450 - Investments - Elkhorn River Breakout | 136,999.34   | 0.00                                     | 0.00                                     | 136,999.34                           |
| 111550 - Investments - Elkhorn Breakout       | 2,820.96   | 0.00                                     | 0.00                                     | 2,820.96                             |
| 111600 - Investments - Wanahoo SRA            | 465,616.01   | 0.00                                     | 0.00                                     | 465,616.01                           |
| 111650 - Investments - Colon Reserve NPAIT    | 0.00   | 0.00                                     | 8,900.08                                 | 8,900.08                             |
| <b>Total Other Current Assets</b>             | <b>702,264.83</b>                                    | <b>0.00</b>                              | <b>8,900.08</b>                          | <b>711,164.91</b>                    |
| <b>Total Current Assets</b>                   | <b>8,289,089.35</b>                                  | <b>15,383.75</b>                         | <b>27,087.42</b>                         | <b>8,331,560.52</b>                  |
| <b>Fixed Assets, Net of Depreciation</b>      |  |  |  |                                      |
| <b>Fixed Assets</b>                           |  |  |  |                                      |
| 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                       | 28,885,841.46  | 0.00                                     | 0.00                                     | 28,885,841.46                        |
| 162500 - Land Improvements                    | 623,922.90   | 0.00                                     | 0.00                                     | 623,922.90                           |
| 163000 - Buildings                            | 1,155,611.74   | 0.00                                     | 0.00                                     | 1,155,611.74                         |
| 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                   | 72,406.27  | 0.00                                     | 0.00                                     | 72,406.27                            |

See Accountant's Compilation Report

## Lower Platte North NRD Statements of Net Position

|   | Natural Resources<br>District<br>As of<br>08/31/2023 | Rural Water-Bruno<br>As of<br>08/31/2023 | Rural Water-Colon<br>As of<br>08/31/2023 | All Districts<br>As of<br>08/31/2023 |
|---|--|--|--|--------------------------------------|
| 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            | 34,028.60  | 0.00                                     | 0.00                                     | 34,028.60                            |
| <b>Total Fixed Assets</b>                   | <b>42,079,331.97</b>                                 | <b>744,154.49</b>                        | <b>1,209,072.03</b>                      | <b>44,032,558.49</b>                 |
| <b>Accumulated Depreciation</b>             |  |  |  |                                      |
| 140228 - Accum Depr - Colon Loan Fees       | 0.00   | 0.00                                     | 762.55                                   | 762.55                               |
| 162900 - Accum Depr - Infra. & Land Imp.    | 4,210,229.75   | 0.00                                     | 0.00                                     | 4,210,229.75                         |
| 164000 - Accum Depr - Buildings             | 543,572.03   | 0.00                                     | 0.00                                     | 543,572.03                           |
| 165700 - Accum Depr - Water Line            | 0.00   | 143,203.42                               | 270,162.97                               | 413,366.39                           |
| 166000 - Accum Depr - Machinery & Equipment | 596,608.57   | 15,731.47                                | 23,597.06                                | 635,937.10                           |
| 168000 - Accum Depr - Auto & Truck          | 242,766.01   | 0.00                                     | 0.00                                     | 242,766.01                           |
| 169550 - Accum Depr - Master DB Water       | 94,929.01  | 0.00                                     | 0.00                                     | 94,929.01                            |
| 170000 - Accum Depr - Office Equipment      | 97,572.46  | 0.00                                     | 0.00                                     | 97,572.46                            |
| <b>Total Accumulated Depreciation</b>       | <b>5,785,677.83</b>                                  | <b>158,934.89</b>                        | <b>294,522.58</b>                        | <b>6,239,135.30</b>                  |
| <b>Total Property and Equipment</b>         | <b>36,293,654.14</b>                                 | <b>585,219.60</b>                        | <b>914,549.45</b>                        | <b>37,793,423.19</b>                 |
| <b>Total Assets</b>                         | <b>\$ 44,582,743.49</b>                              | <b>\$ 600,603.35</b>                     | <b>\$ 941,636.87</b>                     | <b>\$ 46,124,983.71</b>              |
| <b>Liabilities and Fund Balance</b>         |  |  |  |                                      |
| <b>Liabilities</b>                          |  |  |  |                                      |
| <b>Current Liabilities</b>                  |  |  |  |                                      |
| <b>Accounts Payable</b>                     |  |  |  |                                      |
| 201000 - Accounts Payable                   | 164,680.78   | 3,668.71                                 | 2,699.66                                 | 171,049.15                           |
| 201100 - Sewer Collections Payable          | 0.00   | 0.00                                     | 4,914.00                                 | 4,914.00                             |
| 202060 - Due to General Fund                | 0.00   | 205,358.91                               | 25,364.74                                | 230,723.65                           |
| <b>Total Accounts Payable</b>               | <b>164,680.78</b>                                    | <b>209,027.62</b>                        | <b>32,978.40</b>                         | <b>406,686.80</b>                    |
| <b>Accrued Liabilities</b>                  |  |  |  |                                      |
| 200700 - Colon RW Accrued Interest          | 0.00   | 0.00                                     | 1,030.15                                 | 1,030.15                             |
| 206001 - Accrued Compensated Absences       | 219,816.19   | 2,728.71                                 | 4,093.07                                 | 226,637.97                           |
| 207305 - Lodging Tax Czechland              | 372.83   | 0.00                                     | 0.00                                     | 372.83                               |
| 207306 - Sales Tax Payable Wanahoo          | 781.79   | 0.00                                     | 0.00                                     | 781.79                               |
| 207307 - Lodging Tax Wanahoo                | 710.72   | 0.00                                     | 0.00                                     | 710.72                               |
| <b>Total Accrued Liabilities</b>            | <b>221,681.53</b>                                    | <b>2,728.71</b>                          | <b>5,123.22</b>                          | <b>229,533.46</b>                    |
| <b>Other Current Liabilities</b>            |  |  |  |                                      |
| 204000 - Deposits                           | 0.00   | 400.00                                   | 2,900.00                                 | 3,300.00                             |
| 204500 - Deferred Income                    | 40,589.56  | 0.00                                     | 0.00                                     | 40,589.56                            |
| 204600 - Education Building Deposits        | 10,810.00  | 0.00                                     | 0.00                                     | 10,810.00                            |
| 207300 - Sales Tax Payable                  | 9.60   | 255.31                                   | 205.48                                   | 470.39                               |
| 207304 - Sales Tax Payable Czechland        | 173.47   | 0.00                                     | 0.00                                     | 173.47                               |
| 231000 - Permits Liability - DEE            | 32.00  | 0.00                                     | 0.00                                     | 32.00                                |
| <b>Total Other Current Liabilities</b>      | <b>51,614.63</b>                                     | <b>655.31</b>                            | <b>3,105.48</b>                          | <b>55,375.42</b>                     |
| <b>Total Current Liabilities</b>            | <b>437,976.94</b>                                    | <b>212,411.64</b>                        | <b>41,207.10</b>                         | <b>691,595.68</b>                    |
| <b>Long Term Liabilities</b>                |  |  |  |                                      |
| <b>Note Payable - Long Term</b>             |  |  |  |                                      |
| 200600 - Note Payable - Colon Rural Water   | 0.00   | 0.00                                     | 25,932.44                                | 25,932.44                            |
| <b>Total Long Term Note Payable</b>         | <b>0.00</b>  | <b>0.00</b>                              | <b>25,932.44</b>                         | <b>25,932.44</b>                     |
| <b>Total Long Term Liabilities</b>          | <b>0.00</b>  | <b>0.00</b>                              | <b>25,932.44</b>                         | <b>25,932.44</b>                     |
| <b>Total Liabilities</b>                    | <b>437,976.94</b>                                    | <b>212,411.64</b>                        | <b>67,139.54</b>                         | <b>717,528.12</b>                    |
| <b>Fund Balances</b>                        |  |  |  |                                      |

See Accountant's Compilation Report

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

|   | Natural Resources<br>District<br>As of<br>08/31/2023 | Rural Water-Bruno<br>As of<br>08/31/2023 | Rural Water-Colon<br>As of<br>08/31/2023 | All Districts<br>As of<br>08/31/2023 |
|---|--|--|--|--------------------------------------|
| <b>Net Assets</b>                         | <b>44,385,882.50</b>                                 | <b>387,462.89</b>                        | <b>873,465.94</b>                        | <b>45,646,811.33</b>                 |
| <b>Change in Net Position</b>             | <b>(241,115.95)</b>                                  | <b>728.82</b>                            | <b>1,031.39</b>                          | <b>(239,355.74)</b>                  |
| <b>Total Fund Balances</b>                | <b>44,144,766.55</b>                                 | <b>388,191.71</b>                        | <b>874,497.33</b>                        | <b>45,407,455.59</b>                 |
| <b>Total Liabilities and Fund Balance</b> | <b>\$ 44,582,743.49</b>                              | <b>\$ 600,603.35</b>                     | <b>\$ 941,636.87</b>                     | <b>\$ 46,124,983.71</b>              |

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

|   | Natural Resources<br>District<br>Month Ending<br>08/31/2023 | Rural Water-Bruno<br>Month Ending<br>08/31/2023 | Rural Water-Colon<br>Month Ending<br>08/31/2023 | All Districts<br>Month Ending<br>08/31/2023 |
|---|---|---|---|---|
| <b>Income</b>                                 |   |   |   |   |
| <b>Federal Income</b>                         |   |   |   |   |
| 303206 - Wahoo Creek 319 Grant                | 0.00  | 0.00  | 0.00  | 0.00  |
| 303207 - Shell Creek 319 Grant                | 1,808.52  | 0.00  | 0.00  | 1,808.52                                    |
| 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                 | 31,910.77   | 0.00  | 0.00  | 31,910.77                                   |
| 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  |
| <b>Total Federal Income</b>                   | <b>\$ 33,719.29</b>   | <b>\$ 0.00</b>                                  | <b>\$ 0.00</b>                                  | <b>\$ 33,719.29</b>                         |
| <b>State Income</b>                           |   |   |   |   |
| 301201 - Natural Resources WQ Fund            | 16,354.75   | 0.00  | 0.00  | 16,354.75                                   |
| 301309 - Water Sustainability Fund            | 3,180.75  | 0.00  | 0.00  | 3,180.75                                    |
| 301310 - Shell Creek NET                      | 998.84  | 0.00  | 0.00  | 998.84                                      |
| 301315 - WSF and EA Application               | 63,311.04   | 0.00  | 0.00  | 63,311.04                                   |
| 301325 - JEDI Funding                         | 21,464.48   | 0.00  | 0.00  | 21,464.48                                   |
| 304100 - Lake Wanahoo - Other                 | 385.75  | 0.00  | 0.00  | 385.75                                      |
| <b>Total State Income</b>                     | <b>105,695.61</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>105,695.61</b>                           |
| <b>Local Income</b>                           |   |   |   |   |
| 304105 - Education Building Rent              | 2,150.00  | 0.00  | 0.00  | 2,150.00                                    |
| 304112 - Dirt Sales - Wanahoo                 | 431.57  | 0.00  | 0.00  | 431.57                                      |
| 304400 - Flow Meter Maint. Reimb.             | 36.00   | 0.00  | 0.00  | 36.00                                       |
| <b>Total Local Income</b>                     | <b>2,617.57</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>2,617.57</b>                             |
| <b>Rural Water Income</b>                     |   |   |   |   |
| 304240 - Water Sales                          | 0.00  | 6,689.75  | 5,028.70  | 11,718.45                                   |
| 304295 - Colon Sewer Fees                     | 0.00  | 0.00  | 2,457.00  | 2,457.00                                    |
| 304261 - Other Revenue                        | 0.00  | 7.43  | 112.42  | 119.85                                      |
| <b>Total Rural Water Income</b>               | <b>0.00</b>   | <b>6,697.18</b>                                 | <b>7,598.12</b>                                 | <b>14,295.30</b>                            |
| <b>Property Tax Income</b>                    |   |   |   |   |
| 305200 - General Fund Property Taxes-Butler   | 38.67   | 0.00  | 0.00  | 38.67                                       |
| 305300 - General Fund Property Taxes-Colfax   | 130.99  | 0.00  | 0.00  | 130.99                                      |
| 305400 - General Fund Property Taxes-Dodge    | 248.50  | 0.00  | 0.00  | 248.50                                      |
| 305500 - General Fund Property Taxes-Madison  | 4.35  | 0.00  | 0.00  | 4.35  |
| 305600 - General Fund Property Taxes-Platte   | 56.07   | 0.00  | 0.00  | 56.07                                       |
| 305700 - General Fund Property Taxes-Saunders | 265.99  | 0.00  | 0.00  | 265.99                                      |
| <b>Total Property Tax Income</b>              | <b>744.57</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>744.57</b>                               |
| <b>Investment Income</b>                      |   |   |   |   |
| 311350 - Interest - NPAIT Elkhorn             | 12.71   | 0.00  | 0.00  | 12.71                                       |
| 311400 - Interest - NPAIT Wanahoo SRA         | 2,092.31  | 0.00  | 0.00  | 2,092.31                                    |
| 311450 - Interest Income-Elkhorn IPA          | 19.40   | 0.00  | 0.00  | 19.40                                       |
| 311500 - Interest - NPAIT NRD                 | 10.86   | 0.00  | 0.00  | 10.86                                       |
| 311600 - Interest - STFIT NRD                 | 15,874.79   | 0.00  | 0.00  | 15,874.79                                   |
| 311700 - Interest - UBT NRD                   | 89.16   | 0.00  | 0.00  | 89.16                                       |
| 304350 - Colon RW Interest - NPAIT            | 0.00  | 0.00  | 39.95   | 39.95                                       |
| <b>Total Investment Income</b>                | <b>18,099.23</b>  | <b>0.00</b>                                     | <b>39.95</b>                                    | <b>18,139.18</b>                            |
| <b>Miscellaneous Income</b>                   |   |   |   |   |
| 309350 - Sales - Well Permits                 | 50.00   | 0.00  | 0.00  | 50.00                                       |
| 309360 - Sales - Sample Kits                  | 610.00  | 0.00  | 0.00  | 610.00                                      |
| 309400 - Sales - Other                        | 1,300.00  | 0.00  | 0.00  | 1,300.00                                    |
| 309500 - Equipment Rent                       | 1,023.70  | 0.00  | 0.00  | 1,023.70                                    |
| 310000 - Chemigation Permits                  | 510.00  | 0.00  | 0.00  | 510.00                                      |
| 310200 - Czechland Camping Fees               | 1,582.36  | 0.00  | 0.00  | 1,582.36                                    |
| 310201 - Wanahoo Park Permits                 | 6,099.00  | 0.00  | 0.00  | 6,099.00                                    |
| 310202 - Lake Wanahoo Camping                 | 12,980.99   | 0.00  | 0.00  | 12,980.99                                   |
| 313000 - Miscellaneous Income                 | 389.19  | 0.00  | 0.00  | 389.19                                      |
| 315000 - RWD Administrative Fees              | 585.93  | 0.00  | 0.00  | 585.93                                      |
| 316000 - Employee/Director Reimb              | (892.95)  | 0.00  | 0.00  | (892.95)                                    |

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

|   | Natural Resources<br>District<br>Month Ending<br>08/31/2023 | Rural Water-Bruno<br>Month Ending<br>08/31/2023 | Rural Water-Colon<br>Month Ending<br>08/31/2023 | All Districts<br>Month Ending<br>08/31/2023 |
|---|---|---|---|---|
| <b>Total Miscellaneous Income</b>           | <b>24,238.22</b>  | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>24,238.22</b>                            |
| <b>Total Income</b>                         | <b>185,114.49</b>   | <b>6,697.18</b>                                 | <b>7,638.07</b>                                 | <b>199,449.74</b>                           |
| <b>Expenses</b>                             |   |   |   |   |
| <b>Administration Expenses</b>              |   |   |   |   |
| <b>Dues &amp; Membership</b>                |   |   |   |   |
| 410202 - Dues & Membership - NACD           | 148.00  | 0.00  | 0.00  | 148.00                                      |
| 410203 - Dues - NARD                        | 2,714.66  | 0.00  | 0.00  | 2,714.66                                    |
| 410204 - Dues - NWRA                        | 1,950.00  | 0.00  | 0.00  | 1,950.00                                    |
| 410205 - Dues & Membership - Other          | 60.00   | 0.00  | 0.00  | 60.00                                       |
| <b>Total Dues &amp; Membership</b>          | <b>4,872.66</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>4,872.66</b>                             |
| <b>Fees and Licenses</b>                    |   |   |   |   |
| 410304 - NRD Union Bank Fees                | 31.56   | 0.00  | 0.00  | 31.56                                       |
| <b>Total Fees and Licenses</b>              | <b>31.56</b>  | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>31.56</b>                                |
| <b>Insurance</b>                            |   |   |   |   |
| 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                 | 1,704.08  | 0.00  | 0.00  | 1,704.08                                    |
| <b>Total Insurance</b>                      | <b>8,366.75</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>8,366.75</b>                             |
| <b>Interest Expense</b>                     |   |   |   |   |
| 410600 - Interest Expense                   | 0.00  | 0.00  | 93.65   | 93.65                                       |
| <b>Total Interest Expense</b>               | <b>0.00</b>   | <b>0.00</b>                                     | <b>93.65</b>                                    | <b>93.65</b>                                |
| <b>Legal Notices</b>                        |   |   |   |   |
| 410701 - Legal Notices                      | 240.46  | 0.00  | 0.00  | 240.46                                      |
| <b>Total Legal Notices</b>                  | <b>240.46</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>240.46</b>                               |
| <b>Maintenance Contracts</b>                |   |   |   |   |
| 410800 - Maintenance Contracts              | 8,565.81  | 0.00  | 0.00  | 8,565.81                                    |
| <b>Total Maintenance Contracts</b>          | <b>8,565.81</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>8,565.81</b>                             |
| <b>Office Supply &amp; Expense</b>          |   |   |   |   |
| 410902 - Office Supplies & Equip            | 501.69  | 0.00  | 0.00  | 501.69                                      |
| 410906 - Office Expense - Other             | 238.50  | 0.00  | 0.00  | 238.50                                      |
| <b>Total Office Supply &amp; Expense</b>    | <b>740.19</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>740.19</b>                               |
| <b>Computer Supply &amp; Expense</b>        |   |   |   |   |
| 411002 - Computer Consultant                | 400.00  | 0.00  | 0.00  | 400.00                                      |
| 411004 - Computer Software                  | 407.18  | 0.00  | 0.00  | 407.18                                      |
| 411006 - Email                              | 248.40  | 0.00  | 0.00  | 248.40                                      |
| <b>Total Computer Supply &amp; Expense</b>  | <b>1,055.58</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>1,055.58</b>                             |
| <b>Postage</b>                              |   |   |   |   |
| 411200 - Postage                            | 85.50   | 0.00  | 0.00  | 85.50                                       |
| <b>Total Postage</b>                        | <b>85.50</b>  | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>85.50</b>                                |
| <b>Professional Services</b>                |   |   |   |   |
| 411301 - Prof Serv-Accounting               | 6,750.00  | 0.00  | 0.00  | 6,750.00                                    |
| 411304 - Prof Serv-Legal - General          | 1,814.00  | 0.00  | 0.00  | 1,814.00                                    |
| 411311 - Washington Expense                 | 2,100.00  | 0.00  | 0.00  | 2,100.00                                    |
| <b>Total Professional Services</b>          | <b>10,664.00</b>  | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>10,664.00</b>                            |
| <b>Telephone Expense</b>                    |   |   |   |   |
| 411601 - Telephone - Cellular               | 968.50  | 0.00  | 0.00  | 968.50                                      |
| 411602 - Local Phone & Internet             | 783.39  | 0.00  | 0.00  | 783.39                                      |
| <b>Total Telephone Expense</b>              | <b>1,751.89</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>1,751.89</b>                             |
| <b>Utilities</b>                            |   |   |   |   |
| 411700 - Utilities Expense                  | 820.65  | 0.00  | 0.00  | 820.65                                      |
| <b>Total Utilities</b>                      | <b>820.65</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>820.65</b>                               |
| <b>Total Administration Expenses</b>        | <b>37,195.05</b>  | <b>0.00</b>                                     | <b>93.65</b>                                    | <b>37,288.70</b>                            |
| <b>Information &amp; Education Expenses</b> |   |   |   |   |
| <b>Education</b>                            |   |   |   |   |
| 420104 - Outdoor Classrooms                 | 67.47   | 0.00  | 0.00  | 67.47                                       |
| 420109 - Education Outreach                 | 227.43  | 0.00  | 0.00  | 227.43                                      |
| <b>Total Education</b>                      | <b>294.90</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>294.90</b>                               |
| <b>Information</b>                          |   |   |   |   |
| 420208 - Miscellaneous                      | 30.00   | 0.00  | 0.00  | 30.00                                       |
| 420209 - Ktic Ad                            | 217.00  | 0.00  | 0.00  | 217.00                                      |
| 420211 - E-Ads                              | 140.00  | 0.00  | 0.00  | 140.00                                      |
| <b>Total Information</b>                    | <b>387.00</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>387.00</b>                               |

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

|   | Natural Resources<br>District<br>Month Ending<br>08/31/2023 | Rural Water-Bruno<br>Month Ending<br>08/31/2023 | Rural Water-Colon<br>Month Ending<br>08/31/2023 | All Districts<br>Month Ending<br>08/31/2023 |
|---|---|---|---|---|
| <b>Scholarships and Grants</b>                    |   |   |   |   |
| 420307 - Shell Crk Watershd Scholarship           | 1,500.00  | 0.00  | 0.00  | 1,500.00                                    |
| <b>Total Scholarships and Grants</b>              | <b>1,500.00</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>1,500.00</b>                             |
| <b>Total Information &amp; Education Expenses</b> | <b>2,181.90</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>2,181.90</b>                             |
| <b>Operation &amp; Maintenance</b>                |   |   |   |   |
| <b>Auto and Truck</b>                             |   |   |   |   |
| 430101 - Auto & Truck Gas                         | 2,799.50  | 0.00  | 0.00  | 2,799.50                                    |
| 430102 - Auto & Truck R&M                         | 1,948.43  | 0.00  | 0.00  | 1,948.43                                    |
| <b>Total Auto and Truck</b>                       | <b>4,747.93</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>4,747.93</b>                             |
| <b>Building Maintenance</b>                       |   |   |   |   |
| 430202 - Office Cleaning                          | 495.00  | 0.00  | 0.00  | 495.00                                      |
| 430203 - Garbage Maintenance                      | 83.44   | 0.00  | 0.00  | 83.44                                       |
| <b>Total Building Maintenance</b>                 | <b>578.44</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>578.44</b>                               |
| <b>Operation and Maintenance</b>                  |   |   |   |   |
| 430401 - Czechland & Homestead                    | 1,467.35  | 0.00  | 0.00  | 1,467.35                                    |
| 430402 - Equipment Upkeep                         | 323.49  | 0.00  | 0.00  | 323.49                                      |
| 430403 - Operation & Maintenance                  | 983.78  | 0.00  | 0.00  | 983.78                                      |
| 430406 - Wanahoo Park Operation                   | 2,149.01  | 0.00  | 0.00  | 2,149.01                                    |
| 430408 - Wanahoo Rec Mgmt                         | 5,134.24  | 0.00  | 0.00  | 5,134.24                                    |
| 430409 - Lake Wanahoo Education Building          | 543.01  | 0.00  | 0.00  | 543.01                                      |
| <b>Total Operation and Maintenance</b>            | <b>10,600.88</b>  | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>10,600.88</b>                            |
| <b>Other</b>                                      |   |   |   |   |
| 430804 - O&M One-Call Services                    | 12.41   | 0.00  | 0.00  | 12.41                                       |
| <b>Total Other</b>                                | <b>12.41</b>  | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>12.41</b>                                |
| <b>Total Operation &amp; Maintenance</b>          | <b>15,939.66</b>  | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>15,939.66</b>                            |
| <b>Personnel Expenses</b>                         |   |   |   |   |
| <b>Director Expense</b>                           |   |   |   |   |
| 440101 - Director Meeting Expense                 | 725.50  | 0.00  | 0.00  | 725.50                                      |
| <b>Total Director Expense</b>                     | <b>725.50</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>725.50</b>                               |
| <b>Employee Benefits</b>                          |   |   |   |   |
| 440301 - Dental Insurance                         | 1,681.84  | 0.00  | 0.00  | 1,681.84                                    |
| 440302 - Health Insurance                         | 31,351.48   | 0.00  | 0.00  | 31,351.48                                   |
| 440303 - Retirement Benefit - 414H                | 6,122.62  | 0.00  | 0.00  | 6,122.62                                    |
| 440306 - Workmans Comp Benefit                    | 964.34  | 0.00  | 0.00  | 964.34                                      |
| 440307 - Employee Benefits - Other                | (18.54)   | 0.00  | 0.00  | (18.54)                                     |
| 440309 - Flexible Spending Fee                    | 22.50   | 0.00  | 0.00  | 22.50                                       |
| <b>Total Employee Benefits</b>                    | <b>40,124.24</b>  | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>40,124.24</b>                            |
| <b>Payroll Taxes</b>                              |   |   |   |   |
| 440401 - FICA - ER                                | 6,819.83  | 0.00  | 0.00  | 6,819.83                                    |
| 440402 - Medicare - ER                            | 1,594.93  | 0.00  | 0.00  | 1,594.93                                    |
| <b>Total Payroll Taxes</b>                        | <b>8,414.76</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>8,414.76</b>                             |
| <b>Personnel Expense</b>                          |   |   |   |   |
| 440501 - Personnel Meeting Exp                    | 423.46  | 0.00  | 0.00  | 423.46                                      |
| 440502 - Personnel Mileage Exp                    | 375.32  | 0.00  | 0.00  | 375.32                                      |
| 440504 - Personnel Uniform Exp                    | 65.00   | 0.00  | 0.00  | 65.00                                       |
| <b>Total Personnel Expense</b>                    | <b>863.78</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>863.78</b>                               |
| <b>Salaries</b>                                   |   |   |   |   |
| 440601 - Salaries - Administration                | 18,822.84   | 0.00  | 0.00  | 18,822.84                                   |
| 440602 - Salaries - Clerical                      | 2,258.04  | 0.00  | 0.00  | 2,258.04                                    |
| 440604 - Salaries - I & E                         | 8,004.14  | 0.00  | 0.00  | 8,004.14                                    |
| 440605 - Salaries - Op & Maint                    | 15,462.64   | 0.00  | 0.00  | 15,462.64                                   |
| 440606 - NRCS Support                             | 15,339.16   | 0.00  | 0.00  | 15,339.16                                   |
| 440607 - Salaries - Projects                      | 7,454.20  | 0.00  | 0.00  | 7,454.20                                    |
| 440608 - Salaries - Water                         | 36,399.32   | 0.00  | 0.00  | 36,399.32                                   |
| 440616 - Lake Wanahoo Park Op.                    | 13,764.29   | 0.00  | 0.00  | 13,764.29                                   |
| <b>Total Salaries</b>                             | <b>117,504.63</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>117,504.63</b>                           |
| <b>Total Personnel Expenses</b>                   | <b>167,632.91</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>167,632.91</b>                           |
| <b>Water Expenses</b>                             |   |   |   |   |
| <b>Groundwater Management Plan</b>                |   |   |   |   |
| 460101 - GWMP - Cost - Share                      | 1,601.00  | 0.00  | 0.00  | 1,601.00                                    |
| 460103 - GWMP - Nitrogen Classes                  | 1,730.00  | 0.00  | 0.00  | 1,730.00                                    |
| 460110 - Basin Wide Water Plan                    | 1,666.65  | 0.00  | 0.00  | 1,666.65                                    |
| 460111 - Flow Meter Maintenance                   | 80.00   | 0.00  | 0.00  | 80.00                                       |
| <b>Total Groundwater Management Plan</b>          | <b>5,077.65</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>5,077.65</b>                             |

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

|  | Natural Resources<br>District<br>Month Ending<br>08/31/2023 | Rural Water-Bruno<br>Month Ending<br>08/31/2023 | Rural Water-Colon<br>Month Ending<br>08/31/2023 | All Districts<br>Month Ending<br>08/31/2023 |
|--|---|---|---|---|
| <b>Groundwater Programs</b>                |   |   |   |   |
| 460201 - Decommissioned Wells              | 4,462.43  | 0.00  | 0.00  | 4,462.43                                    |
| 460204 - GW Quality Program                | 1,563.00  | 0.00  | 0.00  | 1,563.00                                    |
| 460206 - Monitoring Wells                  | 1,314.58  | 0.00  | 0.00  | 1,314.58                                    |
| 460213 - GW Memberships and Subscriptions  | 657.50  | 0.00  | 0.00  | 657.50                                      |
| <b>Total Groundwater Programs</b>          | <b>7,997.51</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>7,997.51</b>                             |
| <b>Surface Water Programs</b>              |   |   |   |   |
| 460403 - Stream Flow                       | 18,190.00   | 0.00  | 0.00  | 18,190.00                                   |
| <b>Total Surface Water Programs</b>        | <b>18,190.00</b>  | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>18,190.00</b>                            |
| <b>Special Projects</b>                    |   |   |   |   |
| 460504 - ENWRA                             | 2,500.00  | 0.00  | 0.00  | 2,500.00                                    |
| 460519 - Hydrological Study                | 5,301.25  | 0.00  | 0.00  | 5,301.25                                    |
| <b>Total Special Projects</b>              | <b>7,801.25</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>7,801.25</b>                             |
| <b>Land Treatment</b>                      |   |   |   |   |
| 450204 - Shell Creek                       | 792.00  | 0.00  | 0.00  | 792.00                                      |
| 450803 - Shell Creek Watershed Plan 319    | 2,807.36  | 0.00  | 0.00  | 2,807.36                                    |
| <b>Total Land Treatment</b>                | <b>3,599.36</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>3,599.36</b>                             |
| <b>Total Water Expenses</b>                | <b>42,665.77</b>  | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>42,665.77</b>                            |
| <b>Rural Water District Expenses</b>       |   |   |   |   |
| 570201 - Water Purchase                    | 0.00  | 3,553.94  | 1,029.88  | 4,583.82                                    |
| 570204 - Testing                           | 0.00  | 15.00   | 15.00   | 30.00                                       |
| 570206 - Repair                            | 0.00  | 0.00  | 11.77   | 11.77                                       |
| 570207 - Other Expenses                    | 0.00  | 0.00  | 55.00   | 55.00                                       |
| 570208 - Lpnnrd Adm. Fee                   | 0.00  | 334.49  | 251.44  | 585.93                                      |
| 570210 - Health/Life/Vision/LTD - ER       | 0.00  | 202.16  | 303.23  | 505.39                                      |
| 570211 - Dental - ER                       | 0.00  | 21.72   | 32.59   | 54.31                                       |
| 570212 - 414H ER Contributions             | 0.00  | 56.00   | 84.01   | 140.01                                      |
| 570215 - ER Social Security Tax            | 0.00  | 70.58   | 99.84   | 170.42                                      |
| 570216 - ER Medicare Tax                   | 0.00  | 16.50   | 23.35   | 39.85                                       |
| 570217 - Salaries                          | 0.00  | 728.43  | 1,189.76  | 1,918.19                                    |
| 570219 - Fees And Licenses                 | 0.00  | 17.13   | 25.68   | 42.81                                       |
| 570220 - Rural Water One-Call              | 0.00  | 2.66  | 4.43  | 7.09  |
| 570221 - Rural Water Hand Tools & Supplies | 0.00  | 5.78  | 28.98   | 34.76                                       |
| 570223 - Rural Water Gasoline              | 0.00  | 30.26   | 30.26   | 60.52                                       |
| 570308 - Colon Meter House Expense         | 0.00  | 0.00  | 83.72   | 83.72                                       |
| 570309 - Colon Sewer Collections           | 0.00  | 0.00  | 2,457.00  | 2,457.00                                    |
| <b>Total Rural Water District Expenses</b> | <b>0.00</b>   | <b>5,054.65</b>                                 | <b>5,725.94</b>                                 | <b>10,780.59</b>                            |
| <b>Depreciation Expense</b>                |   |   |   |   |
| <b>Depreciation</b>                        |   |   |   |   |
| 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  |
| <b>Total Depreciation</b>                  | <b>48,452.22</b>  | <b>677.91</b>                                   | <b>1,437.07</b>                                 | <b>50,567.20</b>                            |
| <b>Total Depreciation Expense</b>          | <b>48,452.22</b>  | <b>677.91</b>                                   | <b>1,437.07</b>                                 | <b>50,567.20</b>                            |
| <b>Total Expenses</b>                      | <b>314,067.51</b>   | <b>5,732.56</b>                                 | <b>7,256.66</b>                                 | <b>327,056.73</b>                           |
| <b>Total Change in Net Position</b>        | <b>\$ (128,953.02)</b>                                      | <b>\$ 964.62</b>                                | <b>\$ 381.41</b>                                | <b>\$ (127,606.99)</b>                      |

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

|   | Natural Resources<br>District<br>Year To Date<br>08/31/2023 | Rural Water-Bruno<br>Year To Date<br>08/31/2023 | Rural Water-Colon<br>Year To Date<br>08/31/2023 | All Districts<br>Year To Date<br>08/31/2023 |
|---|---|---|---|---|
| <b>Income</b>                                 |   |   |   |   |
| <b>Federal Income</b>                         |   |   |   |   |
| 303206 - Wahoo Creek 319 Grant                | 0.00  | 0.00  | 0.00  | 0.00  |
| 303207 - Shell Creek 319 Grant                | 3,800.05  | 0.00  | 0.00  | 3,800.05                                    |
| 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                 | 81,366.75   | 0.00  | 0.00  | 81,366.75                                   |
| 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  |
| <b>Total Federal Income</b>                   | <b>\$ 85,166.80</b>   | <b>\$ 0.00</b>                                  | <b>\$ 0.00</b>                                  | <b>\$ 85,166.80</b>                         |
| <b>State Income</b>                           |   |   |   |   |
| 301201 - Natural Resources WQ Fund            | 16,354.75   | 0.00  | 0.00  | 16,354.75                                   |
| 301203 - Motor Vehicle Pro-Rate               | 520.88  | 0.00  | 0.00  | 520.88                                      |
| 301309 - Water Sustainability Fund            | 6,342.00  | 0.00  | 0.00  | 6,342.00                                    |
| 301310 - Shell Creek NET                      | 1,548.84  | 0.00  | 0.00  | 1,548.84                                    |
| 301315 - WSF and EA Application               | 63,311.04   | 0.00  | 0.00  | 63,311.04                                   |
| 301325 - JEDI Funding                         | 35,567.58   | 0.00  | 0.00  | 35,567.58                                   |
| 304100 - Lake Wanahoo - Other                 | 1,320.00  | 0.00  | 0.00  | 1,320.00                                    |
| <b>Total State Income</b>                     | <b>124,965.09</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>124,965.09</b>                           |
| <b>Local Income</b>                           |   |   |   |   |
| 304105 - Education Building Rent              | 3,200.00  | 0.00  | 0.00  | 3,200.00                                    |
| 304112 - Dirt Sales - Wanahoo                 | 938.40  | 0.00  | 0.00  | 938.40                                      |
| 304400 - Flow Meter Maint. Reimb.             | 144.00  | 0.00  | 0.00  | 144.00                                      |
| 304500 - JWMA B                               | 15,157.50   | 0.00  | 0.00  | 15,157.50                                   |
| <b>Total Local Income</b>                     | <b>19,439.90</b>  | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>19,439.90</b>                            |
| <b>Rural Water Income</b>                     |   |   |   |   |
| 304240 - Water Sales                          | 0.00  | 10,473.25                                       | 9,797.46  | 20,270.71                                   |
| 304295 - Colon Sewer Fees                     | 0.00  | 0.00  | 4,914.00  | 4,914.00                                    |
| 304261 - Other Revenue                        | 0.00  | 10.53   | 305.98  | 316.51                                      |
| <b>Total Rural Water Income</b>               | <b>0.00</b>   | <b>10,483.78</b>                                | <b>15,017.44</b>                                | <b>25,501.22</b>                            |
| <b>Property Tax Income</b>                    |   |   |   |   |
| 305100 - General Fund Property Taxes-Boone    | 921.69  | 0.00  | 0.00  | 921.69                                      |
| 305200 - General Fund Property Taxes-Butler   | 73.29   | 0.00  | 0.00  | 73.29                                       |
| 305300 - General Fund Property Taxes-Colfax   | 161.25  | 0.00  | 0.00  | 161.25                                      |
| 305400 - General Fund Property Taxes-Dodge    | 2,263.29  | 0.00  | 0.00  | 2,263.29                                    |
| 305500 - General Fund Property Taxes-Madison  | 10.92   | 0.00  | 0.00  | 10.92                                       |
| 305600 - General Fund Property Taxes-Platte   | 76.12   | 0.00  | 0.00  | 76.12                                       |
| 305700 - General Fund Property Taxes-Saunders | 568.17  | 0.00  | 0.00  | 568.17                                      |
| <b>Total Property Tax Income</b>              | <b>4,074.73</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>4,074.73</b>                             |
| <b>Investment Income</b>                      |   |   |   |   |
| 311350 - Interest - NPAIT Elkhorn             | 24.85   | 0.00  | 0.00  | 24.85                                       |
| 311400 - Interest - NPAIT Wanahoo SRA         | 4,112.97  | 0.00  | 0.00  | 4,112.97                                    |
| 311450 - Interest Income-Elkhorn IPA          | 19.40   | 0.00  | 0.00  | 19.40                                       |
| 311500 - Interest - NPAIT NRD                 | 21.45   | 0.00  | 0.00  | 21.45                                       |
| 311600 - Interest - STFIT NRD                 | 29,214.86   | 0.00  | 0.00  | 29,214.86                                   |
| 311700 - Interest - UBT NRD                   | 168.01  | 0.00  | 0.00  | 168.01                                      |
| 304350 - Colon RW Interest - NPAIT            | 0.00  | 0.00  | 78.55   | 78.55                                       |
| <b>Total Investment Income</b>                | <b>33,561.54</b>  | <b>0.00</b>                                     | <b>78.55</b>                                    | <b>33,640.09</b>                            |
| <b>Miscellaneous Income</b>                   |   |   |   |   |
| 309350 - Sales - Well Permits                 | 150.00  | 0.00  | 0.00  | 150.00                                      |
| 309360 - Sales - Sample Kits                  | 1,640.00  | 0.00  | 0.00  | 1,640.00                                    |
| 309400 - Sales - Other                        | 1,750.00  | 0.00  | 0.00  | 1,750.00                                    |
| 309500 - Equipment Rent                       | 3,759.11  | 0.00  | 0.00  | 3,759.11                                    |
| 310000 - Chemigation Permits                  | 1,445.00  | 0.00  | 0.00  | 1,445.00                                    |
| 310200 - Czechland Camping Fees               | 2,822.83  | 0.00  | 0.00  | 2,822.83                                    |
| 310201 - Wanahoo Park Permits                 | 16,965.55   | 0.00  | 0.00  | 16,965.55                                   |
| 310202 - Lake Wanahoo Camping                 | 34,157.93   | 0.00  | 0.00  | 34,157.93                                   |

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

|   | Natural Resources<br>District<br>Year To Date<br>08/31/2023 | Rural Water-Bruno<br>Year To Date<br>08/31/2023 | Rural Water-Colon<br>Year To Date<br>08/31/2023 | All Districts<br>Year To Date<br>08/31/2023 |
|---|---|---|---|---|
| 313000 - Miscellaneous Income               | 1,320.02  | 0.00  | 0.00  | 1,320.02                                    |
| 315000 - RWD Administrative Fees            | 1,013.55  | 0.00  | 0.00  | 1,013.55                                    |
| 316000 - Employee/Director Reimb            | (570.93)  | 0.00  | 0.00  | (570.93)                                    |
| <b>Total Miscellaneous Income</b>           | <b>64,453.06</b>  | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>64,453.06</b>                            |
| <b>Total Income</b>                         | <b>331,661.12</b>   | <b>10,483.78</b>                                | <b>15,095.99</b>                                | <b>357,240.89</b>                           |
| <b>Expenses</b>                             |   |   |   |   |
| <b>Administration Expenses</b>              |   |   |   |   |
| <b>Dues &amp; Membership</b>                |   |   |   |   |
| 410202 - Dues & Membership - NACD           | 296.00  | 0.00  | 0.00  | 296.00                                      |
| 410203 - Dues - NARD                        | 5,324.91  | 0.00  | 0.00  | 5,324.91                                    |
| 410204 - Dues - NWRA                        | 1,950.00  | 0.00  | 0.00  | 1,950.00                                    |
| 410205 - Dues & Membership - Other          | 60.00   | 0.00  | 0.00  | 60.00                                       |
| <b>Total Dues &amp; Membership</b>          | <b>7,630.91</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>7,630.91</b>                             |
| <b>Fees and Licenses</b>                    |   |   |   |   |
| 410304 - NRD Union Bank Fees                | 54.12   | 0.00  | 0.00  | 54.12                                       |
| <b>Total Fees and Licenses</b>              | <b>54.12</b>  | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>54.12</b>                                |
| <b>Insurance</b>                            |   |   |   |   |
| 410501 - Insurance-Auto                     | 1,972.16  | 0.00  | 0.00  | 1,972.16                                    |
| 410502 - Insurance-Errors & Omissions       | 1,070.84  | 0.00  | 0.00  | 1,070.84                                    |
| 410504 - Insurance-Liability                | 10,282.34   | 0.00  | 0.00  | 10,282.34                                   |
| 410505 - Insurance-Property                 | 3,352.16  | 0.00  | 0.00  | 3,352.16                                    |
| <b>Total Insurance</b>                      | <b>16,677.50</b>  | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>16,677.50</b>                            |
| <b>Interest Expense</b>                     |   |   |   |   |
| 410600 - Interest Expense                   | 0.00  | 0.00  | 187.30  | 187.30                                      |
| <b>Total Interest Expense</b>               | <b>0.00</b>   | <b>0.00</b>                                     | <b>187.30</b>                                   | <b>187.30</b>                               |
| <b>Legal Notices</b>                        |   |   |   |   |
| 410701 - Legal Notices                      | 367.97  | 0.00  | 0.00  | 367.97                                      |
| <b>Total Legal Notices</b>                  | <b>367.97</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>367.97</b>                               |
| <b>Maintenance Contracts</b>                |   |   |   |   |
| 410800 - Maintenance Contracts              | 8,944.35  | 0.00  | 0.00  | 8,944.35                                    |
| <b>Total Maintenance Contracts</b>          | <b>8,944.35</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>8,944.35</b>                             |
| <b>Office Supply &amp; Expense</b>          |   |   |   |   |
| 410902 - Office Supplies & Equip            | 830.08  | 0.00  | 0.00  | 830.08                                      |
| 410906 - Office Expense - Other             | 244.88  | 0.00  | 0.00  | 244.88                                      |
| <b>Total Office Supply &amp; Expense</b>    | <b>1,074.96</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>1,074.96</b>                             |
| <b>Computer Supply &amp; Expense</b>        |   |   |   |   |
| 411002 - Computer Consultant                | 800.00  | 0.00  | 0.00  | 800.00                                      |
| 411003 - Computer Repairs & Parts           | 766.25  | 0.00  | 0.00  | 766.25                                      |
| 411004 - Computer Software                  | (963.32)  | 0.00  | 0.00  | (963.32)                                    |
| 411006 - Email                              | 496.80  | 0.00  | 0.00  | 496.80                                      |
| 411011 - Computers & Equipment              | 2,096.12  | 0.00  | 0.00  | 2,096.12                                    |
| <b>Total Computer Supply &amp; Expense</b>  | <b>3,195.85</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>3,195.85</b>                             |
| <b>Postage</b>                              |   |   |   |   |
| 411200 - Postage                            | 112.50  | 0.00  | 0.00  | 112.50                                      |
| <b>Total Postage</b>                        | <b>112.50</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>112.50</b>                               |
| <b>Professional Services</b>                |   |   |   |   |
| 411301 - Prof Serv-Accounting               | 13,500.00   | 0.00  | 0.00  | 13,500.00                                   |
| 411304 - Prof Serv-Legal - General          | 1,814.00  | 0.00  | 0.00  | 1,814.00                                    |
| 411311 - Washington Expense                 | 4,200.00  | 0.00  | 0.00  | 4,200.00                                    |
| <b>Total Professional Services</b>          | <b>19,514.00</b>  | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>19,514.00</b>                            |
| <b>Telephone Expense</b>                    |   |   |   |   |
| 411601 - Telephone - Cellular               | 2,041.49  | 0.00  | 0.00  | 2,041.49                                    |
| 411602 - Local Phone & Internet             | 1,497.65  | 0.00  | 0.00  | 1,497.65                                    |
| <b>Total Telephone Expense</b>              | <b>3,539.14</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>3,539.14</b>                             |
| <b>Utilities</b>                            |   |   |   |   |
| 411700 - Utilities Expense                  | 1,651.85  | 0.00  | 0.00  | 1,651.85                                    |
| <b>Total Utilities</b>                      | <b>1,651.85</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>1,651.85</b>                             |
| <b>Total Administration Expenses</b>        | <b>62,763.15</b>  | <b>0.00</b>                                     | <b>187.30</b>                                   | <b>62,950.45</b>                            |
| <b>Information &amp; Education Expenses</b> |   |   |   |   |
| <b>Education</b>                            |   |   |   |   |
| 420104 - Outdoor Classrooms                 | 67.47   | 0.00  | 0.00  | 67.47                                       |
| 420109 - Education Outreach                 | 390.43  | 0.00  | 0.00  | 390.43                                      |
| <b>Total Education</b>                      | <b>457.90</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>457.90</b>                               |

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

|   | Natural Resources<br>District<br>Year To Date<br>08/31/2023 | Rural Water-Bruno<br>Year To Date<br>08/31/2023 | Rural Water-Colon<br>Year To Date<br>08/31/2023 | All Districts<br>Year To Date<br>08/31/2023 |
|---|---|---|---|---|
| <b>Information</b>                                |   |   |   |   |
| 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                            | 113.00  | 0.00  | 0.00  | 113.00                                      |
| 420209 - Ktic Ad                                  | 434.00  | 0.00  | 0.00  | 434.00                                      |
| 420211 - E-Ads                                    | 280.00  | 0.00  | 0.00  | 280.00                                      |
| 420212 - TV Promotion                             | 499.00  | 0.00  | 0.00  | 499.00                                      |
| <b>Total Information</b>                          | <b>7,316.52</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>7,316.52</b>                             |
| <b>Scholarships and Grants</b>                    |   |   |   |   |
| 420307 - Shell Crk Watershd Scholarship           | 1,500.00  | 0.00  | 0.00  | 1,500.00                                    |
| <b>Total Scholarships and Grants</b>              | <b>1,500.00</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>1,500.00</b>                             |
| <b>Total Information &amp; Education Expenses</b> | <b>9,274.42</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>9,274.42</b>                             |
| <b>Operation &amp; Maintenance</b>                |   |   |   |   |
| <b>Auto and Truck</b>                             |   |   |   |   |
| 430101 - Auto & Truck Gas                         | 5,240.66  | 0.00  | 0.00  | 5,240.66                                    |
| 430102 - Auto & Truck R&M                         | 2,648.41  | 0.00  | 0.00  | 2,648.41                                    |
| <b>Total Auto and Truck</b>                       | <b>7,889.07</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>7,889.07</b>                             |
| <b>Building Maintenance</b>                       |   |   |   |   |
| 430201 - Bldg Maintenance                         | 24.54   | 0.00  | 0.00  | 24.54                                       |
| 430202 - Office Cleaning                          | 935.00  | 0.00  | 0.00  | 935.00                                      |
| 430203 - Garbage Maintenance                      | 166.88  | 0.00  | 0.00  | 166.88                                      |
| <b>Total Building Maintenance</b>                 | <b>1,126.42</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>1,126.42</b>                             |
| <b>Operation and Maintenance</b>                  |   |   |   |   |
| 430401 - Czechland & Homestead                    | 1,759.13  | 0.00  | 0.00  | 1,759.13                                    |
| 430402 - Equipment Upkeep                         | 870.04  | 0.00  | 0.00  | 870.04                                      |
| 430403 - Operation & Maintenance                  | 1,534.99  | 0.00  | 0.00  | 1,534.99                                    |
| 430406 - Wanahoo Park Operation                   | 3,466.02  | 0.00  | 0.00  | 3,466.02                                    |
| 430408 - Wanahoo Rec Mgmt                         | 11,404.13   | 0.00  | 0.00  | 11,404.13                                   |
| 430409 - Lake Wanahoo Education Building          | 1,086.01  | 0.00  | 0.00  | 1,086.01                                    |
| <b>Total Operation and Maintenance</b>            | <b>20,120.32</b>  | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>20,120.32</b>                            |
| <b>Other</b>                                      |   |   |   |   |
| 430804 - O&M One-Call Services                    | 19.76   | 0.00  | 0.00  | 19.76                                       |
| <b>Total Other</b>                                | <b>19.76</b>  | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>19.76</b>                                |
| <b>Total Operation &amp; Maintenance</b>          | <b>29,155.57</b>  | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>29,155.57</b>                            |
| <b>Personnel Expenses</b>                         |   |   |   |   |
| <b>Director Expense</b>                           |   |   |   |   |
| 440101 - Director Meeting Expense                 | 1,679.45  | 0.00  | 0.00  | 1,679.45                                    |
| <b>Total Director Expense</b>                     | <b>1,679.45</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>1,679.45</b>                             |
| <b>Employee Benefits</b>                          |   |   |   |   |
| 440301 - Dental Insurance                         | 3,491.90  | 0.00  | 0.00  | 3,491.90                                    |
| 440302 - Health Insurance                         | 65,659.15   | 0.00  | 0.00  | 65,659.15                                   |
| 440303 - Retirement Benefit - 414H                | 8,952.19  | 0.00  | 0.00  | 8,952.19                                    |
| 440306 - Workmans Comp Benefit                    | 1,928.68  | 0.00  | 0.00  | 1,928.68                                    |
| 440307 - Employee Benefits - Other                | (64.06)   | 0.00  | 0.00  | (64.06)                                     |
| 440309 - Flexible Spending Fee                    | 45.00   | 0.00  | 0.00  | 45.00                                       |
| <b>Total Employee Benefits</b>                    | <b>80,012.86</b>  | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>80,012.86</b>                            |
| <b>Payroll Taxes</b>                              |   |   |   |   |
| 440401 - FICA - ER                                | 9,824.53  | 0.00  | 0.00  | 9,824.53                                    |
| 440402 - Medicare - ER                            | 2,297.66  | 0.00  | 0.00  | 2,297.66                                    |
| <b>Total Payroll Taxes</b>                        | <b>12,122.19</b>  | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>12,122.19</b>                            |
| <b>Personnel Expense</b>                          |   |   |   |   |
| 440501 - Personnel Meeting Exp                    | 3,529.30  | 0.00  | 0.00  | 3,529.30                                    |
| 440502 - Personnel Mileage Exp                    | 911.00  | 0.00  | 0.00  | 911.00                                      |
| 440504 - Personnel Uniform Exp                    | 104.98  | 0.00  | 0.00  | 104.98                                      |
| <b>Total Personnel Expense</b>                    | <b>4,545.28</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>4,545.28</b>                             |
| <b>Salaries</b>                                   |   |   |   |   |
| 440601 - Salaries - Administration                | 28,234.26   | 0.00  | 0.00  | 28,234.26                                   |
| 440602 - Salaries - Clerical                      | 3,387.06  | 0.00  | 0.00  | 3,387.06                                    |
| 440604 - Salaries - I & E                         | 12,006.21   | 0.00  | 0.00  | 12,006.21                                   |
| 440605 - Salaries - Op & Maint                    | 23,473.12   | 0.00  | 0.00  | 23,473.12                                   |
| 440606 - NRCS Support                             | 45,311.91   | 0.00  | 0.00  | 45,311.91                                   |
| 440607 - Salaries - Projects                      | 11,181.30   | 0.00  | 0.00  | 11,181.30                                   |
| 440608 - Salaries - Water                         | 53,790.60   | 0.00  | 0.00  | 53,790.60                                   |
| 440616 - Lake Wanahoo Park Op.                    | 20,668.90   | 0.00  | 0.00  | 20,668.90                                   |

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

|  | Natural Resources<br>District<br>Year To Date<br>08/31/2023 | Rural Water-Bruno<br>Year To Date<br>08/31/2023 | Rural Water-Colon<br>Year To Date<br>08/31/2023 | All Districts<br>Year To Date<br>08/31/2023 |
|--|---|---|---|---|
| <b>Total Salaries</b>                      | <b>198,053.36</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>198,053.36</b>                           |
| <b>Total Personnel Expenses</b>            | <b>296,413.14</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>296,413.14</b>                           |
| <b>Projects Expenses</b>                   |   |   |   |   |
| <b>Inter-Governmental</b>                  |   |   |   |   |
| 450119 - JWMA B Dodge Co                   | 20,210.00   | 0.00  | 0.00  | 20,210.00                                   |
| <b>Total Inter-Governmental</b>            | <b>20,210.00</b>  | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>20,210.00</b>                            |
| <b>Total Projects Expenses</b>             | <b>20,210.00</b>  | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>20,210.00</b>                            |
| <b>Water Expenses</b>                      |   |   |   |   |
| <b>Groundwater Management Plan</b>         |   |   |   |   |
| 460101 - GWMP - Cost - Share               | 2,785.00  | 0.00  | 0.00  | 2,785.00                                    |
| 460103 - GWMP - Nitrogen Classes           | 1,730.00  | 0.00  | 0.00  | 1,730.00                                    |
| 460110 - Basin Wide Water Plan             | 1,666.65  | 0.00  | 0.00  | 1,666.65                                    |
| 460111 - Flow Meter Maintenance            | 80.00   | 0.00  | 0.00  | 80.00                                       |
| <b>Total Groundwater Management Plan</b>   | <b>6,261.65</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>6,261.65</b>                             |
| <b>Groundwater Programs</b>                |   |   |   |   |
| 460201 - Decommissioned Wells              | 4,462.43  | 0.00  | 0.00  | 4,462.43                                    |
| 460204 - GW Quality Program                | 4,224.21  | 0.00  | 0.00  | 4,224.21                                    |
| 460206 - Monitoring Wells                  | 2,149.09  | 0.00  | 0.00  | 2,149.09                                    |
| 460213 - GW Memberships and Subscriptions  | 1,315.00  | 0.00  | 0.00  | 1,315.00                                    |
| <b>Total Groundwater Programs</b>          | <b>12,150.73</b>  | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>12,150.73</b>                            |
| <b>Regulatory</b>                          |   |   |   |   |
| 460301 - Chemigation                       | 293.08  | 0.00  | 0.00  | 293.08                                      |
| <b>Total Regulatory</b>                    | <b>293.08</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>293.08</b>                               |
| <b>Surface Water Programs</b>              |   |   |   |   |
| 460403 - Stream Flow                       | 18,190.00   | 0.00  | 0.00  | 18,190.00                                   |
| <b>Total Surface Water Programs</b>        | <b>18,190.00</b>  | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>18,190.00</b>                            |
| <b>Special Projects</b>                    |   |   |   |   |
| 460504 - ENWRA                             | 5,000.00  | 0.00  | 0.00  | 5,000.00                                    |
| 460519 - Hydrological Study                | 10,570.00   | 0.00  | 0.00  | 10,570.00                                   |
| <b>Total Special Projects</b>              | <b>15,570.00</b>  | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>15,570.00</b>                            |
| <b>Land Treatment</b>                      |   |   |   |   |
| 450204 - Shell Creek                       | 792.00  | 0.00  | 0.00  | 792.00                                      |
| 450803 - Shell Creek Watershed Plan 319    | 4,798.89  | 0.00  | 0.00  | 4,798.89                                    |
| <b>Total Land Treatment</b>                | <b>5,590.89</b>   | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>5,590.89</b>                             |
| <b>Total Water Expenses</b>                | <b>58,056.35</b>  | <b>0.00</b>                                     | <b>0.00</b>                                     | <b>58,056.35</b>                            |
| <b>Rural Water District Expenses</b>       |   |   |   |   |
| 570201 - Water Purchase                    | 0.00  | 5,842.39  | 2,360.07  | 8,202.46                                    |
| 570204 - Testing                           | 0.00  | 30.00   | 30.00   | 60.00                                       |
| 570206 - Repair                            | 0.00  | 0.00  | 11.77   | 11.77                                       |
| 570207 - Other Expenses                    | 0.00  | 0.00  | 55.00   | 55.00                                       |
| 570208 - Lpnnrd Adm. Fee                   | 0.00  | 523.67  | 489.88  | 1,013.55                                    |
| 570210 - Health/Life/Vision/LTD - ER       | 0.00  | 417.55  | 626.31  | 1,043.86                                    |
| 570211 - Dental - ER                       | 0.00  | 45.58   | 68.38   | 113.96                                      |
| 570212 - 414H ER Contributions             | 0.00  | 115.64  | 173.47  | 289.11                                      |
| 570215 - ER Social Security Tax            | 0.00  | 125.05  | 180.37  | 305.42                                      |
| 570216 - ER Medicare Tax                   | 0.00  | 29.24   | 42.18   | 71.42                                       |
| 570217 - Salaries                          | 0.00  | 887.62  | 1,447.15  | 2,334.77                                    |
| 570219 - Fees And Licenses                 | 0.00  | 34.26   | 51.36   | 85.62                                       |
| 570220 - Rural Water One-Call              | 0.00  | 3.58  | 10.86   | 14.44                                       |
| 570221 - Rural Water Hand Tools & Supplies | 0.00  | 5.78  | 28.98   | 34.76                                       |
| 570223 - Rural Water Gasoline              | 0.00  | 150.74  | 66.11   | 216.85                                      |
| 570231 - Rural Water Equipment Upkeep      | 0.00  | 188.04  | 282.07  | 470.11                                      |
| 570308 - Colon Meter House Expense         | 0.00  | 0.00  | 165.20  | 165.20                                      |
| 570309 - Colon Sewer Collections           | 0.00  | 0.00  | 4,914.00  | 4,914.00                                    |
| <b>Total Rural Water District Expenses</b> | <b>0.00</b>   | <b>8,399.14</b>                                 | <b>11,003.16</b>                                | <b>19,402.30</b>                            |
| <b>Depreciation Expense</b>                |   |   |   |   |
| <b>Depreciation</b>                        |   |   |   |   |
| 908000 - Depreciation Expense              | 96,904.44   | 1,355.82  | 2,865.80  | 101,126.06                                  |
| 908350 - Amortization Expense - Colon      | 0.00  | 0.00  | 8.34  | 8.34  |
| <b>Total Depreciation</b>                  | <b>96,904.44</b>  | <b>1,355.82</b>                                 | <b>2,874.14</b>                                 | <b>101,134.40</b>                           |
| <b>Total Depreciation Expense</b>          | <b>96,904.44</b>  | <b>1,355.82</b>                                 | <b>2,874.14</b>                                 | <b>101,134.40</b>                           |
| <b>Total Expenses</b>                      | <b>572,777.07</b>   | <b>9,754.96</b>                                 | <b>14,064.60</b>                                | <b>596,596.63</b>                           |
| <b>Total Change in Net Position</b>        | <b>\$(241,115.95)</b>                                       | <b>\$ 728.82</b>                                | <b>\$ 1,031.39</b>                              | <b>\$(239,355.74)</b>                       |

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

|   | Month Ending<br>08/31/2023<br><small>MTD Actual</small> | Year To Date<br>08/31/2023<br><small>FYTD Actual</small> | Annual Budget<br>June 30, 2024<br><small>FY2024</small> | \$ Difference<br>Annual Budget | Percentage<br>Annual Budget |
|---|---|--|---|--------------------------------|-----------------------------|
| <b>Change in Net Position</b>                 |   |  |   |                                |                             |
| <b>Income</b>                                 |   |  |   |                                |                             |
| <b>Federal Income</b>                         |   |  |   |                                |                             |
| 303206 - Wahoo Creek 319 Grant                | 0.00  | 0.00   | 50,000.00   | (50,000.00)                    | 0.00 %                      |
| 303207 - Shell Creek 319 Grant                | 1,808.52  | 3,800.05   | 160,000.00  | (156,199.95)                   | 2.38 %                      |
| 303225 - Wahoo Creek WS PL566                 | 31,910.77   | 81,366.75  | 0.00  | 81,366.75                      | 0.00 %                      |
| 303961 - FEMA - Flood Funds                   | 0.00  | 0.00   | 1,491,585.00  | (1,491,585.00)                 | 0.00 %                      |
| 303966 - FEMA - Hazard Mitigation Plan Update | 0.00  | 0.00   | 75,000.00   | (75,000.00)                    | 0.00 %                      |
| 303963 - FEMA - 428 Funds                     | 0.00  | 0.00   | 280,704.00  | (280,704.00)                   | 0.00 %                      |
| 303964 - Federal - NRCS                       | 0.00  | 0.00   | 794,000.00  | (794,000.00)                   | 0.00 %                      |
| 303965 - Federal Wanahoo - Stilling           | 0.00  | 0.00   | 696,452.00  | (696,452.00)                   | 0.00 %                      |
| <b>Total Federal Income</b>                   | <b>33,719.29</b>  | <b>85,166.80</b>   | <b>3,547,741.00</b>                                     | <b>(3,462,574.20)</b>          | <b>2.40 %</b>               |
| <b>State Income</b>                           |   |  |   |                                |                             |
| 301201 - Natural Resources WQ Fund            | 16,354.75   | 16,354.75  | 52,000.00   | (35,645.25)                    | 31.45 %                     |
| 301202 - Decommissioned Wells                 | 0.00  | 0.00   | 4,300.00  | (4,300.00)                     | 0.00 %                      |
| 301203 - Motor Vehicle Pro-Rate               | 0.00  | 520.88   | 8,400.00  | (7,879.12)                     | 6.20 %                      |
| 301303 - Sand Creek NRDF                      | 0.00  | 0.00   | 20,000.00   | (20,000.00)                    | 0.00 %                      |
| 301309 - Water Sustainability Fund            | 3,180.75  | 6,342.00   | 165,000.00  | (158,658.00)                   | 3.84 %                      |
| 301310 - Shell Creek NET                      | 998.84  | 1,548.84   | 100,000.00  | (98,451.16)                    | 1.55 %                      |
| 301315 - WSF and EA Application               | 63,311.04   | 63,311.04  | 0.00  | 63,311.04                      | 0.00 %                      |
| 301325 - JEDI Funding                         | 21,464.48   | 35,567.58  | 800,000.00  | (764,432.42)                   | 4.45 %                      |
| 301800 - State Grant - Whip/Ne Wild           | 0.00  | 0.00   | 500.00  | (500.00)                       | 0.00 %                      |
| 301900 - State Grant - NE Buffer Strip        | 0.00  | 0.00   | 51,000.00   | (51,000.00)                    | 0.00 %                      |
| 304100 - Lake Wanahoo - Other                 | 385.75  | 1,320.00   | 25,000.00   | (23,680.00)                    | 5.28 %                      |
| <b>Total State Income</b>                     | <b>105,695.61</b>                                       | <b>124,965.09</b>  | <b>1,226,200.00</b>                                     | <b>(1,101,234.91)</b>          | <b>10.19 %</b>              |
| <b>Local Income</b>                           |   |  |   |                                |                             |
| 304105 - Education Building Rent              | 2,150.00  | 3,200.00   | 17,000.00   | (13,800.00)                    | 18.82 %                     |
| 304112 - Dirt Sales - Wanahoo                 | 431.57  | 938.40   | 10,000.00   | (9,061.60)                     | 9.38 %                      |
| 304400 - Flow Meter Maint. Reimb.             | 36.00   | 144.00   | 3,100.00  | (2,956.00)                     | 4.65 %                      |
| 304500 - JWMA B                               | 0.00  | 15,157.50  | 15,000.00   | 157.50                         | 101.05 %                    |
| <b>Total Local Income</b>                     | <b>2,617.57</b>   | <b>19,439.90</b>   | <b>45,100.00</b>  | <b>(25,660.10)</b>             | <b>43.10 %</b>              |
| <b>Property Tax Income</b>                    |   |  |   |                                |                             |
| 305100 - General Fund Property Taxes-Boone    | 0.00  | 921.69   | 117,500.00  | (116,578.31)                   | 0.78 %                      |
| 305200 - General Fund Property Taxes-Butler   | 38.67   | 73.29  | 400,000.00  | (399,926.71)                   | 0.02 %                      |
| 305300 - General Fund Property Taxes-Colfax   | 130.99  | 161.25   | 330,000.00  | (329,838.75)                   | 0.05 %                      |
| 305400 - General Fund Property Taxes-Dodge    | 248.50  | 2,263.29   | 1,113,000.00  | (1,110,736.71)                 | 0.20 %                      |
| 305500 - General Fund Property Taxes-Madison  | 4.35  | 10.92  | 51,000.00   | (50,989.08)                    | 0.02 %                      |
| 305600 - General Fund Property Taxes-Platte   | 56.07   | 76.12  | 464,000.00  | (463,923.88)                   | 0.02 %                      |
| 305700 - General Fund Property Taxes-Saunders | 265.99  | 568.17   | 1,275,000.00  | (1,274,431.83)                 | 0.04 %                      |
| <b>Total Property Tax Income</b>              | <b>744.57</b>   | <b>4,074.73</b>  | <b>3,750,500.00</b>                                     | <b>(3,746,425.27)</b>          | <b>0.11 %</b>               |
| <b>Investment Income</b>                      |   |  |   |                                |                             |
| 311350 - Interest - NPAIT Elkhorn             | 12.71   | 24.85  | 102.00  | (77.15)                        | 24.36 %                     |
| 311400 - Interest - NPAIT Wanahoo SRA         | 2,092.31  | 4,112.97   | 15,700.00   | (11,587.03)                    | 26.20 %                     |
| 311450 - Interest Income-Elkhorn IPA          | 19.40   | 19.40  | 200.00  | (180.60)                       | 9.70 %                      |
| 311500 - Interest - NPAIT NRD                 | 10.86   | 21.45  | 90.00   | (68.55)                        | 23.83 %                     |
| 311600 - Interest - STFIT NRD                 | 15,874.79   | 29,214.86  | 106,000.00  | (76,785.14)                    | 27.56 %                     |
| 311700 - Interest - UBT NRD                   | 89.16   | 168.01   | 875.00  | (706.99)                       | 19.20 %                     |
| <b>Total Investment Income</b>                | <b>18,099.23</b>  | <b>33,561.54</b>   | <b>122,967.00</b>                                       | <b>(89,405.46)</b>             | <b>27.29 %</b>              |
| <b>Miscellaneous Income</b>                   |   |  |   |                                |                             |

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

|   | Month Ending<br>08/31/2023<br><small>MTD Actual</small> | Year To Date<br>08/31/2023<br><small>FYTD Actual</small> | Annual Budget<br>June 30, 2024<br><small>FY2024</small> | \$ Difference<br>Annual Budget | Percentage<br>Annual Budget |
|---|---|--|---|--------------------------------|-----------------------------|
| 309100 - Sales - Trees                  | 0.00  | 0.00   | 20,000.00   | (20,000.00)                    | 0.00 %                      |
| 309350 - Sales - Well Permits           | 50.00   | 150.00   | 3,000.00  | (2,850.00)                     | 5.00 %                      |
| 309360 - Sales - Sample Kits            | 610.00  | 1,640.00   | 4,500.00  | (2,860.00)                     | 36.44 %                     |
| 309400 - Sales - Other                  | 1,300.00  | 1,750.00   | 4,500.00  | (2,750.00)                     | 38.89 %                     |
| 309500 - Equipment Rent                 | 1,023.70  | 3,759.11   | 4,000.00  | (240.89)                       | 93.98 %                     |
| 310000 - Chemigation Permits            | 510.00  | 1,445.00   | 25,000.00   | (23,555.00)                    | 5.78 %                      |
| 310100 - Check Valve Sales              | 0.00  | 0.00   | 600.00  | (600.00)                       | 0.00 %                      |
| 310200 - Czechland Camping Fees         | 1,582.36  | 2,822.83   | 12,000.00   | (9,177.17)                     | 23.52 %                     |
| 310201 - Wanahoo Park Permits           | 6,099.00  | 16,965.55  | 110,000.00  | (93,034.45)                    | 15.42 %                     |
| 310202 - Lake Wanahoo Camping           | 12,980.99   | 34,157.93  | 125,000.00  | (90,842.07)                    | 27.33 %                     |
| 312000 - Salaries-Other NRD             | 0.00  | 0.00   | 79,000.00   | (79,000.00)                    | 0.00 %                      |
| 313000 - Miscellaneous Income           | 389.19  | 1,320.02   | 18,000.00   | (16,679.98)                    | 7.33 %                      |
| 315000 - RWD Administrative Fees        | 585.93  | 1,013.55   | 5,500.00  | (4,486.45)                     | 18.43 %                     |
| 316000 - Employee/Director Reimb        | (892.95)  | (570.93)   | 2,000.00  | (2,570.93)                     | (28.55) %                   |
| 317000 - Loss Or Gain On Sale Of Assets | 0.00  | 0.00   | 120,000.00  | (120,000.00)                   | 0.00 %                      |
| 318000 - Special Project Income         | 0.00  | 0.00   | 1,000.00  | (1,000.00)                     | 0.00 %                      |
| 318500 - Change in COE Revenue          | 0.00  | 0.00   | 115,000.00  | (115,000.00)                   | 0.00 %                      |
| <b>Total Miscellaneous Income</b>       | <b>24,238.22</b>  | <b>64,453.06</b>   | <b>649,100.00</b>                                       | <b>(584,646.94)</b>            | <b>9.93 %</b>               |
| <b>Total Income</b>                     | <b>185,114.49</b>                                       | <b>331,661.12</b>  | <b>9,341,608.00</b>                                     | <b>(9,009,946.88)</b>          | <b>3.55 %</b>               |
| <b>Expenses</b>                         |   |  |   |                                |                             |
| <b>Administration Expenses</b>          |   |  |   |                                |                             |
| <b>Bonds</b>                            |   |  |   |                                |                             |
| 410100 - Bonds                          | 0.00  | 0.00   | 1,400.00  | (1,400.00)                     | 0.00 %                      |
| <b>Total Bonds</b>                      | <b>0.00</b>   | <b>0.00</b>  | <b>1,400.00</b>   | <b>(1,400.00)</b>              | <b>0.00 %</b>               |
| <b>Dues &amp; Membership</b>            |   |  |   |                                |                             |
| 410201 - Dues & Membership - Chamber    | 0.00  | 0.00   | 450.00  | (450.00)                       | 0.00 %                      |
| 410202 - Dues & Membership - NACD       | 148.00  | 296.00   | 1,776.00  | (1,480.00)                     | 16.67 %                     |
| 410203 - Dues - NARD                    | 2,714.66  | 5,324.91   | 32,575.00   | (27,250.09)                    | 16.35 %                     |
| 410204 - Dues - NWRA                    | 1,950.00  | 1,950.00   | 1,950.00  | 0.00                           | 100.00 %                    |
| 410205 - Dues & Membership - Other      | 60.00   | 60.00  | 3,200.00  | (3,140.00)                     | 1.88 %                      |
| <b>Total Dues &amp; Membership</b>      | <b>4,872.66</b>   | <b>7,630.91</b>  | <b>39,951.00</b>  | <b>(32,320.09)</b>             | <b>19.10 %</b>              |
| <b>Fees and Licenses</b>                |   |  |   |                                |                             |
| 410302 - NRD Fees And Licenses          | 0.00  | 0.00   | 10,000.00   | (10,000.00)                    | 0.00 %                      |
| 410304 - NRD Union Bank Fees            | 31.56   | 54.12  | 600.00  | (545.88)                       | 9.02 %                      |
| <b>Total Fees and Licenses</b>          | <b>31.56</b>  | <b>54.12</b>   | <b>10,600.00</b>  | <b>(10,545.88)</b>             | <b>0.51 %</b>               |
| <b>GIS</b>                              |   |  |   |                                |                             |
| 410401 - GIS Activities                 | 0.00  | 0.00   | 2,000.00  | (2,000.00)                     | 0.00 %                      |
| <b>Total GIS</b>                        | <b>0.00</b>   | <b>0.00</b>  | <b>2,000.00</b>   | <b>(2,000.00)</b>              | <b>0.00 %</b>               |
| <b>Insurance</b>                        |   |  |   |                                |                             |
| 410501 - Insurance-Auto                 | 986.08  | 1,972.16   | 15,000.00   | (13,027.84)                    | 13.15 %                     |
| 410502 - Insurance-Errors & Omissions   | 535.42  | 1,070.84   | 7,100.00  | (6,029.16)                     | 15.08 %                     |
| 410504 - Insurance-Liability            | 5,141.17  | 10,282.34  | 71,000.00   | (60,717.66)                    | 14.48 %                     |
| 410505 - Insurance-Property             | 1,704.08  | 3,352.16   | 22,000.00   | (18,647.84)                    | 15.24 %                     |
| <b>Total Insurance</b>                  | <b>8,366.75</b>   | <b>16,677.50</b>   | <b>115,100.00</b>                                       | <b>(98,422.50)</b>             | <b>14.49 %</b>              |
| <b>Legal Notices</b>                    |   |  |   |                                |                             |
| 410701 - Legal Notices                  | 240.46  | 367.97   | 4,000.00  | (3,632.03)                     | 9.20 %                      |
| 410702 - Other Notices and Advertising  | 0.00  | 0.00   | 100.00  | (100.00)                       | 0.00 %                      |
| <b>Total Legal Notices</b>              | <b>240.46</b>   | <b>367.97</b>  | <b>4,100.00</b>   | <b>(3,732.03)</b>              | <b>8.97 %</b>               |
| <b>Maintenance Contracts</b>            |   |  |   |                                |                             |

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

|   | Month Ending<br>08/31/2023<br><small>MTD Actual</small> | Year To Date<br>08/31/2023<br><small>FYTD Actual</small> | Annual Budget<br>June 30, 2024<br><small>FY2024</small> | \$ Difference<br>Annual Budget | Percentage<br>Annual Budget |
|---|---|--|---|--------------------------------|-----------------------------|
| 410800 - Maintenance Contracts              | 8,565.81  | 8,944.35   | 5,000.00  | 3,944.35                       | 178.89 %                    |
| <b>Total Maintenance Contracts</b>          | <b>8,565.81</b>   | <b>8,944.35</b>  | <b>5,000.00</b>   | <b>3,944.35</b>                | <b>178.89 %</b>             |
| <b>Office Supply &amp; Expense</b>          |   |  |   |                                |                             |
| 410901 - Copier Supplies                    | 0.00  | 0.00   | 1,000.00  | (1,000.00)                     | 0.00 %                      |
| 410902 - Office Supplies & Equip            | 501.69  | 830.08   | 5,500.00  | (4,669.92)                     | 15.09 %                     |
| 410903 - Franklin Supplies                  | 0.00  | 0.00   | 500.00  | (500.00)                       | 0.00 %                      |
| 410904 - Letterhead, Envelopes & Forms      | 0.00  | 0.00   | 2,000.00  | (2,000.00)                     | 0.00 %                      |
| 410905 - Reference Books                    | 0.00  | 0.00   | 1,000.00  | (1,000.00)                     | 0.00 %                      |
| 410906 - Office Expense - Other             | 238.50  | 244.88   | 2,500.00  | (2,255.12)                     | 9.80 %                      |
| <b>Total Office Supply &amp; Expense</b>    | <b>740.19</b>   | <b>1,074.96</b>  | <b>12,500.00</b>  | <b>(11,425.04)</b>             | <b>8.60 %</b>               |
| <b>Computer Supply &amp; Expense</b>        |   |  |   |                                |                             |
| 411002 - Computer Consultant                | 400.00  | 800.00   | 6,000.00  | (5,200.00)                     | 13.33 %                     |
| 411003 - Computer Repairs & Parts           | 0.00  | 766.25   | 1,500.00  | (733.75)                       | 51.08 %                     |
| 411004 - Computer Software                  | 407.18  | (963.32)   | 13,500.00   | (14,463.32)                    | (7.14) %                    |
| 411005 - Computer Magazines/Video           | 0.00  | 0.00   | 100.00  | (100.00)                       | 0.00 %                      |
| 411006 - Email                              | 248.40  | 496.80   | 3,000.00  | (2,503.20)                     | 16.56 %                     |
| 411011 - Computers & Equipment              | 0.00  | 2,096.12   | 8,000.00  | (5,903.88)                     | 26.20 %                     |
| 411012 - Website Design & Hosting           | 0.00  | 0.00   | 350.00  | (350.00)                       | 0.00 %                      |
| <b>Total Computer Supply &amp; Expense</b>  | <b>1,055.58</b>   | <b>3,195.85</b>  | <b>32,450.00</b>  | <b>(29,254.15)</b>             | <b>9.85 %</b>               |
| <b>Postage</b>                              |   |  |   |                                |                             |
| 411200 - Postage                            | 85.50   | 112.50   | 6,500.00  | (6,387.50)                     | 1.73 %                      |
| <b>Total Postage</b>                        | <b>85.50</b>  | <b>112.50</b>  | <b>6,500.00</b>   | <b>(6,387.50)</b>              | <b>1.73 %</b>               |
| <b>Professional Services</b>                |   |  |   |                                |                             |
| 411301 - Prof Serv-Accounting               | 6,750.00  | 13,500.00  | 87,900.00   | (74,400.00)                    | 15.36 %                     |
| 411302 - Prof Serv-Annual Audit             | 0.00  | 0.00   | 14,150.00   | (14,150.00)                    | 0.00 %                      |
| 411304 - Prof Serv-Legal - General          | 1,814.00  | 1,814.00   | 12,000.00   | (10,186.00)                    | 15.12 %                     |
| 411305 - Prof Serv-Legal-Other              | 0.00  | 0.00   | 3,000.00  | (3,000.00)                     | 0.00 %                      |
| 411307 - Prof Services-Other                | 0.00  | 0.00   | 3,000.00  | (3,000.00)                     | 0.00 %                      |
| 411311 - Washington Expense                 | 2,100.00  | 4,200.00   | 26,400.00   | (22,200.00)                    | 15.91 %                     |
| <b>Total Professional Services</b>          | <b>10,664.00</b>  | <b>19,514.00</b>   | <b>146,450.00</b>                                       | <b>(126,936.00)</b>            | <b>13.32 %</b>              |
| <b>Rent Expense</b>                         |   |  |   |                                |                             |
| 411400 - Rent Expense                       | 0.00  | 0.00   | 1,700.00  | (1,700.00)                     | 0.00 %                      |
| <b>Total Rent Expense</b>                   | <b>0.00</b>   | <b>0.00</b>  | <b>1,700.00</b>   | <b>(1,700.00)</b>              | <b>0.00 %</b>               |
| <b>Support to Organizations</b>             |   |  |   |                                |                             |
| 411501 - Locally Lead Conservation Groups   | 0.00  | 0.00   | 500.00  | (500.00)                       | 0.00 %                      |
| 411502 - R C & D Organizations              | 0.00  | 0.00   | 500.00  | (500.00)                       | 0.00 %                      |
| <b>Total Support to Organizations</b>       | <b>0.00</b>   | <b>0.00</b>  | <b>1,000.00</b>   | <b>(1,000.00)</b>              | <b>0.00 %</b>               |
| <b>Telephone Expense</b>                    |   |  |   |                                |                             |
| 411601 - Telephone - Cellular               | 968.50  | 2,041.49   | 13,500.00   | (11,458.51)                    | 15.12 %                     |
| 411602 - Local Phone & Internet             | 783.39  | 1,497.65   | 9,000.00  | (7,502.35)                     | 16.64 %                     |
| 411605 - Director iPad Cell Service         | 0.00  | 0.00   | 100.00  | (100.00)                       | 0.00 %                      |
| <b>Total Telephone Expense</b>              | <b>1,751.89</b>   | <b>3,539.14</b>  | <b>22,600.00</b>  | <b>(19,060.86)</b>             | <b>15.66 %</b>              |
| <b>Utilities</b>                            |   |  |   |                                |                             |
| 411700 - Utilities Expense                  | 820.65  | 1,651.85   | 13,000.00   | (11,348.15)                    | 12.71 %                     |
| <b>Total Utilities</b>                      | <b>820.65</b>   | <b>1,651.85</b>  | <b>13,000.00</b>  | <b>(11,348.15)</b>             | <b>12.71 %</b>              |
| <b>Total Administration Expenses</b>        | <b>37,195.05</b>  | <b>62,763.15</b>   | <b>414,351.00</b>                                       | <b>(351,587.85)</b>            | <b>15.15 %</b>              |
| <b>Information &amp; Education Expenses</b> |   |  |   |                                |                             |
| <b>Education</b>                            |   |  |   |                                |                             |
| 420103 - Land & Range Judging Contest       | 0.00  | 0.00   | 1,000.00  | (1,000.00)                     | 0.00 %                      |

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

|   | Month Ending<br>08/31/2023<br><small>MTD Actual</small> | Year To Date<br>08/31/2023<br><small>FYTD Actual</small> | Annual Budget<br>June 30, 2024<br><small>FY2024</small> | \$ Difference<br>Annual Budget | Percentage<br>Annual Budget |
|---|---|--|---|--------------------------------|-----------------------------|
| 420104 - Outdoor Classrooms                         | 67.47   | 67.47  | 2,500.00  | (2,432.53)                     | 2.70 %                      |
| 420106 - Miscellaneous Education Expense            | 0.00  | 0.00   | 500.00  | (500.00)                       | 0.00 %                      |
| 420107 - Water Testing Event                        | 0.00  | 0.00   | 500.00  | (500.00)                       | 0.00 %                      |
| 420108 - Spring Conservation Sensation              | 0.00  | 0.00   | 3,500.00  | (3,500.00)                     | 0.00 %                      |
| 420109 - Education Outreach                         | 227.43  | 390.43   | 3,500.00  | (3,109.57)                     | 11.16 %                     |
| <b>Total Education Information</b>                  | <b>294.90</b>   | <b>457.90</b>  | <b>11,500.00</b>  | <b>(11,042.10)</b>             | <b>3.98 %</b>               |
| 420201 - Annual Report/Viaduct                      | 0.00  | 5,740.52   | 14,000.00   | (8,259.48)                     | 41.00 %                     |
| 420202 - Books And Pamphlets                        | 0.00  | 0.00   | 500.00  | (500.00)                       | 0.00 %                      |
| 420203 - Expositions And Display                    | 0.00  | 250.00   | 2,000.00  | (1,750.00)                     | 12.50 %                     |
| 420205 - Phrography, Cameras, Video                 | 0.00  | 0.00   | 1,500.00  | (1,500.00)                     | 0.00 %                      |
| 420206 - Soil & Water Stewardship Mat.              | 0.00  | 0.00   | 100.00  | (100.00)                       | 0.00 %                      |
| 420208 - Miscellaneous                              | 30.00   | 113.00   | 1,500.00  | (1,387.00)                     | 7.53 %                      |
| 420209 - Ktic Ad                                    | 217.00  | 434.00   | 3,500.00  | (3,066.00)                     | 12.40 %                     |
| 420211 - E-Ads                                      | 140.00  | 280.00   | 1,700.00  | (1,420.00)                     | 16.47 %                     |
| 420212 - TV Promotion                               | 0.00  | 499.00   | 3,500.00  | (3,001.00)                     | 14.26 %                     |
| 420213 - Promotion Videos                           | 0.00  | 0.00   | 3,000.00  | (3,000.00)                     | 0.00 %                      |
| <b>Total Information</b>                            | <b>387.00</b>   | <b>7,316.52</b>  | <b>31,300.00</b>  | <b>(23,983.48)</b>             | <b>23.38 %</b>              |
| <b>Scholarships and Grants</b>                      |   |  |   |                                |                             |
| 420305 - Camp And Workshop Scholarships             | 0.00  | 0.00   | 3,000.00  | (3,000.00)                     | 0.00 %                      |
| 420307 - Shell Crk Watershd Scholarship             | 1,500.00  | 1,500.00   | 3,000.00  | (1,500.00)                     | 50.00 %                     |
| 420309 - Middle/High School Natural Resources Grant | 0.00  | 0.00   | 1,000.00  | (1,000.00)                     | 0.00 %                      |
| <b>Total Scholarships and Grants</b>                | <b>1,500.00</b>   | <b>1,500.00</b>  | <b>7,000.00</b>   | <b>(5,500.00)</b>              | <b>21.43 %</b>              |
| <b>Other</b>  |   |  |   |                                |                             |
| 420401 - Art Supplies                               | 0.00  | 0.00   | 250.00  | (250.00)                       | 0.00 %                      |
| 420402 - Cooperative Projects/Donations             | 0.00  | 0.00   | 500.00  | (500.00)                       | 0.00 %                      |
| 420404 - Promotional Materials                      | 0.00  | 0.00   | 4,000.00  | (4,000.00)                     | 0.00 %                      |
| 420405 - Recognition Banquet & Awards               | 0.00  | 0.00   | 2,000.00  | (2,000.00)                     | 0.00 %                      |
| 420407 - Cooperative Partnerships                   | 0.00  | 0.00   | 1,000.00  | (1,000.00)                     | 0.00 %                      |
| 420409 - N.American Envirothon                      | 0.00  | 0.00   | 1,000.00  | (1,000.00)                     | 0.00 %                      |
| 420410 - Continuing Ed - I&E Dept                   | 0.00  | 0.00   | 500.00  | (500.00)                       | 0.00 %                      |
| <b>Total Other</b>                                  | <b>0.00</b>   | <b>0.00</b>  | <b>9,250.00</b>   | <b>(9,250.00)</b>              | <b>0.00 %</b>               |
| <b>Total Information &amp; Education Expenses</b>   | <b>2,181.90</b>   | <b>9,274.42</b>  | <b>59,050.00</b>  | <b>(49,775.58)</b>             | <b>15.71 %</b>              |
| <b>Operation &amp; Maintenance</b>                  |   |  |   |                                |                             |
| <b>Auto and Truck</b>                               |   |  |   |                                |                             |
| 430101 - Auto & Truck Gas                           | 2,799.50  | 5,240.66   | 25,000.00   | (19,759.34)                    | 20.96 %                     |
| 430102 - Auto & Truck R&M                           | 1,948.43  | 2,648.41   | 7,000.00  | (4,351.59)                     | 37.83 %                     |
| <b>Total Auto and Truck</b>                         | <b>4,747.93</b>   | <b>7,889.07</b>  | <b>32,000.00</b>  | <b>(24,110.93)</b>             | <b>24.65 %</b>              |
| <b>Building Maintenance</b>                         |   |  |   |                                |                             |
| 430201 - Bldg Maintenance                           | 0.00  | 24.54  | 3,500.00  | (3,475.46)                     | 0.70 %                      |
| 430202 - Office Cleaning                            | 495.00  | 935.00   | 6,100.00  | (5,165.00)                     | 15.33 %                     |
| 430203 - Garbage Maintenance                        | 83.44   | 166.88   | 1,200.00  | (1,033.12)                     | 13.91 %                     |
| <b>Total Building Maintenance</b>                   | <b>578.44</b>   | <b>1,126.42</b>  | <b>10,800.00</b>  | <b>(9,673.58)</b>              | <b>10.43 %</b>              |
| <b>Community Forestry Program</b>                   |   |  |   |                                |                             |
| 430300 - Community Forestry                         | 0.00  | 0.00   | 2,000.00  | (2,000.00)                     | 0.00 %                      |
| <b>Total Community Forestry Program</b>             | <b>0.00</b>   | <b>0.00</b>  | <b>2,000.00</b>   | <b>(2,000.00)</b>              | <b>0.00 %</b>               |
| <b>Operation and Maintenance</b>                    |   |  |   |                                |                             |
| 430401 - Czechland & Homestead                      | 1,467.35  | 1,759.13   | 6,000.00  | (4,240.87)                     | 29.32 %                     |
| 430402 - Equipment Upkeep                           | 323.49  | 870.04   | 12,000.00   | (11,129.96)                    | 7.25 %                      |

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

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|--|---|--|---|--------------------------------|-----------------------------|
| 430403 - Operation & Maintenance             | 983.78  | 1,534.99   | 166,000.00  | (164,465.01)                   | 0.92 %                      |
| 430404 - Tree Supplies                       | 0.00  | 0.00   | 250.00  | (250.00)                       | 0.00 %                      |
| 430406 - Wanahoo Park Operation              | 2,149.01  | 3,466.02   | 60,000.00   | (56,533.98)                    | 5.78 %                      |
| 430407 - Monitoring Wanahoo Dam              | 0.00  | 0.00   | 17,000.00   | (17,000.00)                    | 0.00 %                      |
| 430408 - Wanahoo Rec Mgmt                    | 5,134.24  | 11,404.13  | 55,000.00   | (43,595.87)                    | 20.73 %                     |
| 430409 - Lake Wanahoo Education Building     | 543.01  | 1,086.01   | 10,000.00   | (8,913.99)                     | 10.86 %                     |
| <b>Total Operation and Maintenance</b>       | <b>10,600.88</b>  | <b>20,120.32</b>   | <b>326,250.00</b>                                       | <b>(306,129.68)</b>            | <b>6.17 %</b>               |
| <b>Project Repairs</b>                       |   |  |   |                                |                             |
| 430503 - Project Repairs - Other             | 0.00  | 0.00   | 1,000.00  | (1,000.00)                     | 0.00 %                      |
| 430504 - Rawhide Channel Maintenance         | 0.00  | 0.00   | 2,000.00  | (2,000.00)                     | 0.00 %                      |
| <b>Total Project Repairs</b>                 | <b>0.00</b>   | <b>0.00</b>  | <b>3,000.00</b>   | <b>(3,000.00)</b>              | <b>0.00 %</b>               |
| <b>Steam Bank Stabilization</b>              |   |  |   |                                |                             |
| 430601 - Stream Bank - Perennial Streams     | 0.00  | 0.00   | 5,000.00  | (5,000.00)                     | 0.00 %                      |
| 430602 - Stream Bank - Platte/Elkhorn Rivers | 0.00  | 0.00   | 10,000.00   | (10,000.00)                    | 0.00 %                      |
| <b>Total Steam Bank Stabilization</b>        | <b>0.00</b>   | <b>0.00</b>  | <b>15,000.00</b>  | <b>(15,000.00)</b>             | <b>0.00 %</b>               |
| <b>Wildlife Habitat Programs</b>             |   |  |   |                                |                             |
| 430701 - Wild Nebraska                       | 0.00  | 0.00   | 50,000.00   | (50,000.00)                    | 0.00 %                      |
| <b>Total Wildlife Habitat Programs</b>       | <b>0.00</b>   | <b>0.00</b>  | <b>50,000.00</b>  | <b>(50,000.00)</b>             | <b>0.00 %</b>               |
| <b>Other</b>                                 |   |  |   |                                |                             |
| 430801 - NRCS Flags                          | 0.00  | 0.00   | 1,000.00  | (1,000.00)                     | 0.00 %                      |
| 430802 - Stock For Resale - Trees            | 0.00  | 0.00   | 13,000.00   | (13,000.00)                    | 0.00 %                      |
| 430803 - Lower Platte Weed Mgmt Area         | 0.00  | 0.00   | 30,000.00   | (30,000.00)                    | 0.00 %                      |
| 430804 - O&M One-Call Services               | 12.41   | 19.76  | 50.00   | (30.24)                        | 39.52 %                     |
| 430805 - IceJam Monitoring                   | 0.00  | 0.00   | 500.00  | (500.00)                       | 0.00 %                      |
| <b>Total Other</b>                           | <b>12.41</b>  | <b>19.76</b>   | <b>44,550.00</b>  | <b>(44,530.24)</b>             | <b>0.04 %</b>               |
| <b>Total Operation &amp; Maintenance</b>     | <b>15,939.66</b>  | <b>29,155.57</b>   | <b>483,600.00</b>                                       | <b>(454,444.43)</b>            | <b>6.03 %</b>               |
| <b>Personnel Expenses</b>                    |   |  |   |                                |                             |
| <b>Director Expense</b>                      |   |  |   |                                |                             |
| 440101 - Director Meeting Expense            | 725.50  | 1,679.45   | 18,000.00   | (16,320.55)                    | 9.33 %                      |
| 440102 - Director Mileage Expense            | 0.00  | 0.00   | 17,000.00   | (17,000.00)                    | 0.00 %                      |
| 440104 - Computer Stipend                    | 0.00  | 0.00   | 5,700.00  | (5,700.00)                     | 0.00 %                      |
| <b>Total Director Expense</b>                | <b>725.50</b>   | <b>1,679.45</b>  | <b>40,700.00</b>  | <b>(39,020.55)</b>             | <b>4.13 %</b>               |
| <b>Director Per Diem</b>                     |   |  |   |                                |                             |
| 440200 - Director Per Diem                   | 0.00  | 0.00   | 38,000.00   | (38,000.00)                    | 0.00 %                      |
| <b>Total Director Per Diem</b>               | <b>0.00</b>   | <b>0.00</b>  | <b>38,000.00</b>  | <b>(38,000.00)</b>             | <b>0.00 %</b>               |
| <b>Employee Benefits</b>                     |   |  |   |                                |                             |
| 440301 - Dental Insurance                    | 1,681.84  | 3,491.90   | 24,000.00   | (20,508.10)                    | 14.55 %                     |
| 440302 - Health Insurance                    | 31,351.48   | 65,659.15  | 370,000.00  | (304,340.85)                   | 17.75 %                     |
| 440303 - Retirement Benefit - 414H           | 6,122.62  | 8,952.19   | 75,000.00   | (66,047.81)                    | 11.94 %                     |
| 440304 - Retirement Benefit - 457 Plan       | 0.00  | 0.00   | 4,000.00  | (4,000.00)                     | 0.00 %                      |
| 440305 - Tuition Reimbursement               | 0.00  | 0.00   | 3,000.00  | (3,000.00)                     | 0.00 %                      |
| 440306 - Workmans Comp Benefit               | 964.34  | 1,928.68   | 20,000.00   | (18,071.32)                    | 9.64 %                      |
| 440307 - Employee Benefits - Other           | (18.54)   | (64.06)  | 2,500.00  | (2,564.06)                     | (2.56) %                    |
| 440309 - Flexible Spending Fee               | 22.50   | 45.00  | 300.00  | (255.00)                       | 15.00 %                     |
| 440311 - Unemployment Insurance Benefit      | 0.00  | 0.00   | 5,000.00  | (5,000.00)                     | 0.00 %                      |
| 440312 - Accrued Compensated Absences        | 0.00  | 0.00   | 10,000.00   | (10,000.00)                    | 0.00 %                      |
| <b>Total Employee Benefits</b>               | <b>40,124.24</b>  | <b>80,012.86</b>   | <b>513,800.00</b>                                       | <b>(433,787.14)</b>            | <b>15.57 %</b>              |
| <b>Payroll Taxes</b>                         |   |  |   |                                |                             |
| 440401 - FICA - ER                           | 6,819.83  | 9,824.53   | 79,500.00   | (69,675.47)                    | 12.36 %                     |

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

|   | Month Ending<br>08/31/2023<br><small>MTD Actual</small> | Year To Date<br>08/31/2023<br><small>FYTD Actual</small> | Annual Budget<br>June 30, 2024<br><small>FY2024</small> | \$ Difference<br>Annual Budget | Percentage<br>Annual Budget |
|---|---|--|---|--------------------------------|-----------------------------|
| 440402 - Medicare - ER                      | 1,594.93  | 2,297.66   | 18,650.00   | (16,352.34)                    | 12.32 %                     |
| <b>Total Payroll Taxes</b>                  | <b>8,414.76</b>   | <b>12,122.19</b>   | <b>98,150.00</b>  | <b>(86,027.81)</b>             | <b>12.35 %</b>              |
| <b>Personnel Expense</b>                    |   |  |   |                                |                             |
| 440501 - Personnel Meeting Exp              | 423.46  | 3,529.30   | 30,000.00   | (26,470.70)                    | 11.76 %                     |
| 440502 - Personnel Mileage Exp              | 375.32  | 911.00   | 3,500.00  | (2,589.00)                     | 26.03 %                     |
| 440503 - Safety Committee                   | 0.00  | 0.00   | 1,000.00  | (1,000.00)                     | 0.00 %                      |
| 440504 - Personnel Uniform Exp              | 65.00   | 104.98   | 2,500.00  | (2,395.02)                     | 4.20 %                      |
| 440505 - Personnel Exp-Other                | 0.00  | 0.00   | 2,500.00  | (2,500.00)                     | 0.00 %                      |
| <b>Total Personnel Expense</b>              | <b>863.78</b>   | <b>4,545.28</b>  | <b>39,500.00</b>  | <b>(34,954.72)</b>             | <b>11.51 %</b>              |
| <b>Salaries</b>                             |   |  |   |                                |                             |
| 440601 - Salaries - Administration          | 18,822.84   | 28,234.26  | 244,000.00  | (215,765.74)                   | 11.57 %                     |
| 440602 - Salaries - Clerical                | 2,258.04  | 3,387.06   | 29,500.00   | (26,112.94)                    | 11.48 %                     |
| 440603 - Employee Recognition Program       | 0.00  | 0.00   | 1,300.00  | (1,300.00)                     | 0.00 %                      |
| 440604 - Salaries - I & E                   | 8,004.14  | 12,006.21  | 104,054.00  | (92,047.79)                    | 11.54 %                     |
| 440605 - Salaries - Op & Maint              | 15,462.64   | 23,473.12  | 206,500.00  | (183,026.88)                   | 11.37 %                     |
| 440606 - NRCS Support                       | 15,339.16   | 45,311.91  | 216,500.00  | (171,188.09)                   | 20.93 %                     |
| 440607 - Salaries - Projects                | 7,454.20  | 11,181.30  | 97,000.00   | (85,818.70)                    | 11.53 %                     |
| 440608 - Salaries - Water                   | 36,399.32   | 53,790.60  | 342,500.00  | (288,709.40)                   | 15.71 %                     |
| 440611 - Salaries - Rural Water             | 0.00  | 0.00   | 5,000.00  | (5,000.00)                     | 0.00 %                      |
| 440616 - Lake Wanhoo Park Op.               | 13,764.29   | 20,668.90  | 100,000.00  | (79,331.10)                    | 20.67 %                     |
| <b>Total Salaries</b>                       | <b>117,504.63</b>                                       | <b>198,053.36</b>  | <b>1,346,354.00</b>                                     | <b>(1,148,300.64)</b>          | <b>14.71 %</b>              |
| <b>Total Personnel Expenses</b>             | <b>167,632.91</b>                                       | <b>296,413.14</b>  | <b>2,076,504.00</b>                                     | <b>(1,780,090.86)</b>          | <b>14.27 %</b>              |
| <b>Projects Expenses</b>                    |   |  |   |                                |                             |
| <b>Inter-Governmental</b>                   |   |  |   |                                |                             |
| 450110 - Platte Center Bank Stab. Phase LI  | 0.00  | 0.00   | 5,000.00  | (5,000.00)                     | 0.00 %                      |
| 450114 - Trails                             | 0.00  | 0.00   | 15,000.00   | (15,000.00)                    | 0.00 %                      |
| 450115 - Dike & Drainage Assistance         | 0.00  | 0.00   | 5,000.00  | (5,000.00)                     | 0.00 %                      |
| 450119 - JWMAB Dodge Co                     | 0.00  | 20,210.00  | 186,500.00  | (166,290.00)                   | 10.84 %                     |
| 450123 - Hazard Mitigation Update           | 0.00  | 0.00   | 75,000.00   | (75,000.00)                    | 0.00 %                      |
| <b>Total Inter-Governmental</b>             | <b>0.00</b>   | <b>20,210.00</b>   | <b>286,500.00</b>                                       | <b>(266,290.00)</b>            | <b>7.05 %</b>               |
| <b>Special Projects</b>                     |   |  |   |                                |                             |
| 450305 - Special Projects-Other             | 0.00  | 0.00   | 31,500.00   | (31,500.00)                    | 0.00 %                      |
| 450309 - SA No-Till Conf/Shell Creek        | 0.00  | 0.00   | 1,000.00  | (1,000.00)                     | 0.00 %                      |
| <b>Total Special Projects</b>               | <b>0.00</b>   | <b>0.00</b>  | <b>32,500.00</b>  | <b>(32,500.00)</b>             | <b>0.00 %</b>               |
| <b>Wanhoo</b>                               |   |  |   |                                |                             |
| 450506 - Lake Level Mgmt Plan               | 0.00  | 0.00   | 50,000.00   | (50,000.00)                    | 0.00 %                      |
| 450509 - Wanhoo - Other                     | 0.00  | 0.00   | 5,000.00  | (5,000.00)                     | 0.00 %                      |
| <b>Total Wanhoo</b>                         | <b>0.00</b>   | <b>0.00</b>  | <b>55,000.00</b>  | <b>(55,000.00)</b>             | <b>0.00 %</b>               |
| <b>Other Projects</b>                       |   |  |   |                                |                             |
| 450705 - Schuyler 205                       | 0.00  | 0.00   | 13,000.00   | (13,000.00)                    | 0.00 %                      |
| 450711 - Bailey Levee                       | 0.00  | 0.00   | 58,200.00   | (58,200.00)                    | 0.00 %                      |
| <b>Total Other Projects</b>                 | <b>0.00</b>   | <b>0.00</b>  | <b>71,200.00</b>  | <b>(71,200.00)</b>             | <b>0.00 %</b>               |
| <b>Platte River Corridor Alliance</b>       |   |  |   |                                |                             |
| 411101 - PRCA - Administration              | 0.00  | 0.00   | 1,000.00  | (1,000.00)                     | 0.00 %                      |
| 411129 - USGS Monitoring at Leshara         | 0.00  | 0.00   | 5,320.00  | (5,320.00)                     | 0.00 %                      |
| <b>Total Platte River Corridor Alliance</b> | <b>0.00</b>   | <b>0.00</b>  | <b>6,320.00</b>   | <b>(6,320.00)</b>              | <b>0.00 %</b>               |
| <b>Total Projects Expenses</b>              | <b>0.00</b>   | <b>20,210.00</b>   | <b>451,520.00</b>                                       | <b>(431,310.00)</b>            | <b>4.48 %</b>               |
| <b>Water Expenses</b>                       |   |  |   |                                |                             |
| <b>Groundwater Management Plan</b>          |   |  |   |                                |                             |

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

|   | Month Ending<br>08/31/2023 | Year To Date<br>08/31/2023 | Annual Budget<br>June 30, 2024 | \$ Difference<br>Annual Budget | Percentage<br>Annual Budget |
|---|----------------------------|----------------------------|--------------------------------|--------------------------------|-----------------------------|
|   | MTD Actual                 | FYTD Actual                | FY2024                         |                                |                             |
| 460101 - GWMP - Cost - Share              | 1,601.00                   | 2,785.00                   | 15,000.00                      | (12,215.00)                    | 18.57 %                     |
| 460102 - GWMP - Information & Education   | 0.00                       | 0.00                       | 1,000.00                       | (1,000.00)                     | 0.00 %                      |
| 460103 - GWMP - Nitrogen Classes          | 1,730.00                   | 1,730.00                   | 3,000.00                       | (1,270.00)                     | 57.67 %                     |
| 460104 - GWMP - Permits                   | 0.00                       | 0.00                       | 100.00                         | (100.00)                       | 0.00 %                      |
| 460110 - Basin Wide Water Plan            | 1,666.65                   | 1,666.65                   | 10,000.00                      | (8,333.35)                     | 16.67 %                     |
| 460111 - Flow Meter Maintenance           | 80.00                      | 80.00                      | 24,000.00                      | (23,920.00)                    | 0.33 %                      |
| <b>Total Groundwater Management Plan</b>  | <b>5,077.65</b>            | <b>6,261.65</b>            | <b>53,100.00</b>               | <b>(46,838.35)</b>             | <b>11.79 %</b>              |
| <b>Groundwater Programs</b>               |                            |                            |                                |                                |                             |
| 460201 - Decommissioned Wells             | 4,462.43                   | 4,462.43                   | 19,000.00                      | (14,537.57)                    | 23.49 %                     |
| 460203 - GW Levels                        | 0.00                       | 0.00                       | 1,000.00                       | (1,000.00)                     | 0.00 %                      |
| 460204 - GW Quality Program               | 1,563.00                   | 4,224.21                   | 15,000.00                      | (10,775.79)                    | 28.16 %                     |
| 460205 - Mead - NOP                       | 0.00                       | 0.00                       | 100.00                         | (100.00)                       | 0.00 %                      |
| 460206 - Monitoring Wells                 | 1,314.58                   | 2,149.09                   | 25,000.00                      | (22,850.91)                    | 8.60 %                      |
| 460209 - Groundwater Programs Other       | 0.00                       | 0.00                       | 3,000.00                       | (3,000.00)                     | 0.00 %                      |
| 460212 - GW Monitoring Equip SQS#2        | 0.00                       | 0.00                       | 250.00                         | (250.00)                       | 0.00 %                      |
| 460213 - GW Memberships and Subscriptions | 657.50                     | 1,315.00                   | 8,400.00                       | (7,085.00)                     | 15.65 %                     |
| <b>Total Groundwater Programs</b>         | <b>7,997.51</b>            | <b>12,150.73</b>           | <b>71,750.00</b>               | <b>(59,599.27)</b>             | <b>16.93 %</b>              |
| <b>Regulatory</b>                         |                            |                            |                                |                                |                             |
| 460301 - Chemigation                      | 0.00                       | 293.08                     | 1,000.00                       | (706.92)                       | 29.31 %                     |
| 460302 - Irrigation Runoff                | 0.00                       | 0.00                       | 750.00                         | (750.00)                       | 0.00 %                      |
| <b>Total Regulatory</b>                   | <b>0.00</b>                | <b>293.08</b>              | <b>1,750.00</b>                | <b>(1,456.92)</b>              | <b>16.75 %</b>              |
| <b>Surface Water Programs</b>             |                            |                            |                                |                                |                             |
| 460403 - Stream Flow                      | 18,190.00                  | 18,190.00                  | 17,800.00                      | 390.00                         | 102.19 %                    |
| <b>Total Surface Water Programs</b>       | <b>18,190.00</b>           | <b>18,190.00</b>           | <b>17,800.00</b>               | <b>390.00</b>                  | <b>102.19 %</b>             |
| <b>Special Projects</b>                   |                            |                            |                                |                                |                             |
| 460503 - Special Projects - Other         | 0.00                       | 0.00                       | 5,000.00                       | (5,000.00)                     | 0.00 %                      |
| 460504 - ENWRA                            | 2,500.00                   | 5,000.00                   | 32,000.00                      | (27,000.00)                    | 15.63 %                     |
| 460519 - Hydrological Study               | 5,301.25                   | 10,570.00                  | 290,000.00                     | (279,430.00)                   | 3.64 %                      |
| 460520 - NET Grant                        | 0.00                       | 0.00                       | 70,000.00                      | (70,000.00)                    | 0.00 %                      |
| 460521 - Lower Platte Consortium          | 0.00                       | 0.00                       | 250.00                         | (250.00)                       | 0.00 %                      |
| <b>Total Special Projects</b>             | <b>7,801.25</b>            | <b>15,570.00</b>           | <b>397,250.00</b>              | <b>(381,680.00)</b>            | <b>3.92 %</b>               |
| <b>Land Treatment</b>                     |                            |                            |                                |                                |                             |
| 450201 - Ne Buffer Strip                  | 0.00                       | 0.00                       | 51,000.00                      | (51,000.00)                    | 0.00 %                      |
| 450204 - Shell Creek                      | 792.00                     | 792.00                     | 20,000.00                      | (19,208.00)                    | 3.96 %                      |
| 450206 - Emergency Terrace Repair         | 0.00                       | 0.00                       | 5,000.00                       | (5,000.00)                     | 0.00 %                      |
| 450207 - Nswcp Supplement                 | 0.00                       | 0.00                       | 25,000.00                      | (25,000.00)                    | 0.00 %                      |
| 450211 - Trees                            | 0.00                       | 0.00                       | 3,000.00                       | (3,000.00)                     | 0.00 %                      |
| 450802 - Wahoo Creek Watershed Plan-319   | 0.00                       | 0.00                       | 30,000.00                      | (30,000.00)                    | 0.00 %                      |
| 450803 - Shell Creek Watershed Plan 319   | 2,807.36                   | 4,798.89                   | 120,000.00                     | (115,201.11)                   | 4.00 %                      |
| 450805 - Shell Creek Phase I (New)        | 0.00                       | 0.00                       | 100,000.00                     | (100,000.00)                   | 0.00 %                      |
| 450807 - Wahoo Creek Phase II             | 0.00                       | 0.00                       | 20,000.00                      | (20,000.00)                    | 0.00 %                      |
| 450809 - Sand Creek Dams-Conservation     | 0.00                       | 0.00                       | 50,000.00                      | (50,000.00)                    | 0.00 %                      |
| <b>Total Land Treatment</b>               | <b>3,599.36</b>            | <b>5,590.89</b>            | <b>424,000.00</b>              | <b>(418,409.11)</b>            | <b>1.32 %</b>               |
| <b>Total Water Expenses</b>               | <b>42,665.77</b>           | <b>58,056.35</b>           | <b>965,650.00</b>              | <b>(907,593.65)</b>            | <b>6.01 %</b>               |
| <b>Total Expenses</b>                     | <b>265,615.29</b>          | <b>475,872.63</b>          | <b>4,450,675.00</b>            | <b>(3,974,802.37)</b>          | <b>10.69 %</b>              |
| <b>Total Change in Net Position</b>       | <b>(80,500.80)</b>         | <b>(144,211.51)</b>        | <b>4,890,933.00</b>            | <b>(5,035,144.51)</b>          | <b>(2.95) %</b>             |

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

|  | Month Ending<br>08/31/2023<br><small>MTD Actual</small> | Year To Date<br>08/31/2023<br><small>FYTD Actual</small> | Annual Budget<br>June 30, 2024<br><small>FY2024</small> | \$ Difference<br>Annual Budget | Percentage<br>Annual Budget |
|--|---|--|---|--------------------------------|-----------------------------|
| <b>Change in Net Position</b>              |   |  |   |                                |                             |
| <b>Rural Water Income</b>                  |   |  |   |                                |                             |
| 304240 - Water Sales                       | 6,689.75  | 10,473.25  | 44,000.00   | (33,526.75)                    | 23.80 %                     |
| 304261 - Other Revenue                     | 7.43  | 10.53  | 2,000.00  | (1,989.47)                     | 0.53 %                      |
| <b>Total Rural Water Income</b>            | <b>6,697.18</b>   | <b>10,483.78</b>   | <b>46,000.00</b>  | <b>(35,516.22)</b>             | <b>22.79 %</b>              |
| <b>Rural Water District Expenses</b>       |   |  |   |                                |                             |
| 570201 - Water Purchase                    | 3,553.94  | 5,842.39   | 16,000.00   | (10,157.61)                    | 36.51 %                     |
| 570204 - Testing                           | 15.00   | 30.00  | 600.00  | (570.00)                       | 5.00 %                      |
| 570206 - Repair                            | 0.00  | 0.00   | 1,000.00  | (1,000.00)                     | 0.00 %                      |
| 570207 - Other Expenses                    | 0.00  | 0.00   | 680.00  | (680.00)                       | 0.00 %                      |
| 570208 - Lpnrnd Adm. Fee                   | 334.49  | 523.67   | 2,200.00  | (1,676.33)                     | 23.80 %                     |
| 570210 - Health/Life/Vision/LTD - ER       | 202.16  | 417.55   | 2,600.00  | (2,182.45)                     | 16.06 %                     |
| 570211 - Dental - ER                       | 21.72   | 45.58  | 300.00  | (254.42)                       | 15.19 %                     |
| 570212 - 414H ER Contributions             | 56.00   | 115.64   | 800.00  | (684.36)                       | 14.46 %                     |
| 570215 - ER Social Security Tax            | 70.58   | 125.05   | 1,080.00  | (954.95)                       | 11.58 %                     |
| 570216 - ER Medicare Tax                   | 16.50   | 29.24  | 260.00  | (230.76)                       | 11.25 %                     |
| 570217 - Salaries                          | 728.43  | 887.62   | 10,000.00   | (9,112.38)                     | 8.88 %                      |
| 570219 - Fees And Licenses                 | 17.13   | 34.26  | 640.00  | (605.74)                       | 5.35 %                      |
| 570220 - Rural Water One-Call              | 2.66  | 3.58   | 50.00   | (46.42)                        | 7.16 %                      |
| 570221 - Rural Water Hand Tools & Supplies | 5.78  | 5.78   | 200.00  | (194.22)                       | 2.89 %                      |
| 570222 - RW Dues And Memberships           | 0.00  | 0.00   | 80.00   | (80.00)                        | 0.00 %                      |
| 570223 - Rural Water Gasoline              | 30.26   | 150.74   | 800.00  | (649.26)                       | 18.84 %                     |
| 570224 - Rural Water Personnel Meeting     | 0.00  | 0.00   | 400.00  | (400.00)                       | 0.00 %                      |
| 570230 - Rural Water Equipment Rental      | 0.00  | 0.00   | 1,000.00  | (1,000.00)                     | 0.00 %                      |
| 570231 - Rural Water Equipment Upkeep      | 0.00  | 188.04   | 1,000.00  | (811.96)                       | 18.80 %                     |
| 570232 - Rural Water Compensated Absences  | 0.00  | 0.00   | 400.00  | (400.00)                       | 0.00 %                      |
| <b>Total Rural Water District Expenses</b> | <b>5,054.65</b>   | <b>8,399.14</b>  | <b>40,090.00</b>  | <b>(31,690.86)</b>             | <b>20.95 %</b>              |
| <b>Total Change in Net Position</b>        | <b>1,642.53</b>   | <b>2,084.64</b>  | <b>5,910.00</b>   | <b>(3,825.36)</b>              | <b>35.27 %</b>              |

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

|  | Month Ending<br>08/31/2023<br><small>MTD Actual</small> | Year To Date<br>08/31/2023<br><small>FYTD Actual</small> | Annual Budget<br>June 30, 2024<br><small>FY2024</small> | \$ Difference<br>Annual Budget | Percentage<br>Annual Budget |
|--|---|--|---|--------------------------------|-----------------------------|
| <b>Change in Net Position</b>              |   |  |   |                                |                             |
| <b>Rural Water Income</b>                  |   |  |   |                                |                             |
| 304240 - Water Sales                       | 5,028.70  | 9,797.46   | 66,000.00   | (56,202.54)                    | 14.84 %                     |
| 304275 - Colon Hook Up Fees                | 0.00  | 0.00   | 3,000.00  | (3,000.00)                     | 0.00 %                      |
| 304295 - Colon Sewer Fees                  | 2,457.00  | 4,914.00   | 30,000.00   | (25,086.00)                    | 16.38 %                     |
| 304261 - Other Revenue                     | 112.42  | 305.98   | 3,000.00  | (2,694.02)                     | 10.20 %                     |
| <b>Total Rural Water Income</b>            | <b>7,598.12</b>   | <b>15,017.44</b>   | <b>102,000.00</b>                                       | <b>(86,982.56)</b>             | <b>14.72 %</b>              |
| <b>Investment Income</b>                   |   |  |   |                                |                             |
| 304350 - Colon RW Interest - NPAIT         | 39.95   | 78.55  | 320.00  | (241.45)                       | 24.55 %                     |
| <b>Total Investment Income</b>             | <b>39.95</b>  | <b>78.55</b>   | <b>320.00</b>   | <b>(241.45)</b>                | <b>24.55 %</b>              |
| <b>Rural Water District Expenses</b>       |   |  |   |                                |                             |
| 570201 - Water Purchase                    | 1,029.88  | 2,360.07   | 24,000.00   | (21,639.93)                    | 9.83 %                      |
| 570204 - Testing                           | 15.00   | 30.00  | 900.00  | (870.00)                       | 3.33 %                      |
| 570206 - Repair                            | 11.77   | 11.77  | 3,000.00  | (2,988.23)                     | 0.39 %                      |
| 570207 - Other Expenses                    | 55.00   | 55.00  | 1,020.00  | (965.00)                       | 5.39 %                      |
| 570208 - Lpnrnd Adm. Fee                   | 251.44  | 489.88   | 3,300.00  | (2,810.12)                     | 14.84 %                     |
| 570210 - Health/Life/Vision/LTD - ER       | 303.23  | 626.31   | 3,900.00  | (3,273.69)                     | 16.06 %                     |
| 570211 - Dental - ER                       | 32.59   | 68.38  | 450.00  | (381.62)                       | 15.20 %                     |
| 570212 - 414H ER Contributions             | 84.01   | 173.47   | 1,200.00  | (1,026.53)                     | 14.46 %                     |
| 570215 - ER Social Security Tax            | 99.84   | 180.37   | 1,620.00  | (1,439.63)                     | 11.13 %                     |
| 570216 - ER Medicare Tax                   | 23.35   | 42.18  | 390.00  | (347.82)                       | 10.82 %                     |
| 570217 - Salaries                          | 1,189.76  | 1,447.15   | 15,000.00   | (13,552.85)                    | 9.65 %                      |
| 570219 - Fees And Licenses                 | 25.68   | 51.36  | 960.00  | (908.64)                       | 5.35 %                      |
| 570220 - Rural Water One-Call              | 4.43  | 10.86  | 75.00   | (64.14)                        | 14.48 %                     |
| 570221 - Rural Water Hand Tools & Supplies | 28.98   | 28.98  | 300.00  | (271.02)                       | 9.66 %                      |
| 570222 - RW Dues And Memberships           | 0.00  | 0.00   | 120.00  | (120.00)                       | 0.00 %                      |
| 570223 - Rural Water Gasoline              | 30.26   | 66.11  | 1,200.00  | (1,133.89)                     | 5.51 %                      |
| 570224 - Rural Water Personnel Meeting     | 0.00  | 0.00   | 600.00  | (600.00)                       | 0.00 %                      |
| 570230 - Rural Water Equipment Rental      | 0.00  | 0.00   | 1,500.00  | (1,500.00)                     | 0.00 %                      |
| 570231 - Rural Water Equipment Upkeep      | 0.00  | 282.07   | 1,500.00  | (1,217.93)                     | 18.80 %                     |
| 570232 - Rural Water Compensated Absences  | 0.00  | 0.00   | 600.00  | (600.00)                       | 0.00 %                      |
| 570305 - Colon - Annual Bond Payment       | 0.00  | 0.00   | 3,355.00  | (3,355.00)                     | 0.00 %                      |
| 570308 - Colon Meter House Expense         | 83.72   | 165.20   | 1,250.00  | (1,084.80)                     | 13.22 %                     |
| 570309 - Colon Sewer Collections           | 2,457.00  | 4,914.00   | 30,000.00   | (25,086.00)                    | 16.38 %                     |
| 570330 - Colon RW Bad Debt Expense         | 0.00  | 0.00   | 1,000.00  | (1,000.00)                     | 0.00 %                      |
| <b>Total Rural Water District Expenses</b> | <b>5,725.94</b>   | <b>11,003.16</b>   | <b>97,240.00</b>  | <b>(86,236.84)</b>             | <b>11.32 %</b>              |
| <b>Total Change in Net Position</b>        | <b>1,912.13</b>   | <b>4,092.83</b>  | <b>5,080.00</b>   | <b>(987.17)</b>                | <b>80.57 %</b>              |

**Lower Platte North NRD**

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

|  | <u>Year To Date</u><br><u>8/31/2023</u><br><i>Actual</i> | <u>Year Ending</u><br><u>6/30/2024</u><br><i>Budget</i> | <u>\$ Difference</u><br><u>Annual Budget</u> | <u>Percentage</u><br><u>Annual Budget</u> |
|--|--|---|--|---|
| <b>Capital Improvements - Real Property</b>  |  |   |  |   |
| Wahoo Creek Design RCPP (Olsson-WFPO/JEDI Const & Land Right:                                  | 8,090.36   | 2,000,000.00  | (1,991,909.64)                               | 0.00%                                     |
| Wahoo Creek Planning - FYRA - Watershed Plan   | 0.00   | 0.00  | 0.00   | 0.00%                                     |
| Wahoo Creek 7 Additional Dams  | 108,843.97   | 123,900.00  | (15,056.03)                                  | 0.00%                                     |
| Office Remodel/New Office Drawings   | 48,169.60  | 500,000.00  | (451,830.40)                                 | 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%                                   |
| <b>Total Capital Improvements - Real Property</b>  | <b>165,103.93</b>  | <b>3,633,900.00</b>                                     | <b>(3,468,796.07)</b>                        | <b>4.54%</b>                              |
| <b>Capital Outlay</b>  |  |   |  |   |
| 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)  | 9,372.00   | 11,000.00   | (1,628.00)                                   | 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)  | 5,524.05   | 95,000.00   | (89,475.95)                                  | 0.00%                                     |
| Other Capital Outlay - Equipment   | 0.00   | 0.00  | 0.00   | 0.00%                                     |
| <b>Total Capital Outlay</b>  | <b>24,646.05</b>   | <b>538,700.00</b>                                       | <b>(514,053.95)</b>                          | <b>0.00%</b>                              |
| <b>Debt Service Payments</b>   |  |   |  |   |
| Colon RW Note  | 0.00   | 3,355.00  | (3,355.00)                                   | 0.00%                                     |
| <b>Total Debt Service Payments</b>   | <b>0.00</b>  | <b>3,355.00</b>   | <b>(3,355.00)</b>                            | <b>0.00%</b>                              |
| <b>Grand Total All Expenses w/o Depreciation</b>   | <b>685,024.91</b>  | <b>8,763,960.00</b>                                     | <b>(8,078,935.09)</b>                        | <b>7.82%</b>                              |

Preliminary

**Week #1**

**Lower Platte North NRD Time Sheet**

Name Eric Gottschalk

Period Covered 8/26/23 to 9/1/23

*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                   | 8/26 |                               |                               |            |             |   |       |        |            |
| Sun                   | 8/27 |                               |                               |            |             |   |       |        |            |
| Mon                   | 8/28 | 7:30 am<br>1:30 pm            | 12:45 pm<br>3:45 pm           | 7.50       |             | Leadership Team,<br>District planning,<br>Time sheets<br>Wanahoo deposits & envelopes   |       |        |            |
| Tues                  | 8/29 | 7:45 am<br>1:45 pm<br>6:00 pm | 1:00 pm<br>3:45 pm<br>8:30 pm | 9.75       |             | Saunders County Supervisors,<br>Wahoo Creek,<br>Committee prep<br>Levy prep             |       |        |            |
| Wed                   | 8/30 | 7:45 am<br>5:30 pm            | 1:00 pm<br>8:30 pm            | 8.25       |             | Wahoo Creek, NRCS discussions,<br>District mgt.<br>Water Committee                      |       |        |            |
| Thurs                 | 8/31 | 7:15 am<br>1:15 pm            | 12:30 pm<br>3:00 pm           | 7.00       |             | Projects Committee,<br>Operations Committee, Exec. Committee,<br>Follow-up<br>Personnel |       |        |            |
| Fri                   | 9/1  | 7:45 am<br>1:30 pm            | 12:45 pm<br>3:45 pm           | 7.25       |             | Wanahoo Deposits,<br>Committee follow-up<br>District mgt.                               |       |        |            |
| <b>Week #1 Totals</b> |      |                               |                               | 39.75      | 0           |   | 0     | \$0.00 | \$0.00     |

Supervisor \_\_\_\_\_  
 Manager *E. Gottschalk*  
 Assistant Manager \_\_\_\_\_  
 Treasurer \_\_\_\_\_

Date \_\_\_\_\_  
 Date 9/12/23  
 Date \_\_\_\_\_  
 Date \_\_\_\_\_

**Expenses**

|                 |                |
|-----------------|----------------|
| Mileage x 0.655 | \$ 0.00        |
| Meals           | \$0.00         |
| Other Exp.      | \$0.00         |
| <b>Total</b>    | <b>\$ 0.00</b> |

I CERTIFY THAT THE ABOVE INFORMATION IS CORRECT

*E. Gottschalk*  
 Signature of person filing form

9/12/23  
 Date

**Week #2**

**Lower Platte North NRD Time Sheet**

Name Eric Gottschalk

Period Covered 9/2/23 to 9/8/23

*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                    | 9/2  |                    |                     |            |             |  |       |        |            |
| Sun                    | 9/3  |                    |                     |            |             |  |       |        |            |
| Mon                    | 9/4  |                    |                     |            | 8.00        | Labor Day  |       |        |            |
| Tues                   | 9/5  | 7:45 am<br>1:00 pm | 12:15 pm<br>3:45 pm | 7.25       |             | District planning,<br>Wanahoo budget,<br>JEO - new office discussion   |       |        |            |
| Wed                    | 9/6  | 7:30 am<br>1:30 pm | 12:45 pm<br>4:00 pm | 7.75       |             | NRCS - Wahoo Creek<br>mail/e-mails<br>District mgt<br>Personnel  |       |        |            |
| Thurs                  | 9/7  | 7:30 am<br>1:15 pm | 12:45 pm<br>4:00 pm | 8.00       |             | Prep for Wanahoo Cross Country meet,<br>State Budget prep,<br>Easement discussion - New Wahoo sewer line<br>Personnel - O&M position |       |        |            |
| Fri                    | 9/8  | 7:45 am            | 3:00 pm             | 7.25       | 2.00        | Board meeting prep,<br>mail,<br>Wanahoo deposits/envelopes<br>2 - A.L.   |       |        |            |
| <b>Week #2 Totals</b>  |      |                    |                     | 30.25      | 10          |  | 0     | \$0.00 | \$0.00     |
| <b>Totals Week #1</b>  |      |                    |                     | 39.75      | 0           |  | 0     | \$0.00 | \$0.00     |
| <b>Two Week Totals</b> |      |                    |                     | 70         | 10          |  | 0     | \$0.00 | \$0.00     |

**Annual Leave & Sick Leave**

|                     | Previous Balance | Earned This Pay Period | Used This Pay Period | New Balance   |
|---------------------|------------------|------------------------|----------------------|---------------|
| <b>Annual Leave</b> | 204.00           | 8.00                   | 2.00                 | <b>210.00</b> |
| <b>Sick Leave</b>   | 784.00           | 4.00                   | 0.00                 | <b>788.00</b> |

**RESET FORM**

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

| #       | Program Areas              | Hours |
|---------|----------------------------|-------|
| 11      | Administration             | 29.50 |
| 14      | District Management        | 35.50 |
| 15      | Personnel                  | 5.00  |
| 31      | I&E Administration         |       |
| 41      | O&M Administration         |       |
| 51      | Projects Administration    |       |
| 61      | Water Administration       |       |
| 71      | Rural Water Administration |       |
| 52      | Conservation Program       |       |
|         |                            |       |
| Holiday |                            | 8.00  |
| 1       | Annual Leave               | 2.00  |
| 2       | Sick Leave                 |       |
| Other   |                            |       |

**Total: 80**

**Week #1**

**Lower Platte North NRD Time Sheet**


Name Eric Gottschalk

Period Covered 9/9/23 to 9/15/23

*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                   | 9/9  |                               |                                |            |             |  |       |        |            |
| Sun                   | 9/10 |                               |                                |            |             |  |       |        |            |
| Mon                   | 9/11 | 7:30 am<br>1:30 pm            | 12:45 pm<br>9:00 pm            | 12.75      |             | Leadership team meeting,<br>Wahoo Creek permitting meeting<br>NRCS - Wahoo Creek             |       |        |            |
| Tues                  | 9/12 | 8:00 am<br>2:00 pm            | 12:15 pm<br>4:00 pm            | 6.25       |             | Staff meeting,<br>NRCS - Allen/Tom Wahoo Creek schedule,<br>Time sheets,                     |       |        |            |
| Wed                   | 9/13 | 7:45 am<br>1:15 pm<br>6:00 pm | 12:15 pm<br>4:00 pm<br>6:30 pm | 7.75       |             | District mgt, City Hall,<br>Easements for Wanahoo property,<br>Mail, Personnel, Metos issues |       |        |            |
| Thurs                 | 9/14 | 7:45 am<br>2:00 pm            | 12:30 pm<br>4:30 pm            | 7.25       |             | NRCS calls - Wahoo Creek,<br>Cottonwood 21A,<br>Personnel, Metos issues                      |       |        |            |
| Fri                   | 9/15 | 8:00 am<br>1:45 pm            | 12:45 pm<br>3:45 pm            | 6.75       |             | Wanahoo envelopes & deposits,<br>District Mgt.<br>Personnel                                  |       |        |            |
| <b>Week #1 Totals</b> |      |                               |                                | 40.75      | 0           |  | 0     | \$0.00 | \$0.00     |

Supervisor Manager Assistant Manager \_\_\_\_\_ Treasurer \_\_\_\_\_  
 \_\_\_\_\_  
 Date 9/27/23 Date \_\_\_\_\_ Date \_\_\_\_\_

I CERTIFY THAT THE ABOVE INFORMATION IS CORRECT  
  
 Signature of person filing form 9/26/23  
 Date

**Expenses**

|                 |                |
|-----------------|----------------|
| Mileage x 0.655 | \$ 0.00        |
| Meals           | \$0.00         |
| Other Exp.      | \$0.00         |
| <b>Total</b>    | <b>\$ 0.00</b> |

**Week #2**

**Lower Platte North NRD Time Sheet**

Name Eric Gottschalk

Period Covered 9/16/23 to 9/22/23

*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                    | 9/16 |                               |                                |            |             |  |       |        |            |
| Sun                    | 9/17 |                               |                                |            |             |  |       |        |            |
| Mon                    | 9/18 | 7:30 am<br>1:45 pm            | 12:45 pm<br>4:30 pm            | 8.00       |             | Leadership Team,<br>Wanahoo envelopes,<br>Metos issues                 |       |        |            |
| Tues                   | 9/19 | 7:45 am<br>1:30 pm<br>5:30 pm | 12:30 pm<br>4:00 pm<br>6:15 pm | 8.00       |             | Metos issues,<br>Personnel,<br>District mgt.                           |       |        |            |
| Wed                    | 9/20 | 7:45 am<br>1:45 pm<br>6:00 pm | 12:45 pm<br>4:00 pm<br>7:00 pm | 8.25       |             | JEO - geotech<br>District planning & mgt<br>Wanahoo education building |       |        |            |
| Thurs                  | 9/21 | 7:30 am<br>2:00 pm            | 1:15 pm<br>4:00 pm             | 7.75       |             | Wahoo Creek watershed<br>City of Wahoo easement meeting<br>mail,       |       |        |            |
| Fri                    | 9/22 | 7:45 am<br>2:00 pm            | 12:30 pm<br>4:30 pm            | 7.25       |             | Committee prep, conference prep,<br>Personnel,<br>District mgt         |       |        |            |
| <b>Week #2 Totals</b>  |      |                               |                                | 39.25      | 0           |  | 0     | \$0.00 | \$0.00     |
| <b>Totals Week #1</b>  |      |                               |                                | 40.75      | 0           |  | 0     | \$0.00 | \$0.00     |
| <b>Two Week Totals</b> |      |                               |                                | 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 | 210.00           | 8.00                   | 0.00                 | 218.00      |
| Sick Leave   | 788.00           | 4.00                   | 0.00                 | 792.00      |

792

794

**RESET FORM**

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

| #       | Program Areas              | Hours |
|---------|----------------------------|-------|
| 11      | Administration             | 29.50 |
| 14      | District Management        | 36.50 |
| 15      | Personnel                  | 10.00 |
| 31      | I&E Administration         |       |
| 41      | O&M Administration         |       |
| 51      | Projects Administration    | 4.00  |
| 61      | Water Administration       |       |
| 71      | Rural Water Administration |       |
| 52      | Conservation Program       |       |
|         |                            |       |
| Holiday |                            |       |
| 1       | Annual Leave               |       |
| 2       | Sick Leave                 |       |
| Other   |                            |       |

**Total: 80**

Lower Platte North Natural Resources District  
Accounts Receivable Aging Summary as of 8/31/23

**Accounts Receivable acct 105000**

| Customer                             | Invoice/Purpose  | Current          | 0-30 Days        | 31-60 Days        | 61 and Over         | Totals              |
|--------------------------------------|--|------------------|------------------|-------------------|---------------------|---------------------|
| Bruno/David City RW Customers        | Multiple   | 8743.86          | 0.00             | 0.00              | 0.00                | 8,743.86            |
| Colon RW Customers                   | Multiple   | 8227.50          | 0.00             | 0.00              | 0.00                | 8,227.50            |
| DEE 319 Funds                        | Bill Bos Payroll   | 1,808.52         | 1,991.53         | 0.00              | 0.00                | 3,800.05            |
| 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              | 0.00                | 0.00                |
|                                      | Olsson - Wahoo Creek WS Plan - 3 Dam Sites   | 0.00             | 0.00             | 0.00              | 0.00                | 0.00                |
|                                      | Hydrological Study - Baumert-Oehrich   | 1,200.00         | 0.00             | 600.00            | 0.00                | 1,800.00            |
| FEMA                                 | FYRA - Lake Wanhoo 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 - Wanhoo Stilling Basin Rehab                                     | 0.00             | 0.00             | 0.00              | 13,923.75           | 13,923.75           |
|                                      | ME Collins - Wanhoo 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             | 0.00              | 95,136.79           | 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             | 0.00              | 23,146.84           | 23,146.84           |
|                                      | UBT Visa - 428 Funds (captial outlay small items)                                    | 0.00             | 0.00             | 0.00              | 1,037.83            | 1,037.83            |
| Flow Meter Maintenance Reimbursement | Tri City Meters  | 0.00             | 0.00             | 0.00              | 1,656.00            | 1,656.00            |
| JEDI                                 | Olsson - Wahoo Creek WS & 7 Dam Sites Phase II                                       | 16,793.16        | 10,684.06        | 10,367.49         | 0.00                | 37,844.71           |
|                                      | Olsson - Wahoo Creek WS - 3 Dam Sites  | 0.00             | 2,959.26         | 3,552.42          | 0.00                | 6,511.68            |
|                                      | Olsson - Wahoo Creek WS Planning - Prof Svc  | 0.00             | 0.00             | 0.00              | 0.00                | 0.00                |
|                                      | Olsson - Wahoo Creek Real Estate Services  | 4,671.32         | 459.78           | 2,241.43          | 0.00                | 7,372.53            |
|                                      | Houston Engineering - Wahoo Creek WS Planning  | 0.00             | 0.00             | 0.00              | 2,358.75            | 2,358.75            |
| JWMAB                                | Dodge Co - Fremont - PMRNRD  | 0.00             | 15,157.50        | 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/Aug-998.84)                            | 998.84           | 550.00           | 0.00              | 957.50              | 2,506.34            |
|                                      | 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             | 0.00             | 1,000.00          | 0.00                | 1,000.00            |
|                                      | Shell Creek NET - Bos Payroll  | 0.00             | 0.00             | 8,310.59          | 0.00                | 8,310.59            |
| NRCS WFPO                            | Olsson Assoc - Wahoo Creek WS & Dam Sites Phase II                                   | 31,910.77        | 49,455.98        | 85,204.00         | 0.00                | 166,570.75          |
| NRD Directors                        | Rivalry - Reimbursement - Lawrence (20), Olson (5)                                   | 0.00             | 0.00             | 0.00              | 20.00               | 20.00               |
| Water Sustainability Fund            | LRE Water  | 1,980.75         | 3,161.25         | 4,360.05          | 12,721.74           | 22,223.79           |
|                                      |  | <b>76,334.72</b> | <b>84,419.36</b> | <b>115,635.98</b> | <b>2,132,054.86</b> | <b>2,408,444.92</b> |

**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/Wanhoo) | 008226-6/30/09                                 |               |             |             | 2,882,995.86   |                   |                   |
|                           | 008367-11/30/09                                |               |             |             | 220.61         |                   |                   |
|                           | 008458-2/12/10                                 |               |             |             | 2,704.21       |                   |                   |
|                           | 008594-6/30/10                                 |               |             |             | 52.33          |                   |                   |
|                           | 008599-6/30/10                                 |               |             |             | 96,983.55      |                   |                   |
|                           | 008601-6/30/10                                 |               |             |             | 679,317.44     |                   |                   |
|                           | 008658-9/30/10                                 |               |             |             | 15,599.03      |                   |                   |
|                           | 008659-9/30/10                                 |               |             |             | 1,072,522.57   |                   |                   |
|                           | 008927-2/24/12                                 |               |             |             | 6,647.42       |                   |                   |
|                           | 008928-2/24/12                                 |               |             |             | 159,389.53     |                   |                   |
|                           | 009055-6/30/12                                 |               |             |             | 25,096.93      |                   |                   |
|                           | 009067-7/31/12                                 |               |             |             | 49.73          |                   |                   |
|                           | 009070-8/31/12                                 |               |             |             | 2,177.50       |                   |                   |
|                           | 009078-9/30/12                                 |               |             |             | 352,072.83     |                   |                   |
|                           | 009098-10/31/12                                |               |             |             | 202,769.01     |                   |                   |
|                           | 009297-12/31/13                                |               |             |             | 48.75          |                   |                   |
|                           | 009368-4/30/14                                 |               |             |             | 41,115.11      |                   |                   |
|                           | 5/31/20 - Sand Creek Project Adjustment        |               |             |             | (620,046.54)   |                   |                   |
|                           | 1/21/21 - Deposit US Treasury - Wanhoo 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)   |                   |                   |
|                           |  | <b>Totals</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>    | <b>114,892.33</b> | <b>114,892.33</b> |









# Environmental Education Opportunities

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

Visit [lpnnrd.org/education](http://lpnnrd.org/education) or  
call the NRD at 443-4675  
for availability.



LOWER PLATTE NORTH  
Natural Resources District

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**LOWER PLATTE NORTH**  
Natural Resources District

# Looking to plant native grasses, grains or legumes?

Great Plains no-till drills are available through local cooperatives. Cooperators can assist in setting the drill for mixtures. Visit [lpnrd.org](http://lpnrd.org) or call 402-443-4675 for more information.



LOWER PLATTE NORTH  
Natural Resources District



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at 402-443-4675 for availability.



| Application ID | Applicant                                  | Application Type | County   | Sub Area           | Ranking Score | Acres                 | New Depletion            | Comments2                            | Section | Township | Range Dir |
|----------------|--|------------------|----------|--------------------|---------------|-----------------------|--------------------------|--------------------------------------|---------|----------|-----------|
| LPN-V-023-0610 | William G Pageler                          | expansion        | Saunders | Todd Valley        | 539.7         | 50.00                 | 6.16                     |                                      | 7       | 16       | 7 E       |
| LPN-V-023-0593 | Meduna Family Land LLC                     | expansion        | Saunders | Todd Valley        | 519.7         | 42.16                 | 6.34                     |                                      | 34      | 16       | 7 E       |
| LPN-V-023-0600 | Alex E Kavan                               | expansion        | Saunders | Todd Valley        | 494.4         | 18.00                 | 2.28                     |                                      | 2       | 16       | 7 E       |
| LPN-V-023-0594 | Wilfred Janecek                            | expansion        | Saunders | Todd Valley        | 489.7         | 56.00                 | 8.42                     |                                      | 27      | 16       | 7 E       |
| LPN-V-023-0626 | Rodney L & Maxine J Barnhill, Tree         | new              | Saunders | Todd Valley        | 485.3         | 98.00                 | 15.64                    |                                      | 36      | 17       | 6 E       |
| LPN-V-023-0627 | Nick Schmit                                | new              | Butler   | David City         | 478.3         | 68.00                 | 10.07                    |                                      | 6       | 15       | 1 E       |
| LPN-V-023-0629 | Rainier Resources Holdings 1 LLC           | new              | Saunders | Todd Valley        | 475           | 60.00                 | 7.76                     |                                      | 2       | 14       | 8 E       |
| LPN-V-023-0615 | Jason Thiesen                              | expansion        | Saunders | Todd Valley        | 473.8         | 33.88                 | 3.97                     |                                      | 9       | 16       | 7 E       |
| LPN-V-023-0602 | Susan Scott                                | expansion        | Dodge    | North Bend         | 470.1         | 15.00                 | 2.09                     |                                      | 22      | 18       | 5 E       |
| LPN-V-023-0628 | Rainier Resources Holdings 1 LLC           | expansion        | Saunders | Todd Valley        | 469.2         | 55.00                 | 6.88                     |                                      | 14      | 14       | 8 E       |
| LPN-V-023-0609 | Roger L and Luann Andersen                 | new              | Saunders | Todd Valley        | 464.6         | 66.00                 | 11.29                    |                                      | 35      | 16       | 7 E       |
| LPN-V-023-0599 | Randy C Kavan                              | expansion        | Saunders | Todd Valley        | 460.7         | 10.00                 | 1.66                     |                                      | 14      | 15       | 7 E       |
| LPN-V-023-0620 | Joe Chmelka                                | expansion        | Saunders | Todd Valley        | 459           | 40.00                 | 6.88                     |                                      | 28      | 16       | 7 E       |
| LPN-V-023-0631 | Connor Fujan                               | new              | Saunders | Todd Valley        | 458.8         | 80.00                 | 14.21                    |                                      | 28      | 17       | 7 E       |
| LPN-V-023-0617 | Jason Glock                                | new              | Saunders | Todd Valley        | 456.8         | 70.00                 | 12.39                    |                                      | 29      | 16       | 8 E       |
| LPN-V-023-0598 | Rod Scott                                  | new              | Dodge    | North Bend         | 456.7         | 50.00                 | 6.97                     |                                      | 22      | 18       | 5 E       |
| LPN-V-023-0633 | WODE Farms LLC                             | expansion        | Saunders | Todd Valley        | 438.6         | 130.00                | 16.25                    |                                      | 14      | 14       | 8 E       |
| LPN-V-023-0616 | Jason Thiesen                              | expansion        | Saunders | Todd Valley        | 438.5         | 20.00                 | 4.32                     |                                      | 14      | 16       | 6 E       |
| LPN-V-023-0605 | Gary Torczon                               | expansion        | Platte   | Platte Center      | 418           | 67.10                 | 8.36                     |                                      | 36      | 19       | 2 W       |
| LPN-V-023-0625 | Janice M Kessler-Fischer                   | expansion        | Platte   | Middle Shell Creek | 414           | 5.00                  | 0.80                     |                                      | 11      | 19       | 3 W       |
| LPN-V-023-0597 | McPhillips Bros.                           | expansion        | Platte   | Middle Shell Creek | 410.8         | 10.00                 | 2.00                     |                                      | 26      | 19       | 3 W       |
| LPN-V-023-0601 | Casey Bender                               | expansion        | Platte   | Middle Shell Creek | 404           | 10.00                 | 1.76                     |                                      | 9       | 19       | 3 W       |
| LPN-V-023-0622 | John J Vybiral                             | new              | Saunders | Todd Valley        | 399.4         | 70.00                 | 14.06                    |                                      | 8       | 14       | 8 E       |
| LPN-V-023-0623 | Bradley Williams                           | new              | Saunders | Todd Valley        | 393.5         | 98.00                 | 20.17                    |                                      | 4       | 16       | 6 E       |
|                |  |                  |          |                    |               | <b>Acres: 1222.14</b> | <b>Acre Feet: 190.73</b> |                                      |         |          |           |
| LPN-V-023-0624 | John Larson                                | new              | Boone    | Upper Newman Grove | 391.5         | 135.00                | 12.61                    |                                      | 13      | 22       | 6 W       |
| LPN-V-023-0630 | Rainier Resources Holdings 1 LLC           | new              | Saunders | Todd Valley        | 389.6         | 60.00                 | 11.57                    |                                      | 15      | 13       | 9 E       |
| LPN-V-023-0612 | Galen J. Pokorny                           | expansion        | Butler   | David City         | 387           | 40.00                 | 6.14                     | 69% Class 6+ HEL                     | 32      | 16       | 2 E       |
| LPN-V-023-0603 | Andrew Wallin                              | new              | Boone    | Upper Shell Creek  | 376.5         | 138.00                | 13.24                    |                                      | 27      | 22       | 5 W       |
| LPN-V-023-0604 | Sylvia Walters                             | expansion        | Boone    | Upper Newman Grove | 371.8         | 75.00                 | 9.95                     |                                      | 15      | 21       | 5 W       |
| LPN-V-023-0613 | Barta Family Limited Liability Partnership | new              | Butler   | Octavia            | 363.7         | 17.00                 | 3.00                     | Well drilled and pivot installed     | 32      | 17       | 4 E       |
| LPN-V-023-0596 | McPhillips Bros.                           | new              | Platte   | Middle Shell Creek | 358           | 135.00                | 24.22                    |                                      | 26      | 19       | 3 W       |
| LPN-V-023-0632 | TMV Investments LLC                        | new              | Butler   | Prague             | 354.4         | 63.86                 | 7.93                     |                                      | 18      | 16       | 4 E       |
| LPN-V-022-0585 | Rick L Beranek                             | new              | Saunders | Swedeburg          | 354           | 79.00                 | 25.21                    |                                      | 13      | 13       | 8 E       |
| LPN-V-022-0582 | Jeanie Trofholz                            | new              | Colfax   | North Bend         | 351.4         | 130.00                | 24.58                    |                                      | 2       | 17       | 4 E       |
| LPN-V-021-0547 | Jeremy Janssen                             | expansion        | Platte   | Platte Center      | 349.7         | 34.00                 | 7.16                     |                                      | 10      | 18       | 2 W       |
| LPN-V-021-0546 | Scott Loseke                               | expansion        | Platte   | Platte Center      | 346.2         | 130.00                | 23.29                    |                                      | 33      | 19       | 2 W       |
| LPN-V-021-0541 | Larry D Karloff Tree                       | new              | Saunders | Yutan South        | 342.5         | 68.00                 | 13.79                    |                                      | 34      | 15       | 9 E       |
| LPN-V-023-0635 | Mike Heldt                                 | new              | Saunders | Yutan South        | 342           | 160.00                | 31.00                    | Sub-Irrigated                        | 9       | 14       | 9 E       |
| LPN-V-023-0611 | Michael Chapman                            | expansion        | Saunders | Prague             | 333.4         | 35.00                 | 7.02                     |                                      | 22      | 16       | 6 E       |
| LPN-V-023-0608 | Morseth Trust                              | new              | Madison  | Newman Grove       | 331.9         | 70.00                 | 10.81                    |                                      | 22      | 21       | 4 W       |
| LPN-V-023-0606 | Justin Lee                                 | new              | Madison  | Upper Newman Grove | 326.3         | 122.00                | 18.59                    |                                      | 17      | 21       | 4 W       |
| LPN-V-021-0532 | Kent Lee                                   | new              | Madison  | Upper Newman Grove | 325.66        | 133.00                | 20.27                    |                                      | 17      | 21       | 4 W       |
| LPN-V-023-0619 | Harlan Jacobson                            | new              | Madison  | Newman Grove       | 321           | 140.00                | 20.01                    |                                      | 15      | 21       | 4 W       |
| LPN-V-023-0595 | Kristin Nelson                             | new              | Madison  | Newman Grove       | 320.1         | 130.00                | 18.59                    |                                      | 15      | 21       | 4 W       |
| LPN-V-022-0570 | Carolyn A Petersen                         | expansion        | Platte   | Platte Center      | 319.2         | 70.00                 | 13.55                    | William Wemhoff Tenant and Applicant | 8       | 18       | 2 W       |
| LPN-V-023-0618 | Spencer Beller                             | new              | Platte   | Newman Grove       | 311.5         | 145.00                | 20.67                    |                                      | 4       | 20       | 3 W       |
| LPN-V-023-0614 | Ralph M Papa                               | expansion        | Butler   | Octavia            | 307.7         | 17.00                 | 3.67                     | Gravity to Pivot                     | 9       | 16       | 3 E       |
| LPN-V-021-0545 | Roland D Kavan                             | new              | Saunders | Morse Bluff        | 302.5         | 74.00                 | 10.99                    |                                      | 1       | 16       | 5 E       |
| LPN-V-023-0621 | Eugene Kremlacek                           | new              | Saunders | Prague             | 302.2         | 132.00                | 25.83                    |                                      | 31      | 15       | 7 E       |
| LPN-V-023-0607 | Gregory Kobza                              | new              | Butler   | Octavia            | 302           | 75.00                 | 15.52                    |                                      | 11      | 16       | 2 E       |
|                |  |                  |          |                    |               | 2407.86               | 399.21                   |                                      |         |          |           |
|                |  |                  |          |                    |               | 3630.00               | 589.94                   |                                      |         |          |           |
| LPN-V-023-0636 | Mike Heldt                                 | new              | Saunders | Wann               | 299.5         | 145.00                | 29.78                    | Sub-Irrigated                        | 24      | 14       | 9 E       |
| LPN-V-023-0634 | Lazy Bear Woods LLC                        | new              | Saunders | Swedeburg          | 274.3         | 130                   | 26.82                    |                                      | 29      | 13       | 9 E       |

# USDA Certified Wetland Determination

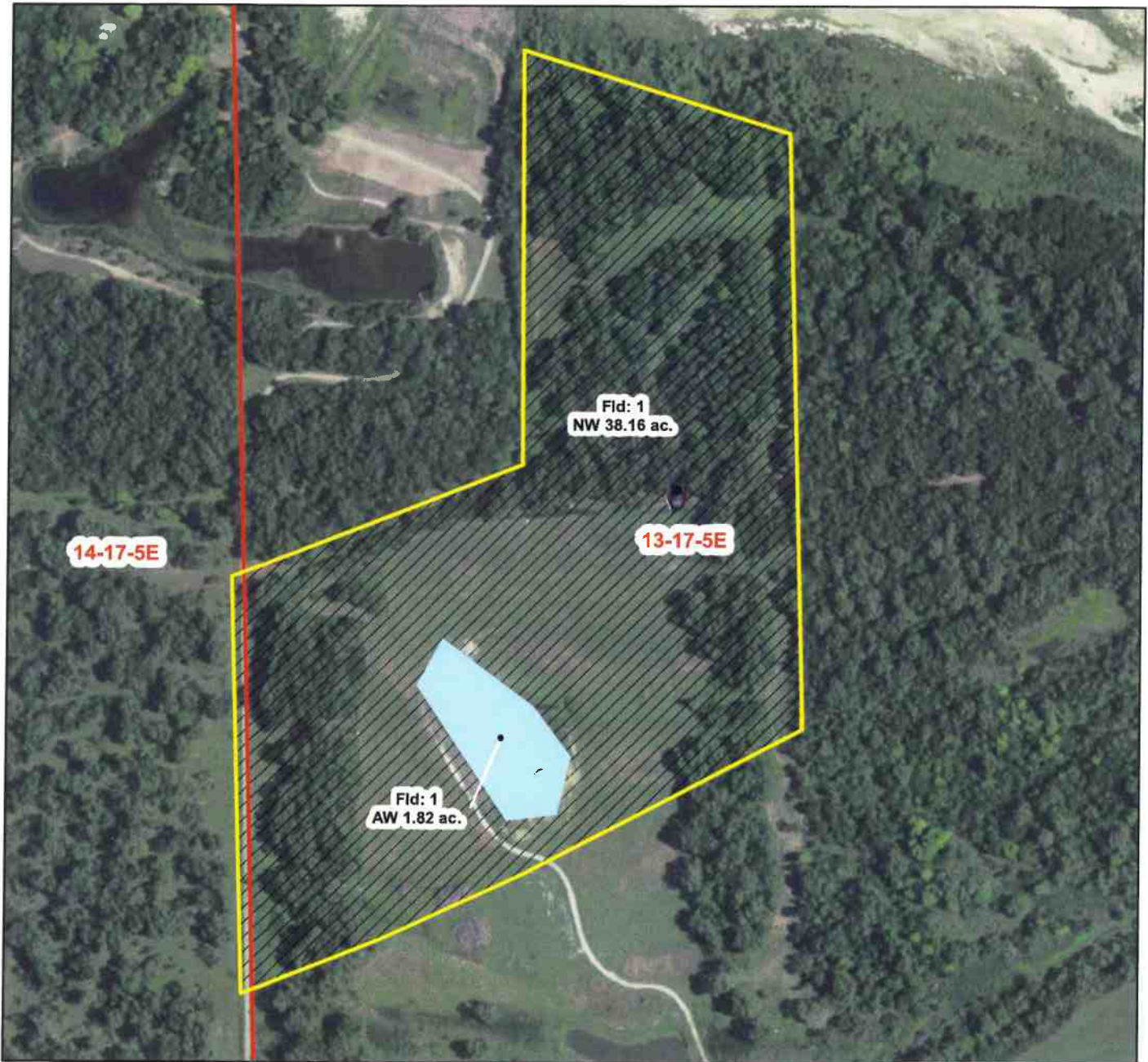
Customer Name: Kevin Indra

NRCS Admin. Office: Wahoo

Farm: 13721 Tract: 16198 Fields: 1

Finalized By: Richard Smith

Legal Description: 13-17-5E Saunders



0 170 340 680 Feet

Map Created: 8/15/2023



## Legend

- Fields
- AW
- NW
- Section



Some fields or portions of fields may not have certified wetland determinations completed.

Map 1 of 1



4 parcel id's = owned  
Land is all grass/trees

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

| DNR & NRD USE ONLY                          |                            |  |  |
|---|----------------------------|--|--|
| Permit No. _____                            | Date Approved/Denied _____ | NRD Representative _____   |  |
| Permit Type: New, Replacement or Late _____ | Date Received _____        | Paid: Cash <input type="checkbox"/> or <input checked="" type="checkbox"/> Check |  |
| Date Post-inspected _____                   | Registration No. _____     | Updated Form: May 2008   |  |

1176  
50<sup>00</sup>

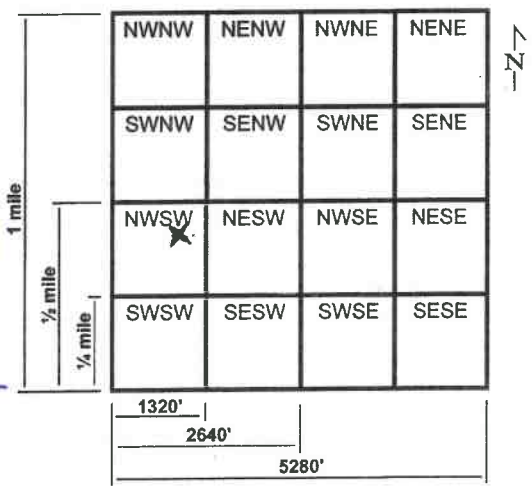
ALL APPLICANTS SEEKING A WATER WELL PERMIT MUST COMPLETE PAGES 1 AND 2, AND THE APPROPRIATE SECTION BASED ON THE PURPOSE OF THE WELL. (CLASS 1 - 4 WELL PERMIT)  
 WATER WELL PERMITS FOR IRRIGATED ACRES GREATER THAN 160 ACRES IN SIZE OR TOTAL ANNUAL WATER USE BETWEEN 150 AND 300 ACRE FEET PER YEAR MUST 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:** \_\_\_\_\_ NAME AND ADDRESS OF **CONTACT:** \_\_\_\_\_  
Kevin Indra \_\_\_\_\_  
1064 County Road W \_\_\_\_\_  
Fremont, NE 68025 \_\_\_\_\_  
 Phone: 402-720-3875 Phone: \_\_\_\_\_

2. PURPOSE OF NEW WATER WELL (indicate one):  
 Irrigation (Complete section A)       Dewatering (Over 30 days, Complete section B)  
 Livestock (Complete section C)       Domestic (Irr. on one acre or larger, Complete section D)  
 Industrial (Complete section E)       Public Water Supply (Complete section F)  
 Recovery or Remediation (Complete section G)  
 Other (specify) Wildlife/Wetlands (Complete section H)

3. IDENTIFY LOCATION OF PROPOSED WELL:  
 A. Saunders County, NW 1/4 of the SE 1/4 of Section 13, Township 17 North, Range 5E 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 \_\_\_\_\_, Township \_\_\_\_\_ North, Range \_\_\_\_\_ East/West.



C. The well will be located 2,320' feet from the North/South section line, and will be 2,145' 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): ASAP
- B. Expected total well depth: 60' feet.
- C. Well Casing Diameter: 16" inches.
- D. Pump Column Diameter: 6" inches.
- E. Estimated pumping capacity: 300-350 GPM.
- F. Expected total annual water use in Acre Inches / Year \_\_\_\_\_ or Total Gallons / Year 100,000 ~~(100,000)~~
- G. The system is to be powered by  Electric  Fuel
- H. Will the well be used in a system with other wells?  Yes,  No. If Yes, How many \_\_\_\_\_  
List well registration number and legal description of each well in Section 6 below.
- I. Name of Well Driller: Grosch Irrigation Co (Please attach test hole log, if available.)  
Lucas 308-773-2261

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

Well will be used during water fall season to keep pond full.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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 31<sup>st</sup> of the following year.
- Water well permit conditions maybe required for approval by the Lower Platte North NRD for each individual well.

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

Date 9-20-22 Signature of Applicant [Signature]

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.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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

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

---

**10. WATER SOURCE INFORMATION:**

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

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

**11. WATER USE LOCATION INFORMATION:**

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

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

**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 contaminates \_\_\_\_\_
- 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 wildlife/wetlands
- 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. October annually or as needed in dry year
- C. Legal description of water discharge location: SW ¼ of the SW ¼ of Section 13, Township 17 North, Range 50 East and name of river, stream or water body Platte River

**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 31<sup>st</sup> of each following year.

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

|                                       |                                  |                              |  |
|---------------------------------------|----------------------------------|------------------------------|--|
| DNR & NRD USE ONLY                    |                                  |                              |  |
| Permit No. <u>LPN-023-1848</u>        | Date Approved/Denied <u>TIS</u>  | NRD Representative <u>TB</u> |  |
| Permit Type: New, Replacement or Late | Date Received <u>5-18-23</u>     | Paid: Cash or <u>Check</u>   |  |
| Date Post-inspected _____             | Registration No. <u>G-064047</u> | Updated Form: June 2022      |  |

5/18/23  
Grosch  
Albion  
Kell 3506  
#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:** Jeffery J Temme  
2656 State Highway 32  
Petersburg NE 68652  
 Phone: \_\_\_\_\_

**NAME AND ADDRESS OF CONTACT:** \_\_\_\_\_  
 Phone: \_\_\_\_\_

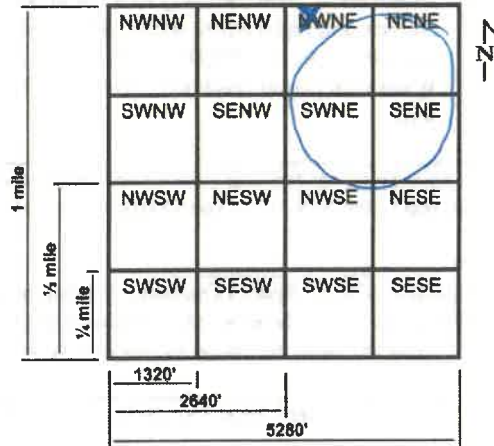
**2. PURPOSE OF NEW WATER WELL (indicate one):**

|   |  |
|---|--|
| <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. Boone County, NW 1/4 of the NE 1/4 of Section 23, Township 22 North, Range 6 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 \_\_\_\_\_, Township \_\_\_\_\_ North, Range \_\_\_\_\_ 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 41 Minute 52 Second 19.61  
 Longitude Degree -97 Minute 58 Second 40.42

**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: G-064047  
 C. Well to be replaced was last operated (month/year): 9-15-22  
 D. Replacement well is 50 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: 159  
 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): May 2023
- B. Expected total well depth: 360 feet.
- C. Well Casing Diameter: 16 inches.
- D. Pump Column Diameter: 8 inches.
- E. Estimated pumping capacity: 900 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
- H. Will the well be used in a system with other wells?  Yes,  No. If Yes, How many \_\_\_\_\_  
List well registration number and legal description of each well in Section 6 below.
- I. Name of Well Driller: Grosch Irrigation (Please attach test hole log, if available.)  
Albien

**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 31<sup>st</sup> 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 *Jeffery J. Lemmon*

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.**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

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

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**10. WATER SOURCE INFORMATION:**

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

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

**11. WATER USE LOCATION INFORMATION:**

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

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

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

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

---

**12. WATER SOURCE INFORMATION:**

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

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

**13. WATER USE LOCATION INFORMATION:**

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

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

**14. AQUIFER PUMP TEST:**

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

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

**15. GROUNDWATER MODEL:**

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

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

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

**PURPOSE OF WELL**

**IRRIGATION WELLS (SECTION A)**

- A. How many acres will be irrigated? 159 acres
- B. Crops to be planted: corn, beans Crop rotation schedule every other 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: \_\_\_\_\_ ¼ of the \_\_\_\_\_ ¼ of Section \_\_\_\_\_, Township \_\_\_\_\_ North, Range \_\_\_\_\_ East/West and name of river, stream or water body \_\_\_\_\_
- E. Will discharge water be used for another purpose, such as livestock, irrigation, etc.?  Yes,  No  
If Yes, list purpose, location and expected total amount of water use in acre-inches / year or total gallons / year.  
\_\_\_\_\_  
\_\_\_\_\_

**LIVESTOCK WELLS (SECTION C)**

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

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

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

\* One acre equals 43,560 square feet.

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**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 \_\_\_\_\_
-

**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**

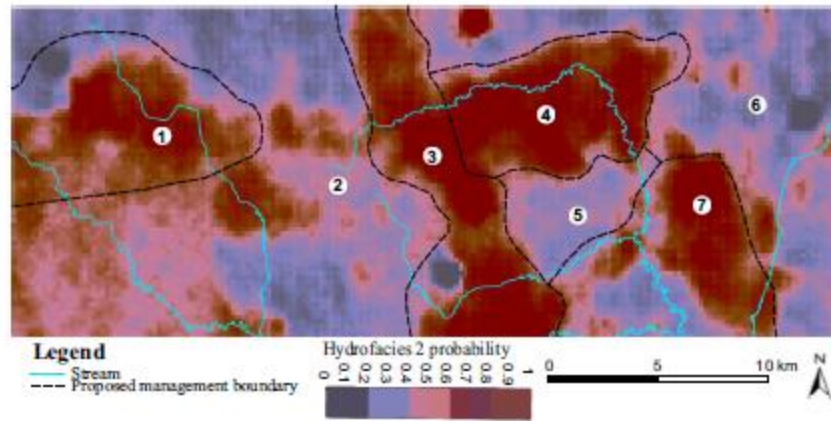
Please take the time and fill out the information correctly. The District will return an incomplete or defective application, with 60 days being allowed for resubmission. The District shall issue all permits with conditions attached, or denied not later than 30 days after receipt of a complete and properly 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 31<sup>st</sup> 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 31<sup>st</sup> of each following year.
16. Water well permit applications require that the applicant or operator of irrigation, livestock, domestic (with irrigation on one acre or more of land), industrial, and public water supply wells by NRD certified.

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

**Fig. 15** Proposed management boundaries with respect to hydrofacies 2 probability, represented as a horizontal slice through the model at 444 m elevation



Springer

**Table 1** Management zones, recovery, hydrogeologic characteristics and management issue(s)

| Zone | Primary management issue(s)                 | Hydrogeologic characteristic(s)  | Recovery time (days)                      | Drawdown (m) |
|------|---|--|---|--------------|
| 1    | Unknown                                     | Unconfined   | >30                                       | 8            |
| 2    | Local well interference                     | Heterogeneous, abrupt variations between confined and unconfined, Low transmissivity       | 5–25                                      | 5–12         |
| 3    | Excessive drawdown near boundaries          | Unconfined, laterally constrained  | 20–30                                     | 5–8          |
| 4    | Well interference                           | Confined   | 50  | 8–15         |
| 5    | Well interference, rapid loss of well yield | Extreme heterogeneity, confined, low transmissivity  | 50  | 12–15        |
| 6    | Aquifer depletion                           | Extreme heterogeneity, abrupt variations between confined and unconfined, limited recharge | >285 (incomplete between pumping periods) | 6–8          |
| 7    | Stream depletion                            | Hydrologically connected to stream, local recharge pathways                                | 1–20                                      | <1           |



# Multiple-point statistical modeling of three-dimensional glacial aquifer heterogeneity for improved groundwater management

Nafyad Serre Kawo<sup>1</sup> · Jesse Korus<sup>2</sup> · Mats Lundh Gulbrandsen<sup>3</sup>

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## Abstract

Quaternary glacial aquifers are important water sources for irrigation in many agricultural regions, including eastern Nebraska, USA. Quaternary glacial aquifers are heterogeneous, with juxtaposed low-permeability and high-permeability hydrofacies. Managing groundwater in such aquifers requires a realistic groundwater-flow model parameterization, and characterization of the aquifer geometry, spatial distribution of aquifer properties, and local aquifer interconnectedness. Despite its importance in considering uncertainty during decision-making, hydrofacies probabilities generated from multiple-point statistics (MPS) are not widely applied for groundwater model parameterization and groundwater management zone delineation. This study used a combination of soft data, a cognitive training image, and hard data to generate 100 three-dimensional (3D) conditional aquifer heterogeneity realizations. The most probable model (probability of hydrofacies) was then computed at node spacing of  $200 \times 200 \times 3$  m and validated using groundwater-level hydrographs. The resulting hydrofacies probability grids revealed variations in aquifer geometry, locally disconnected aquifer systems, recharge pathways, and hydrologic barriers. The profiles from hydrofacies probability at various locations show spatial variability of the streambed and aquifer connectivity. Groundwater-level hydrographs show evidence of these aquifer characteristics, verifying the general structure of the model. Using the MPS-generated 3D hydrofacies probability and hydrologic data, a novel workflow was developed in order to better define high-resolution groundwater management zones and strategies. In general, the conditional probability of hydrofacies helps improve the understanding of glacial aquifer heterogeneity, the characterization of aquifer-to-aquifer and streambed-aquifer connections, and the delineation of groundwater management zones. This MPS workflow can be adapted to other areas for modeling 3D aquifer heterogeneity using multisource data.

**Keywords** Airborne electromagnetics · Glacial aquifers · Heterogeneity · Hydrofacies · Geostatistics

## Introduction

Glacial aquifer systems supply water for various uses worldwide, particularly in the northern latitudes that experienced widespread glaciation during the Quaternary (Miller 1999;

Russell et al. 2004; Ehlers and Gibbard 2007; Margat and van der Gun 2013). In the United States, glacial aquifers underlie parts of 26 states and supply water to about 42 million people, or 5% of the US population (Yager et al. 2018). Aquifer heterogeneity is defined as the spatial variation of aquifer hydraulic properties (Hiscock and Bense 2021). Glacial aquifer systems are heterogeneous and comprise sediment assemblages with a wide range of hydraulic properties (Brodzikowski and van Loon 1987; Anderson 1989; Whittaker and Teutsch 1999; Benn and Evans 2014). Aquifer heterogeneity results in complex patterns of groundwater flow, which impact head distribution and travel time (He et al. 2013), groundwater and surface interactions (Fleckenstein et al. 2006; Zhao and Illman 2017), limit infiltration rate and groundwater discharge (Åberg et al. 2021) and managed aquifer recharge (Maples et al. 2020). Aquifer heterogeneity produces tortuous groundwater flow paths (Comte et al. 2019) and challenges groundwater management (Kelly et al.

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2013). Characterizing the spatial scales of heterogeneity in the subsurface volume of interest is essential to appropriately simulate flow and manage groundwater resources (Giudici 2010). The relevant data to characterize aquifer heterogeneity at a scale of interest are rarely available, and as a result, aquifer heterogeneity is simplified for groundwater simulation. Simplifying heterogeneity may lead to unrealistic aquifer characteristics (Lukjan and Chalermyanont 2017) and incorrect aquifer connections, resulting in overgeneralized groundwater flow paths.

Sustainable groundwater management requires an improved understanding of aquifer-to-aquifer connections, stream–aquifer connections, and vertical and horizontal water flow components and processes between or within an aquifer. Groundwater management activities such as regulating well pumping and well interferences, siting new pumping wells, protecting streamflow depletion, safeguarding recharge zones and enhancing aquifer recharge, necessitate a realistic aquifer framework and properties. Groundwater management decisions often rely on the results of groundwater models and monitoring systems. Well hydrographs are often used to map aquifer heterogeneity and properties during calibrations; however, even with good calibration results, uncertainty may persist. A unique set of parameters cannot be obtained during calibration—multiple hydraulic conductivity values may provide a good fit, and solutions are nonunique (Konikow and Bredehoeft 1992). Inadequate conceptual geological model and aquifer parameter estimations are sources of uncertainty in groundwater flow models (Rojas et al. 2010; Refsgaard et al. 2012; Enemark et al. 2019; Yin et al. 2021). Errors in aquifer heterogeneity and structure can result in biases related to parameterization, calibration and prediction (Christensen et al. 2017b). Comparing the estimated aquifer parameters by the inverse calibration model to prior knowledge of aquifer structures or a 3D aquifer realization model can help validate the inverse model-based estimated aquifer properties and model accuracy, reducing the potential impact of ill-posed calibrations on model-aided decision-making. Three-dimensional (3D) modeling of hydrofacies is fundamental to constructing a groundwater flow model for groundwater management. Hydrofacies probability is also a useful tool for understanding and assessing uncertainty in an aquifer structure and aquifer properties. However, it is not widely used in groundwater model parameterization and groundwater management zone delineation due to a lack of data and difficulties in implementing the concept in practical applications.

Aquifer permeability is influenced by lithofacies distribution (Bersezio et al. 1999; Zappa et al. 2006; Suriamin and Pranter 2018). Lithofacies from borehole data are frequently used to model hydrofacies. Different lithofacies can be grouped into single hydrofacies (Klingbeil et al. 1999; De Caro et al. 2020). Estimation of hydraulic conductivity is typically done by analyzing lithofacies data and limited pumping test wells to model groundwater flow. The groundwater flow model necessitates realistic parameterization of spatial variations in aquifer properties. Accurately estimating spatial variations of complex glacial aquifer

hydraulic conductivities requires a large amount of data. The estimation of realistic aquifer heterogeneity and properties can be aided by modeling spatial variations in hydrofacies. The hydrofacies model can be used to estimate the hydraulic conductivity of an aquifer (Theel et al. 2020; Xue et al. 2022). Geophysical data are often used to enhance the horizontal resolution of hydrofacies modeling, but translating geophysical data to hydrofacies can be challenging due to the nonuniqueness of the information derived from geophysical data. Airborne electromagnetics (AEM) is a geophysical technique that provides spatially dense data between boreholes and can yield critical information on the aquifer extent and confining units (Hanson et al. 2012; Korus et al. 2013, 2017, 2021; Korus 2018). To interpret AEM data, the AEM data must first be inverted and interpolated to generate a 3D resistivity grid. Then the resistivity-borehole lithological relationship is used to convert 3D AEM resistivity data into hydrofacies. Combining AEM-derived resistivity-depth models with borehole logs can improve geological heterogeneity simulation and reliability (Jørgensen et al. 2013; Foged et al. 2014; Korus et al. 2017). The integration of AEM with a borehole can be utilized to map the aquifer system (Knight et al. 2018), estimate the upper top of the saturated zone (Dewar and Knight 2020) and locate incised valley fill for recharging the aquifer (Knight et al. 2022). Combining AEM data with well hydrograph data is useful for mapping impermeable aquifer boundaries (Korus 2018). The information derived from AEM data is also valuable in bolstering the accuracy of groundwater models. Marker et al. (2015) employed AEM data in combination with borehole data to produce clay fraction estimates, categorized them into hydrostratigraphic zones, estimated hydraulic conductivity for each zone, used these values in groundwater calibration, and observed an enhancement in hydrological performance. Christensen et al. (2017a) used AEM data to create 3D distributions of hydraulic conductivity and reported that the accuracy of the groundwater predictive model improved, specifically, predictions of recharge area, head change and stream discharge.

Three-dimensional modeling of glacial aquifer heterogeneity is challenging because it requires spatially dense data and sophisticated methods. The cognitive approach produces only a single aquifer heterogeneity and involves significant effort and expertise to create multiple 3D realizations of aquifer heterogeneity in a glacial region. Geostatistical simulations such as two-point and multiple-point statistics (MPS) are also commonly used to model aquifer heterogeneity. The MPS approach has many advantages over cognitive and two-point geostatistical methods (Liu et al. 2005; Hu and Chugunova 2008). Unlike two-point geostatistics, which use a variogram approach to generate geological heterogeneity, MPS uses statistics from a training image (TI) and better simulates complex geological patterns than two-point techniques (Strebelle 2002). MPS generates multiple plausible realizations by combining TI, hard data (certain borehole data) and soft data (geophysical data); however, locational

measurement and driller's borehole lithological logs descriptions are always subject to uncertainty and borehole data are not 100% certain. Despite such errors, hard data are treated as certain and used to constrain the MPS realization. MPS realizations are compelled to perfectly match the hard data during simulations, but MPS realizations are not forced to match soft data (Hansen et al. 2018; Vilhelmsen et al. 2019; Madsen et al. 2021).

In areas where there are no hard data, MPS fills simulation grids by borrowing geological features from a TI and soft data. Statistical information is derived from TI using a search tree template and stored in a tree (Liu 2006). The selection of an appropriate search template is vital to capture geological heterogeneity and information presented in the TI. A small search mask may exclude vital geological features in the TI, and too large a search mask prolongs MPS simulation time and leads to nonrepresentative statistics (Hu and Chugunova 2008). The TI pattern that appears in the search mask is recorded in the search tree (Ba et al. 2019).

Near the eastern margin of the High Plains Aquifer (HPA) in Nebraska, the geological system consists of complex glacial deposits and productive paleovalley (buried valley) aquifers (Divine et al. 2009; Korus et al. 2017). The boundary of the HPA in eastern Nebraska is concealed by glacial deposits and loess, and there are multiple generations of paleovalleys in the subsurface (Korus et al. 2017). These paleovalley aquifers are complex and heterogeneous, resulting in significant spatial variability in aquifer properties. The variability of aquifer properties, as well as the presence of low permeability hydrofacies, can limit water flow between and within the aquifers as well as recharge to the aquifer. Effective groundwater management in this area requires an understanding of paleovalley aquifer continuity, confining units, and features controlling groundwater flow. This study aims to answer the following questions by simulating detailed glacial aquifer heterogeneity: (1) Are the palaeovalley aquifers connected? (2) Is the streambed-aquifer system connected? (3) Can a 3D MPS-generated probability be used to define management boundaries?

Probabilistic simulations of glacial aquifer heterogeneity using MPS are not often utilized to analyze the connection between buried valleys aquifers, aquifers and streambeds and to define groundwater management zones. Simulations of various conditional realizations aid in determining plausible glacial aquifer heterogeneity and aquifer-to-aquifer connectivity, which is an important step in considering the uncertainty of aquifer characterization in groundwater modeling and management. Visual inspections and borehole logs are commonly utilized to validate hydrostratigraphic units produced by MPS (Barfod et al. 2018a). Although well hydrographs can provide information about the properties of aquifers and hydrostratigraphic units, they are rarely used to validate MPS-generated hydrofacies and aquifer

heterogeneity. Unlike other examples, this study uses a novel application of groundwater head monitoring for qualitative validation of aquifer heterogeneity and computed 3D hydrofacies probability to account for uncertainty. To the authors' knowledge, hydrographs have not been applied to validate glacial aquifer heterogeneity. This study demonstrated that MPS can be a useful tool for modeling glacial-aquifer heterogeneity. Furthermore, a workflow for delineating management boundaries that take into account the spatially variable nature of these aquifers was provided, which is critical for tailored management solutions.

## Physical setting

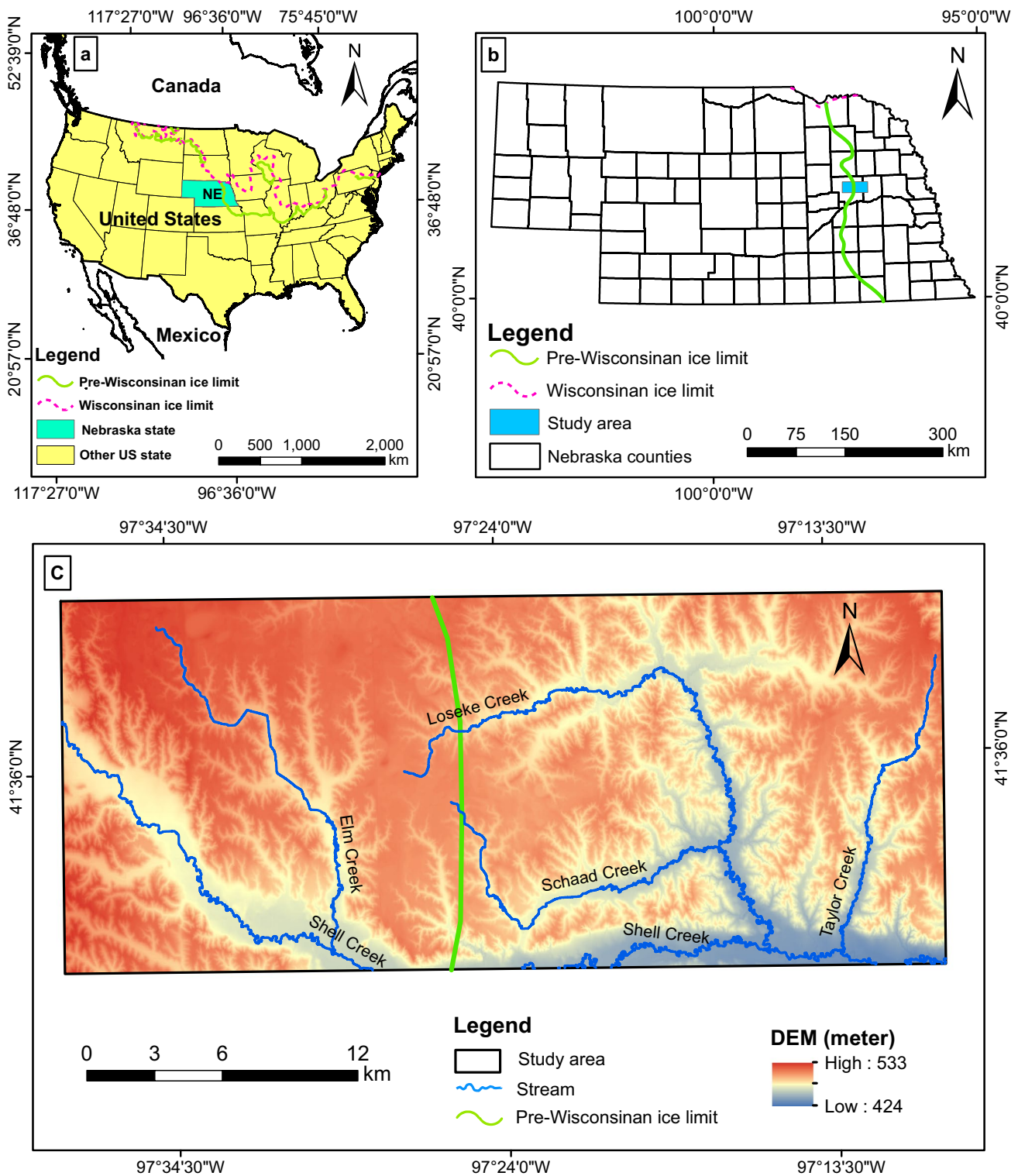
The study area is located in eastern Nebraska, USA (Fig. 1). It includes the watersheds of Elm Creek, Taylor Creek, and Loseke Creek, which flow into Shell Creek, a tributary of the Platte River. The elevation of the study area ranges between 424 and 533 m. Groundwater is managed by the Lower Platte North Natural Resources District, which has established management rules for this area because of periodic groundwater shortages related to well interference and large-magnitude groundwater-level declines during irrigation pumping. The management area is approximately 643 km<sup>2</sup> and is about 40 km in the E–W direction and 17 km in the N–S direction.

Shell Creek watershed lies near the maximum western extent of Pleistocene glaciation in North America. The Laurentide Ice Sheet advanced over preglacial and proglacial deposits in this area, producing a complex arrangement of buried valleys, tills, and spatially variable sand and gravel bodies. Glacial sediments are mantled by multiple loess units. Bedrock consists of impermeable Cretaceous rocks, principally shale, chalky shale, and limestone, which serve as the lower boundary for groundwater flow. Unconsolidated sand and gravel units above bedrock serve as the primary aquifers for municipal and irrigation purposes. The glacial aquifers system consists of sand and gravel deposits in buried valleys atop bedrock (paleovalleys), and discontinuous sand and gravel bodies within unconsolidated glacial sediments (Divine et al. 2009).

## Materials and methods

### Borehole data processing

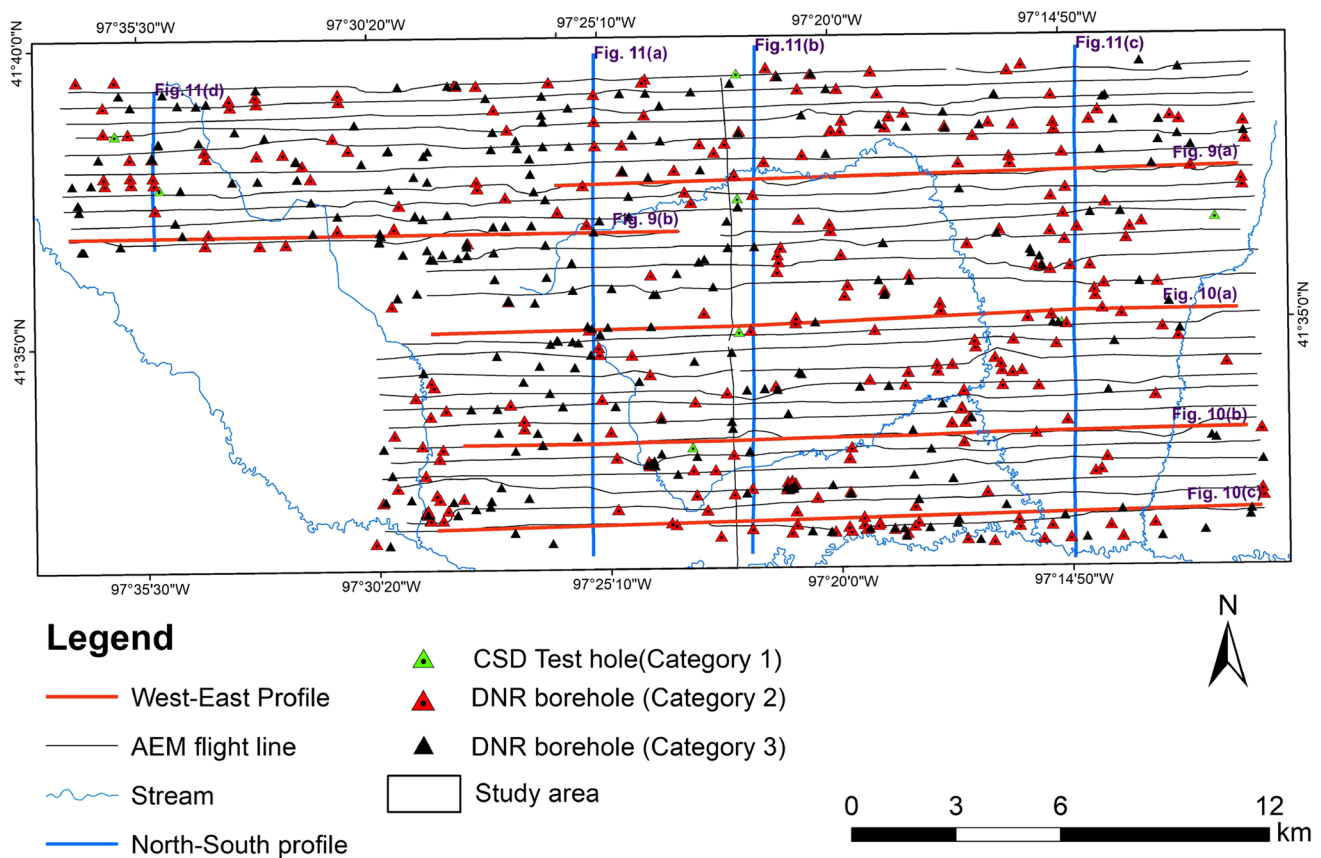
Boreholes logs were obtained from the Nebraska Department of Natural Resources (NDNR) and test holes were drilled by the Nebraska Conservation and Survey Division (CSD) (Fig. 2). The borehole lithological logs were used to evaluate geophysical inversion, conduct MPS



**Fig. 1** Locations of **a** the State of Nebraska (NE) and the glaciation ice limits in the USA, and **b** the study area in Nebraska. **c** Geographic features of the study area, including a digital surface elevation model (DEM, m above sea level)

simulation, and support results and interpretation. Borehole uncertainty impacts the translation of AEM resistivity to sediment probability and is weighted to account

for uncertainty. Borehole data can be weighted based on location accuracy, sampling frequency, drilling method, and borehole geophysical data criteria to account for



**Fig. 2** Airborne electromagnetics (AEM) flight lines, Nebraska Conservation and Survey Division (CSD) test holes, Nebraska Department of Natural Resources (DNR) boreholes, and W–E and N–S

section profiles shown herein. Borehole categories refer to quality criteria explained in the text

borehole uncertainty (Barfod et al. 2016; He et al. 2014b; Høyer et al. 2015, 2017). Høyer et al. (2017) used a uniform uncertainty of 20% for all boreholes. In this study, data quality is rated using a subdivision into four groups based on location accuracy and borehole log resolution following the decision tree borehole quality assessment method (Korus and Hensen 2020). Location quality rating depends on the source of geographic coordinates. If a borehole location is determined using a global positioning system (GPS) or by measuring N–S and E–W distance from a nearby line (resulting in low location error, typically <10 m), it is considered to have good location quality. Otherwise, it is classified as having poor quality. For the quality of the lithological description, the borehole depth is divided by the borehole logs intervals and if the average is less than 6.1, the description is considered as detailed. If the average is 6.1 or higher, the description is considered not detailed. Using these criteria, the 1,007 boreholes in the study area were classified into four distinct categories. Category 1 boreholes have good location quality and detailed lithological descriptions. Category 1

boreholes were used as hard data because their locations and lithological logs were meticulously recorded by skilled geologists. Category 2 boreholes (a total of 394 boreholes) have detailed borehole lithological logs and good location quality (coordinates measured using GPS or measured footage N–S and E–W nearest sections line). Category 3 boreholes (a total of 387 boreholes) lack detailed borehole lithological logs but have good location quality. Both category 2 and 3 boreholes were not logged by a trained geologist or were unknown, and thus considered soft data (uncertain data). For category 2 and 3 boreholes, a 75 and 65% probability of certainty was assigned to category 2 and 3 boreholes, respectively. The lithohydrofacies from category 2 and 3 boreholes were merged and normalized and integrated with hydrogeophysical facies probabilities obtained from AEM resistivity data, which were used as soft data. A total of 218 boreholes were excluded in category 4 due to their inaccurate and ambiguous location quality to prevent errors from being introduced into the soft data when merging these boreholes with AEM data and utilizing them in MPS simulation.

## AEM data processing and inversions

An AEM survey was conducted in 2016 using the SkyTEM304M system (Sørense and Auken 2004) to generate data for hydrostratigraphic units. SkyTEM is a helicopter-borne transient electromagnetic (TEM) method that consists of a transmitter coil and a receiver loop. The TEM method is based on the time-varying magnetic field caused by the rapid turnoff of current sent by the transmitter coil, and it provides subsurface electrical properties via Faraday's law of induction (Christiansen et al. 2006). The induction generates a secondary magnetic field measured at the receiver and contains information about the subsurface resistivity. The data are recorded in time windows called gates and consist of a single sounding at one location. The flight speed and the measurement interval determine the distance between soundings. SkyTEM has two moments: a low moment ( $3,000 \text{ A}\cdot\text{m}^2$ ) enables measurement of early time data and provides details about shallow subsurface structures, and a high moment ( $160,000 \text{ A}\cdot\text{m}^2$ ) enables measurement of late time data, penetrates deeper and offers details about deep subsurface structures (Sørense and Auken 2004). There are 26 flight lines in the study area (Fig. 2), and the distance between flights is about 500 m. The AEM survey lines run east to west, and one line runs north to south. The AEM survey instrumentation and data acquisition for the study area were presented in AGF (2017).

AEM data were processed using Aarhus Workbench 6.2 software which has geophysical and GIS platforms. Manual and automatic methods were applied to adjust altitude and voltage data, as described by Auken et al. (2009). A spatially constrained inversion (SCI) (Viezzoli et al. 2008) was used that forms a quasi-3D model by constraining laterally along and across the flight lines to generate resistivity depth for 30 layers. A 30-layer model was used, with thicknesses increasing logarithmically with depth. The thickness of the first and 29th layers is 3 and 25.9 m, respectively. The depth to the base of the 29th layer is 312 m below the land surface. The Kriging technique with a node spacing of  $200 \text{ m} \times 200 \text{ m} \times 3 \text{ m}$  was used to interpolate one-dimensional (1D) inverted resistivity to a 3D resistivity grid. The vertical resolution (3 m) was selected to capture vertical heterogeneity in resistivity.

## Hydrologic data

Groundwater levels are monitored in a network of two observation wells and 20 irrigation wells in the study area. Monitoring of water levels in irrigation wells is achieved through the use of pipes installed in the filter pack of the well between the well casing and the borehole wall. Automatic groundwater level monitoring systems were installed in July of 2020 to collect daily real-time groundwater-level

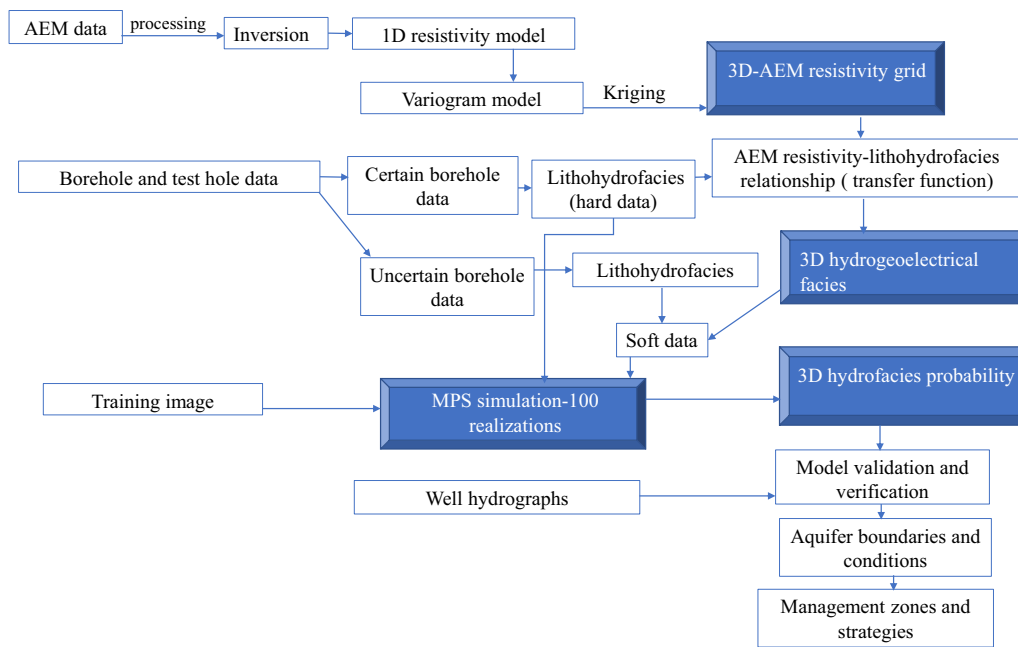
data. The groundwater level monitoring was aimed to assess drawdown and potential impacts of well interferences during irrigation pumping. Well hydrographs were used to evaluate and verify the interconnections between the aquifer systems and streams. Water-table measurements from spring 2017 were interpolated using the Ordinary kriging method to determine the position of the water table in the aquifer system. There were numerous water level data available from a measurement campaign conducted in the spring of 2017. Water levels data in the spring of 2017 were used to map static water levels because spring is the best time to measure static water levels (no irrigation pumping).

## MPS modeling

The MPS work is carried out in this study using the 3D geological modeling software GeoScene3D. The software allows for visualization and integration of different geo-data types and consists of all the necessary tools for a full MPS workflow, from generating the 3D training image through simulation to computing the statistics/hydrofacies probabilities. In this study, the borehole lithological logs were categorized into hydrofacies. Hydrofacies 1 consists of poorly permeable sediments (silt, clay, soil, clay and silt, silt and clay, clay and sand, clay and gravel, shale, till and siltstone) and hydrofacies 2 consists of medium to highly permeable sediments (sand, gravel, silt and sand, sand and gravel, fine sand, coarse sand, gravel and silt). Hydrofacies 2 forms the glacial aquifer, while hydrofacies 1 forms the confining units (aquitard) and bedrock units. Figure 3 depicts the methodology used to simulate aquifer heterogeneity. The simulations are performed using the preferential simulation path technique (Hansen et al. 2018) and the SNESIM algorithm of the open-source software MPSSLIB (Hansen et al. 2016) which is embedded in GeoScene3D.

## Soft data conditioning

The soft data were prepared in three steps. First, the AEM data were processed, inverted, and interpolated to a 3D grid. Second, borehole data were grouped, ranked, and assigned to the 3D grid. The borehole lithological logs were then classified as lithohydrofacies. Lithohydrofacies 1 consists of fine-grained sediments and lithohydrofacies 2 consists of coarse-grained sediments. This study used lithohydrofacies generated from boreholes with detailed lithological logs and good location quality to determine the corresponding resistivity values for each lithohydrofacies. The lithohydrofacies were assigned to a  $200 \text{ m} \times 200 \text{ m} \times 3 \text{ m}$  grid and the distribution of resistivity values for each lithohydrofacies was evaluated by examining the correlation between corresponding lithohydrofacies and resistivity values. The correlation between resistivity and lithohydrofacies can be affected by factors such as subsurface

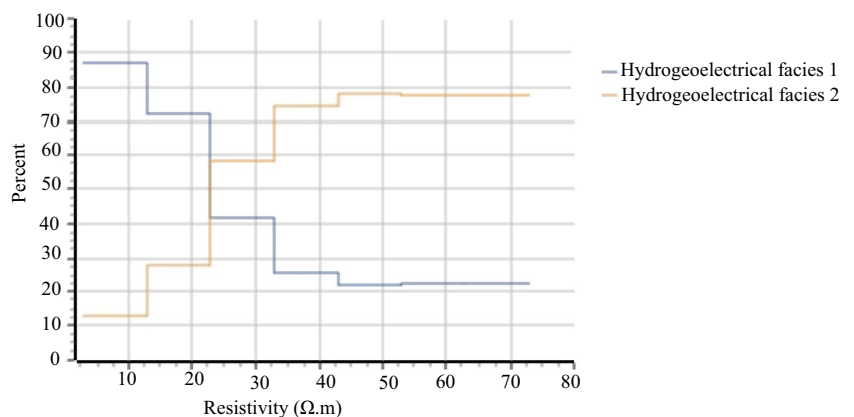


**Fig. 3** Multiple-point statistic (MPS) simulation workflow used in this study

water quality, clay minerals, and porosity. In the study area, the effect of porewater conductivity on the relationship is negligible and clay minerals exert a dominant control on resistivity (Korus et al. 2017). The built-in automatic transfer function in GeoScene3D was used to establish the correlation between resistivity values and lithohydrofacies. The transfer function highlights resistivity values of  $22 \Omega \cdot m$  as cutoffs for hydrogeoelectrical facies (Fig. 4). A hydrogeoelectrical facies was then generated from AEM resistivity data using this cutoff value. A hydrogeoelectrical facies is a group of sediments that have similar lithological, hydraulic, and electrical properties (Cattaneo 2014). For the successive phases of the workflow, it would be very useful to distinguish hydrogeoelectrical facies based on their resistivity value. Figure 4 shows the probability of the two hydrogeoelectrical facies for the whole range of electrical resistivities in the study area. As resistivity values increase, the percentage of hydrogeoelectrical facies 1 decreases while the percentage of hydrogeoelectrical facies 2 increases. The

hydrogeoelectrical facies probabilities were merged with lithohydrofacies from uncertain borehole data and used as soft data. Using information derived from AEM data as soft data leads to a more detailed and representative subsurface realization than relying solely on borehole data (Barfod et al. 2018b). The soft data were used together with TI to determine the probability of hydrofacies at a simulated grid. Using the tau model (Journel 2002), the SNESIM algorithm adjusts the influence of soft data (He et al. 2014a, b; Ma and Jafarpour 2019). A higher value of tau means that the soft data will have a stronger influence, while a lower value of tau means that the soft data will have a weaker influence (Ma and Jafarpour 2019). The value of tau can be estimated from the data. The probability of finding hydrofacies at a specific simulation grid node is calculated based on conditional probability by combining the training image and soft data. One hundred realizations are carried out to ensure that reliable hydrofacies events occur at the simulated grid and to calculate the probability at the simulated location.

**Fig. 4** The transfer function illustrating the probability of hydrogeoelectrical facies



The number of realizations should be large enough to ensure the stability of the results while also considering the intended processing time of the realizations (Remy et al. 2009).

### Hard data conditioning

Hard data conditioning forces MPS realizations to match hard data exactly. In this study, lithohydrofacies generated from eight boreholes that overlap AEM flight lines (Fig. 2) were used as hard data to condition the MPS realizations and reduce uncertainty by forcing the models to match the hard data.

### Training image (TI)

In hard-data-scarce areas, MPS realizations rely more on the statistics derived from a TI, which is a cognitive model (Høyer et al. 2017), and from soft data. The ability of the MPS approach to generate realistic representations of geological heterogeneity is heavily dependent on the user-generated TI. TI can be generated from a wide range of data sources; geophysical data such as airborne electromagnetic data (AEM) (He et al. 2013, 2014a; Jørgensen et al. 2015), field data in combination with borehole data (Dall'Alba et al. 2020), and geological background knowledge of the study area. A 3D TI was generated for this study using the same cell size as the 3D AEM resistivity grid but with a smaller footprint (Fig. 5). The aquifer heterogeneity incorporation into the TI was based on a conceptual understanding of the geology of the study area, its aquifer system, glacial processes, interpretations of hydrostratigraphic borehole units, surface geological information, and the AEM model (Korus et al. 2021). Then, expected aquifer heterogeneity in the vertical and horizontal directions was incorporated into the TI. The TI image consists of 106,796 nodes for hydrofacies units. The TI consists of a

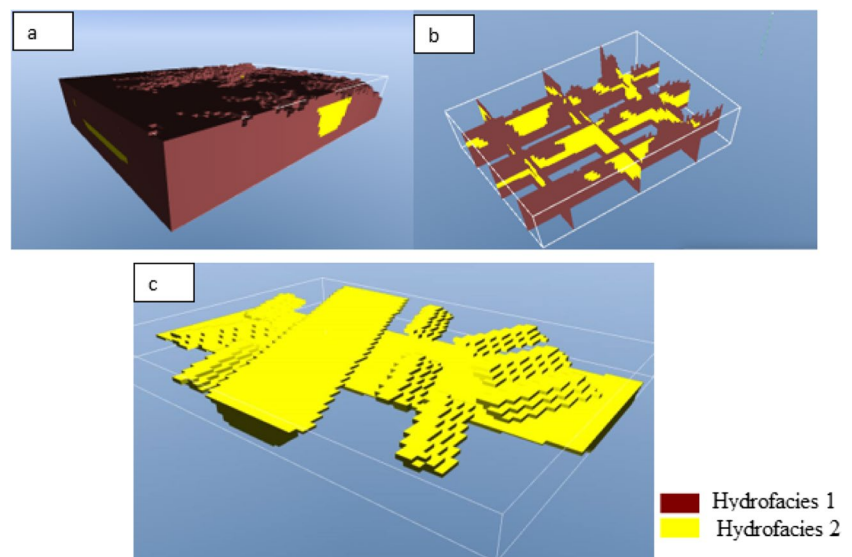
buried bedrock paleovalley trending W–E, a buried channel trending N–S, and glaciotectionic thrust wedges. The structure and geometry of the glacial deposits in the study area were incorporated into the TI to guide MPS simulation.

### MPS parameters and hydrofacies probability calculation

Choosing appropriate MPS parameters, such as search templates and multiple grids, is critical for simulating heterogeneous and discontinuous glacial aquifer systems. The MPS algorithm and the parameters used significantly impact spatial structures derived from the TI (Liu 2006; Høyer et al. 2017). Larger search templates of multiple grids are used to detect large-scale structures and patterns in the TI, while finer templates are used to detect smaller structures within the TI (Mariethoz and Caers 2014). Different MPS model parameters were evaluated to simulate aquifer realizations using the preferential simulation path implemented in GeoScene3D. An advantage of the preferential simulation path is that more informed model parameters are visited preferentially to less informed ones (Hansen et al. 2018). The model was simulated with a cell size of 200 m × 200 m × 3 m. A minimum search template of 3 × 3 × 3 and a maximum search template of 10 × 10 × 10 were used to scan and derive information from the TI. Different numbers of multiple grids were tested and of the multiple grids, six provided good results. The impact of multigrids on MPS realization has been well documented by Liu (2006).

The hydrofacies assigned to the simulation grid are determined using the TI, hard, and soft data. During simulation, hard data provides the first conditioning nodes and patterns to be matched (Madsen et al. 2021). If a grid cell lacks hard data, grid cell-based conditional hydrofacies are calculated by scanning information stored in a search tree and soft data.

**Fig. 5** Training images: **a** three-dimensional **b** W–E and N–S slices **c** only hydrofacies 2 presented



One hundred 3D aquifer realizations were simulated and the probability of each hydrofacies was calculated at each grid of 200 m × 200 m × 3 m.

**Model evaluation**

Qualitative evaluations of 3D hydrofacies probability were performed using high-quality borehole logs and heterogeneity features presented in the TI. In addition, well hydrographs were used to determine the connection between aquifers and possible well interferences. The connections between aquifers were assessed following the approach of Butler et al. (2013) and Butler et al. (2021) using several characteristics of the hydrographs, including (1) duration of drawdown during pumping, (2) length of the recovery period after cessation of pumping, (3) year-to-year changes in peak groundwater levels, and (4) slope of hydrograph during nonirrigation months (after drawdown recovery and before the onset of pumping).

**Results**

**Model evaluation**

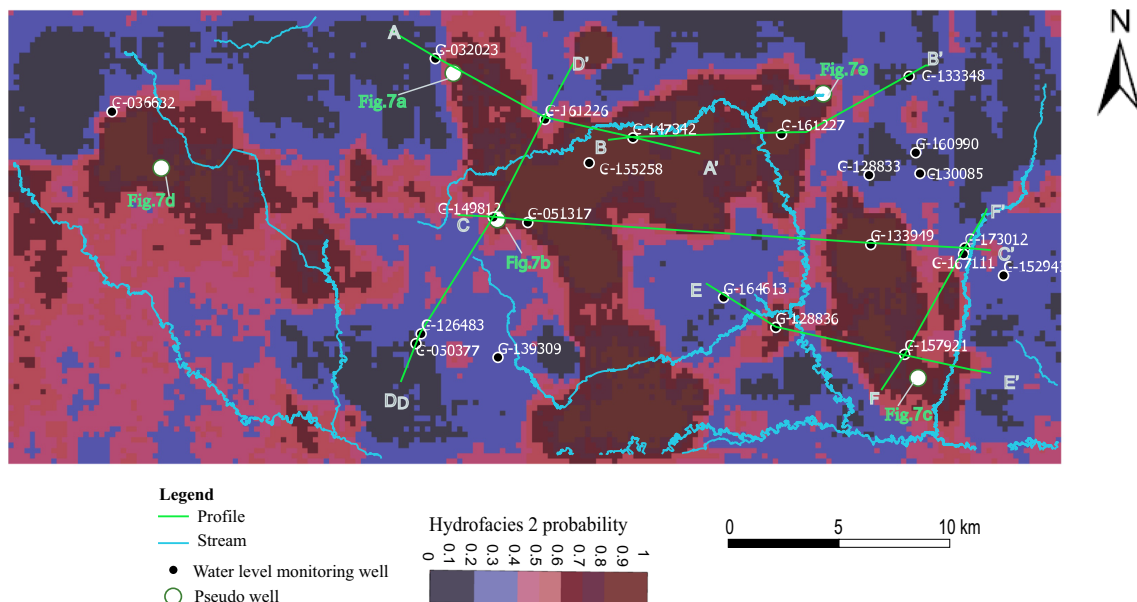
Pseudo wells were placed in the model space at various locations (Fig. 6) to extract attributes from the hydrofacies probability grid and soft data (AEM and boreholes) grids for comparison (Fig. 7). Pseudo wells (Fig. 7) show that the probability of hydrofacies 2 is low at shallow depth (elevation 490–520 m), which corresponds to loess and till (confining unit). The probability of hydrofacies 2 is also low below

the bedrock surface (elevation 420 m), which corresponds to shale. The highest hydrofacies 2 probability exists between the elevation of 420–495 m. In general, probabilities of soft data match well with hydrofacies probabilities from MPS simulations at the locations of pseudo wells. High probability (> 0.7) from soft data corresponds to high hydrofacies 2 probability (> 0.6) from MPS simulation in all pseudo wells.

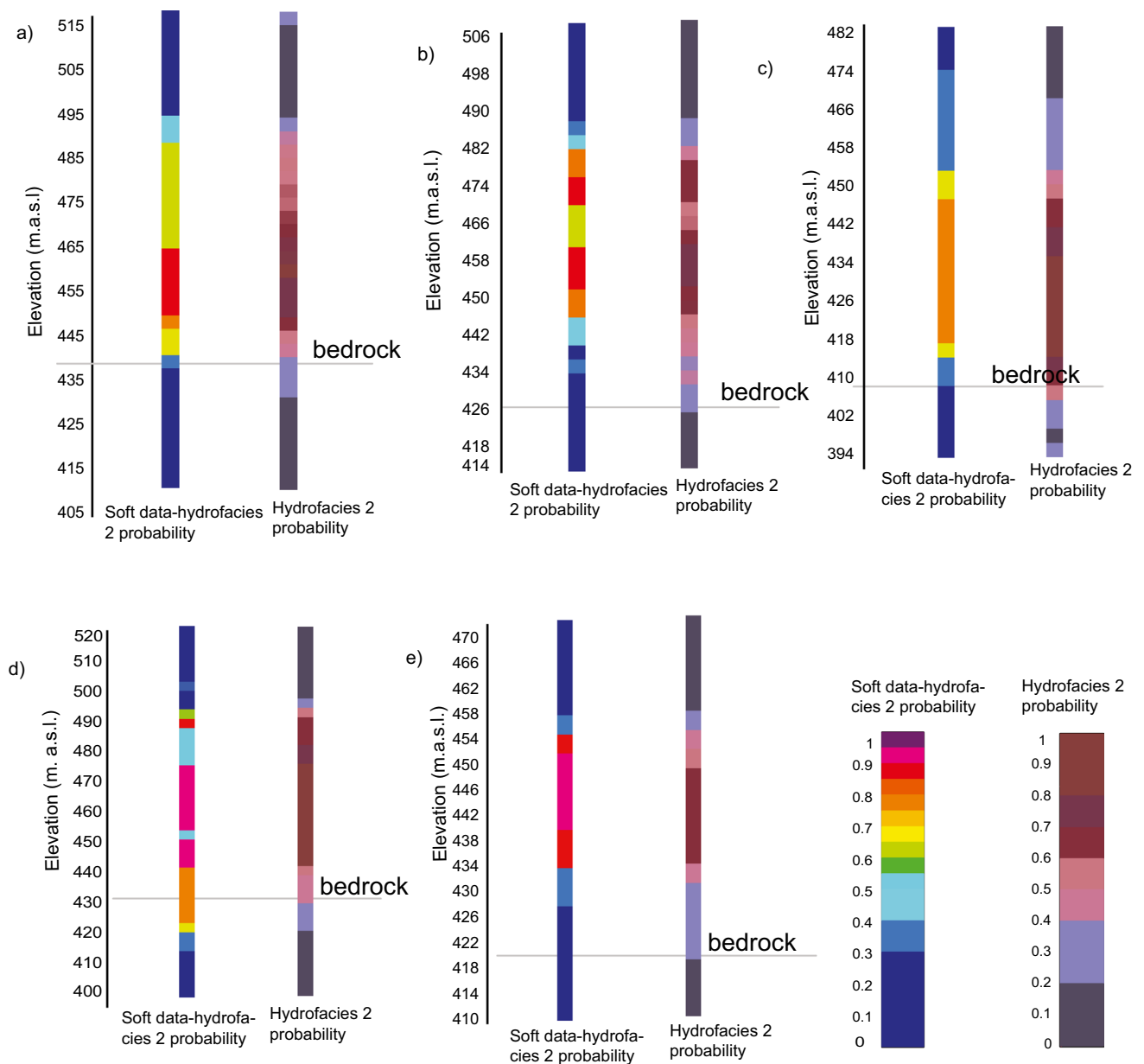
**Glacial aquifer system and heterogeneity**

Spatial patterns hydrofacies 2 probability varies with depth (Fig. 8). The horizontal slices reveal different zones of hydrofacies 2 probability: low (<0.2), low-medium (from 0.2 to 0.4), medium (from 0.4 to 0.6) and medium to high probability (>0.6). Low hydrofacies 2 probability at elevation 486 m indicates a shallow, clay-rich confining unit (clay, silt, and till units; Fig. 8a). The deepest slice at 386 m shows shale-dominant bedrock units (Fig. 8f). Low-medium hydrofacies 2 probability values indicate heterogeneous units, whereas high hydrofacies 2 probability values indicate coarse sediments deposited in a buried valley and other glacial sand bodies. High hydrofacies 2 probabilities are oriented N–S at elevations of 473, 444 and 432 m (Fig. 8b–d). The interconnectedness of high hydrofacies 2 probability varies spatially: it is localized and discontinuous in the eastern and western parts of the study area. High hydrofacies 2 probability is a productive aquifer composed of sand and gravel deposits in channel deposits and buried valleys.

The horizontal slices (Fig. 8), W–E profiles (Fig. 9), and N–S profiles (Fig. 10) show three types of aquifer connectivity: (1) connected N–S and W–E trending paleovalley



**Fig. 6** Locations of pseudo wells, sources of well hydrographs, and profiles between monitoring wells



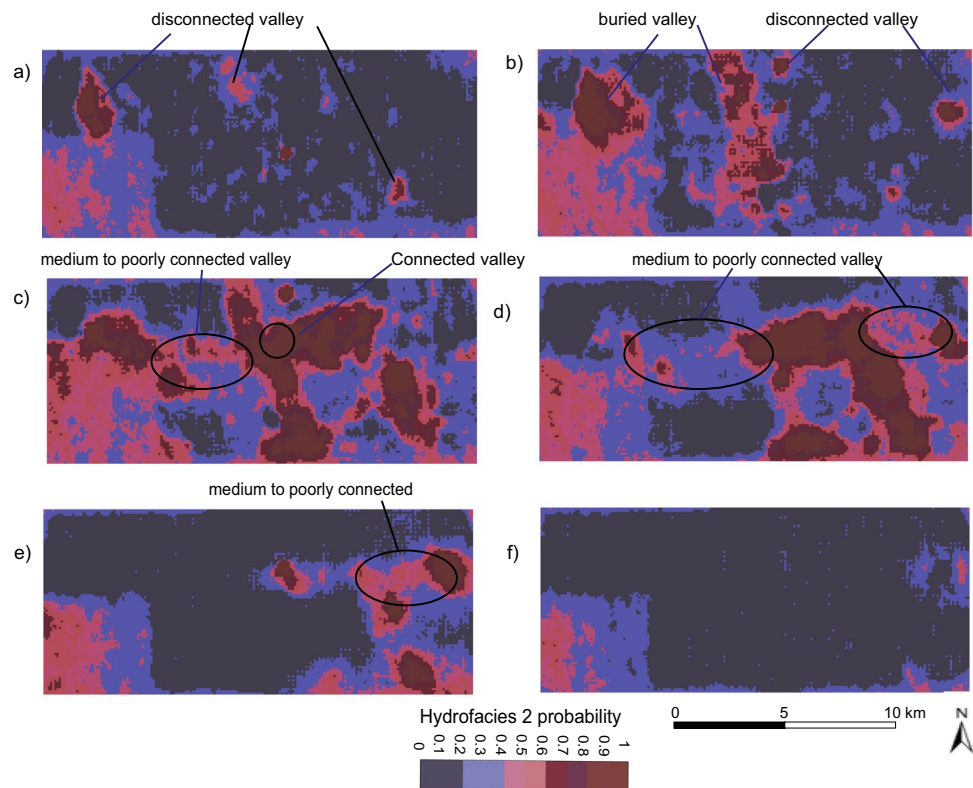
**Fig. 7** Comparison of hydrofacies 2 probability from MPS and soft data probability; the borehole locations are shown in Fig. 6 as “Fig. 7a–e”

aquifers (Fig. 8c), (2) medium to poorly connected valley aquifer type where heterogeneous units (medium hydrofacies 2 probability) are found between high hydrofacies 2 probability (Fig. 8c–e) and (3) isolated valley aquifer type where the aquifer is bounded by aquitard units (Fig. 8a, b). The depths of confining units (low hydrofacies 2 probability at shallow depth), aquifer zones (high hydrofacies 2 probability), and bedrock (low hydrofacies 2 probability) in the profile correspond well to the lithological borehole logs. The top layer is the main confining unit in the study area, which is underlain by the aquifer materials, as seen in the W–E and N–S profiles (see Figs. 9, 10 and 11). The paleovalley

aquifers have a high probability of hydrofacies 2 (composed of permeable coarse-grained sediments). The aquifer materials are not continuous, and there are heterogeneous zones (hydrofacies 2 probability from 0.4 to 0.6). The thickness of the aquifer varies spatially. The heterogeneous zones consist of clay, silt, and coarse-grained sediments such as sand and gravel. The units below the aquifer materials are till and shale units with a low hydrofacies 2 probability (<0.2).

In general, the profiles (Figs. 9, 10 and 11) show the presence of heterogeneous, clay-rich sediments and complex hydrostratigraphic units. The aquifer zone has a variable thickness, limited spatial extent, and is discontinuous. The

**Fig. 8** Horizontal slice view of hydrofacies 2 probability from MPS **a** 486 m **b** 473 m, **c** 444 m, **d** 432 m, **e** 410, **f** 386 m



thickness of the confining unit is also variable, resulting in complex confining conditions. Figures 10 and 11 show that aquifers are locally exposed to the land surface and thus act as a direct local recharge zone.

### Hydraulic conditions and connections between aquifers

All monitoring wells in the study area show groundwater-level fluctuations in response to irrigation pumping. During summer months, irrigation pumping occurs intermittently for a period lasting less than 80 days. The magnitude and rate of drawdown during this period, as well as the subsequent recovery of groundwater levels, relate to variable aquifer conditions (confined and unconfined), lateral extents, aquifer-to-aquifer connectivity, and other aquifer characteristics (Butler and Liu 1991; Butler et al. 2013, 2021; Korus 2018). Differences in the patterns, magnitudes, and rates of drawdown and recovery highlight important spatial variations in the aquifer framework. As such, evidence from well hydrographs is used to qualitatively assess the hydrofacies probability model (Fig. 12).

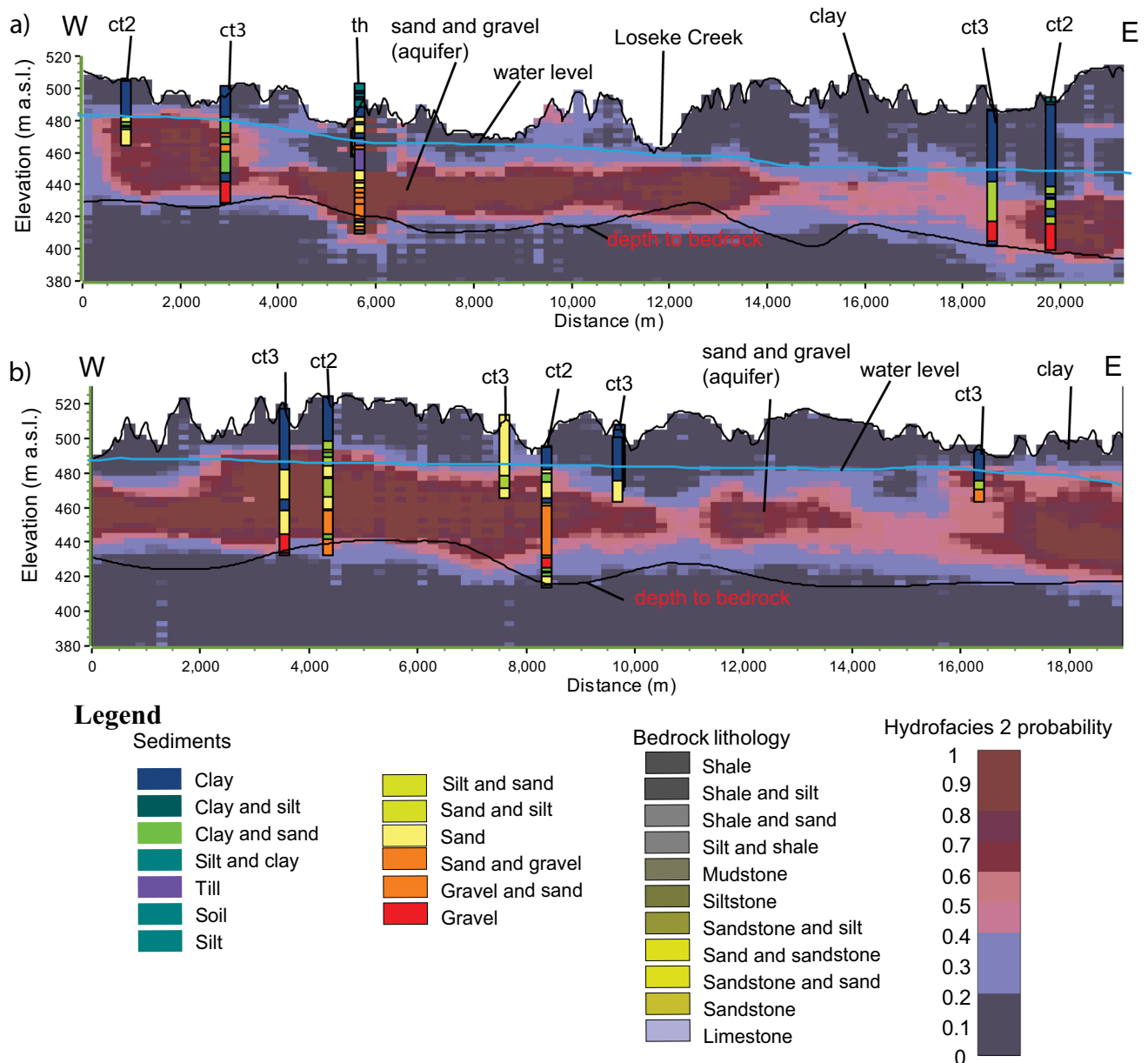
The hydrograph for well G-032023 is typical of wells completed in the N–S paleovalley aquifer (Fig. 13). Water-level drawdown of 5–8 m occurs over several months. This steady drawdown is punctuated by 3–5-day periods of rapid (about 1 h) drawdown of more than 10 m, followed by similarly rapid

recovery. The long-term declines in water level could be a result of the combined drawdown from multiple nearby irrigation wells.

The shorter, rapid periods of drawdown record the development of a seepage face in the filter pack, which is a common occurrence in wells that are screened in unconfined aquifers (Rushton 2006; Chenaf and Chapuis 2007; Behrooz-Koohenjani et al. 2011; Houben 2015a, b). Following the irrigation season, the length of the groundwater-level recovery is only a small fraction of the pumping period (Fig. 13). This rapid recovery is evidence of a laterally constrained aquifer (Butler et al. 2021). Indeed, this well is bounded by low-permeability units in a W–E direction and is located very near the western boundary (Figs. 6, and 12a).

Well G-161226 is located on the eastern margin of the same N–S paleovalley aquifer, where it intersects the W–E paleovalley aquifer (Fig. 6). The hydrograph for this well is similar to that of G-032023, except it lacks evidence of filter-pack dewatering and its recovery period is slightly longer. G-161226 is bounded by medium (from 0.4 to 0.6) hydrofacies 2 probability, so the longer recovery period could reflect lower transmissivity or lack of boundary influence. The lack of dewatering suggests that the aquifer is confined, which agrees with the hydrofacies model (Fig. 12a).

The well hydrographs from G-147342 and G-161227 (Fig. 13) are typical of wells screened in the W–E paleovalley aquifer. The hydrographs show drawdown varying between 8 and 15 m and recovery times of about 50 days.



**Fig. 9** W-E profiles of hydrofacies 2 probability in the northern part of the study area at different locations. Test holes (th) are hard data; Borehole category 2 (ct2) and borehole category 3 (ct3) are soft data.

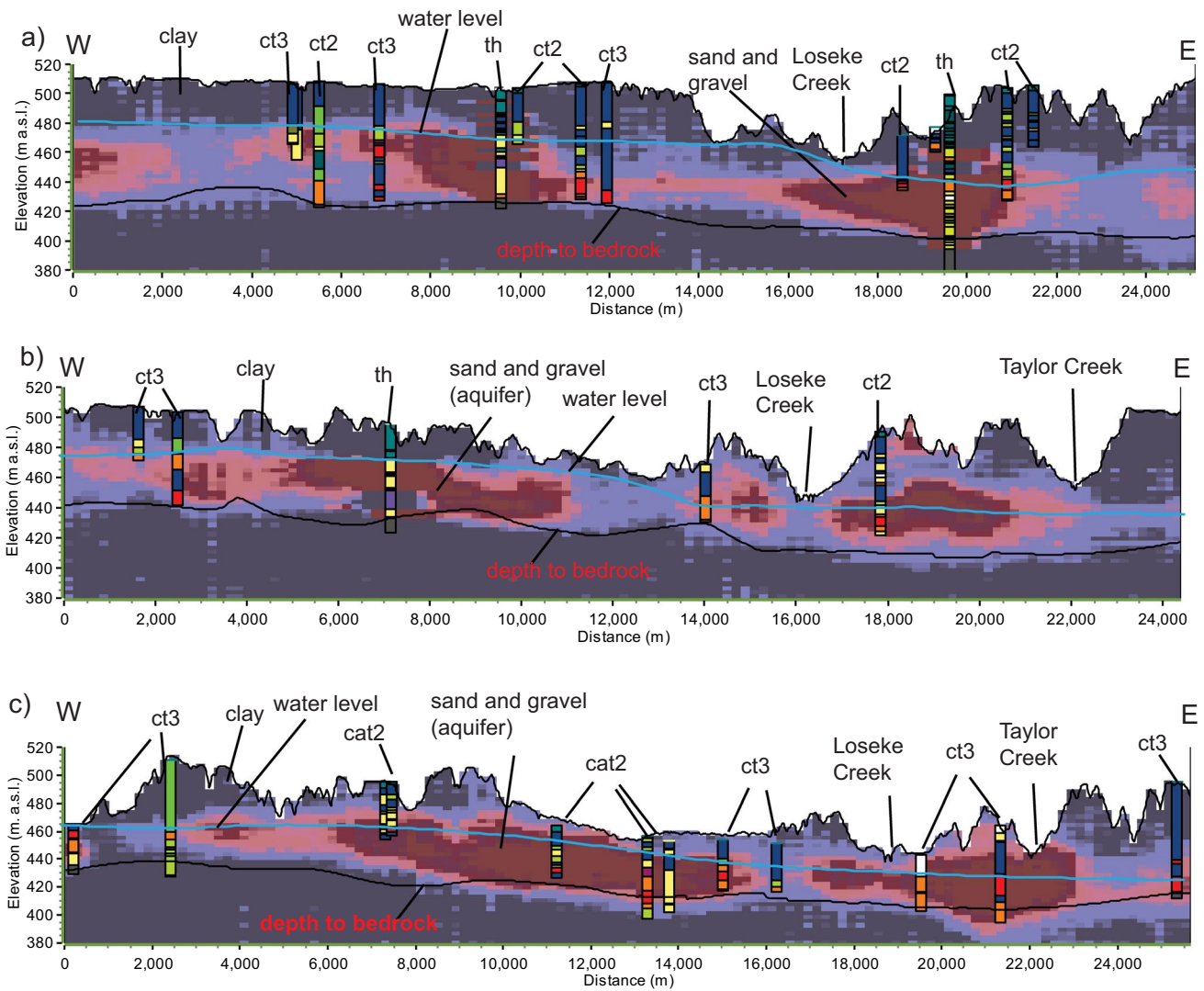
The water level refers to spring 2017. Location of the profile is shown in Fig. 2. as “Fig. 9(a–b)”

The hydrofacies probability shows a high hydrofacies 2 probability ( $>0.7$ ) between these two wells and throughout the 6-km-wide aquifers, which matches with coarse sediments shown in borehole lithological logs (Fig. 12b). It also shows a confining layer above the aquifer. The groundwater-level fluctuations are consistent with the interpretation of confined conditions, interconnections between wells in the paleovalley, and minimal influence of aquifer boundaries.

Well G-133348 lies in a zone of significant heterogeneity east of the W–E paleovalley aquifer (Fig. 12b). Groundwater

level declines and recovery times differ significantly from those described previously. Recovery is incomplete following each irrigation season. Annual peak water levels in the well have declined by about 6 m over the past 6 years. Hydrofacies 2 probability is low (0.2–0.4) and the aquifers in this area are poorly connected to the W–E paleovalley aquifer (Figs. 8 and 12b). Borehole logs also show heterogeneous and thin coarse sediments in the vicinity of G-133348.

Monitoring wells G-149812 and G-051317 are located in the middle part of the N–S paleovalley aquifer (Fig. 6). The



**Fig. 10** W-E profiles of hydrofacies 2 probability in the middle and southern (downstream reaches) of the study area at different locations; Legend presented in Fig. 9. Test holes (th) are hard data; Borehole

category 2 (ct2) and borehole category 3 (ct3) are soft data. The water level refers to spring 2017. Location of the profile is shown in Fig. 2 as “Fig. 10(a–c)”

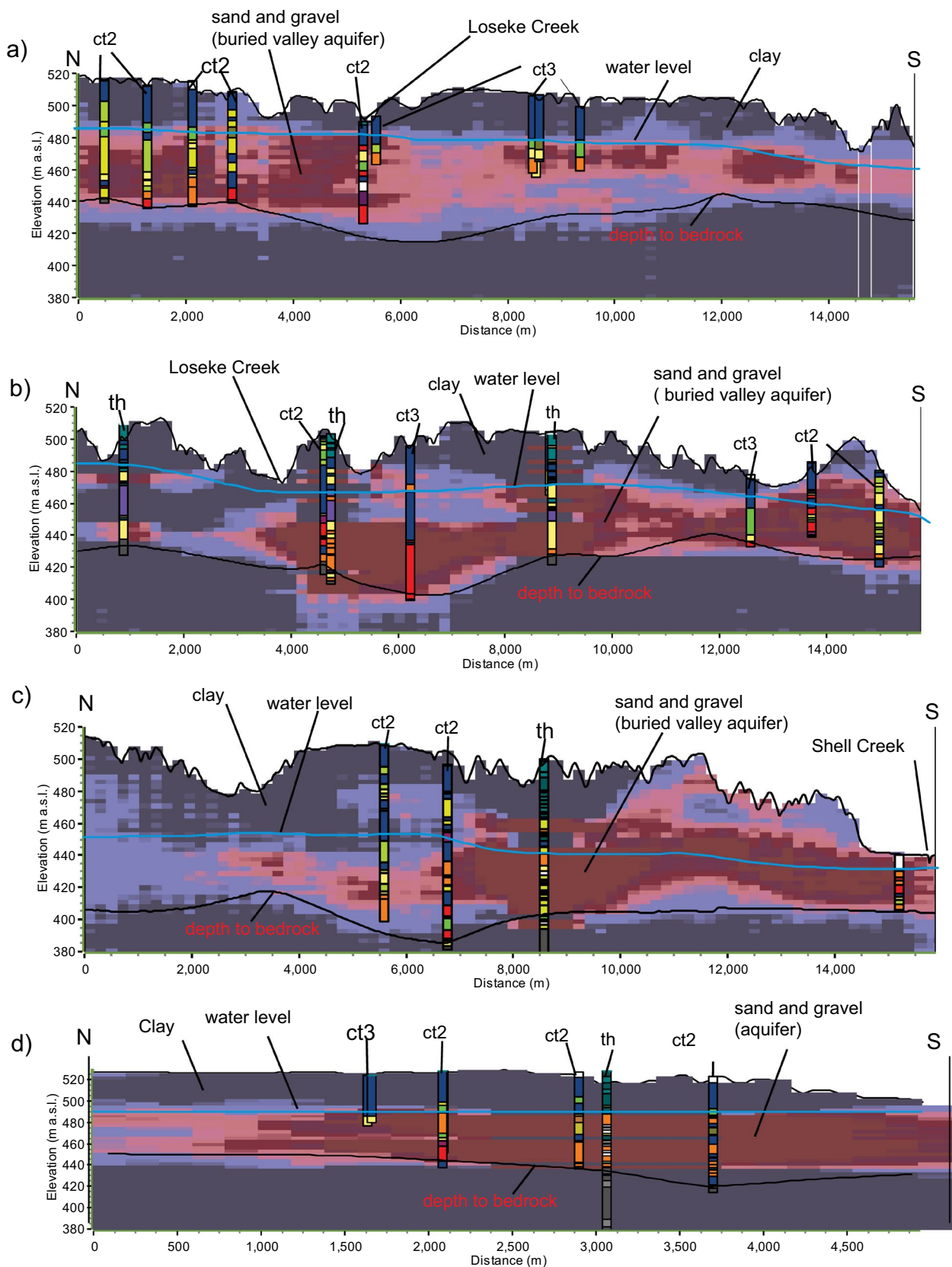
hydrographs show evidence for filter-pack dewatering, indicating they tapped an unconfined aquifer. The hydrographs (Fig. 14) show that the aquifer has fully recovered before the next irrigation season. Eastward, near Loseke Creek (Fig. 12c), the water-level surface drops abruptly, indicating a hydraulic boundary. The location of this boundary corresponds to a heterogeneous zone separating the E–W paleovalley from deposits farther east. On the easternmost side of this profile, well G-173012 shows incomplete recovery between irrigation seasons, similar to other wells in this heterogeneous zone.

The well hydrograph from G-126483 is typical of wells in the heterogeneous zone west of the N–S paleovalley (Fig. 14). It shows a high drawdown (~12 m) and rapid recovery (~5 days; Fig. 14). It also shows rapid dewatering of the filter pack. This well hydrograph is characteristic of a thin unconfined aquifer

with low transmissivity and enclosed by hydraulic boundaries. The hydrofacies model (Fig. 12d) shows a thin high hydrofacies 2 probability (>0.6) bounded by heterogeneous hydrofacies 2 probability (probability ranges between 0.2 and 1.0). It also shows a poor connection with the N–S paleovalley aquifer (Fig. 12d).

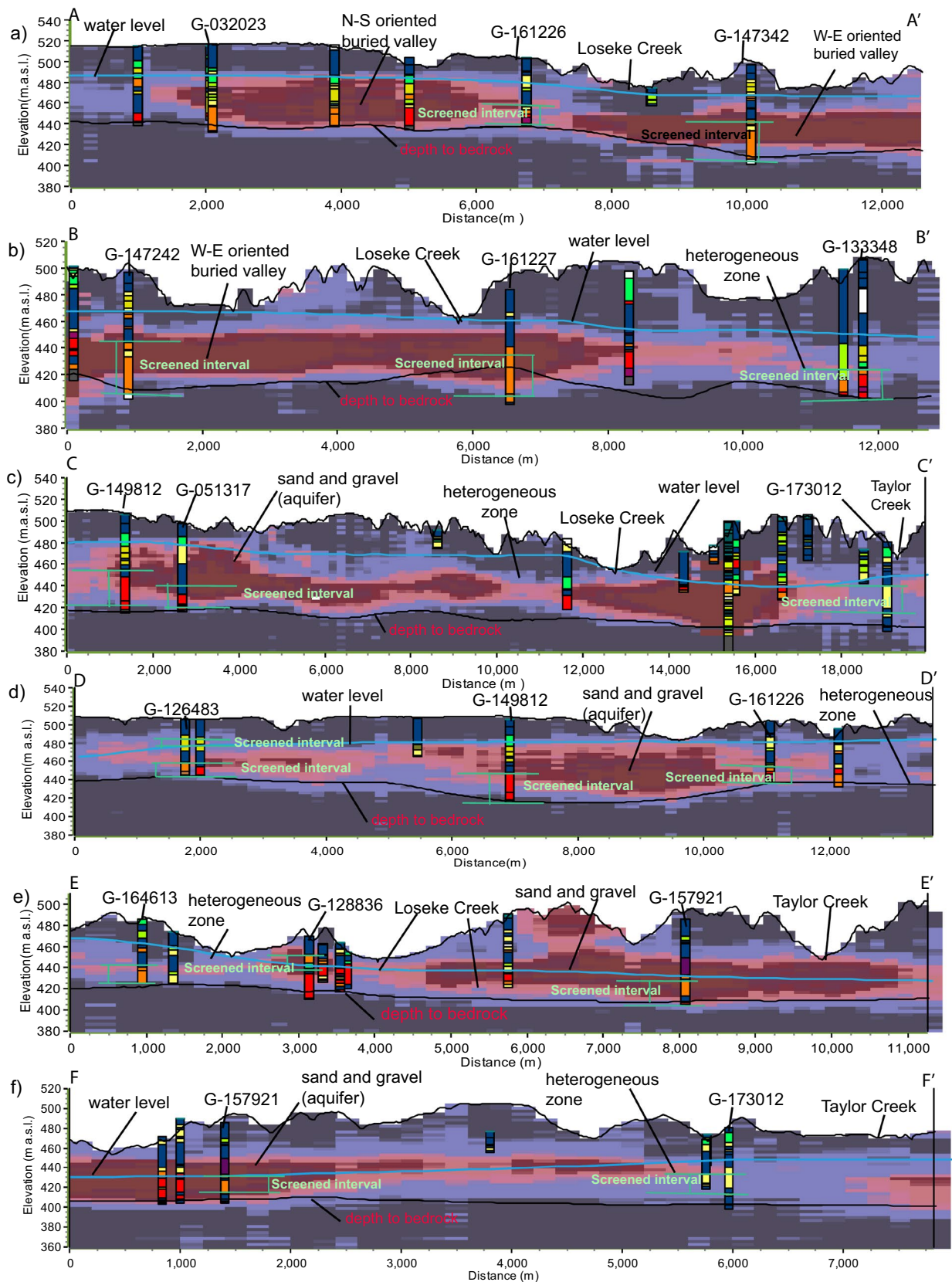
**Connections between streambed and aquifers**

Hydrofacies 2 probability indicates spatial variability of streambed and aquifer connectivity (Figs. 9, 10, 11 and 12). Upstream reaches of the streams show low hydrofacies 2 probability between the stream bank, streambed, and aquifer, indicating a poor connection to the aquifer (Fig. 12a–c). In downstream reaches near the stream outlets, however, there is medium to high (>0.6) hydrofacies 2 probability between



**Fig. 11** N-S profiles of hydrofacies 2 probability at different locations. Legend is presented in Fig. 9. Test holes (th) are hard data. Borehole category 2 (ct2) and borehole category 3(ct3) are soft data.

The water level refers to spring 2017. Location of the profile is shown in Fig. 2. as “Fig. 11(a–d)”



**Fig. 12** Profiles of probability of hydrofacies from MPS between groundwater monitoring wells, a) A-A' b) B-B' c) CC' d) D-D' e) E-E' f) F-F'. Location of the profile is shown in Fig. 6. Legend presented in Fig. 9. The water level refers to spring 2017

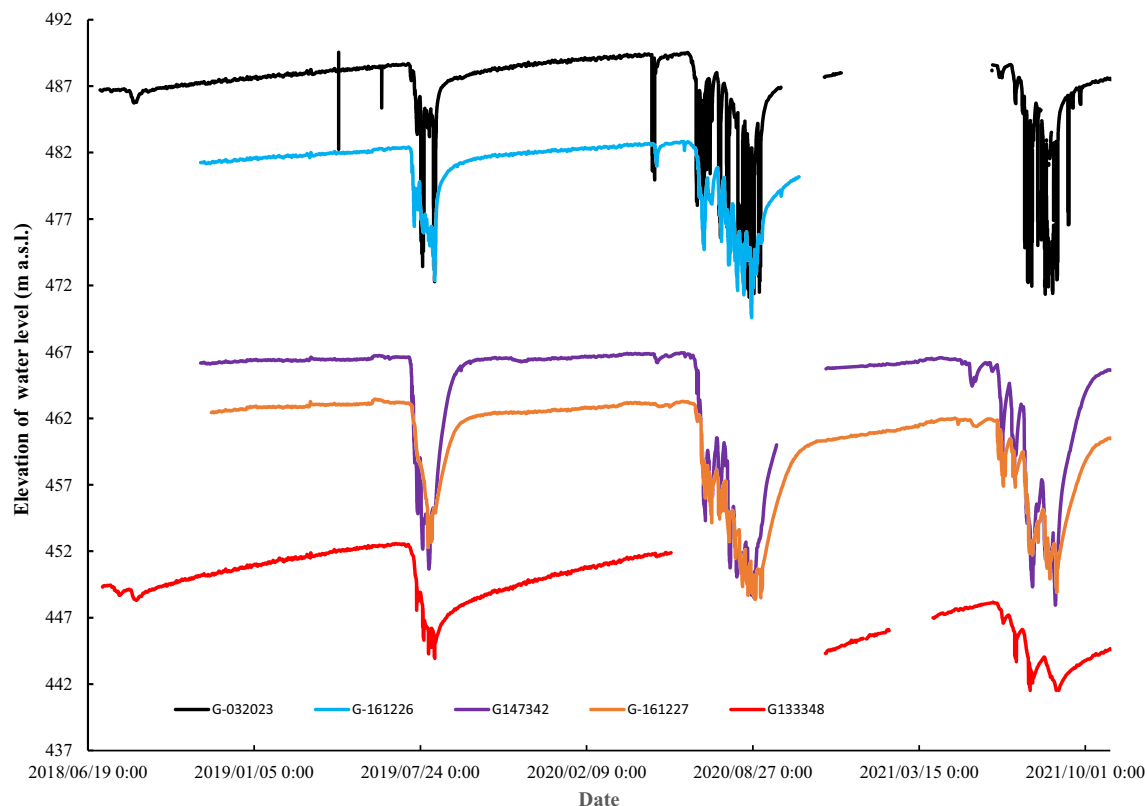
the aquifer and the bed of Taylor Creek (Fig. 12e). Loseke Creek's stream bed also shows medium (from 0.4 to 0.6) hydrofacies 2 probability. Furthermore, there are local connections of streambed and aquifer in upland areas between streams (Fig. 12e).

The hydrographs for wells G-126483 and G-157921, which are located near the stream outlets (Fig. 12e, f), are unlike any hydrographs in the upstream reaches (Figs. 13 and 14). Both wells show evidence of pumping-induced drawdown, but water levels recover rapidly and completely. There is little to no long-term drawdown of the water table in the vicinity of these wells during the irrigation season, despite evidence of large-magnitude drawdown in wells G-164613 and 173012, which are located just a few kilometers away. These observations strongly suggest that the aquifers in the downstream area are compartmentalized and are affected by recharge boundaries. It also suggests that there may be localized pathways for rapid recharge in upland areas between streams.

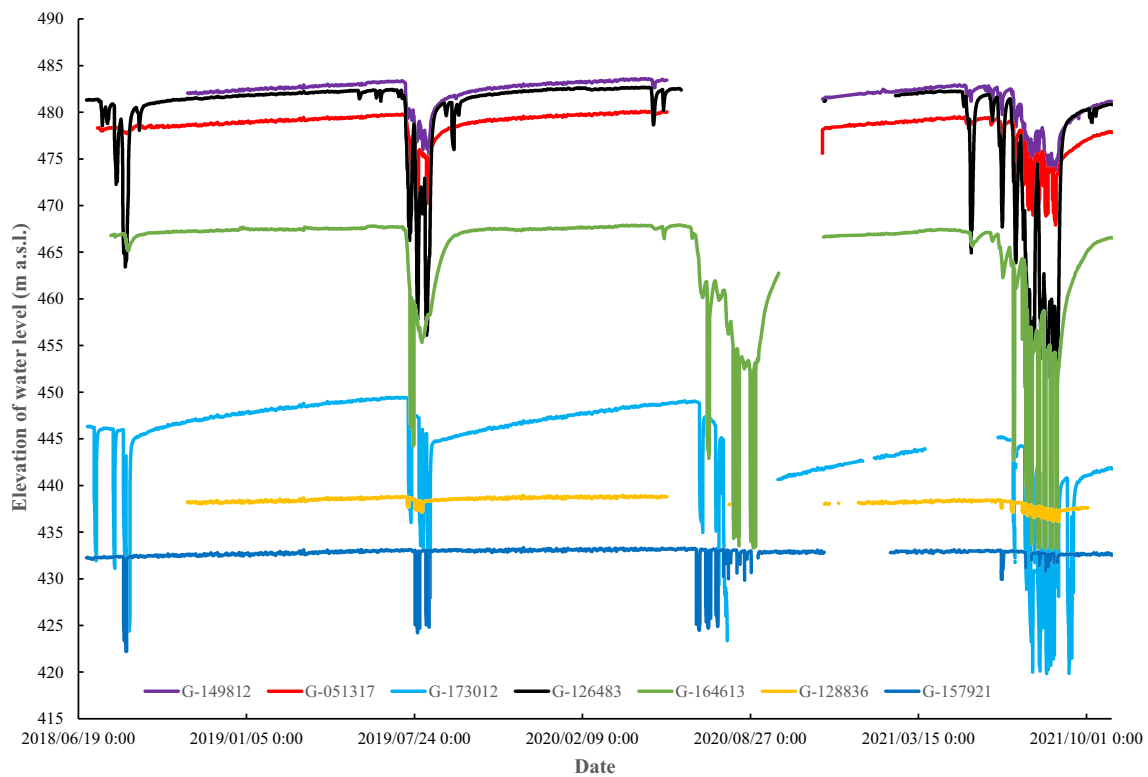
### Delineation of groundwater management zones

Seven groundwater management zones were developed based on hydrofacies probability and hydrograph characteristics

(Fig. 15). Table 1 shows the detailed characteristics of each zone as well as the management issue. Zone 1 is an unconfined aquifer, while zone 2 is heterogeneous and has abrupt variations between confined and unconfined aquifers. The main management issue in zone 2 is local well interference. The horizontal slice (Fig. 15, zones 3–4) demonstrates the connection between N–S and E–W-oriented palaeovalley aquifers. The decline in groundwater level in connected valley aquifers is most likely the result of multiple well interferences caused by nearby irrigation well pumping (Fig. 15, zone 4). Well interferences increase groundwater-level drawdown and affect well yield for crop production. Zone 3 indicates a narrow, bounded, unconfined aquifer with high hydrofacies 2 probability. Excessive drawdown can be seen in the hydrographs of the wells in zone 3 located near the boundaries. Zones 3 and 4 can be managed as a single aquifer. Future well permits and siting should consider the effects of well interferences and sustainable yield in these zones. Variability in groundwater level declines and recovery in nearby wells indicate a weak connection between aquifers (Fig. 15, zones 5–6). These zones are characterized by extreme heterogeneity that affects direct aquifer recharge. Well permitting in zones 5 and 6 should consider the impact of high drawdown during



**Fig. 13** Hydrographs from observation wells showing drawdown and recovery 2018–2022 in the upstream reaches of the study area. See Fig. 12a, b for locations of wells



**Fig. 14** Hydrographs from observation wells showing drawdown and recovery during 2018–2021 in the middle and downstream reaches of the study area. See Fig. 12c–f for locations of wells

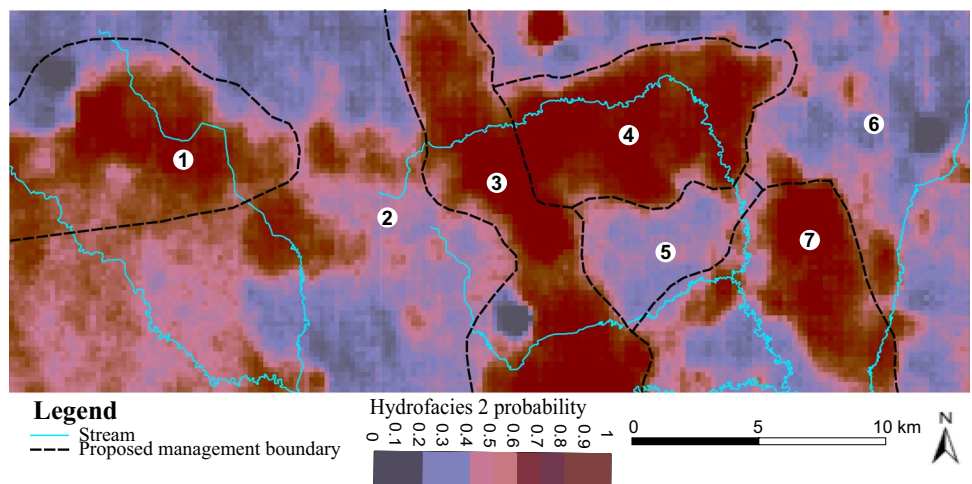
irrigation periods (aquifer depletion) and the disconnected valley’s groundwater potential to support irrigation pumping.

**Discussion**

This paper presents the first MPS-derived hydrofacies model of glacial aquifers in Nebraska. It provides an important test of the applicability of this method to aquifers in this

region and to glacial aquifers in general. The hydrofacies probability model helps answer questions related to aquifer heterogeneity, whereas the groundwater-level hydrographs verify characteristics observed in the hydrofacies model such as aquifer boundaries (no-flow and recharge) and aquifer state (confined vs. unconfined). Paleovalley aquifers, which have a high probability of hydrofacies 2, are the most productive aquifers in the study area. Overall, hydrofacies 2 is heterogeneous and discontinuous. These aquifers

**Fig. 15** Proposed management boundaries with respect to hydrofacies 2 probability, represented as a horizontal slice through the model at 444 m elevation



**Table 1** Management zones, recovery, hydrogeologic characteristics and management issue(s)

| Zone | Primary management issue(s)                 | Hydrogeologic characteristic(s)  | Recovery time (days)                      | Drawdown (m) |
|------|---|--|---|--------------|
| 1    | Unknown                                     | Unconfined   | >30                                       | 8            |
| 2    | Local well interference                     | Heterogeneous, abrupt variations between confined and unconfined, Low transmissivity       | 5–25                                      | 5–12         |
| 3    | Excessive drawdown near boundaries          | Unconfined, laterally constrained  | 20–30                                     | 5–8          |
| 4    | Well interference                           | Confined   | 50  | 8–15         |
| 5    | Well interference, rapid loss of well yield | Extreme heterogeneity, confined, low transmissivity  | 50  | 12–15        |
| 6    | Aquifer depletion                           | Extreme heterogeneity, abrupt variations between confined and unconfined, limited recharge | >285 (incomplete between pumping periods) | 6–8          |
| 7    | Stream depletion                            | Hydrologically connected to stream, local recharge pathways                                | 1–20                                      | <1           |

are hydrologically connected only in one small area. This heterogeneity presents a major challenge for groundwater management because major changes in hydrologic behavior occur over short distances. MPS provides a framework for delineating proposed management boundaries (Fig. 15) and hydrographs reveal the hydrologic behaviors specific to each zone (Fig. 14). Thus, the workflow presented here can be used to create tailored management solutions for highly heterogeneous aquifers. Fluctuations and recovery in groundwater levels are influenced by groundwater pumping, well interference and the nature of the aquifer. The heterogeneity of the aquifer obstructs groundwater flow to wells and if the cone of depression intersects with impermeable layers, significant drops in water levels occur. Some well hydrographs in zone 5, which are typical of wells that extract water from aquifers surrounded by impermeable formations, exhibit abrupt decreases in groundwater levels during irrigation pumping (Korus 2018). The hydrofacies probability profiles (Figs. 11 and 12e) show the existence of a localized aquifer. This localized aquifer is exposed to the land surface that may serve as a favorable location for the implementation of managed aquifer recharge techniques, such as an artificial recharge basin (Knight et al. 2022; Pepin et al. 2022; Uhlemann et al. 2022).

The use of appropriate aquifer and streambed heterogeneity could help to reduce uncertainty in groundwater–stream interaction modeling. The discontinuity and existence of low hydraulic conductivity affect groundwater flow (Åberg et al. 2021). In a heterogeneous aquifer system, the use of a classical model that involves layering a confining-layer system may result in errors in the groundwater model. The results from hydrofacies probability improve hydrostratigraphic conceptualizations and aid in parameterizing groundwater flow models for model calibrations. The hydrofacies 2 probability can be clustered and the relationship between the clustered hydrofacies 2 probability and hydraulic conductivity can be assessed to parameterize the groundwater

model. The K-means clustering method can be used to group hydrofacies probabilities, which can then be used to estimate the hydraulic conductivity for each group. Furthermore, K-means clustering can be used to generate hydrofacies probability zones, and inverse groundwater modeling can be used to estimate hydraulic conductivity for each clustered zone. Marker et al. (2015) used K-means clustering to categorize voxel models of electrical resistivity and clay fraction into hydrostratigraphic zones and estimated hydraulic conductivity for each zone using hydrological calibration.

The heterogeneity of streambed sediment controls the water exchange between streams and groundwater. The hydraulic conductivity of the streambed is more variable in meandering rivers than in straight channels (Abimbola et al. 2020). Fleckenstein et al. (2006) compared stream and groundwater interactions in homogeneous and heterogeneous aquifers and reported that facies distribution affects flux and groundwater levels. Kalbus et al. (2009) investigated the influence of aquifer and streambed heterogeneity on groundwater discharge distribution and reported that aquifer heterogeneity has a larger effect on stream–groundwater interactions than streambed heterogeneity. MPS hydrofacies simulation can help to assess streambed hydraulic conductivity and thickness which are vital for assessing groundwater–stream interaction modeling. The correlation between MPS-generated hydrofacies probability along streams and hydraulic conductivity can be used to assess the spatial variations of hydraulic conductivity of the streambed and streambank. This can help to reduce uncertainty in the results of stream–aquifer interactions modeling. In addition, MPS hydrofacies probability can be used in conjunction with stream coring data to estimate the spatial variation of streambed thickness for the stream–groundwater interactions model. In the upstream parts of the study area, thick confining units are found between the streambed and aquifer. The hydrofacies 2 probability indicates thin clay-rich units between the

streambed and the aquifer, indicating no direct connection between the streams and the aquifer in the middle parts of Loseke and Taylor creeks. This complicates water infiltration through streambeds and causes a delay in stream and groundwater exchange during groundwater pumping, prolonging stream depletion. Near all stream outlets (see Figs. 12e and 15, zone 7), there is a high hydrofacies 2 probability that is exposed to the land surface. This permeable unit can lead to stream depletion as the groundwater level in the aquifer decreases during pumping, or it can provide groundwater contribution to streams. The effects of irrigation pumping on streamflow and ecosystems should be considered in areas where the streambed and aquifer are connected. In general, the streambed hydrofacies probability can be extracted and the relationship between streambed hydraulic conductivity and hydrofacies probability can be established to estimate spatial variability in streambed conductivity.

## Conclusions

In this research, glacial aquifer heterogeneity was simulated to support the groundwater management system in the Shell Creek watershed of eastern Nebraska, USA. Borehole data, training images (TI), and airborne electromagnetics (AEM) were used to simulate aquifer heterogeneity realizations and compute hydrofacies probability at each simulated node of 200 m × 200 m × 3 m. Monitored groundwater heads were used to validate aquifer heterogeneity modeling. The following conclusions were drawn based on the expected value of hydrofacies 2 probability at the simulated node.

- The principal aquifers in the area are two buried valley aquifers that intersect at a right angle. These aquifers are marked by high hydrofacies 2 probability and comparatively high spatial continuity.
- The heterogeneous aquifers consist of hydrofacies 2 probability between 0.4–0.6 and have a variable thickness.
- The paleovalley aquifers are disconnected in some places and bounded by low hydrofacies 2 probability, which can cause significant drawdown when a cone of depression intersects this low hydrofacies 2 probability area.
- Thin layers are resolved well in the vicinity of hard data, resulting in an abrupt change of aquifer framework near these grid nodes.
- Hydrofacies 2 probability shows a poor connection between streambank, streambed and aquifer at upstream reaches of the streams. In downstream reaches near the stream outlets, however, there is medium to high (> 0.6) hydrofacies 2 probability between the aquifer and streambed.

- The well hydrographs show that groundwater responds differently to pumping in upstream and downstream reaches, particularly water levels recover faster near stream outlets in some wells than the monitoring wells located upstream.
- The 3D hydrofacies 2 probability at the simulated nodes and well hydrographs are essential for delineating groundwater management zones, prioritizing future well-monitoring locations and identifying a potential site for managed aquifer recharge.

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## Declarations

**Conflict of interest** The authors declare that they have no conflict of interest.

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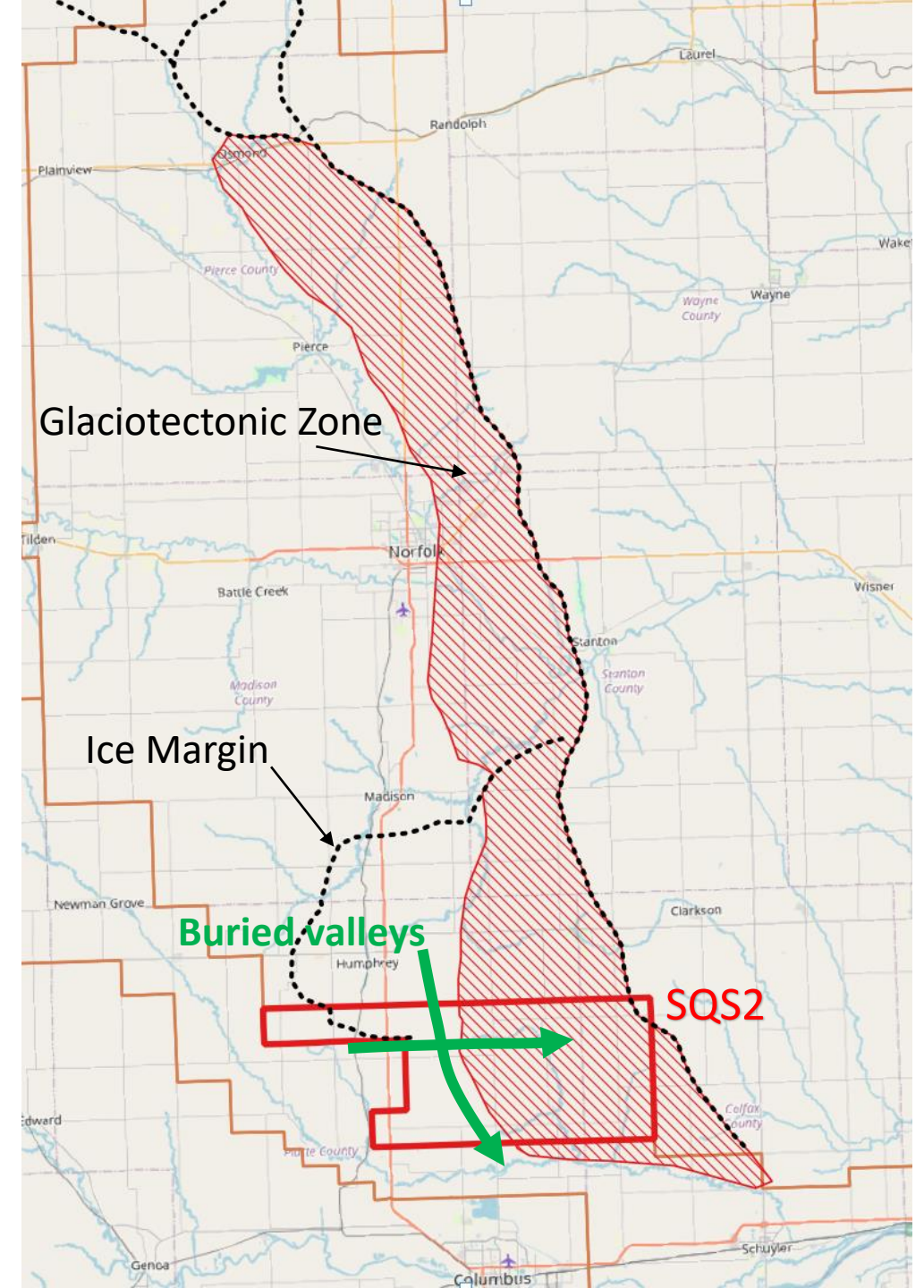
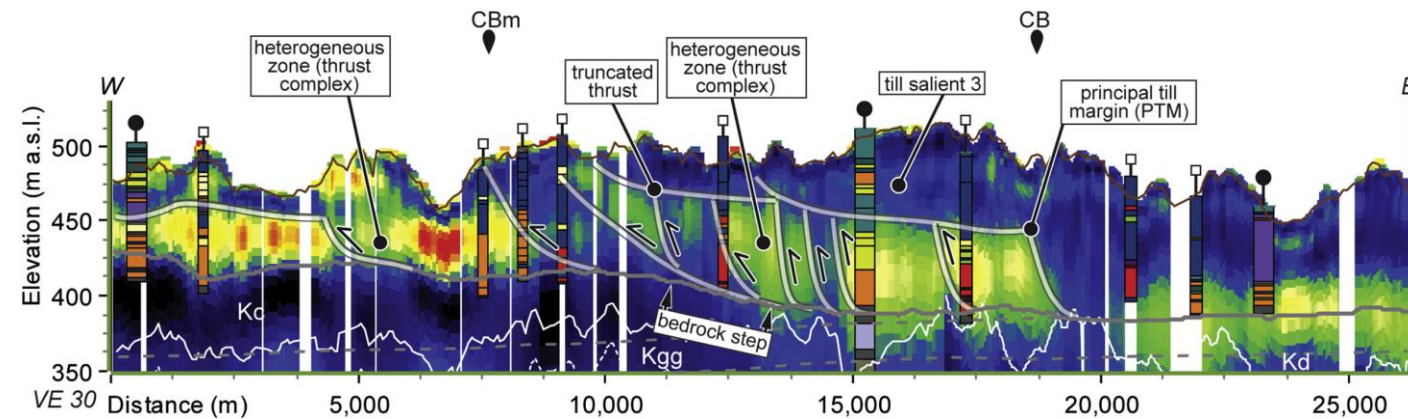
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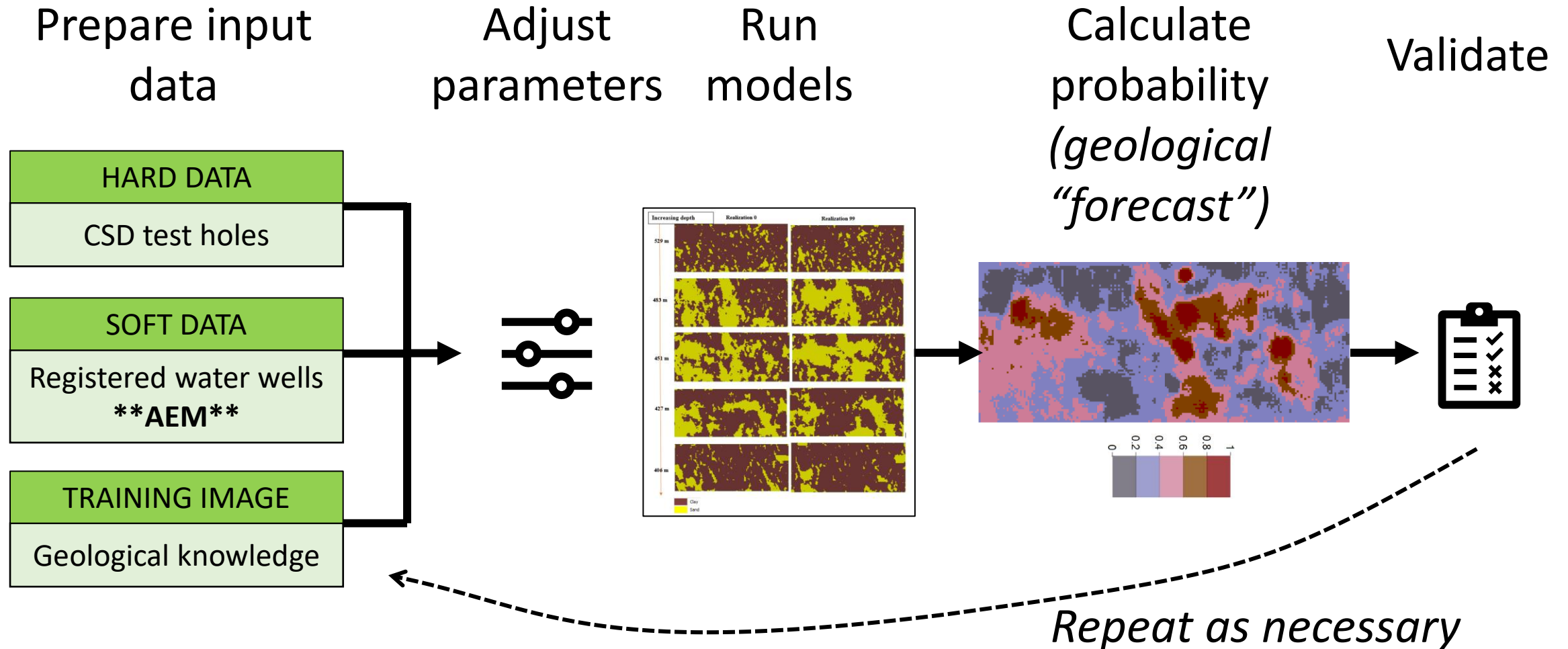
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# Geological complexity of the SQS2 area

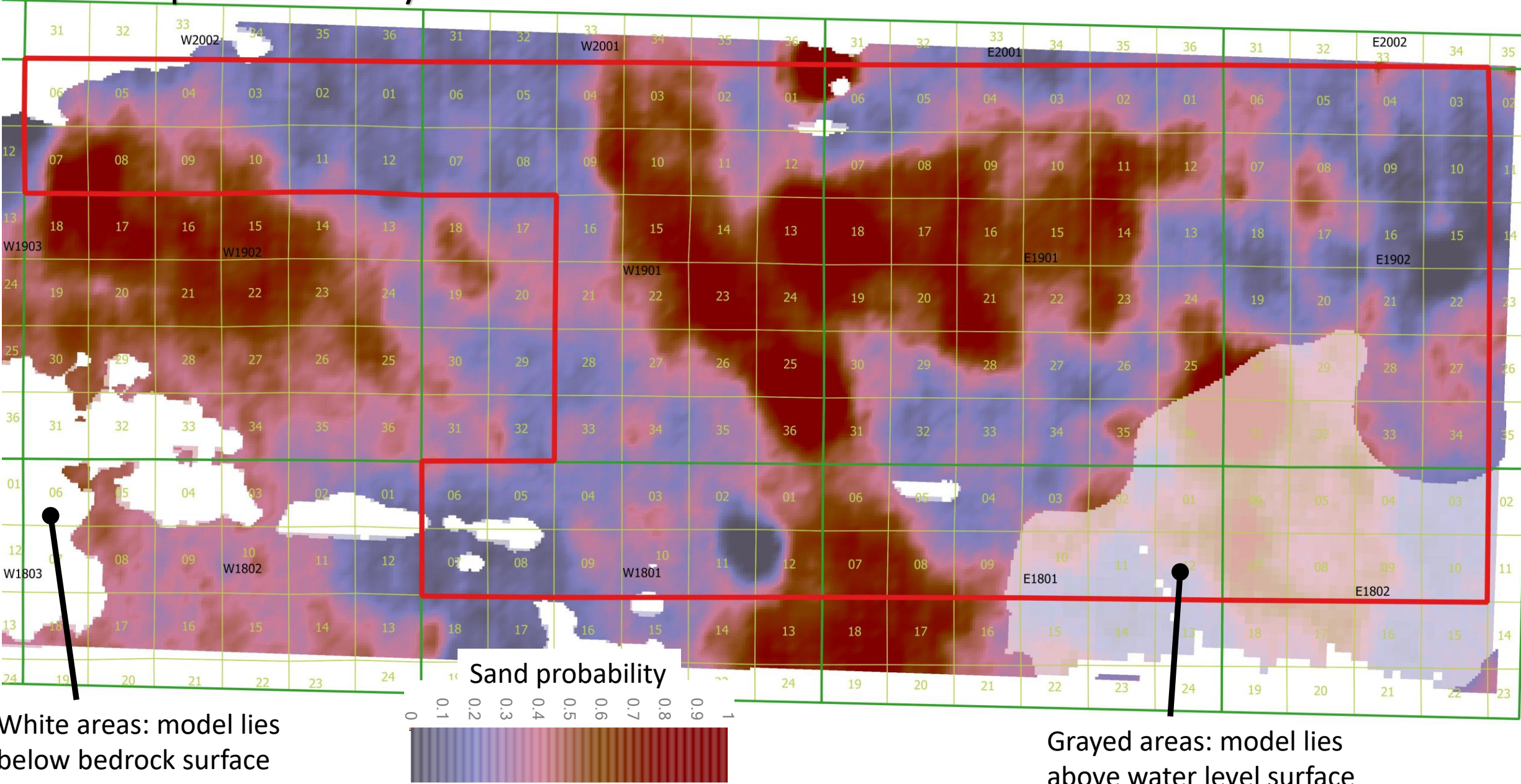
- Multiple till sheets & salients
- Glaciotectonic deformation (folding, faulting)
- Intersecting buried valleys
- Juxtaposed aquifers (High Plains & glacial aquifers)



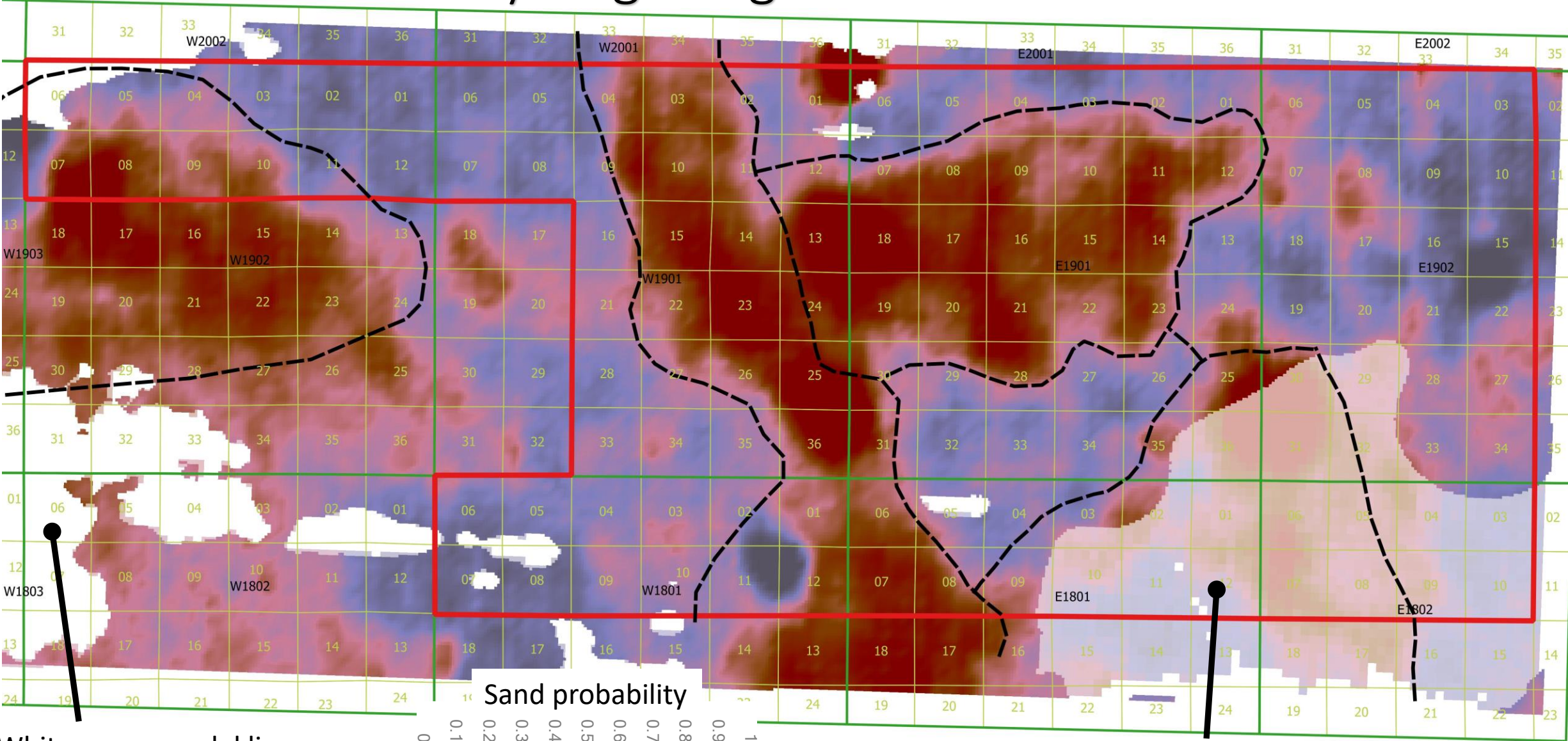
# Hydrostratigraphic Modeling Method



# Sand probability: model slice at 1457 feet above sea level



# Hydrogeologic boundaries

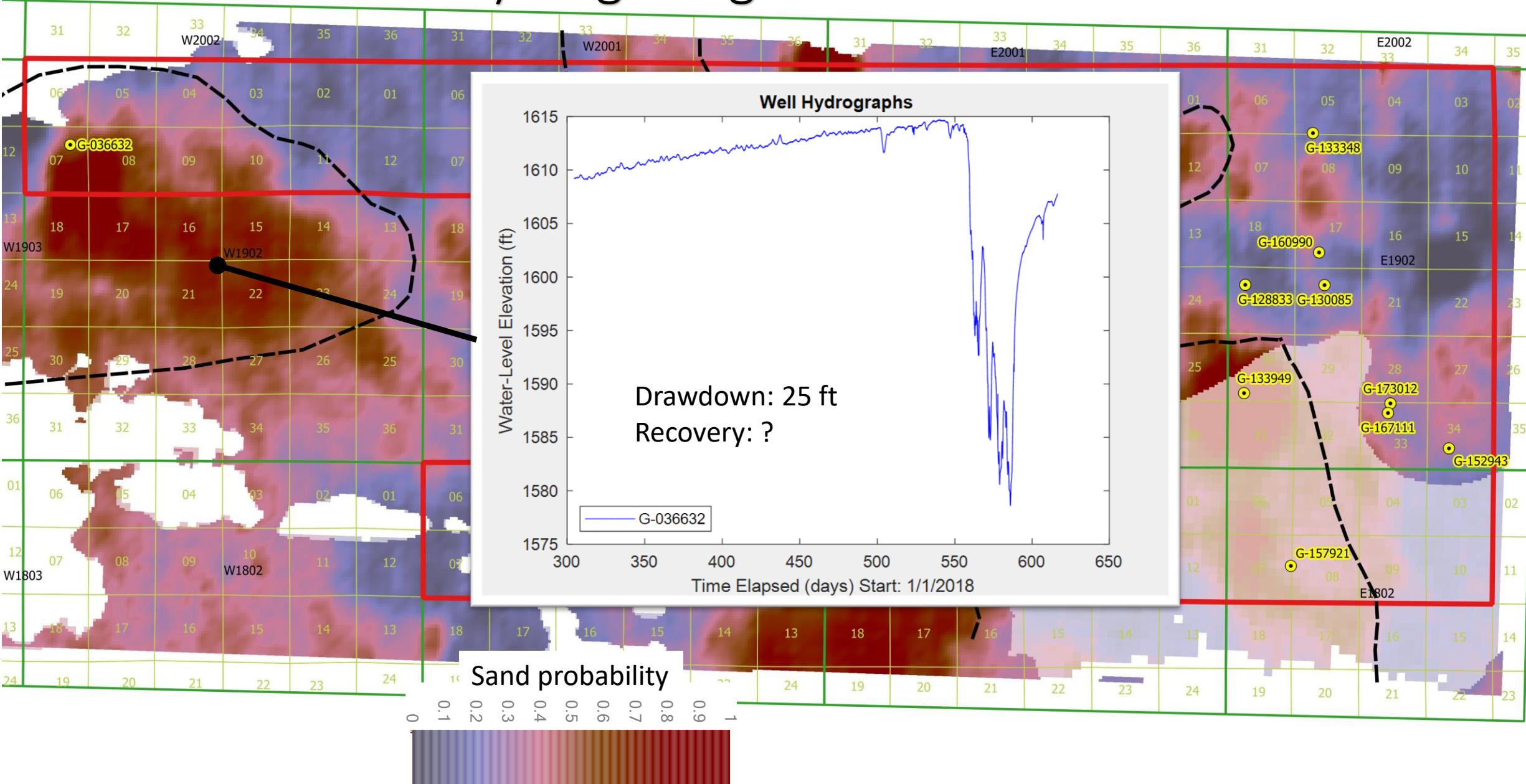


White areas: model lies below bedrock surface

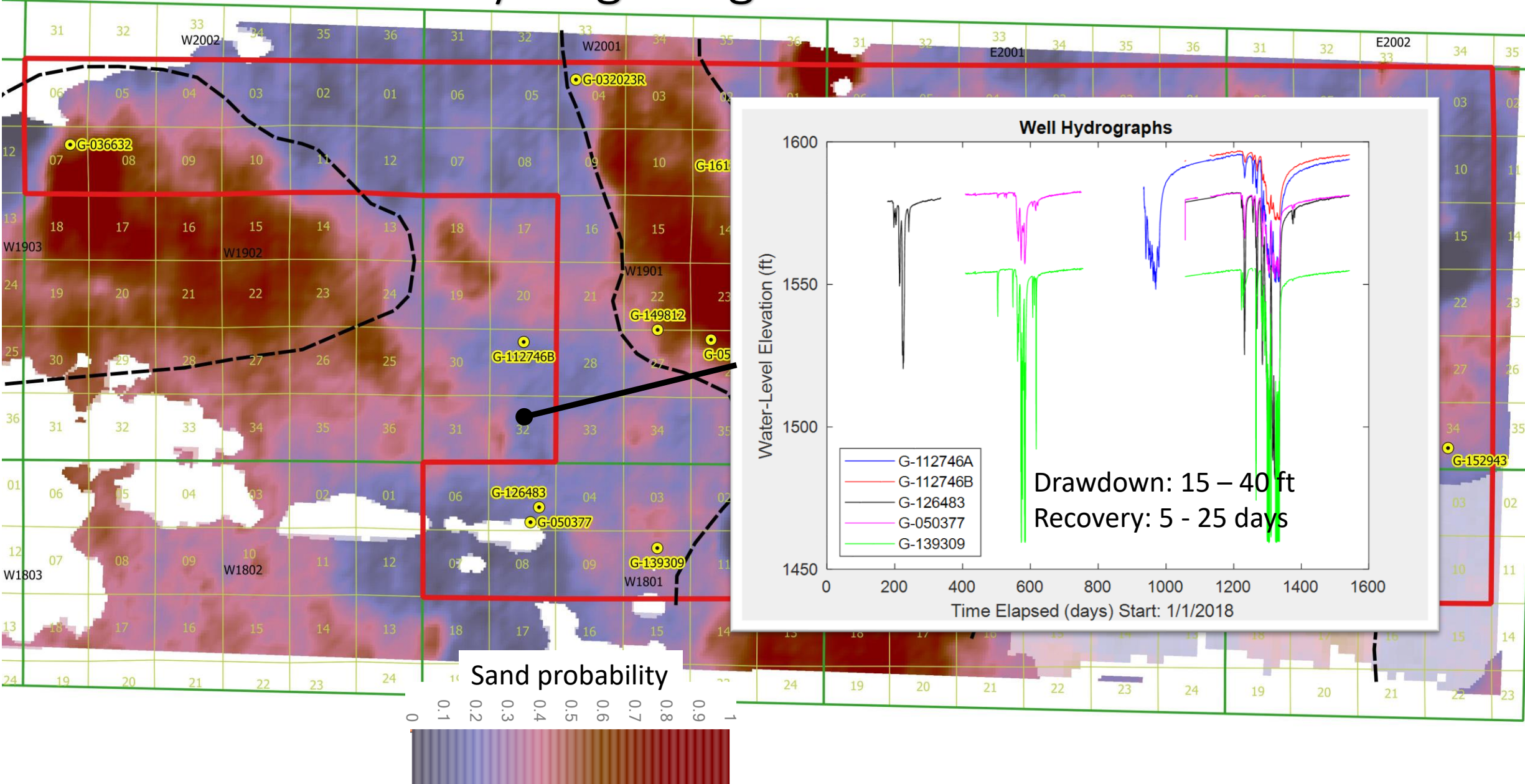


Grayed areas: model lies above water level surface

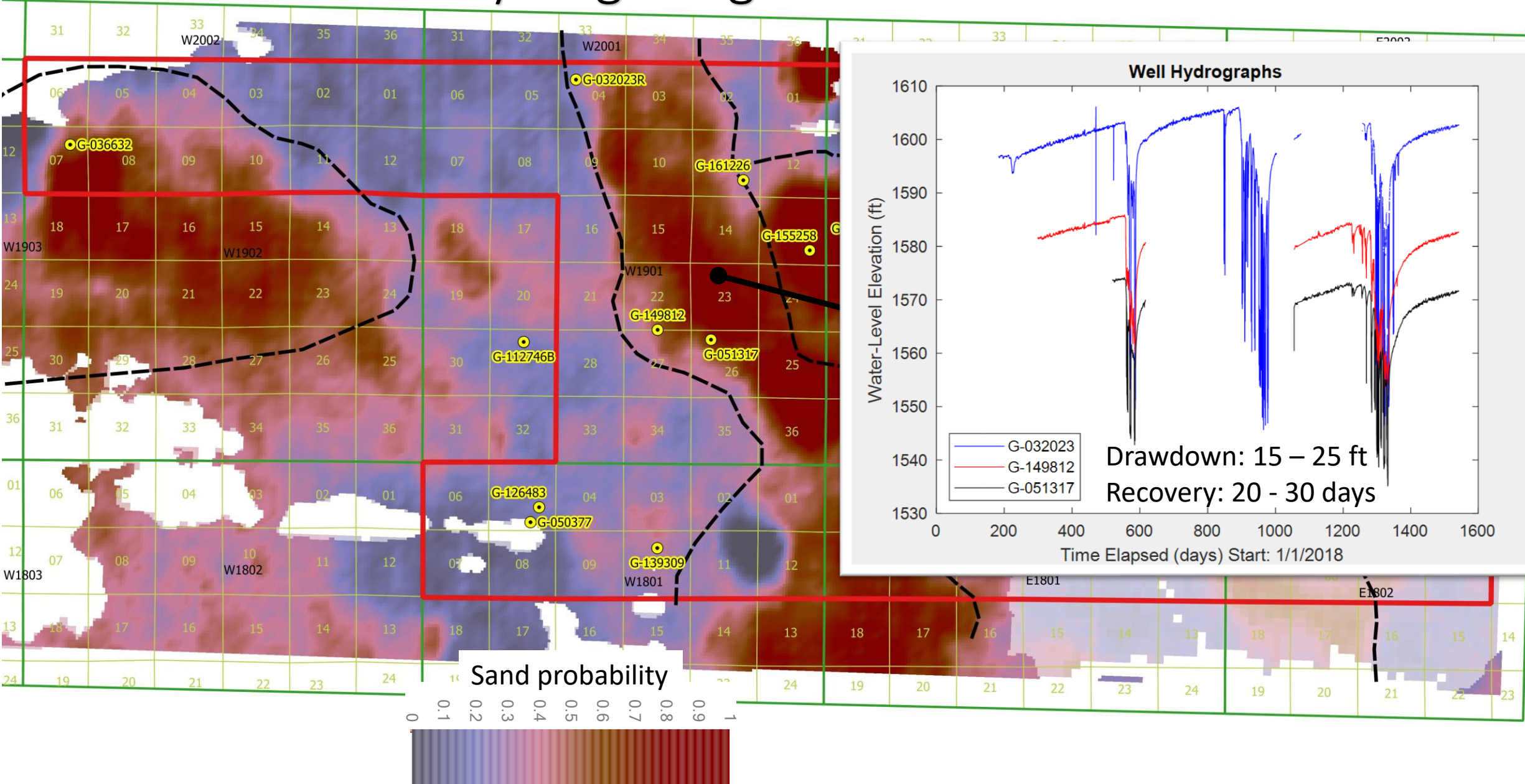
# Hydrogeologic boundaries



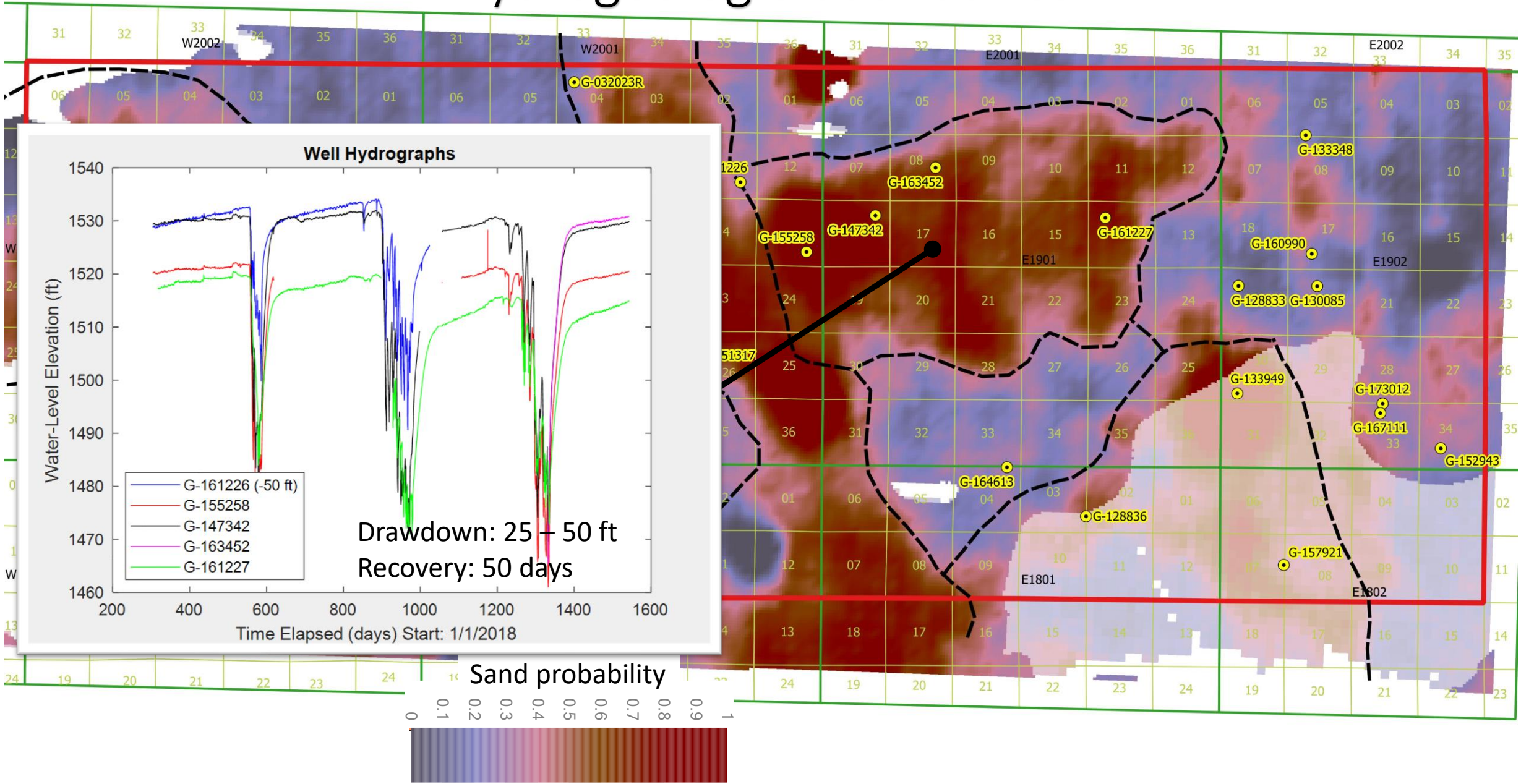
# Hydrogeologic boundaries



# Hydrogeologic boundaries

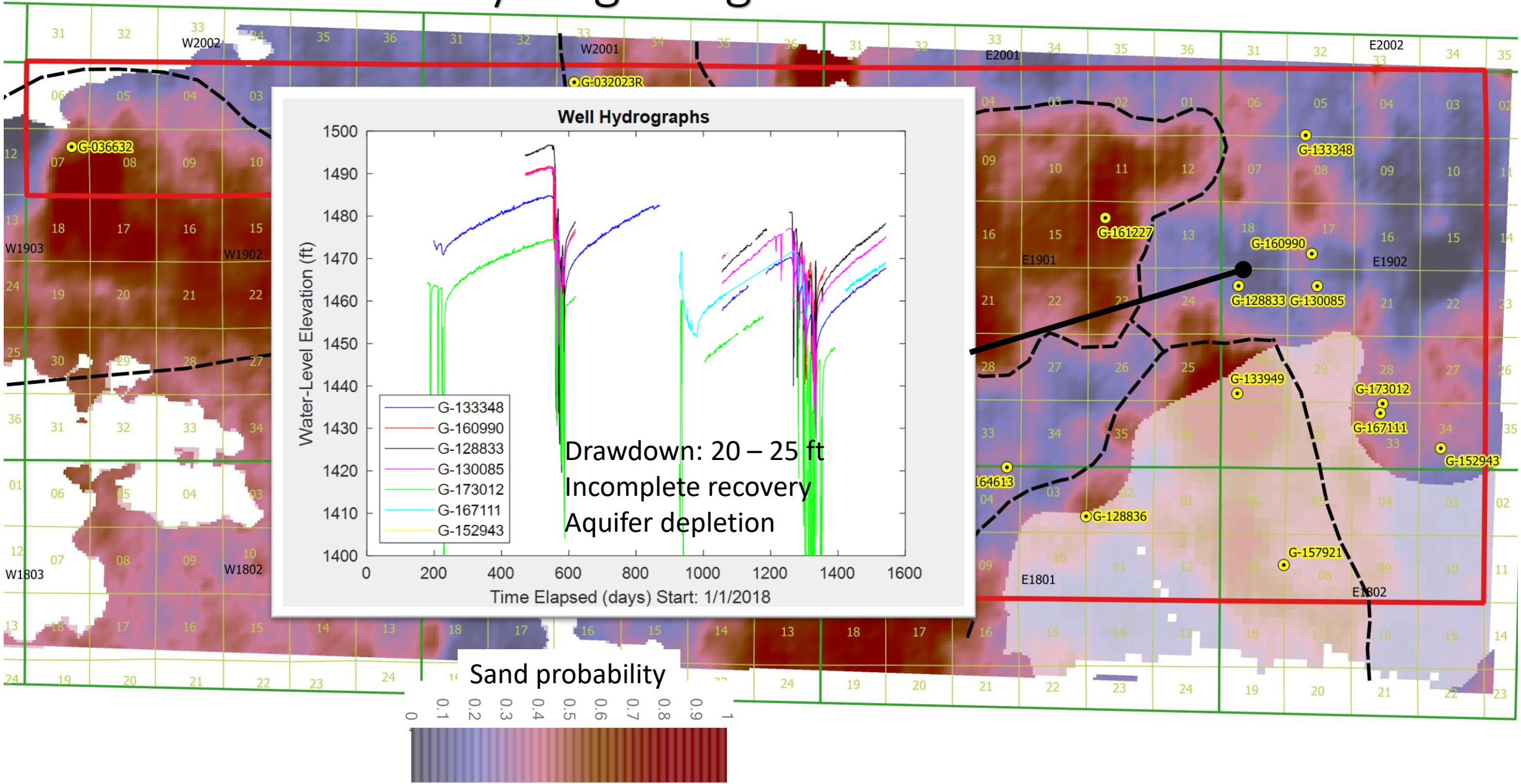


# Hydrogeologic boundaries

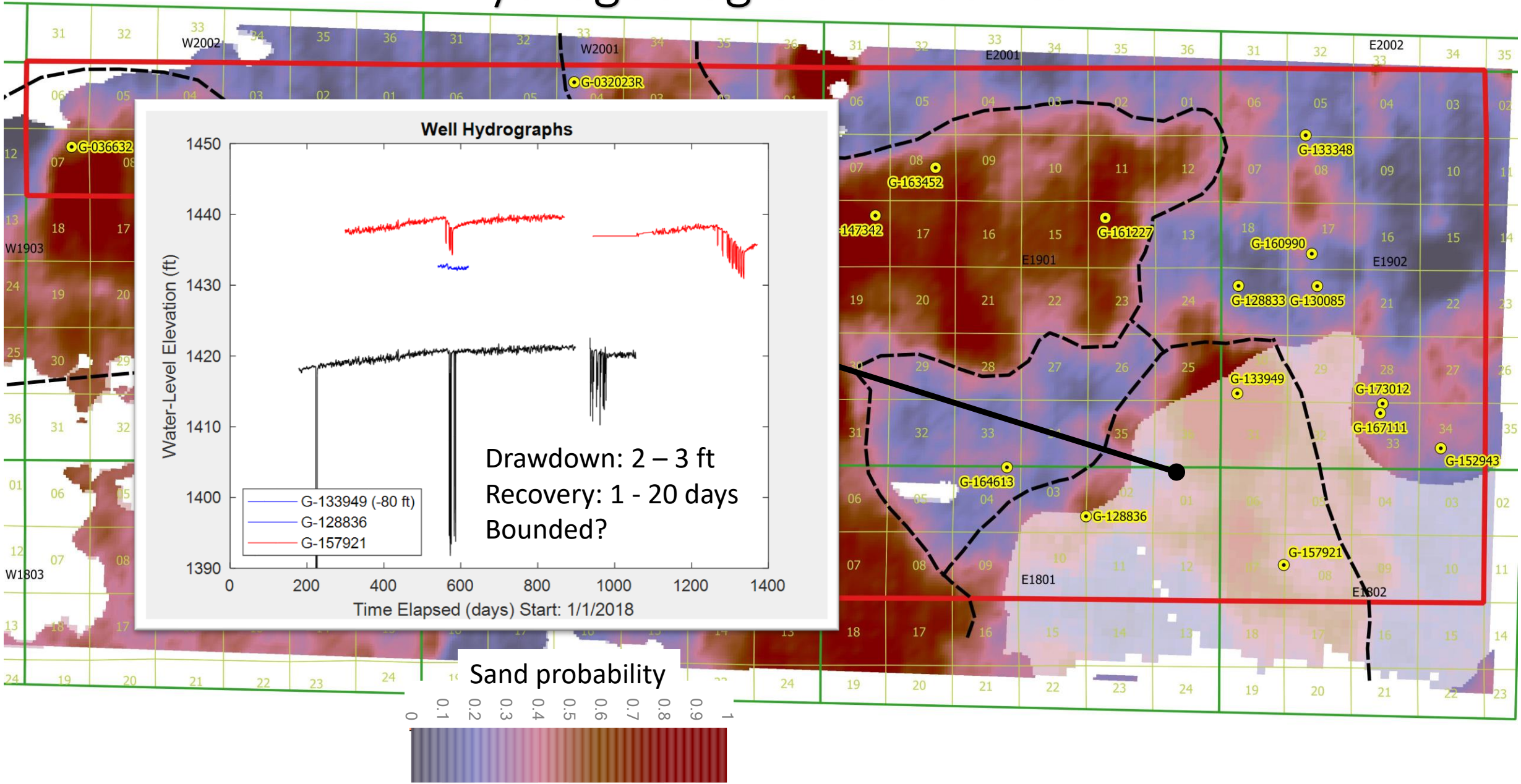




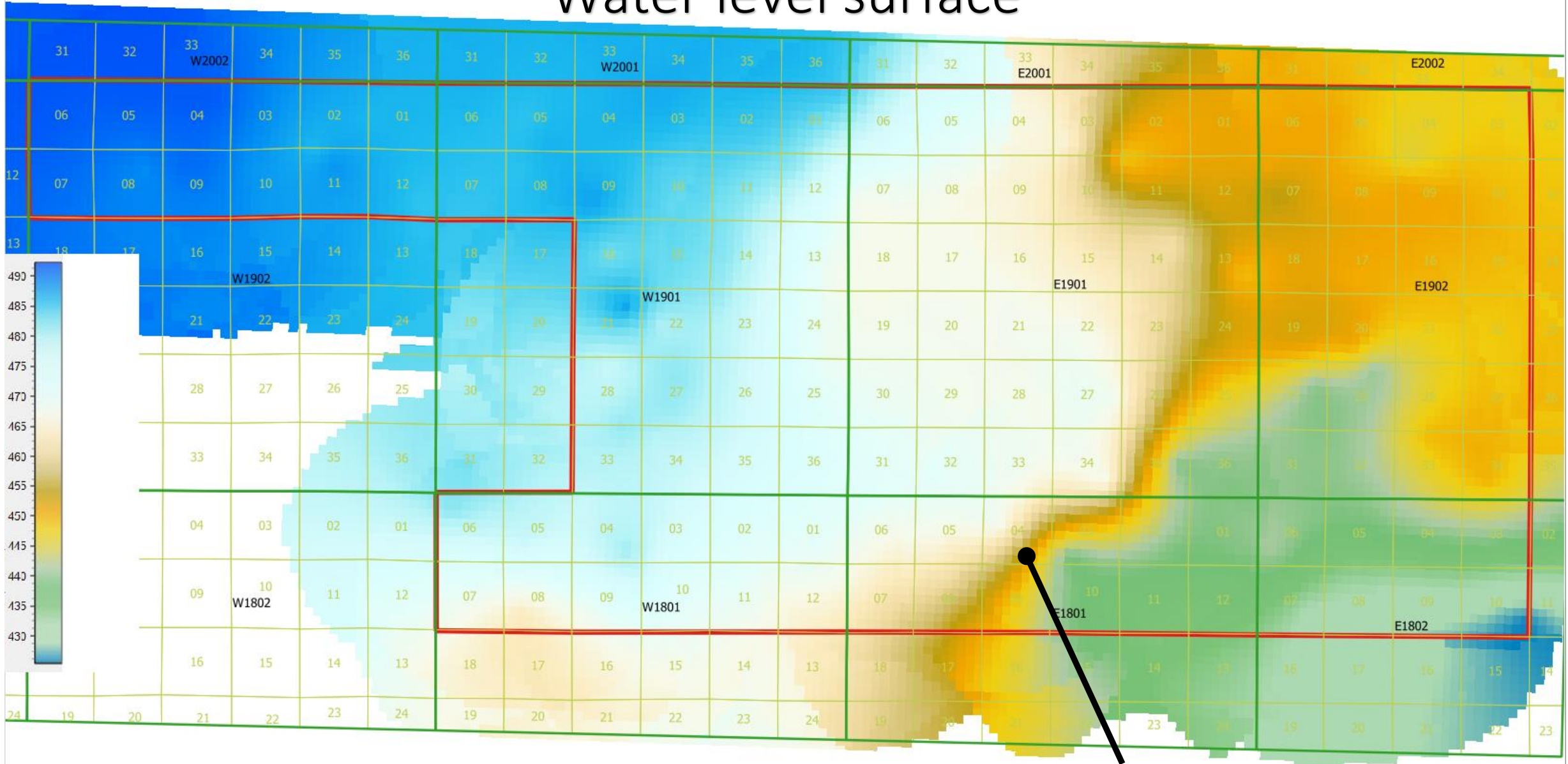
# Hydrogeologic boundaries



# Hydrogeologic boundaries

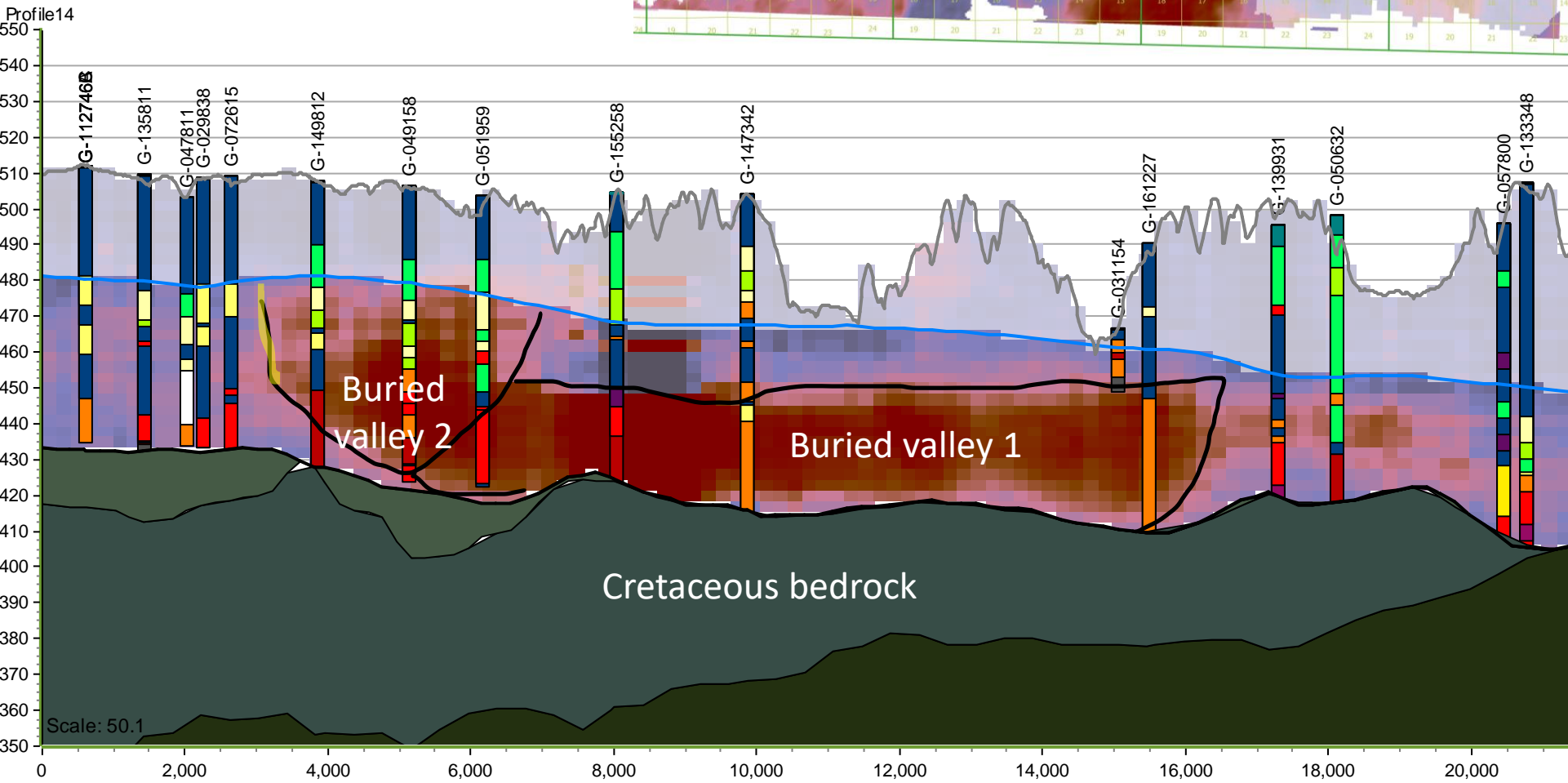
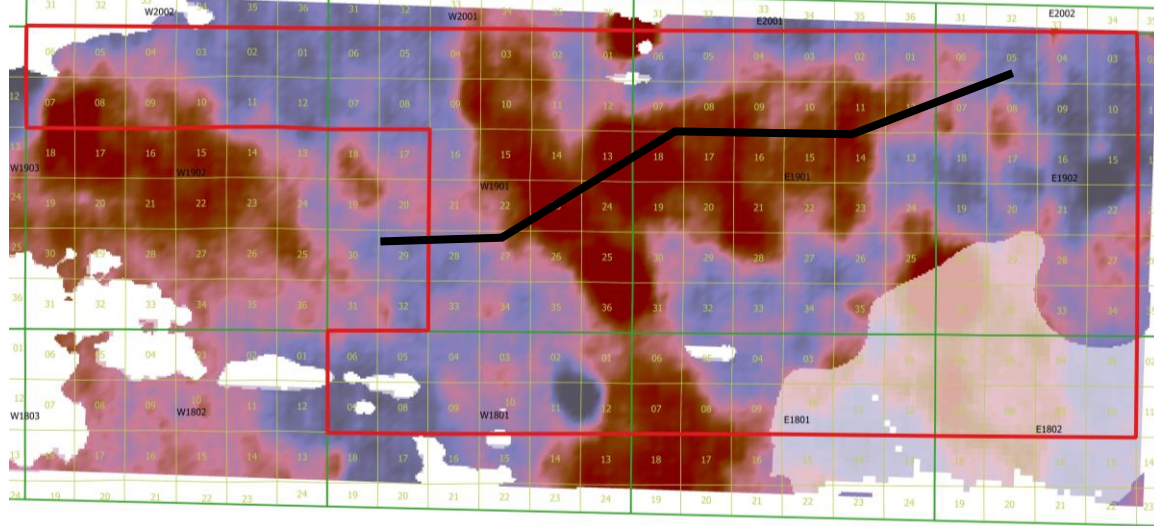


# Water level surface

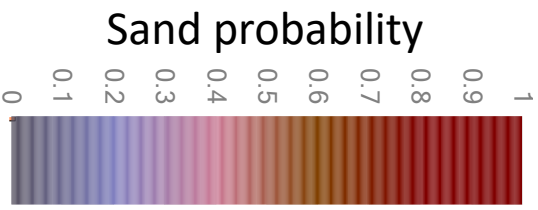


Discontinuity = hydrogeologic boundary

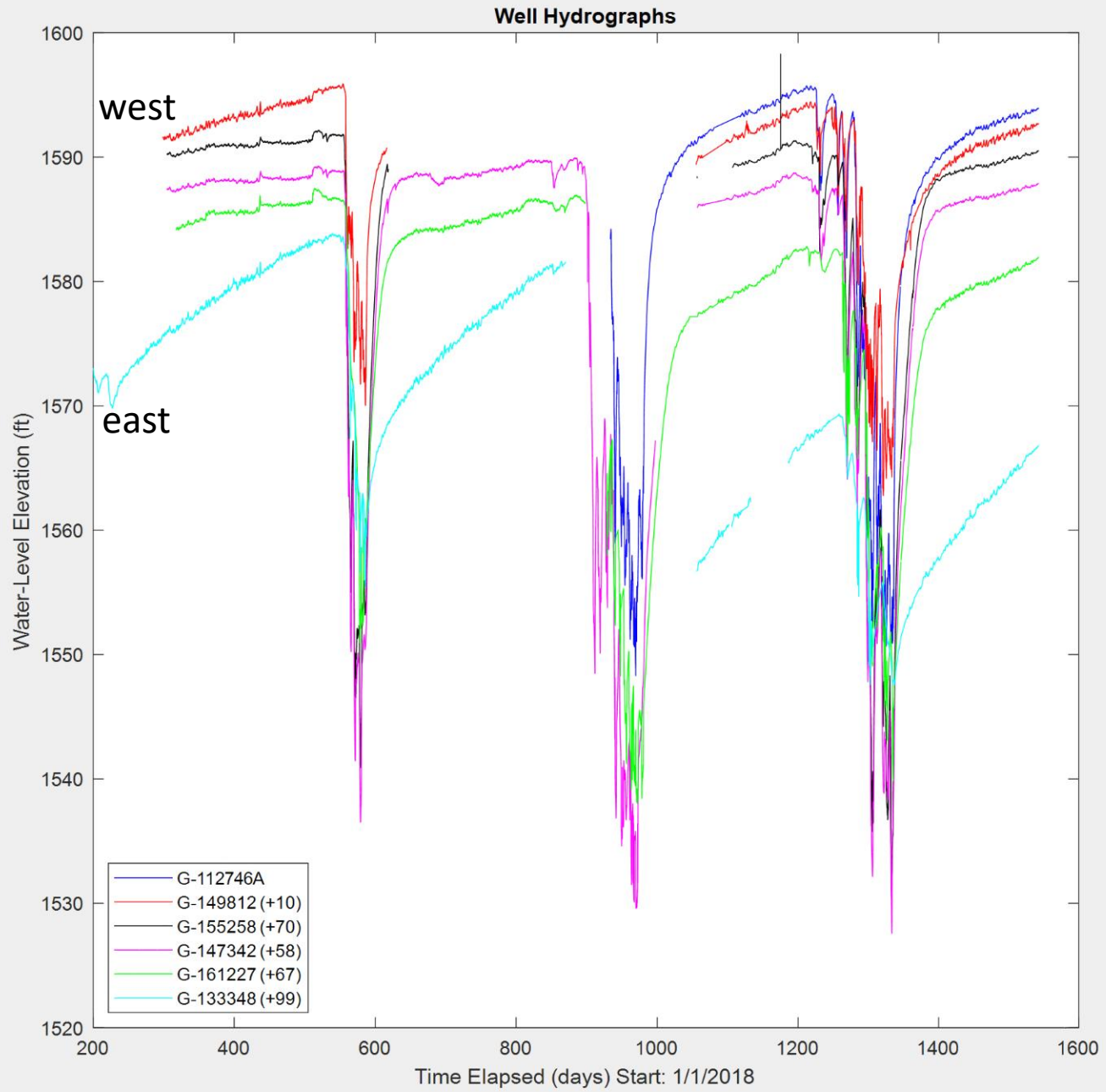
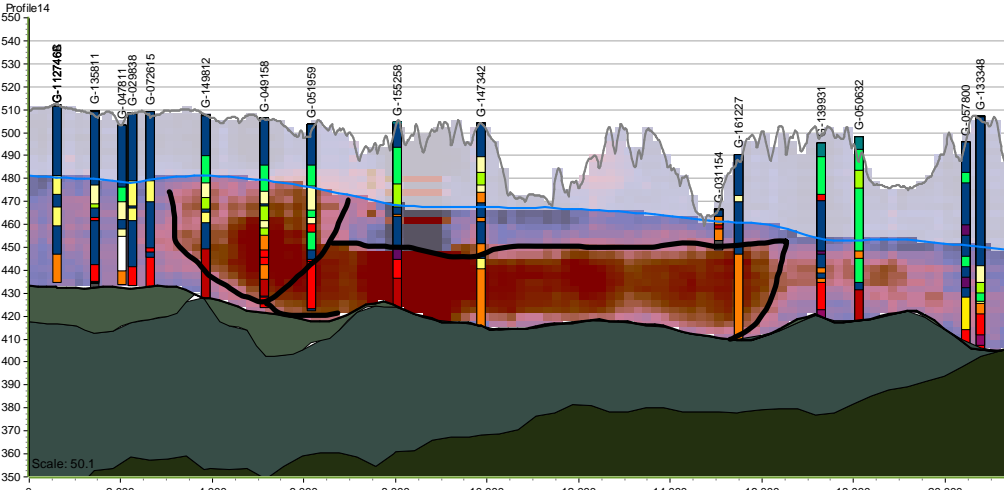
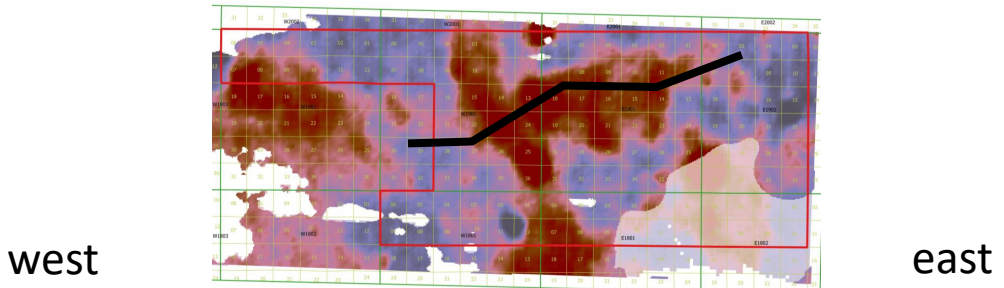
# Cross section showing sand probability and borehole lithology



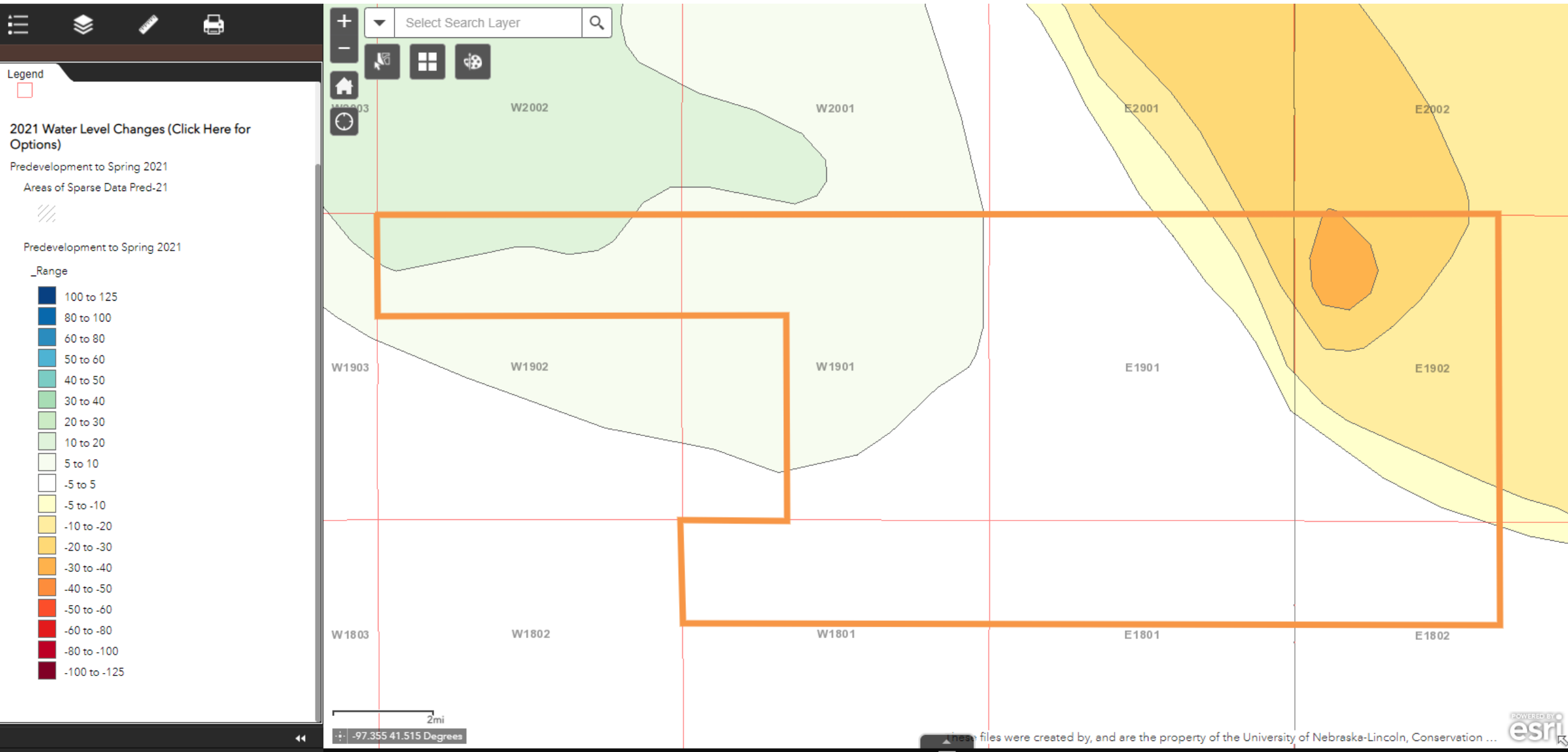
- SOIL
- CLAY
- TILL
- CLAY AND SILT
- SILT
- CLAY AND GRAVEL
- GRAVEL AND CLAY
- CLAY AND SAND
- SAND AND CLAY
- SAND AND SILT
- SILT AND SAND
- FINE-SAND
- FINE-MEDIUM-SAND
- FINE-COARSE-SAND
- SAND
- MEDIUM-SAND
- MEDIUM-COARSE-SAND
- COARSE-SAND
- SAND AND GRAVEL
- GRAVEL AND SAND
- FINE-GRAVEL
- FINE-COARSE-GRAVEL
- FINE-MEDIUM-COARSE-GRAVEL
- GRAVEL
- MEDIUM-GRAVEL
- FINE-MEDIUM-GRAVEL
- MEDIUM-COARSE-GRAVEL
- COARSE-GRAVEL
- GRAVEL AND SANDSTONE
- SANDSTONE AND GRAVEL
- SHALE
- CLAY AND SHALE
- SHALE AND CLAY
- CLAY AND SANDSTONE
- SANDSTONE AND CLAY
- SAND AND SANDSTONE
- SANDSTONE AND SAND
- SANDSTONE
- LIMESTONE



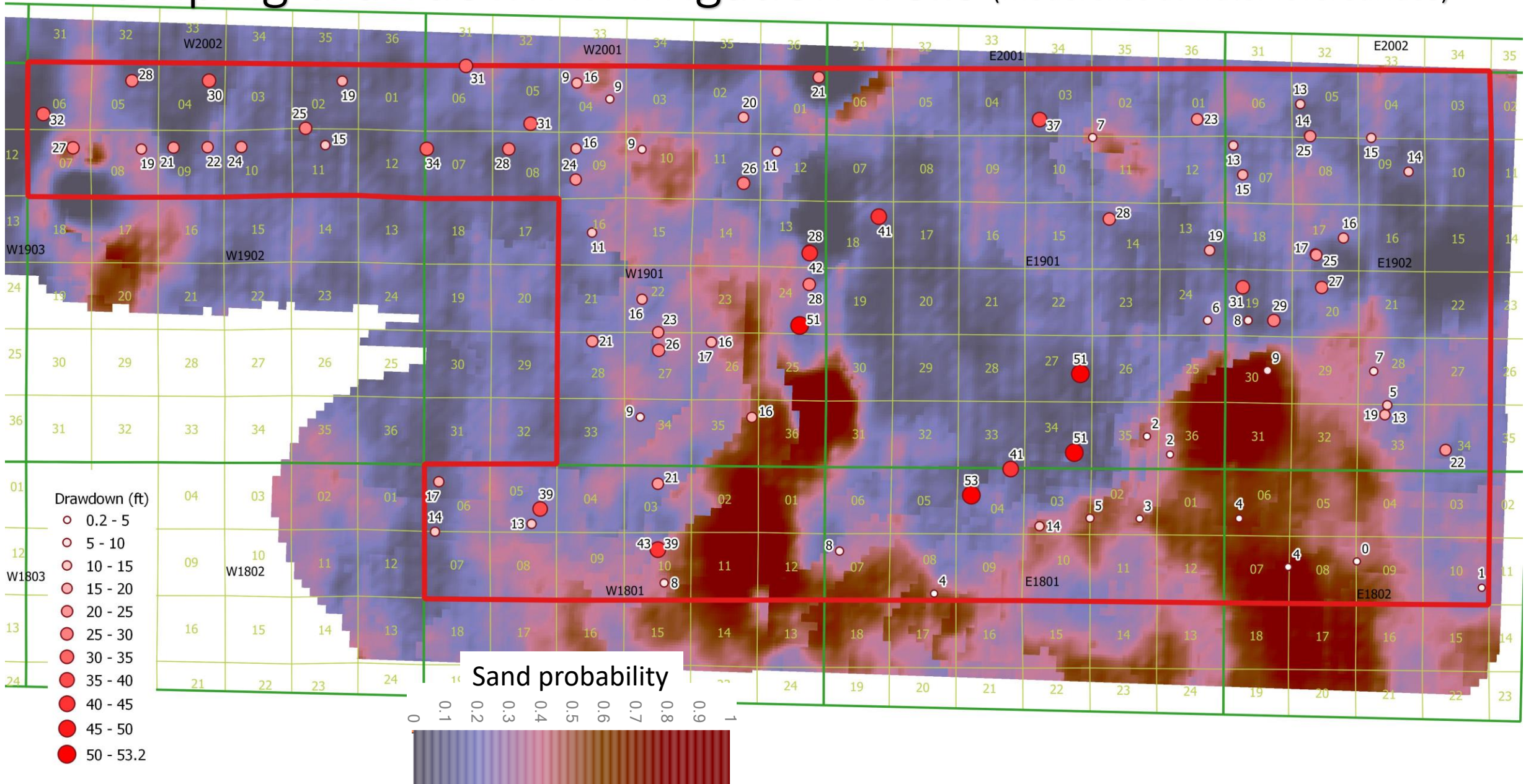
# Groundwater-level hydrographs along west-east profile



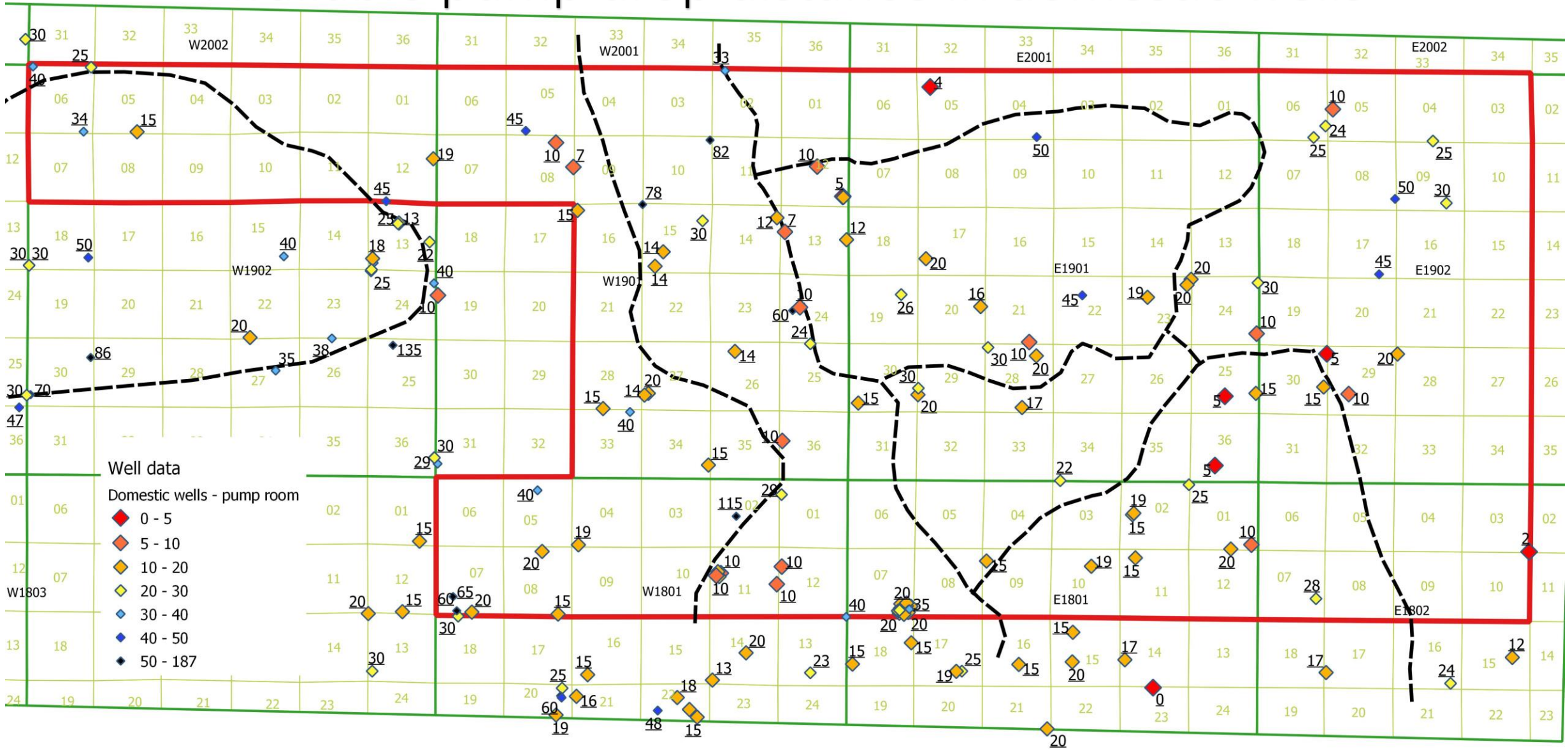
# Groundwater-level changes predevelopment to 2021



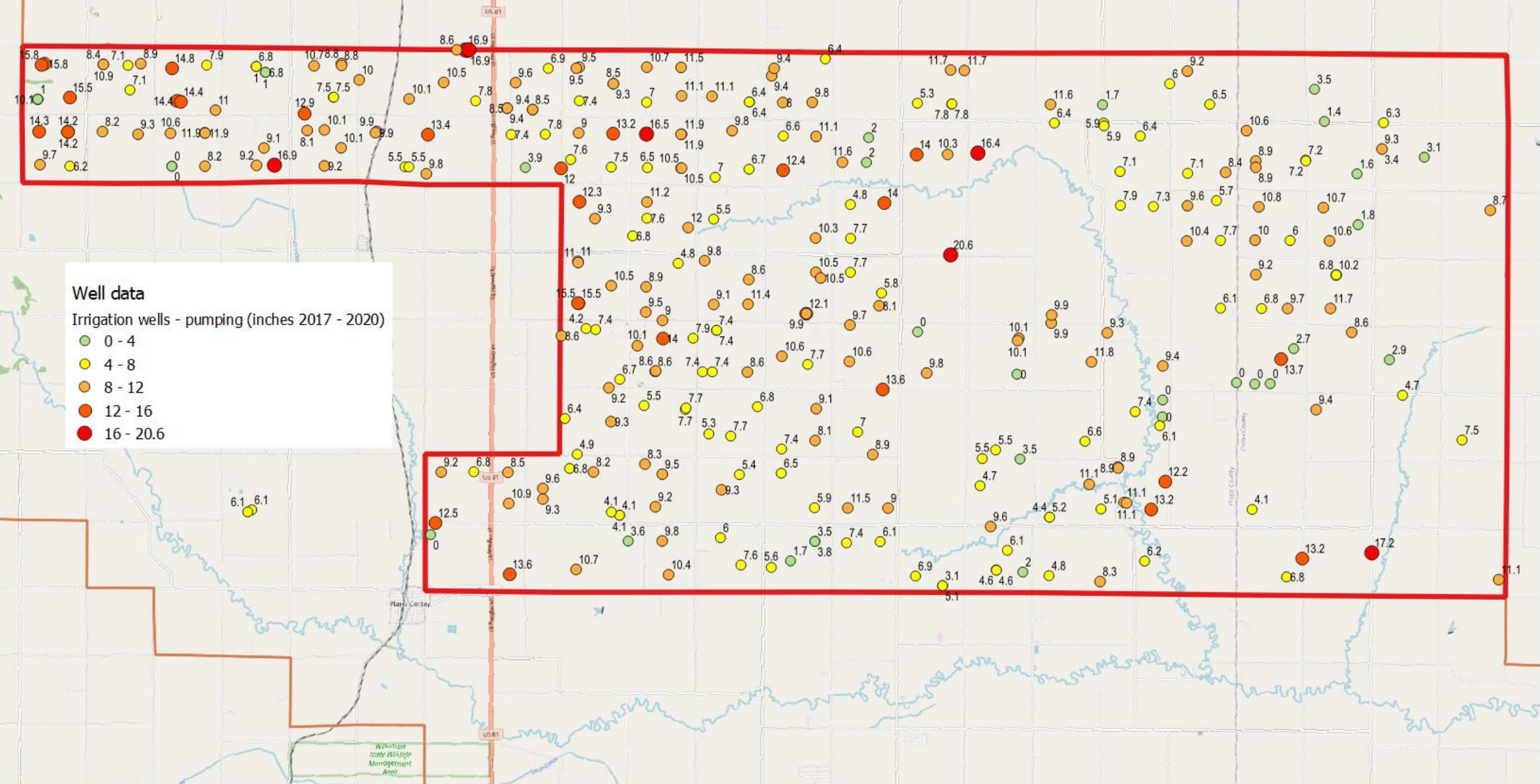
# Pumping drawdown in irrigation wells (model slice at water level surface)



# Available pump drop distance in domestic wells



# Groundwater pumping (total inches applied 2017 – 2020)





# LOWER PLATTE NORTH Natural Resources District

PO Box 126 511 Commercial Park Road Wahoo, NE 68066  
Phone 402.443.4675 www.lpnrd.org lpnrd@lpnrd.org

## Flow Meter Maintenance Service Agreement

The Lower Platte North NRD (LPNNRD) is requesting proposals from the area flow meter companies, irrigation system dealers, well drillers, and pump installers to complete flow meter maintenance throughout the whole LPNNRD District including the two allocated Special Quantity Subareas (SQS #1 & SQS #2). There are approximately 1,000 registered wells within the district that have a district approved flow meter installed with more being added yearly. The plan is to inspect each of the installed flow meters once every four years and perform any required maintenance to make sure the meters are in proper working order. The scope of work for each maintenance year shall be completed between the dates of November 1<sup>st</sup> – March 1<sup>st</sup> (weather dependent). The scope of work to be completed is listed below:

- The hired contractor will have a flat fee for each site visited. This will include travel and labor cost of the contractor to visit the sites.
- The contractor must also give a detailed report on maintenance and the inspection performed at each flow meter site.
- If any meter maintenance is required, the contractor shall perform that work and bill the LPNNRD for the labor associated with the work. The landowner is to be billed for any parts that are required for each site. The bill shall breakdown the cost for each site where any equipment is repaired or replaced.
- LPNNRD prefers the following added features for all propeller flow meters:
  - Over-run bearing (or extra bearing) for smoother operation and to extend life of the meter.
  - Canopy cover to protect meter.
- The hired contractor will replace batteries on all magnetic and digital read flow meters at least once every four years. The landowner, who will be billed by the contractor, will be responsible for 100% of the battery replacement.
- Included in this letter is a list of the LPNNRD District approved Mechanical flow meters that are installed throughout the LPNNRD. New electronic read meters will be installed only on an extreme case-to-case basis. Currently there are approximately 85 battery powered meters.
- If interested in placing a bid or would like further details on the Flow Meter Maintenance Program, please contact the Lower Platte North NRD by Date at 402-443-4675.
- This will be a 4-year contract and expire in 2028 with the selected firm needing liability insurance for any damages.

If no further information is needed, please submit bid proposals to the Lower Platte North NRD by Date. These will be reviewed by the Water Committee on Date and the contract will be awarded at the Date Board meeting. The LPNNRD has the right to reject all bids. Thank you.

Daryl Andersen  
Water Resources Manager

Noah Franzen  
Water Resources Specialist



**Lower Platte North NRD Mechanical Meter Approval List**

| <b>Manufacturer</b> | <b>Model</b>           | <b>Notes</b>                                 |
|---------------------|------------------------|--|
| McCrometer          | McPropeller            | All Propeller Models                         |
| Sparling            | Propeller saddle meter | Model 312 propeller meter                    |
| ARAD Group          | Saddle Water meter     | Meter for irrigation applications            |
| Geyser              | Saddle meter           | All propeller models for Farmland Irrigation |

DRAFT

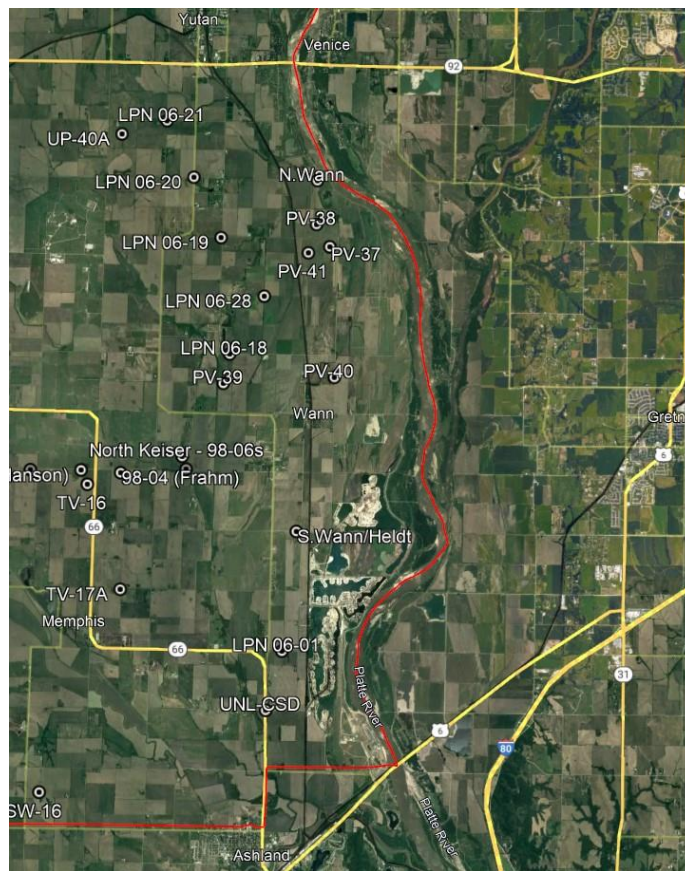
| Expiration Year | Name                   | Phone Number | Cell Number  | Home Number | Address                    | City         | State |
|-----------------|------------------------|--------------|--------------|-------------|----------------------------|--------------|-------|
| 2020            | Brian Moser            | 402-447-9540 | 402-430-2920 |             | 962 S. 5th Street          | Albion       | NE    |
| 2023            | Lynn Wondercheck       | 402-741-2140 | 402-741-2072 |             | 2083 300 Avenue            | Albion       | NE    |
| 2022            | Christopher D Nicolas  | 402-538-4540 | 402-367-9203 |             | 253 42nd Road              | Bellwood     | NE    |
| 2021            | Brian Vech             | 402-628-6540 | 402-480-3039 |             | 2063 County Road W         | Cedar Bluffs | NE    |
| 2021            | Sean Callahan          | 402-663-5140 | 202-6984     |             | 2432 County Road 22        | Cedar Bluffs | NE    |
| 2023            | Rodney Wiegand         | 402-628-6285 |              |             | 2644 County Road 17        | Cedar Bluffs | NE    |
| 2023            | Christopher M Dvorak   | 402-487-2140 | 202-860-2029 |             | 369 Road N                 | Clarkson     | NE    |
| 2021            | Daryl Finecy           | 402-564-0402 | 910-1030     |             | 7866 E 29th Avenue         | Columbus     | NE    |
| 2021            | Edward Bakenhus        | 402-563-3402 | 910-1397     |             | 21223 310th Street         | Columbus     | NE    |
| 2021            | James Hotovy           | 402-563-2402 | 276-1598     |             | 2506 whitetail dr          | Columbus     | NE    |
| 2023            | James Klug             | 402-564-3402 | 563-4458     |             | 4795 Seminole Ave          | Columbus     | NE    |
| 2023            | Jeffrey T. Lusche      | 402-910-4140 | 910-4656     |             | 11843 291st Street         | Columbus     | NE    |
| 2023            | Jeremy Killham         | 402-563-8402 | 910-2844     |             | 5284 East 8th Street       | Columbus     | NE    |
| 2023            | Rory Went              | 402-495-3840 | 270-2834     |             | 6555 Shadow Ridge Place    | Columbus     | NE    |
| 2023            | Steven J Gehring       | 402-285-0266 |              |             | 21080 415 Street           | Creston      | NE    |
| 2023            | Jack W. Nagel          | 402-785-7140 | 430-6717     |             | 19584 N 40th St            | Davey        | NE    |
| 2021            | Gregory Romshek        | 402-538-2040 | 276-0905     |             | 3891 JK Road               | David City   | NE    |
| 2021            | Barry Benson           | 402-721-5040 | 719-0760     |             | 5281 Ventura Dr            | Fremont      | NE    |
| 2021            | Robert Vering          | 402-721-8140 | 720-1441     |             | 602 Thornbird Drive        | Fremont      | NE    |
| 2022            | Ted Nelson             | 402-727-0140 | 459-3810     |             | 1860 County Road 20 Avenue | Fremont      | NE    |
| 2023            | Jon Dinslage           | 402-206-4772 |              |             | 2568 County Road 12        | Fremont      | NE    |
| 2023            | Todd J Aspy            | 402-727-1402 | 720-8116     |             | 1743 County Road 18        | Fremont      | NE    |
| 2023            | Rodney Johnson         | 402-770-0209 |              |             | 3609 Palomine Place        | Grand Island | NE    |
| 2020            | Steve Frauendorfer     | 402-640-0402 | 640-0271     |             | 51285 355 Avenue           | Humphrey     | NE    |
| 2021            | James Krings           | 402-923-1440 | 276-7800     |             | 29785 - 430th Street       | Humphrey     | NE    |
| 2023            | Bill Fischer           | 402-923-0402 | 270-3731     |             | 42933 - 355th Avenue       | Humphrey     | NE    |
| 2023            | Glen Weidner           | 402-923-0402 | 920-2897     |             | 34609 490 St               | Humphrey     | NE    |
| 2022            | Bryce Grotelueschen    | 402-487-2402 | 260-9116     |             | 259 Road P                 | Leigh        | NE    |
| 2023            | Mark T and Don Hoessel | 402-487-2640 | 276-1084     |             | 11695 415 Street           | Leigh        | NE    |
| 2019            | Chris Bienman          | 402-428-4732 |              |             | 44966 - 445 Avenue         | Lindsay      | NE    |
| 2019            | Ken Kurtenbach         | 402-428-4402 | 920-0661     |             | 119 East 1st Street        | Lindsay      | NE    |
| 2023            | Daryl Herchenbach      | 402-428-4540 | 920-0267     |             | 40786 490th St             | Lindsay      | NE    |
| 2023            | Dean J Gronenthal      | 402-428-5140 | 920-3439     |             | 45079 445th Ave            | Lindsay      | NE    |
| 2023            | Donald L. Gasper, Sr.  | 402-428-4540 | 920-0302     |             | 51672 430 AVE              | Lindsay      | NE    |
| 2023            | Ronald Pfeifer         | 402-428-3375 |              |             | 412 E 4 Street             | Lindsay      | NE    |

| Expiration Year | Name                       | one Numt ell Numbels/ well ov.andownel | Tenant | Address               | City          | Stat |
|-----------------|----------------------------|--|--------|-----------------------|---------------|------|
| 2021            | Clifton J Goff             | 402-666-51402-679-2227                 |        | 2311 46 1/2 Road      | Linwood       | NE   |
| 2023            | David L Macholan           | 402-666-51402-641-7496                 |        | 4581 UV Road          | Linwood       | NE   |
| 2022            | Morris Erickson            | 402-624-6765                           |        | 1170 County Road J    | Mead          | NE   |
| 2023            | Gary D. & Diane Harms      | 402 246-31402 276-0694                 |        | 33335 355 AVE         | MONROE        | NE   |
| 2023            | Dan Bauer                  | 402-666-51402-720-1284                 |        | 2643 County Road 25   | Morse Blu NE  |      |
| 2023            | Randal F Kremlacek         | 402-666-51402 720-5388                 |        | 230 Maud Street       | Morse Blu NE  |      |
| 2023            | John T. Kaufman            | 402 447-21402-741-1203                 |        | 82480 HWY 45          | Newman        | NE   |
| 2020            | Jack Mulliken              | 402 -721-3402-720-0592                 |        | 1677 County Road 24   | Nickerson NE  |      |
| 2019            | Kurt Dunker                | 402-652-31402-720-6573                 |        | 940 Foothill Road     | North Ber NE  |      |
| 2021            | Robert Saalfeld            | 402 652-81402 317-2971                 |        | 1112 County Road R    | North Ber NE  |      |
| 2023            | Christopher W Armstrong    | 402-652-31402-860-3867                 |        | 622 County Road M     | North Ber NE  |      |
| 2023            | Jeffrey K Voss             | 402 -652-3402-720-3458                 |        | 1211 County Road R    | North Ber NE  |      |
| 2023            | Seth Feala                 | 402-652-81402-720-5234                 |        | 1727 County Road 7    | North Ber NE  |      |
| 2021            | harvey sloup               | 402-393-7439                           |        | 3229 Sth 91st St.     | Omaha         | NE   |
| 2021            | Terry Lutjens              | 402 246-21402 649-6744                 |        | 35802 235th Ave       | Platte Cer NE |      |
| 2023            | Chad E Sander              | 402 246-31402-270-6481                 |        | 35056 235th Ave       | Platte Cer NE |      |
| 2023            | Lee Hueschen               | 402-246-31402-276-1166                 |        | 345277 – 355th Avenue | Platte Cer NE |      |
| 2023            | Richard D and Lila M Brock | 402 246-41402 270-4603                 |        | 24634 355 St          | Platte Cer NE |      |
| 2020            | Dennis C Fujan             | 402-663-51402-480-4950                 |        | 3060 County Road O    | Prague        | NE   |
| 2020            | Mark Rickert               | 402 276-0339                           |        | 490 County Road 1     | Richland      | NE   |
| 2023            | Robert C Kluck, Jr         | 402 352-51402 615-0578                 |        | 396 County Road F     | Richland      | NE   |
| 2023            | Randy Kassmeier            | 402 352-21402 615-0103                 |        | 750 Road 7            | Schuyler      | NE   |
| 2023            | Bruce Staub                | 402-368-51402-640-0721                 |        | 83465 Hwy 45          | Tilden        | NE   |
| 2023            | John R Krueger             | 402 368-51402 841-0980                 |        | 1169 State Hwy 45     | Tilden        | NE   |
| 2021            | Todd Swanson               | 402-443-51402 443-6592                 |        | 1851 County Road L    | Wahoo         | NE   |
| 2022            | Roger Harders              | 402-443-31402 443-3198                 |        | 1775 County Road M    | Wahoo         | NE   |
| 2023            | Dave Rood                  | 402-443-81402 443-8471                 |        | 1665 County Road I    | Wahoo         | NE   |
| 2023            | Ronald Sladky              | 402-443-51402 443-8351                 |        | 1435 County Road L    | Wahoo         | NE   |
| 2021            | Michael Thomas             | 402 625-21402 443-6213                 |        | 1352 Yutan Road       | Yutan         | NE   |

## Lower Platte North Update on Water Levels:

- WANN Basin Day on August 29, 2023
  - 60 wells were measured for summer water levels in 2023.
  - The average difference comparing 2022 to 2023 was 0.42 feet lower in 2023 (median was 0.06 ft). 57 wells were compared.
  - The average difference comparing 2012 to 2023 was 0.06 feet lower in 2023 (median was 0.18)
  - Agencies involved in measurements for this area are LWS, USGS, LPNNRD and ECC (company that manages Mead Ordinance plant).
  - LPNNRD assists in measuring for MUD and LPSNRD.

### Map of area for reference



- Staff at Lower Platte North received a call for a domestic well running dry the first part of September.
- Some early reported numbers from pivots are 6 - 13 acre/inches of water use.



Daryl Andersen  
 Lower Platte North NRD  
 511 Commercial Park Road  
 Wahoo, NE 68066-0126

September 13, 2023  
 Project No: 5036LPN02  
 Invoice No: 24101

Project 5036LPN02 LPNNRD Hydrogeologic Assessment

**Professional Services through August 25, 2023.**

Task 03 Deliverables

**Professional Personnel**

|                    | Hours | Rate   | Amount   |                 |
|--------------------|-------|--------|----------|-----------------|
| Mohr, Jonathan     | 9.75  | 183.00 | 1,784.25 |                 |
| Sopiwnik, Roscoe   | 16.25 | 187.00 | 3,038.75 |                 |
| Totals             | 26.00 |        | 4,823.00 |                 |
| <b>Total Labor</b> |       |        |          | <b>4,823.00</b> |

**Reimbursable Expenses**

|                            |  |  |              |              |
|----------------------------|--|--|--------------|--------------|
| Mohr, Jonathan             |  |  | 49.13        |              |
| <b>Total Reimbursables</b> |  |  | <b>49.13</b> | <b>49.13</b> |

**Total this Task \$4,872.13**

**Total this Invoice \$4,872.13**

**Outstanding Invoices**

| Invoice Number | Date      | Balance         |                                 |
|----------------|-----------|-----------------|---------------------------------|
| 23745          | 8/14/2023 | 3,301.25        |                                 |
|                |           | <b>3,301.25</b> |                                 |
|                |           |                 | <b>Total Now Due \$8,173.38</b> |

TERMS: Net 30 days. A finance charge of 1.5% per month is applied to past due amounts.

**Phoenix Web Group, Inc**  
10824 N. 142nd Street, P.O.  
BOX 307  
Waverly, NE 68462  
402-786-5111

## Invoice 130811

**BILL TO**

Eric Gottschalk  
Lower Platte North NRD  
P.O. Box 126  
Wahoo, NE 68066

DATE  
08/14/2023

PLEASE PAY  
**\$8,635.00**

DUE DATE  
08/14/2023

| DATE       | ACTIVITY   | QTY | RATE     | AMOUNT   |
|------------|--|-----|----------|----------|
| 08/14/2023 | <b>Project</b><br>2023 Additions and Modifications<br>(Adjusted) 2nd of 2 payments | 1   | 8,635.00 | 8,635.00 |

Thank you for your business.

|          |          |
|----------|----------|
| SUBTOTAL | 8,635.00 |
| TAX      | 0.00     |
| TOTAL    | 8,635.00 |

\*The cusotmer is responsible for paying applicable taxes in addition to the price shown above.

**TOTAL DUE \$8,635.00**

THANK YOU.



water  
simplified.

In-Situ, Inc.

221 E Lincoln Ave  
Fort Collins, CO 80524-2533

Fed ID: 83-0245889  
GSA: 47QSWA23D001X

# Invoice

PSINV100462  
08/10/2023

### Billing Address

**LOWER PLATTE NORTH NRD**  
**MR. LARRY ANGLE**  
**511 COMMERCIAL PARK ROAD**  
**P.O. BOX 126**  
**WAHOO, NE 68066**  
**United States**

### Ship-to Address

LOWER PLATTE NORTH NRD  
RUSSELL OAKLUND  
511 COMMERCIAL PARK ROAD  
WAHOO, NE 68066  
United States

|                      |                    |               |                      |
|----------------------|--------------------|---------------|----------------------|
| Customer PO No.      | Order Date         | Order No.     | Due Date             |
| Shipping Agent Code  | Shipment Method    | Payment Terms | Salesperson          |
| FEDEX                | FOB Origin         | Net 30 days   | Stephane Mary        |
| Package Tracking No. | Final Installation | Email         | Customer Account No. |
|                      | NE                 |               | C004961              |

| No.   | Description   | Quantity | Unit | Unit Price | Line Amount |
|---|---|----------|------|------------|-------------|
| 0094840   | VuLink CI (Global Cellular, does not include antenna)                               | 64       | Each | 716.00     | 45,824.00   |
| Serial No. 1054165, 1054689, 1055281, 1055266, 1054688, 1055264, 1055144, 1052671, 1052468, 1055309, 1055016, 1052320, 1052464, 1052666, 1054158, 1052500, 1051689, 1055049, 1055262, 1052662, 1052139, 1052719, 1052454, 1052435, 1052452, 1052451, 1052450, 1045738, 1052461, 1052440, 1052332, 1052443, 1052352, 1052442, 1052434, 1046187, 1045728, 1046480, 1046421, 1046456, 1045720, 1045598, 1046495, 1046643, 1045709, 1046455, 1051378, 1050734, 1051380, 1050321, 1051377, 1050288, 1051384, 1051447, 1051681, 1050080, 1050063, 1050075, 1051513, 1050725, 1051405, 1051412, 1051438, 1051379 |   |          |      |            |             |
| 0043630   | VuLink 4G/LTE/2G Cellular Antenna with 1.5m cable (IP67, recommended for VuLink CI) | 64       | Each | 29.75      | 1,904.00    |
| 0103050   | VuLink Lithium Batteries (Set of 3)   | 64       | Each | 68.00      | 4,352.00    |
| 850-367   | MACE FloSeries3 - HydroMace XCi   | 6        | Each | 1,610.75   | 9,664.50    |
| Serial No. 96590, 96595, 96591, 96589, 96080, 96596   |   |          |      |            |             |
| 850-368   | MACE FloSeries3 - SDI-12 Master Card  | 10       | Each | 505.75     | 5,057.50    |
| Serial No. 95178, 95180, 95179, 94215, 94217, 94218, 90371, 90379, 90372, 95177   |   |          |      |            |             |

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[Phone No.](#)  
800-4IN-SITU

[Email](#)

|  |  |         |                            |                  |
|--|--|---------|----------------------------|------------------|
| 850-422  | MACE FloSeries3 - WebComm Card w/ Antenna- 4G                  | 6 Each  | 505.75                     | 3,034.50         |
| Serial No. 95818, 95843, 95822, 95815, 95852, 95856  |  |         |                            |                  |
| 0084530  | HydroVu Sim Card-HydroVu Sim Card                              | 6 Each  | 31.45                      | 188.70           |
| Serial No. 005817428, 005175999, 005817467, 005817601, 005817600, 005817598  |  |         |                            |                  |
| 814-015  | MACE FloSeries3 - Solar Panel (12V/10W)                        | 6 Each  | 284.75                     | 1,708.50         |
| 850-302  | MACE FloSeries3 - Mounting Kit - Device & Solar Panel (5W/10W) | 6 Each  | 97.75                      | 586.50           |
| 850-363  | MACE FloSeries3 - USB External Comms Lead                      | 1 Each  | 165.75                     | 165.75           |
| 0099240  | Level TROLL 400, Level Sensor Range - 11m, 35 ft (30 PSIA)     | 15 Each | 716.00                     | 10,740.00        |
| Serial No. 1052744, 1052747, 1052753, 1052767, 1052739, 1052733, 1052107, 1052749, 1052772, 1052099, 1052731, 1052734, 1052101, 1052750, 1052775 |  |         |                            |                  |
| 0102510  | HydroVu Professional Cellular Prepaid Code                     | 7 Each  | 0.00                       | 0.00             |
| 0102510  | HydroVu Professional Cellular Prepaid Code                     | 7 Each  | 0.00                       | 0.00             |
| 0102510  | HydroVu Professional Cellular Prepaid Code                     | 7 Each  | 0.00                       | 0.00             |
| 0102510  | HydroVu Professional Cellular Prepaid Code                     | 7 Each  | 0.00                       | 0.00             |
| 0102510  | HydroVu Professional Cellular Prepaid Code                     | 7 Each  | 0.00                       | 0.00             |
| 0102510  | HydroVu Professional Cellular Prepaid Code                     | 7 Each  | 0.00                       | 0.00             |
| 0102510  | HydroVu Professional Cellular Prepaid Code                     | 7 Each  | 0.00                       | 0.00             |
| 0102510  | HydroVu Professional Cellular Prepaid Code                     | 7 Each  | 0.00                       | 0.00             |
| 0102510  | HydroVu Professional Cellular Prepaid Code                     | 7 Each  | 0.00                       | 0.00             |
| 0102510  | HydroVu Professional Cellular Prepaid Code                     | 7 Each  | 0.00                       | 0.00             |
| 0102510  | HydroVu Professional Cellular Prepaid Code                     | 7 Each  | 0.00                       | 0.00             |
|  |  |         | Subtotal                   | 83,225.95        |
|  |  |         | Total Tax                  | 0.00             |
|  |  |         | <b>Total Amount in USD</b> | <b>83,225.95</b> |

Amount Subject to Sales Tax 0.00  
Amount Exempt from Sales Tax 83,225.95

Bank Name Vectra Bank Colorado  
Bank Account No. 5801330001  
Payment Routing No. 102003154



[Click Here to Pay](#)



# West Fremont-Platte Township Progress Meeting

**DATE AND TIME** | September 14, 2023

**PROJECT** | Dodge County – West Fremont Scoping Project

JEO Project #201901.00

EMK-2020-BR-013-0015

**MEETING** | Progress Meeting

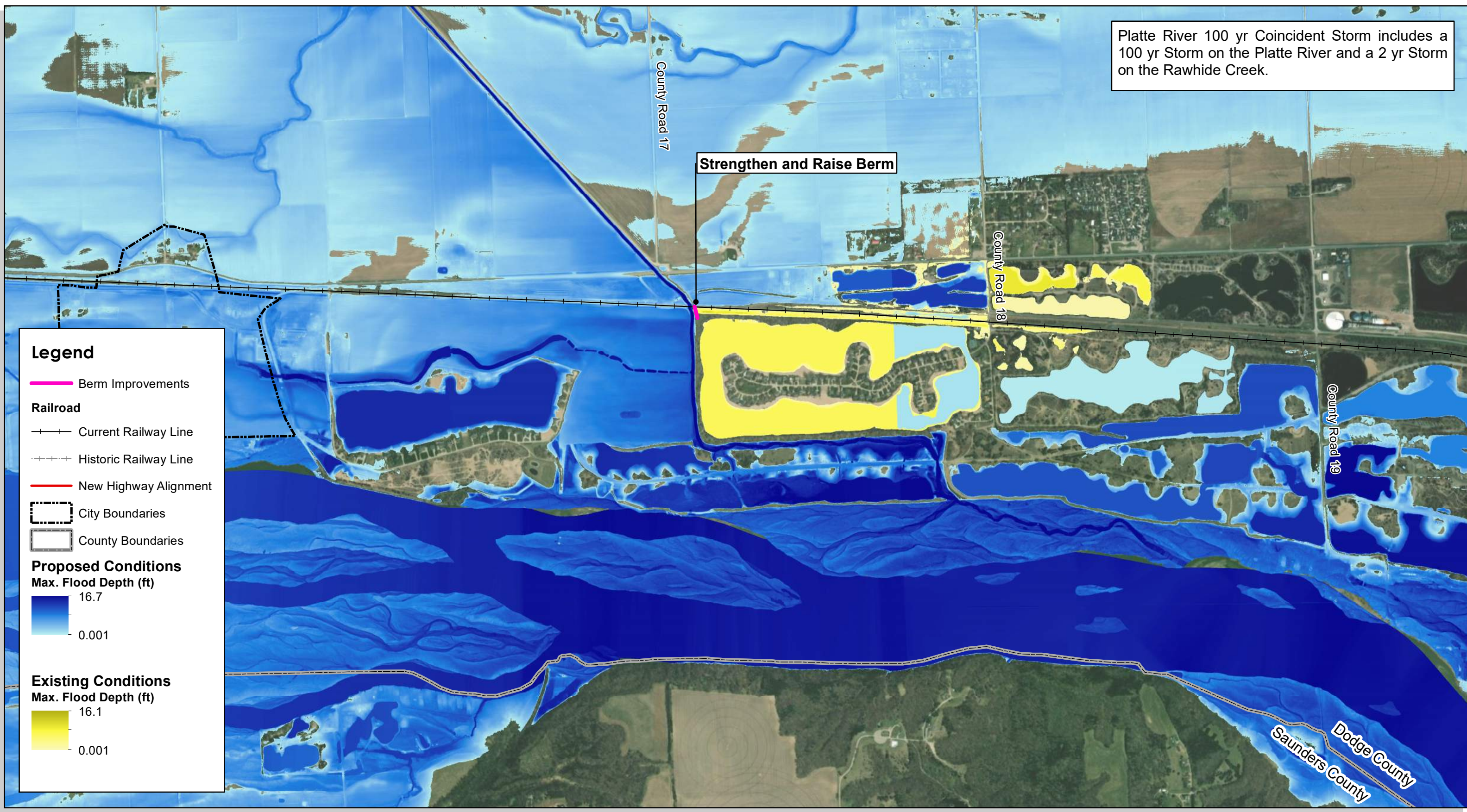
**LOCATION** | Fremont City Hall – Council Chambers

1. Goal of today's meeting
  - i. **Review structural alternatives**
  - ii. **Discuss Nonstructural actions**
  - iii. **Discussion of next steps**
  
2. Review of Structural Flood Risk Reduction Actions
  - a. Presented at February-23 progress meeting and discussed further at April-23
  - b. Dedicated/directed overflow of Platte River through sandpit lakes
    - i. Eliminated from further consideration at April-23 meeting
  - c. Modifications in Hormel Park to improve conveyance
    - i. Eliminated from further consideration at April-23 meeting
  - d. Hardening existing County/City culvert crossings
    - i. Eliminated from further consideration at April-23 meeting
  - e. Strategic road raises (Big Island, Ridgeland and Ridge Rd)
    - i. Eliminated from further consideration at April-23 meeting
  - f. Lake Ventura Cutt-off Improvements
    - i. Improvement further developed – to be discussed
  - g. Improvements to Farmland Levee
    - i. Improvement further developed – to be discussed
  
3. Lake Ventura Cutoff Improvement
  - a. Review of 2019 Flood Impacts
    - i. Fremont Cutoff east bank overtopping adjacent to UPRR
    - ii. Broke thru berm on north side of Lake Ventura
    - iii. Overflows into Lake Ventura
  - b. Repairs/Improvements post-2019
    - i. Additional rock rip rap at UPRR bridge
    - ii. Berm on north of the lake was repaired
  - c. Project Description
    - i. Raise short reach of east bank of Fremont Cutoff to UPRR level
    - ii. Rock Rip Rap on back slope for erosion protection
  - d. Review of Impacts/Benefits (see attached)
  - e. Review of Costs (see attached)

- f. Other Factors for Consideration
  - i. UPRR ROW
  - ii. Access for Construction
  - iii. Project Sponsorship
  
- 4. Farmland Levee Improvement - Alternate A
  - a. Review of 2019 Flood Impacts
  - b. Repairs/Improvements post-2019
  - c. Project A Description
    - i. Eliminate low spots/raise levee to a consistent 50yr+0 level of protection
    - ii. Add clay cap on riverside
  - d. Review of Impacts/Benefits (see attached)
  - e. Review of Costs
  - f. Other Factors for Consideration
  
- 5. Farmland Levee Improvement - Alternate B
  - a. Project B Description
    - i. Eliminate low spots/raise levee to a consistent 50yr+0 level of protection
    - ii. Add clay cap on riverside
    - iii. Underseepage Control
  - b. Review of Impacts/Benefits
  - c. Review of Costs
  
- 6. Farmland Levee Improvement - Alternate C
  - a. Project C Description
    - i. Overtopping erosion protection on landside
  - b. Review of Impacts/Benefits
  - c. Review of Cost
  
- 7. Nonstructural Mitigation
  - a. Development of a Flood Risk Management Program and Funding
    - i. Flood Risk Assessment
    - ii. Policy Recommendations – Risk Avoidance or Mitigation for New Development
    - iii. Retrofitting
    - iv. Acquisition
  - b. Public Outreach
  - c. Review with NEMA/FEMA on eligibility
  
- 8. Next steps
  - a. Open Discussion on Preferred Alternative(s)
  - b. Review Preferred Alternative(s) with NEMA/FEMA
  - c. Review/Discussion on ***Phase 2 – Advancement of Preferred Alternative***



Platte River 100 yr Coincident Storm includes a 100 yr Storm on the Platte River and a 2 yr Storm on the Rawhide Creek.



**Legend**

- Berm Improvements

**Railroad**

- Current Railway Line
- - - Historic Railway Line
- New Highway Alignment

**City Boundaries**

- ⋯ City Boundaries

**County Boundaries**

- ⋯ County Boundaries

**Proposed Conditions**

Max. Flood Depth (ft)

- 16.7
- 0.001

**Existing Conditions**

Max. Flood Depth (ft)

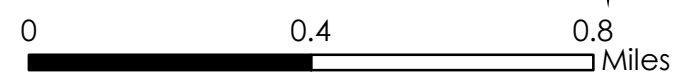
- 16.1
- 0.001

Created By: CEO  
 Date: 9/13/23  
 Software: ArcGIS 10.8.1

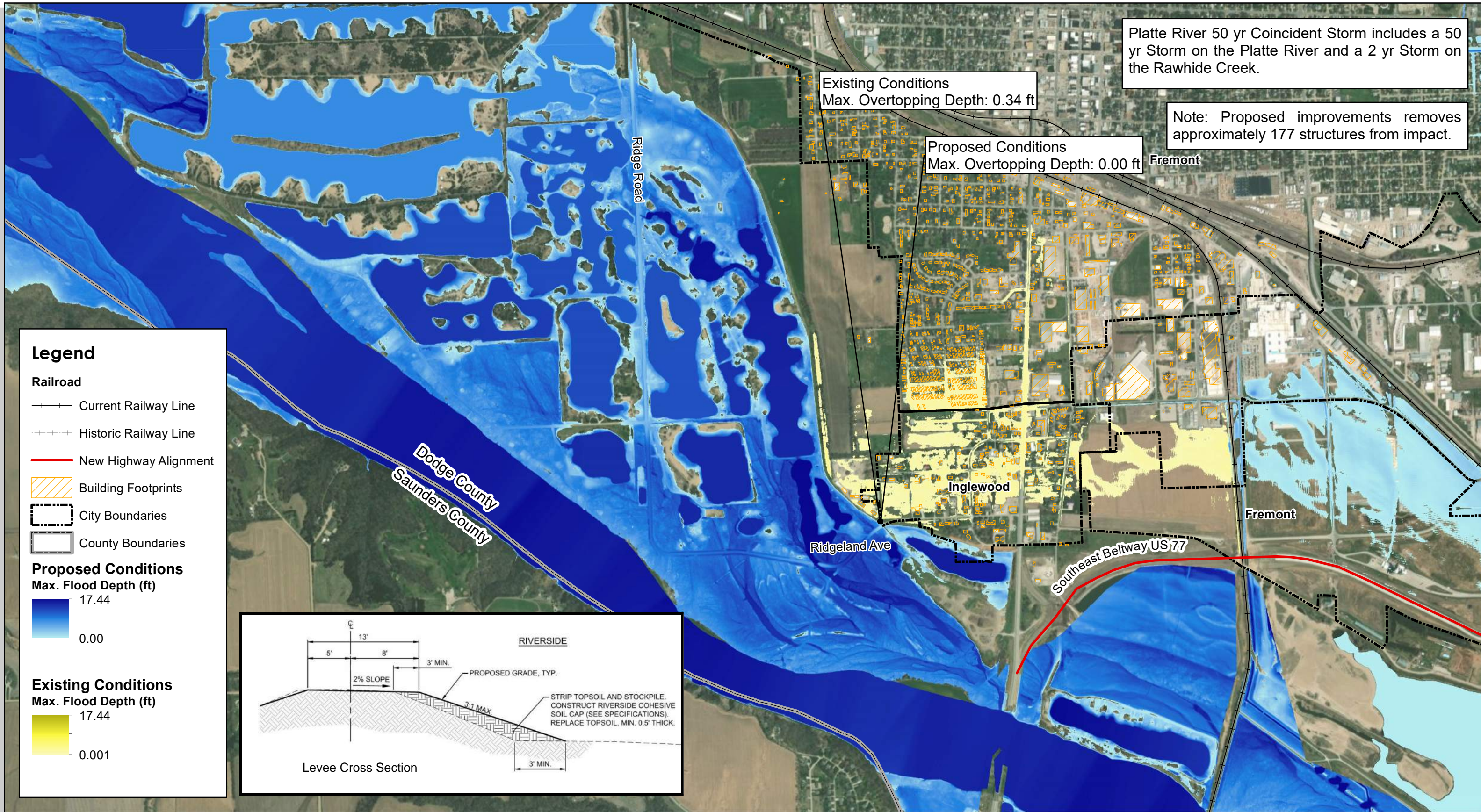
# Platte River 100 - year Coincident Flow - Ventura Embankment Improvements

**DRAFT**

Platte Township - West Fremont Drainage Study



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Date: 9/12/2023  
Software: ArcGIS 10.8.1

# Platte River 50-year Coincident Flow - Farmland Levee 50-year+0 ft

**DRAFT**

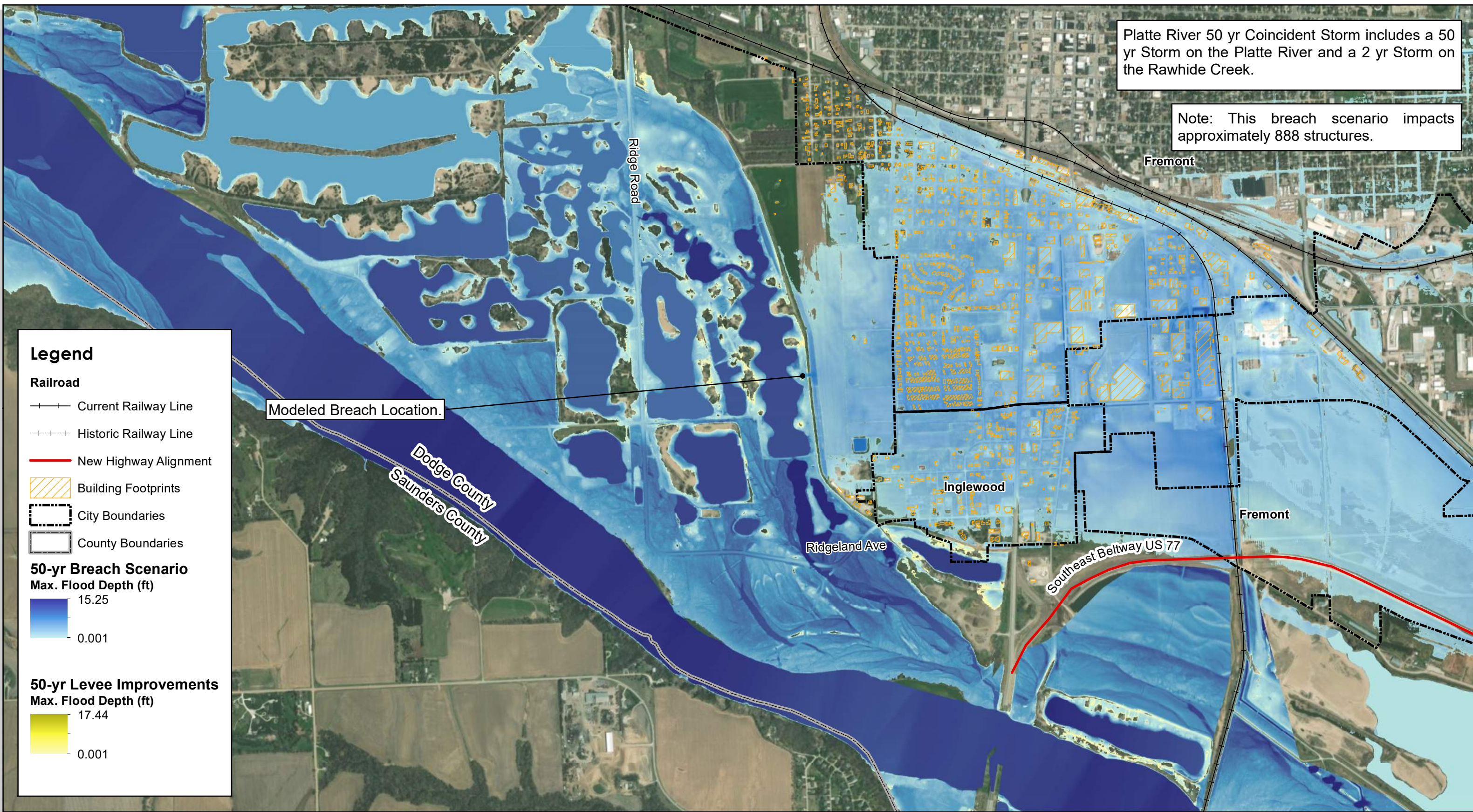
Platte Township - West Fremont Drainage Study



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Platte River 50 yr Coincident Storm includes a 50 yr Storm on the Platte River and a 2 yr Storm on the Rawhide Creek.

Note: This breach scenario impacts approximately 888 structures.



**Legend**

**Railroad**

- Current Railway Line
- Historic Railway Line

**New Highway Alignment**

- Building Footprints
- City Boundaries
- County Boundaries

**50-yr Breach Scenario**  
Max. Flood Depth (ft)

- 15.25
- 0.001

**50-yr Levee Improvements**  
Max. Flood Depth (ft)

- 17.44
- 0.001

Modeled Breach Location.

Dodge County  
Saunders County

Ridgeland Ave

Inglewood

Southeast Beltway US 77

Fremont

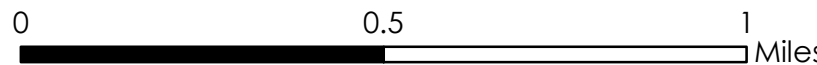
Fremont

Created By: CEO  
Date: 9/12/2023  
Software: ArcGIS 10.8.1

**Platte River 50-year Coincident Flow - Farmland Levee 50-year+0 ft Breach Scenario**

**DRAFT**

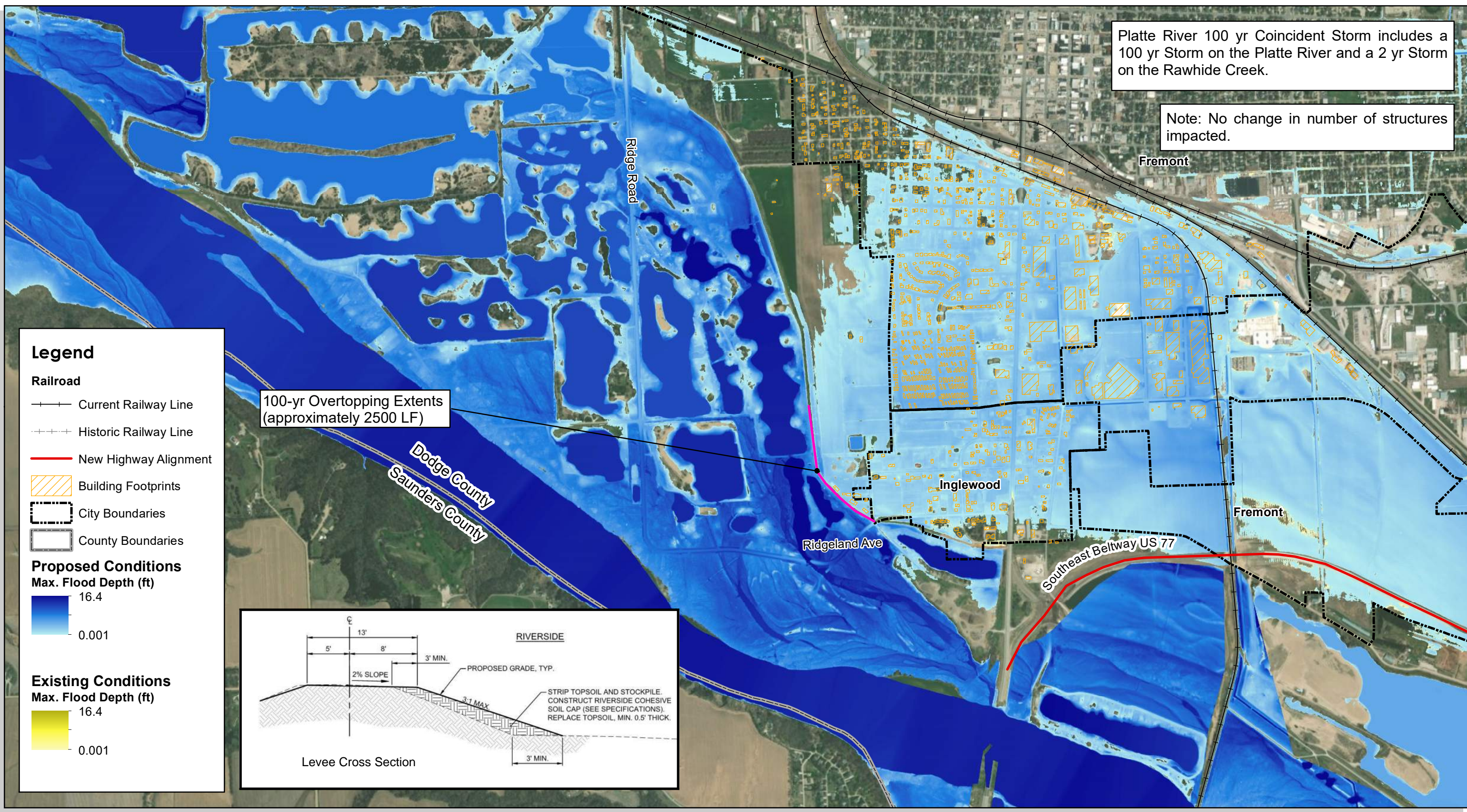
Platte Township - West Fremont Drainage Study



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Platte River 100 yr Coincident Storm includes a 100 yr Storm on the Platte River and a 2 yr Storm on the Rawhide Creek.

Note: No change in number of structures impacted.



**Legend**

**Railroad**

- +— Current Railway Line
- - - Historic Railway Line
- New Highway Alignment

**Building Footprints**

**City Boundaries**

**County Boundaries**

**Proposed Conditions**

Max. Flood Depth (ft)

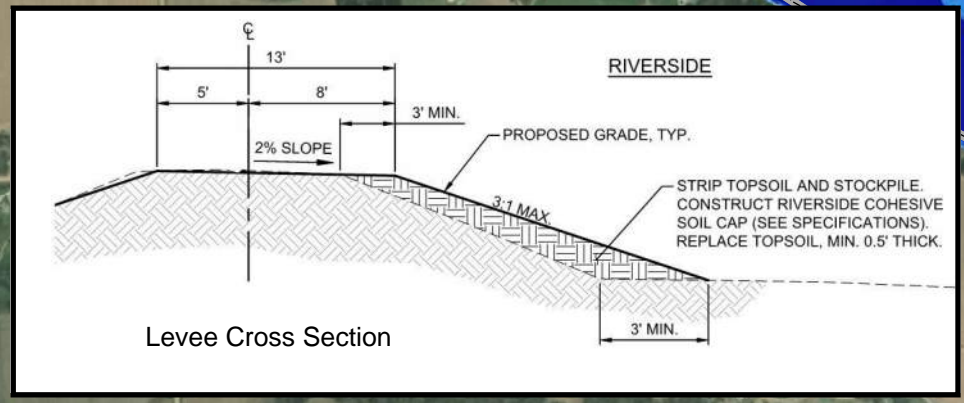
- 16.4
- 0.001

**Existing Conditions**

Max. Flood Depth (ft)

- 16.4
- 0.001

100-yr Overtopping Extents (approximately 2500 LF)

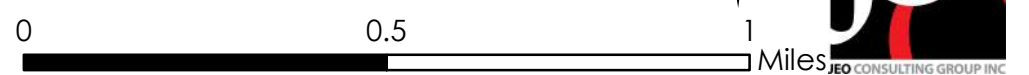


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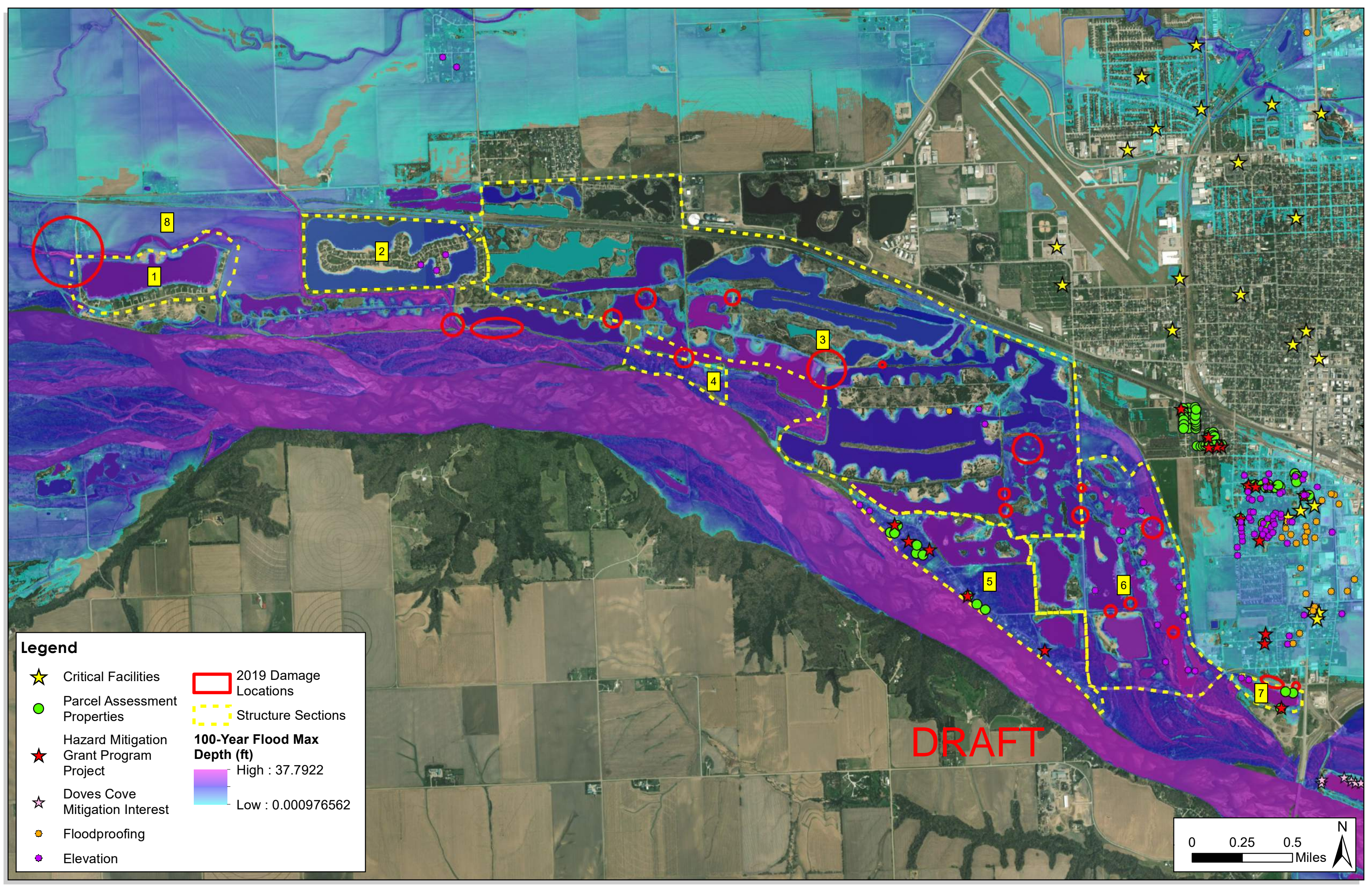
# Platte River 100-year Coincident Flow - Farmland Levee 50-year+0 ft

**DRAFT**

Platte Township - West Fremont Drainage Study



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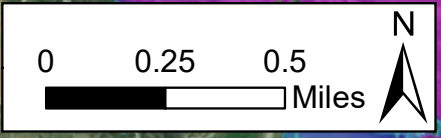
**Legend**

- ★ Critical Facilities
- Parcel Assessment Properties
- ★ Hazard Mitigation Grant Program Project
- ★ Doves Cove Mitigation Interest
- Floodproofing
- Elevation
- 2019 Damage Locations
- Structure Sections

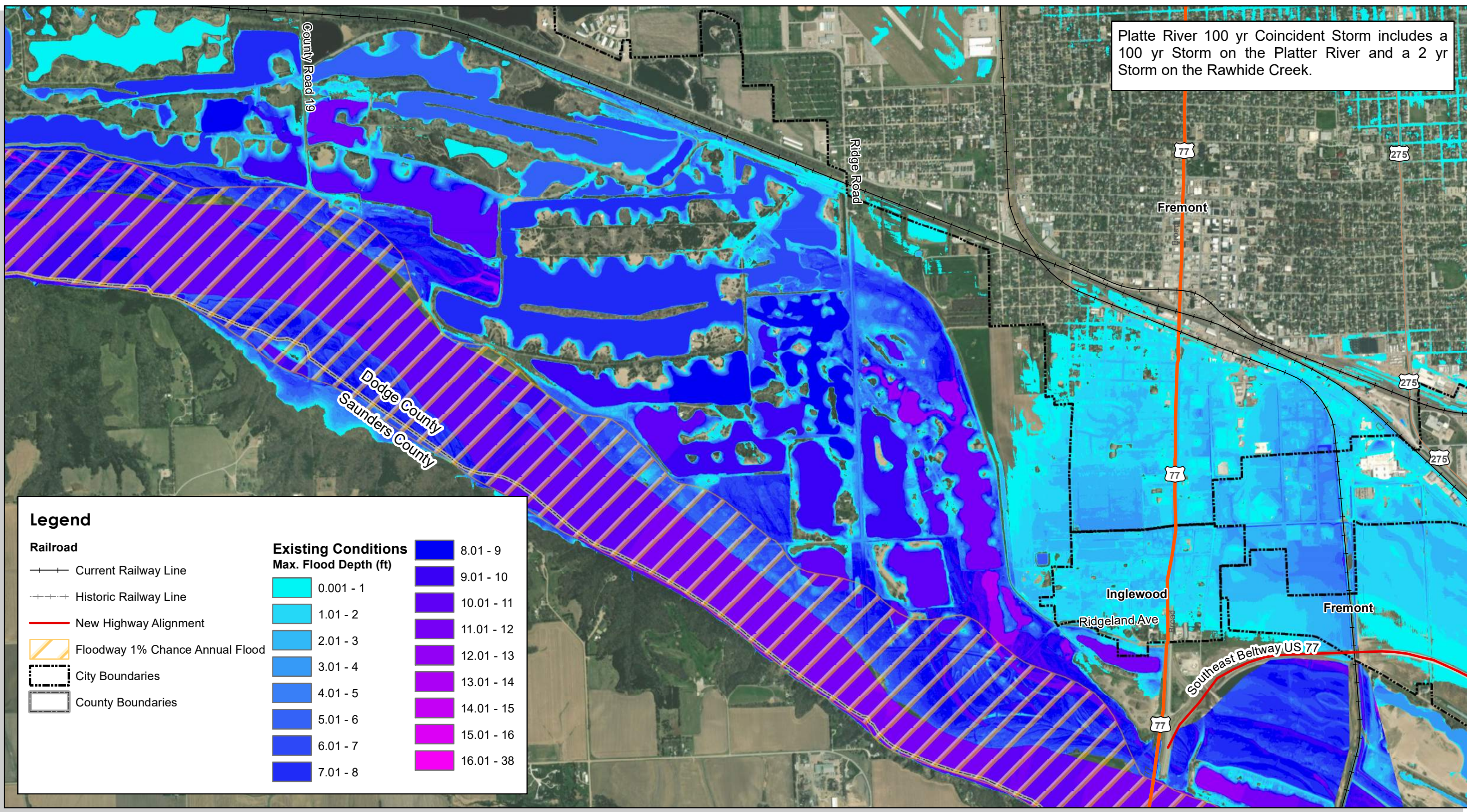
**100-Year Flood Max Depth (ft)**

- High : 37.7922
- Low : 0.000976562

DRAFT



Platte River 100 yr Coincident Storm includes a 100 yr Storm on the Platte River and a 2 yr Storm on the Rawhide Creek.



**Legend**

**Railroad**

- +— Current Railway Line
- ++++ Historic Railway Line
- New Highway Alignment
- ▨ Floodway 1% Chance Annual Flood
- City Boundaries
- County Boundaries

**Existing Conditions Max. Flood Depth (ft)**

|           |            |
|-----------|------------|
| 0.001 - 1 | 8.01 - 9   |
| 1.01 - 2  | 9.01 - 10  |
| 2.01 - 3  | 10.01 - 11 |
| 3.01 - 4  | 11.01 - 12 |
| 4.01 - 5  | 12.01 - 13 |
| 5.01 - 6  | 13.01 - 14 |
| 6.01 - 7  | 14.01 - 15 |
| 7.01 - 8  | 15.01 - 16 |
|           | 16.01 - 38 |

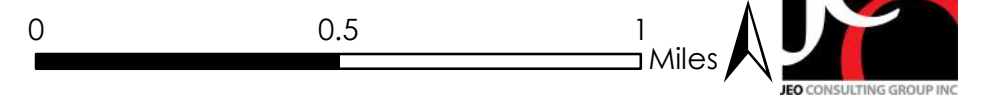
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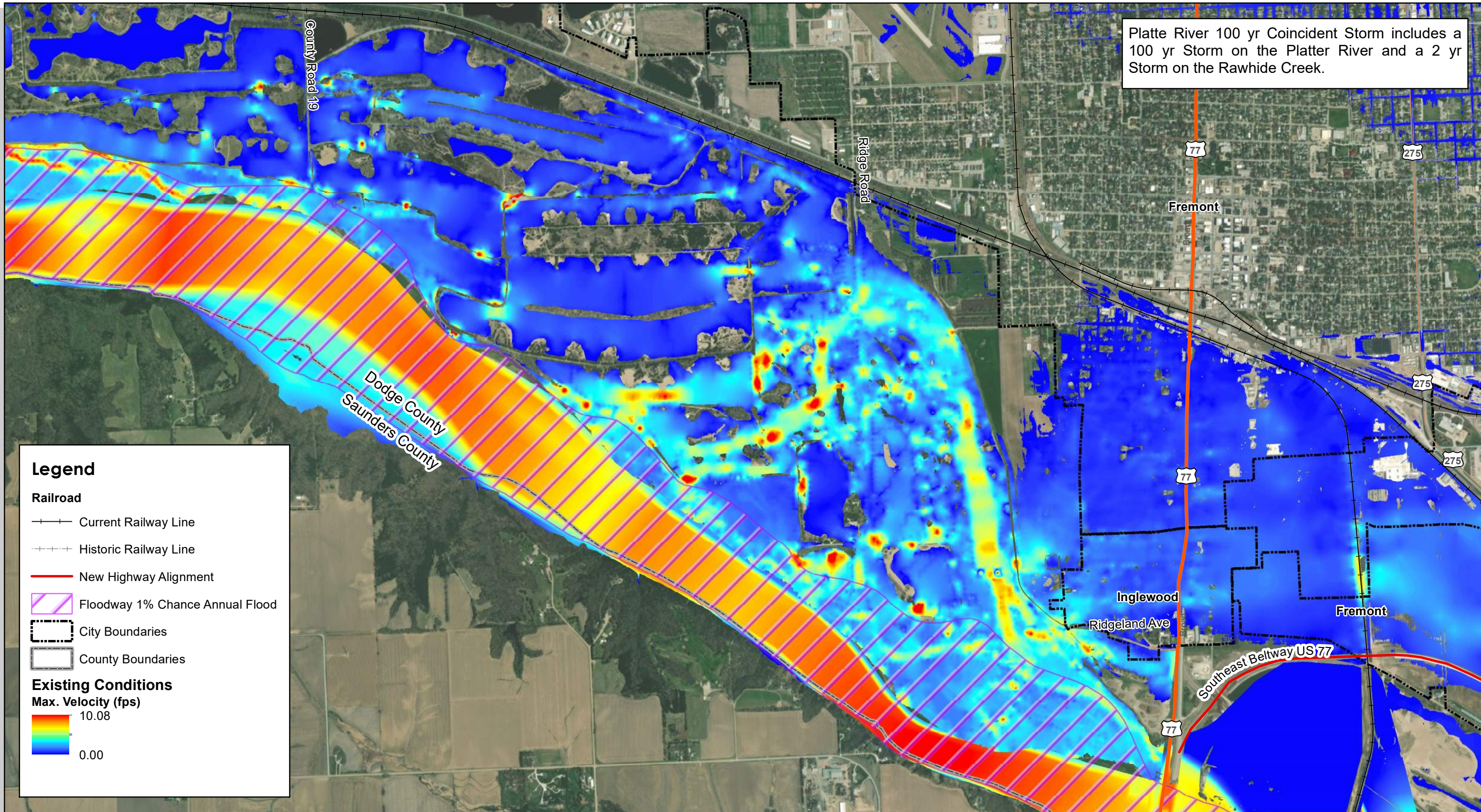
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**DRAFT**

# Platte River 100 - year Coincident Flow

Platte Township - West Fremont Drainage Study





Platte River 100 yr Coincident Storm includes a 100 yr Storm on the Platte River and a 2 yr Storm on the Rawhide Creek.

**Legend**

**Railroad**

- Current Railway Line
- - - Historic Railway Line

**New Highway Alignment**

- New Highway Alignment

**Floodway 1% Chance Annual Flood**

- ▨ Floodway 1% Chance Annual Flood

**City Boundaries**

- ⋯ City Boundaries

**County Boundaries**

- ⋯ County Boundaries

**Existing Conditions**

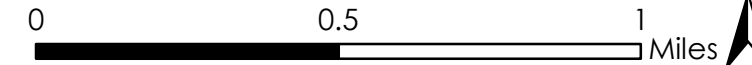
**Max. Velocity (fps)**

- 10.08
- 0.00

# Platte River 100 - year Coincident Flow Velocity

**DRAFT**

Platte Township - West Fremont Drainage Study



Created By: CEO  
 Date: 8/22/23  
 Software: ArcGIS 10.8.1

This map was prepared using information from record drawings supplied by JEO and/or other applicable city, county, federal, or public or private entities. JEO does not guarantee the accuracy of this map or the information used to prepare this map. This is not a scaled plat.

**ENGINEER'S CONCEPTUAL OPINION OF PROBABLE COST****Dodge County Platte Township - West Fremont Drainage Study****Fremont, NE****JEO Project No. 201901.00***Date Prepared:  
September 13, 2023***SUMMARY OF CONCEPTUAL PROJECT COSTS****PROJECT A - Eliminate Low Spots (50-yr + 0') and Riverside Clay Cap**

|                           |                    |
|---------------------------|--------------------|
| Construction Cost         | \$884,800          |
| Non-Construction Cost     | \$382,700          |
| <b>Total Project Cost</b> | <b>\$1,267,500</b> |

**PROJECT B - Project A + Underseepage Control**

|                           |                    |
|---------------------------|--------------------|
| Construction Cost         | \$4,202,100        |
| Non-Construction Cost     | \$1,868,700        |
| <b>Total Project Cost</b> | <b>\$6,070,800</b> |

**PROJECT C - Overtopping Protection Landside Riprap**

|                           |                    |
|---------------------------|--------------------|
| Construction Cost         | \$3,493,400        |
| Non-Construction Cost     | \$1,251,700        |
| <b>Total Project Cost</b> | <b>\$4,745,100</b> |

**PROJECT D - Ventura Closure**

|                           |                  |
|---------------------------|------------------|
| Construction Cost         | \$252,000        |
| Non-Construction Cost     | \$132,200        |
| <b>Total Project Cost</b> | <b>\$384,200</b> |

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**ENGINEER'S CONCEPTUAL OPINION OF PROBABLE COST**

**Dodge County Platte Township - West Fremont Drainage Study**

**Fremont, NE**

**JEO Project No. 201901.00**

Date Prepared:  
September 13, 2023



**ESTIMATE OF QUANTITIES**

| Item #   | Description   | Unit     | Quantity | Unit Price      | Total               |
|--|---|----------|----------|-----------------|---------------------|
| <b>PROJECT A - Eliminate Low Spots (50-yr + 0') and Riverside Clay Cap</b> |   |          |          |                 |                     |
| 1.   | Mobilization  | LS       | 1        | \$50,265        | \$50,265            |
| 2.   | Bonding and Insurance                               | LS       | 1        | \$16,755        | \$16,755            |
| 3.   | Clearing and Grubbing                               | LS       | 1        | \$20,000        | \$20,000            |
| 4.   | Remove Tree, > 24" Dia.                             | EA       | 10       | \$2,000         | \$20,000            |
| 5.   | Remove Fence  | LF       | 0        | \$20            | \$0                 |
| 6.   | Earthwork, Measured in Embankment (Fill)            | CY       | 6,500    | \$30            | \$195,000           |
| 7.   | Earthwork, Measured in Embankment (Cut)             | CY       | 0        | \$20            | \$0                 |
| 8.   | Crushed Rock Surface Course, 3" Thick               | TONS     | 1,720    | \$60            | \$103,200           |
| 9.   | 8" Concrete Pavement                                | SY       | 1,100    | \$80            | \$88,000            |
| 10.  | Utility Pole Relocation                             | EA       | 5        | \$5,000         | \$25,000            |
| 11.  | Remove and Replace 12' Wide Swing Gate              | EA       | 2        | \$2,000         | \$4,000             |
| 12.  | Stabilized Construction Entrance                    | EA       | 5        | \$5,000         | \$25,000            |
| 13.  | Silt Fence, Low Porosity                            | LF       | 10,000   | \$6             | \$60,000            |
| 14.  | Seeding and Hydromulch                              | ACRE     | 13       | \$10,000        | \$130,000           |
| Construction Subtotal  |   |          |          |                 | \$737,300           |
|  |   |          |          | Contingency 20% | \$147,500           |
| <b>Total Opinion of Construction Cost</b>                                  |   |          |          |                 | <b>\$884,800</b>    |
| <b>NON-CONSTRUCTION ITEMS</b>  |   |          |          |                 |                     |
| 1.   | Design Services (Engineering, Survey, Cons. Admin.) |          | 24%      | \$              | 212,400             |
| 2.   | Overhead (Legal, Fiscal, Etc.)                      |          | 5%       | \$              | 44,200              |
| 3.   | Permitting  |          | 6%       | \$              | 53,100              |
| 4.   | Land Acquisition (\$20k/acre)                       | 2 Acres  |          | \$              | 40,000              |
| 5.   | Temp Land Access (\$3k/acre)                        | 11 Acres |          | \$              | 33,000              |
| 6.   | Spoils Disposal Site(s) (\$3k/acre)                 | Acres    |          | \$              | -                   |
| Subtotal   |   |          |          |                 | \$ 382,700          |
| <b>Total Opinion of Project Cost</b>                                       |   |          |          |                 | <b>\$ 1,267,500</b> |

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**ENGINEER'S CONCEPTUAL OPINION OF PROBABLE COST**

Dodge County Platte Township - West Fremont Drainage Study

Fremont, NE

JEO Project No. 201901.00

Date Prepared:  
September 13, 2023



**ESTIMATE OF QUANTITIES**

| Item #  | Description                              | Unit | Quantity | Unit Price | Total              |
|---|--|------|----------|------------|--------------------|
| <b>PROJECT B - Project A + Underseepage Control</b> |  |      |          |            |                    |
| 1.  | Mobilization                             | LS   | 1        | \$238,748  | \$238,748          |
| 2.  | Bonding and Insurance                    | LS   | 1        | \$79,583   | \$79,583           |
| 3.  | Clearing and Grubbing                    | LS   | 1        | \$100,000  | \$100,000          |
| 4.  | Remove Tree, > 24" Dia.                  | EA   | 30       | \$2,000    | \$60,000           |
| 5.  | Remove Fence                             | LF   | 0        | \$20       | \$0                |
| 6.  | Earthwork, Measured in Embankment (Fill) | CY   | 6,500    | \$30       | \$195,000          |
| 7.  | Earthwork, Measured in Embankment (Cut)  | CY   | 0        | \$20       | \$0                |
| 8.  | Seepage Berm (Fill)                      | CY   | 76,500   | \$25       | \$1,912,500        |
| 9.  | Toe Drain Pipe, 10" PVC Perforated       | LF   | 1,000    | \$200      | \$200,000          |
| 10.   | Crushed Rock Surface Course, 3" Thick    | TONS | 1,720    | \$60       | \$103,200          |
| 11.   | 8" Concrete Pavement                     | SY   | 1,100    | \$80       | \$88,000           |
| 12.   | Utility Pole Relocation                  | EA   | 5        | \$5,000    | \$25,000           |
| 13.   | Remove and Replace 12' Wide Swing Gate   | EA   | 2        | \$2,000    | \$4,000            |
| 14.   | Stabilized Construction Entrance         | EA   | 5        | \$5,000    | \$25,000           |
| 15.   | Silt Fence, Low Porosity                 | LF   | 15,100   | \$6        | \$90,600           |
| 16.   | Seeding and Hydromulch                   | ACRE | 38       | \$10,000   | \$380,000          |
| Construction Subtotal                               |  |      |          |            | \$3,501,700        |
| Contingency 20%                                     |  |      |          |            | \$700,400          |
| <b>Total Opinion of Construction Cost</b>           |  |      |          |            | <b>\$4,202,100</b> |

**NON-CONSTRUCTION ITEMS**

|                                      |   |          |    |                     |
|--------------------------------------|---|----------|----|---------------------|
| 1.                                   | Design Services (Engineering, Survey, Cons. Admin.) | 24%      | \$ | 1,008,500           |
| 2.                                   | Overhead (Legal, Fiscal, Etc.)                      | 5%       | \$ | 210,100             |
| 3.                                   | Permitting  | 6%       | \$ | 252,100             |
| 4.                                   | Land Acquisition (\$20k/acre)                       | 19 Acres | \$ | 380,000             |
| 5.                                   | Temp Land Access (\$3k/acre)                        | 6 Acres  | \$ | 18,000              |
| 6.                                   | Spoils Disposal Site(s) (\$3k/acre)                 | Acres    | \$ | -                   |
| Subtotal                             |   |          |    | \$ 1,868,700        |
| <b>Total Opinion of Project Cost</b> |   |          |    | <b>\$ 6,070,800</b> |

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**ENGINEER'S CONCEPTUAL OPINION OF PROBABLE COST**

**Dodge County Platte Township - West Fremont Drainage Study**

**Fremont, NE**

**JEO Project No. 201901.00**

Date Prepared:  
September 13, 2023



**ESTIMATE OF QUANTITIES**

| Item #  | Description                              | Unit | Quantity | Unit Price   | Total              |
|---|--|------|----------|--------------|--------------------|
| <b>PROJECT C - Overtopping Protection Landside Riprap</b> |  |      |          |              |                    |
| 1.  | Mobilization                             | LS   | 1        | \$198,480.00 | \$198,480          |
| 2.  | Bonding and Insurance                    | LS   | 1        | \$66,160.00  | \$66,160           |
| 3.  | Clearing and Grubbing                    | LS   | 1        | \$20,000.00  | \$20,000           |
| 4.  | Remove Tree, > 24" Dia.                  | EA   | 10       | \$2,000.00   | \$20,000           |
| 5.  | Remove Fence                             | LF   | 0        | \$20.00      | \$0                |
| 6.  | Earthwork, Measured in Embankment (Fill) | CY   | 0        | \$25.00      | \$0                |
| 7.  | Earthwork, Measured in Embankment (Cut)  | CY   | 0        | \$20.00      | \$0                |
| 8.  | Rock Riprap, NDOR Type B                 | TONS | 24,000   | \$105.00     | \$2,520,000        |
| 9.  | Crushed Rock Surface Course, 3" Thick    | TONS | 440      | \$60.00      | \$26,400           |
| 10.   | 8" Concrete Pavement                     | SY   | 0        | \$75.00      | \$0                |
| 11.   | Utility Pole                             | EA   | 0        | \$5,000.00   | \$0                |
| 12.   | Remove and Replace 12' Wide Swing Gate   | LS   | 0        | \$2,000.00   | \$0                |
| 13.   | Stabilized Construction Entrance         | EA   | 2        | \$5,000.00   | \$10,000           |
| 14.   | Silt Fence, Low Porosity                 | LF   | 2,500    | \$8.00       | \$20,000           |
| 15.   | Seeding and Hydromulch                   | ACRE | 3        | \$10,000.00  | \$30,000           |
| Construction Subtotal                                     |  |      |          |              | \$2,911,100        |
| Contingency 20%   |  |      |          |              | \$582,300          |
| <b>Total Opinion of Construction Cost</b>                 |  |      |          |              | <b>\$3,493,400</b> |

**NON-CONSTRUCTION ITEMS**

|                                      |   |         |    |                     |
|--------------------------------------|---|---------|----|---------------------|
| 1.                                   | Design Services (Engineering, Survey, Cons. Admin.) | 24%     | \$ | 838,400.00          |
| 2.                                   | Overhead (Legal, Fiscal, Etc.)                      | 5%      | \$ | 174,700.00          |
| 3.                                   | Permitting  | 6%      | \$ | 209,600.00          |
| 4.                                   | Land Acquisition (\$20k/acre)                       | 1 Acres | \$ | 20,000.00           |
| 5.                                   | Temp Land Access (\$3k/acre)                        | 3 Acres | \$ | 9,000.00            |
| 6.                                   | Spoils Disposal Site(s) (\$3k/acre)                 | Acres   | \$ | -                   |
| Subtotal                             |   |         |    | \$ 1,251,700.00     |
| <b>Total Opinion of Project Cost</b> |   |         |    | <b>\$ 4,745,100</b> |

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**ENGINEER'S CONCEPTUAL OPINION OF PROBABLE COST**

Dodge County Platte Township - West Fremont Drainage Study

Fremont, NE

JEO Project No. 201901.00

Date Prepared:  
September 13, 2023



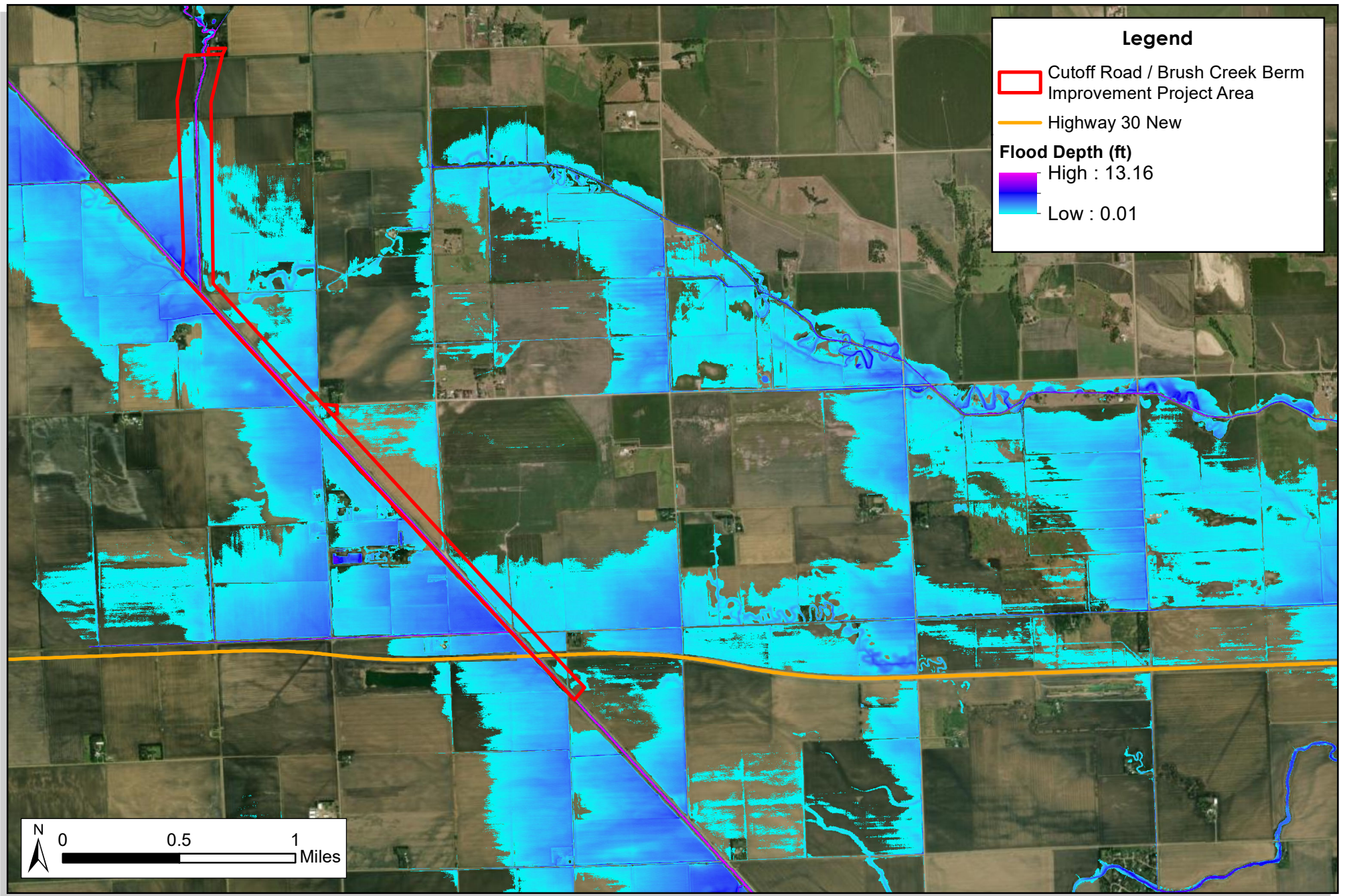
**ESTIMATE OF QUANTITIES**

| Item #                                    | Description                              | Unit | Quantity | Unit Price  | Total            |
|---|--|------|----------|-------------|------------------|
| <b>PROJECT D - Ventura Closure</b>        |  |      |          |             |                  |
| 1.  | Mobilization                             | LS   | 1        | \$14,313.00 | \$14,313         |
| 2.  | Bonding and Insurance                    | LS   | 1        | \$4,771.00  | \$4,771          |
| 3.  | Clearing and Grubbing                    | LS   | 1        | \$5,000.00  | \$5,000          |
| 4.  | Remove Tree, > 24" Dia.                  | EA   | 4        | \$2,000.00  | \$8,000          |
| 5.  | Remove Fence                             | LF   | 0        | \$20.00     | \$0              |
| 6.  | Earthwork, Measured in Embankment (Fill) | CY   | 260      | \$30.00     | \$7,800          |
| 7.  | Earthwork, Measured in Embankment (Cut)  | CY   | 0        | \$20.00     | \$0              |
| 8.  | Rock Riprap, NDOR Type B                 | TONS | 1,000    | \$105.00    | \$105,000        |
| 9.  | Crushed Rock Surface Course, 3" Thick    | TONS | 0        | \$60.00     | \$0              |
| 10.                                       | 24" RCP, Class III                       | LF   | 64       | \$500.00    | \$32,000         |
| 11.                                       | 24" RCP Flared End Section               | EA   | 1        | \$3,500.00  | \$3,500          |
| 12.                                       | Automatic Flap Gate                      | EA   | 1        | \$8,500.00  | \$8,500          |
| 13.                                       | Wooden Pipe Support                      | EA   | 1        | \$5,000.00  | \$5,000          |
| 14.                                       | Stabilized Construction Entrance         | EA   | 1        | \$5,000.00  | \$5,000          |
| 15.                                       | Silt Fence, Low Porosity                 | LF   | 130      | \$8.00      | \$1,040          |
| 16.                                       | Seeding and Hydromulch                   | ACRE | 1        | \$10,000.00 | \$10,000         |
| Construction Subtotal                     |  |      |          |             | \$210,000        |
| Contingency 20%                           |  |      |          |             | \$42,000         |
| <b>Total Opinion of Construction Cost</b> |  |      |          |             | <b>\$252,000</b> |

**NON-CONSTRUCTION ITEMS**

|                                      |   |         |    |                   |
|--------------------------------------|---|---------|----|-------------------|
| 1.                                   | Design Services (Engineering, Survey, Cons. Admin.) | 24%     | \$ | 60,500.00         |
| 2.                                   | Overhead (Legal, Fiscal, Etc.)                      | 5%      | \$ | 12,600.00         |
| 3.                                   | Permitting  | 6%      | \$ | 15,100.00         |
| 4.                                   | Land Acquisition (\$20k/acre)                       | 1 Acres | \$ | 20,000.00         |
| 5.                                   | Temp Land Access (\$3k/acre)                        | 3 Acres | \$ | 9,000.00          |
| 6.                                   | UPRR Coordination                                   |         | \$ | 15,000.00         |
| Subtotal                             |   |         |    | \$ 132,200.00     |
| <b>Total Opinion of Project Cost</b> |   |         |    | <b>\$ 384,200</b> |

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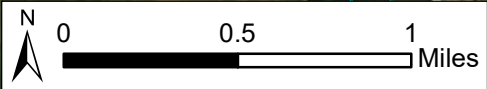


**Legend**

- Cutoff Road / Brush Creek Berm Improvement Project Area
- Highway 30 New

**Flood Depth (ft)**

- High : 13.16
- Low : 0.01



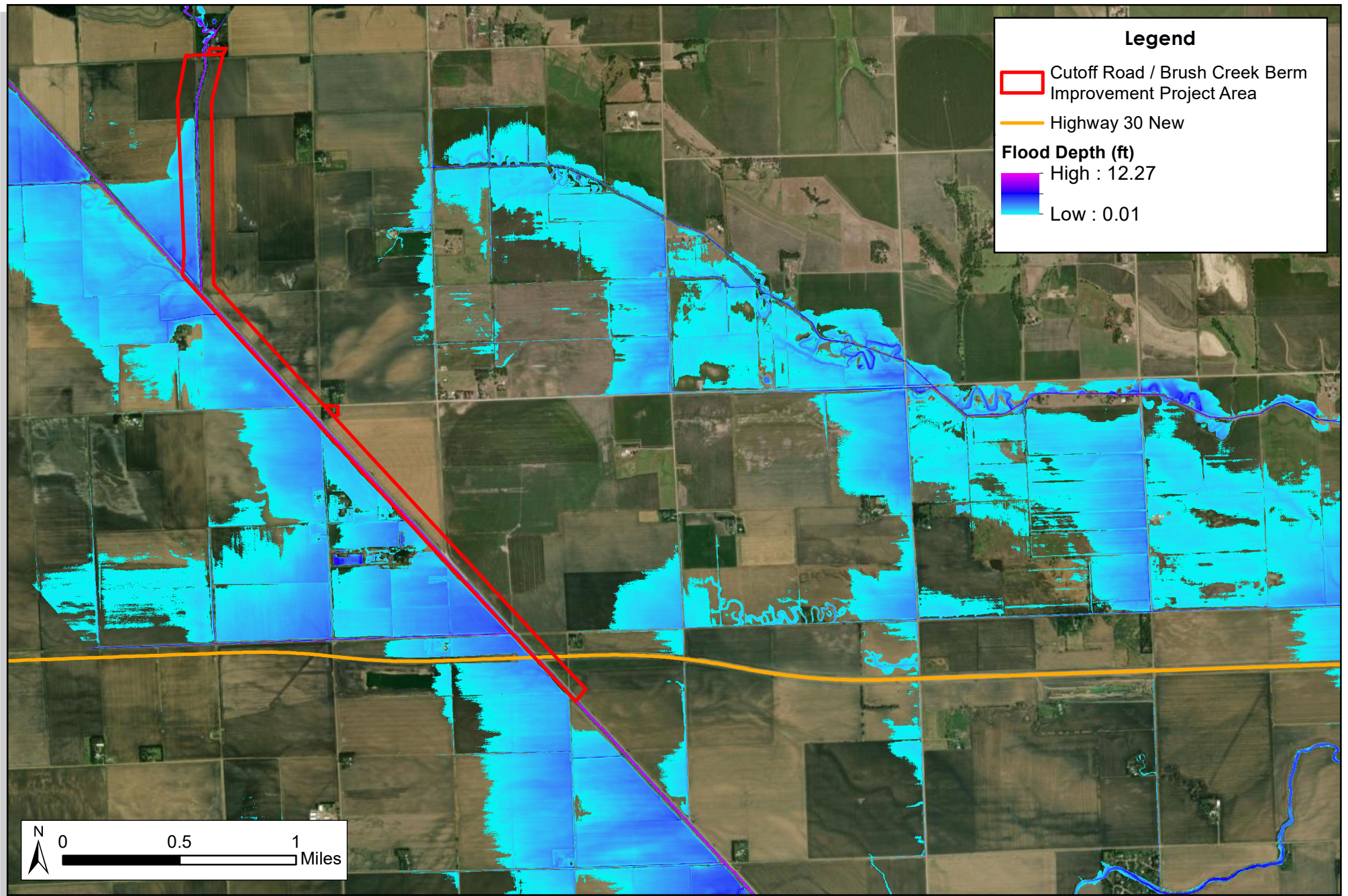
Created By: DJV  
 Date: 9/26/2023  
 Software: ArcGIS 10.8.1

# Existing Conditions - 100 Yr Flood

Rawhide Creek WFPO

This map was prepared using information from record drawings supplied by JEO and/or other applicable city, county, federal, or public or private entities. JEO does not guarantee the accuracy of this map or the information used to prepare this map. This is not a scaled plot.



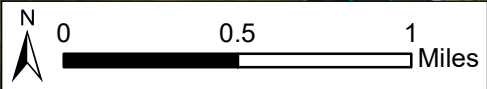


**Legend**

- Cutoff Road / Brush Creek Berm Improvement Project Area
- Highway 30 New

**Flood Depth (ft)**

- High : 12.27
- Low : 0.01



Created By: DJV  
 Date: 9/26/2023  
 Software: ArcGIS 10.8.1

# Proposed Conditions - 100 Yr Flood

Rawhide Creek WFPO

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# LPNNRD

## Cover Sheet For NSWCP Cost-Share Applications

Date 4-10-23 Land Legal See Attached Aerial photo

Landowner Tom Sprunk Phone # 402.910.6797

Address \_\_\_\_\_ SS# \_\_\_\_\_

City Columbus State NE Zip 68601

Operator JAMB Phone# \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

1. Cost-Share Request: (circle one option per application)

- A. Establishment of warm or cool season grass on cropland.
- B. New Terraces with Tile Outlets  
(has never been terraced before) (existing terraces on field are 20 years old or older)
- C. New Terraces with grass waterways  
(has never been terraced before) (existing terraces on field are 20 years old or older)
- D. Install Tile outlets into existing terrace system  
(this practice is for summer sign-up only, with a \$3,500.00 cost-share limit and limited payment on dirt work.)

E. Water Impoundment Structure  
(75% land treatment required above structure site)

F. Other Grad. Stab. w/ cme inlet conjunction w/ Neb. Bufferstrip

2. If approved, when do you plan to do the work? Summer or Fall

3. Has this area been in grass or trees in the last 5 years? Yes or No

4. Is the proposed project located within the drainage of an existing or proposed NRD watershed structure, or watershed targeted for accelerated land treatment?  
Yes or No If yes which watershed? Shell Creek

5. Comments Plans to do summer 2023

NRCS Estimate \$ 19,144.00

**Stankoski Dozing and Excavating**

42436 220th Street  
Monroe, NE 68647  
402-948-0199



**INVOICE**

**BILL TO**

Tom Sprunk  
9680 63rd Ave  
Columbus, NE 68601

*Actual Bill  
9/23*

**INVOICE # 1205**

**DATE 09/20/2023**

**DUE DATE 10/20/2023**

**TERMS Net 30**

| DATE       | ACTIVITY                | DESCRIPTION   | QTY   | RATE     | AMOUNT   |
|------------|-------------------------|---|-------|----------|----------|
| 09/08/2023 | <b>Culvert</b>          | culvert   | 1     | 4,829.75 | 4,829.75 |
| 09/08/2023 | <b>Dozer</b>            | level area  | 12    | 170.00   | 2,040.00 |
| 09/09/2023 | <b>Excavator</b>        | prep area for<br>culvert<br>instillation,<br>install culvert,<br>load dirt into<br>trucks | 25    | 170.00   | 4,250.00 |
| 09/09/2023 | <b>Engine idle time</b> | Excavator   | 2     | -170.00  | -340.00  |
| 09/11/2023 | <b>Dirt expense</b>     | 48 loads @<br>28yrd per<br>load=1344<br>yards<br>\$4 per yard                             | 1,344 | 4.00     | 5,376.00 |
| 09/11/2023 | <b>Trucking</b>         | Zarek trucking<br>to move the<br>dirt to jobsite  | 16    | 130.00   | 2,080.00 |
| 09/11/2023 | <b>Trucking</b>         | Johnson<br>trucking to<br>move dirt to<br>jobsite   | 31.50 | 135.00   | 4,252.50 |
| 09/11/2023 | <b>Rock</b>             | 3/4 inch rock   | 1     | 1,190.35 | 1,190.35 |
| 09/11/2023 | <b>Labor</b>            | Air<br>compressor<br>w/tamper   | 1     | 500.00   | 500.00   |
| 09/11/2023 | <b>seed</b>             | tri-grain mix   | 3     | 22.00    | 66.00    |
| 09/11/2023 | <b>seed</b>             | pasture mix   | 4     | 50.00    | 200.00   |

Thank you for doing business with us!

**BALANCE DUE**

**\$24,444.60**

1.5% interest will be charged per month to accounts not paid in full by due date

# Stankoski Dozing and Excavating

42436 220th Street  
Monroe, NE 68647  
402-948-0199



Estimate

Tom Sprunk  
9680 63rd Ave  
Columbus, NE 68601

1028  
03/01/2023

| DATE       |              | DESCRIPTION  | QTY   | RATE   | AMOUNT   |
|------------|--------------|--|-------|--------|----------|
| 05/01/2023 | Dozer        | Clear area, install pipe, load dirt, smooth and pack dirt            | 13    | 170.00 | 2,210.00 |
| 05/01/2023 | Excavator    | Clear area, install pipe, load dirt, smooth and pack dirt            | 20    | 170.00 | 3,400.00 |
| 05/01/2023 | Trucking     | Side dumper use 37 loads   | 37    | 120.00 | 4,440.00 |
| 05/01/2023 | Dirt expense | Dirt needed for project 28 yards per load x 37 loads at \$4 per yard | 1,036 | 4.00   | 4,144.00 |

TOTAL

**\$14,194.00**

PIPE 4,450.00  
18,644.00  
5x5 rock 500.00  
19,144.00



# Request for Assistance (On-Site Waste System) Shell Creek Watershed Land & Water Improvement Program

NAME & ADDRESS: Tom Sprunk  
9680 63rd Ave.  
Columbus, NE. 68601

PHONE NUMBER: 402.910.6797 COUNTY: Platte Co.

SOCIAL SECURITY or TAX IDENT NO: X - - - - - LEGAL: NW 4 Sec. 26-18-1W

IN ACCOUNT WITH THE SHELL CREEK WATERSHED IMPROVEMENT GROUP (SCWIG)

Please Check Appropriate Box:

Individual/Sole Proprietor     Corporation     Partnership     Other

Approximate Completion Date \_\_\_\_\_ Expiration Date \_\_\_\_\_

| Practice Number | Description of Practice        | Extent Requested | Other Funding | SCWIG Share | Total Amt Obligated | Payment     |
|-----------------|--------------------------------|------------------|---------------|-------------|---------------------|-------------|
|                 | Grade Stab. Structure<br>w/CMP | 1 <sup>st</sup>  | -0-           | 75%         | \$14,358.00         |             |
|                 | Installed                      | 1 <sup>st</sup>  | -0-           | 75%         |                     | \$18,333.45 |
|                 |                                | <b>TOTAL</b>     |               | \$ -        |                     | \$18,333.45 |

**LANDOWNER AND/OR APPLICANT CERTIFICATION:** I request assistance under the Shell Creek Watershed Land and Water Improvement program administered by the SCWIG. If applicable, the Practice(s) shown above is in accordance with NDEQ regulations developed by the State Of Nebraska. I further certify that I have the authority on behalf of the Landowner(s) to make this request and carry out the above practices and assume full responsibilities of the same. I agree that I am obligated to pay the contractor 100% of the cost and request reimbursement for 60% (up to \$300) for pump and inspection fees and 60% (up to \$3000) of the repair/replacement cost. Any reduction in the contractor's billing or refund of payment must be reported to the SCWIG. Violation of these rules will result in a lawsuit against me.

SIGNATURE: X Tom Sprunk DATE: 4-10-23

**TECHNICIAN'S STATEMENTS:**  
 The Landowner has applied for EQIP Funds  YES  NO or NA    Amount Approved \$ \_\_\_\_\_  
 TECHNICIAN'S SIGNATURE: Buil Boos DATE: 4-10-23

**REMARKS:**

The SCWIG approved the extent and amount shown above  
 For SCWIG Board: \_\_\_\_\_ DATE: \_\_\_\_\_

**CERTIFICATION:**  
 The practice shown above has been performed to the extent shown in practice units performed column and meets NDEQ specifications  
 \_\_\_\_\_  
 TECHNICIAN'S SIGNATURE    DATE: 9/25/23

| FOR SCWIG OFFICE USE: |       |
|-----------------------|-------|
| Actual Cost:          | _____ |
| Total Cost Share:     | _____ |
| Less Other:           | _____ |
| SCWIG Payment:        | _____ |
| Date Paid:            | _____ |

**NEBRASKA SOIL AND WATER CONSERVATION PROGRAM**  
**Cost-Share Assistance Application, Payment Claim and Agreement**

**FOR DNR USE ONLY**  
 B# \_\_\_\_\_  
 AB# \_\_\_\_\_

|  |                         |                           |                            |                      |
|--|-------------------------|---------------------------|----------------------------|----------------------|
| IN ACCOUNT WITH THE<br>STATE OF NEBRASKA<br>DEPARTMENT OF<br>NATURAL RESOURCES | 4-10-2023<br>DATE       | Tom Sprunk<br>LANDOWNER   |                            |                      |
|  | SOC SEC OR TAX IDENT NO | 9680 63rd Ave.<br>ADDRESS | Columbus NE.<br>CITY STATE | 68601<br>ZIP CODE +4 |
| TELEPHONE NUMBER (including Area Code)   |                         |                           |                            |                      |

- 1 (we) the undersigned do hereby request cost-share assistance to help defray the cost of installing the soil and water conservation practices as listed below. It is understood and agreed that
- 2 before receiving any cost-share funds it will be necessary for the landowner(s) to sign the agreement below relating to the maintenance of practices installed.
- 3 Practices must be planned and installed in accordance with technical specifications of the Natural Resources Conservation Service.
- 4 The responsible technician must make prior determination that the practices are feasible on the site where they are to be installed, that they are properly planned and installed, and that estimates of quantities are proper and reasonable.
- 5 Items of cost for which reimbursement is later claimed are to be supported by documentation of payments made or due to contractors or other workers.
- 6 This application will not be effective until approved by the Natural Resources District. Claims for payment will not be accepted more than nine (9) months from the date this application is approved unless an extension is granted by the Natural Resources District.
- 7 Maximum reimbursement will be limited to 75 percent of the actual cost to the landowner, the percentage of average costs specified below or the amount obligated by the Natural Resources District whichever amount is the least.

LOCATION OF PRACTICE NW4 1/4 SEC 26 TWP 18 RNG 14 Platte COUNTY

| APPLICANT'S REQUEST   |      |        |                 |                    | PRACTICE UNITS PERFORMED         |           |            |           |                                   |
|---|------|--------|-----------------|--------------------|----------------------------------|-----------|------------|-----------|-----------------------------------|
| PRACTICE NO. & DESCRIPTION  | UNIT | EXTENT | AVE. COST/ Unit | MAXIMUM ASSISTANCE |                                  | EXTENT    | SHARE RATE |           | COST-SHARE EXTENT X SMALLEST RATE |
|   |      |        |                 | %                  | \$                               |           | % AVE.     | % ACT     |                                   |
| Grade - Stab. Structure w/CMP   | ea   | 1      | 19,144.00       | 75                 | 14,358.00                        | 1ea       |            | 18,333.45 | \$18,333.45                       |
| TOTAL   |      |        |                 |                    |                                  | 14,358.00 | TOTAL      |           | \$18,333.45                       |
| Signature of Landowner or Authorized Rep: <u>Tom Sprunk</u><br>Date: <u>4-10-23</u> |      |        |                 |                    | LESS OTHER COST-SHARE ASSISTANCE |           |            |           | \$ -0-                            |
|   |      |        |                 |                    | TOTAL AMOUNT NSWCP CLAIM         |           |            |           | \$18,333.45                       |

Practices and Quantities requested are needed and practical and will be planned in accordance with Natural Resources Conservation Service technical specifications.

Buil Boz 4-10-23  
 Signature of Technician Date

**LANDOWNER(S) CERTIFICATION AND AGREEMENT**  
 I certify that the items for which payment is claimed were furnished under authority of the law and that the charges are reasonable, proper and correct and no part of the claim has been paid. I further certify that I am the owner of the above described property and agree that if any or all of above installed practices shall be removed, altered or modified so as to lessen their effectiveness without consent of the Natural Resources District for a period of ten years after the date of receiving payment, that a portion of the claimed amount shall be refunded to the Nebraska Department of Natural Resources if title to this land is transferred to another party. It shall be my responsibility to advise the new owner that this agreement is in force and to obtain such new owner's acceptance of the responsibilities herein.

**APPLICATION APPROVAL**  
 The \_\_\_\_\_ NRD Board of Directors approved the Applicant's Request and hereby obligate \$ \_\_\_\_\_

\_\_\_\_\_  
 Signature of NRD Representative Date

SIGNATURE OF LANDOWNER(S)  
Tom Sprunk

**COMPLETION AND DOCUMENTATION CERTIFICATION**  
Buil Boz 9/25/23  
 Signature of Technician Date

\_\_\_\_\_  
 Signature of NRD Representative Date

**NEBRASKA DEPARTMENT OF NATURAL RESOURCES CERTIFICATION**  
 I hereby certify that the above claim has been reviewed by me and I find it a proper claim against the Nebraska Soil and Water Conservation Fund.

\_\_\_\_\_  
 Authorized Signature Date

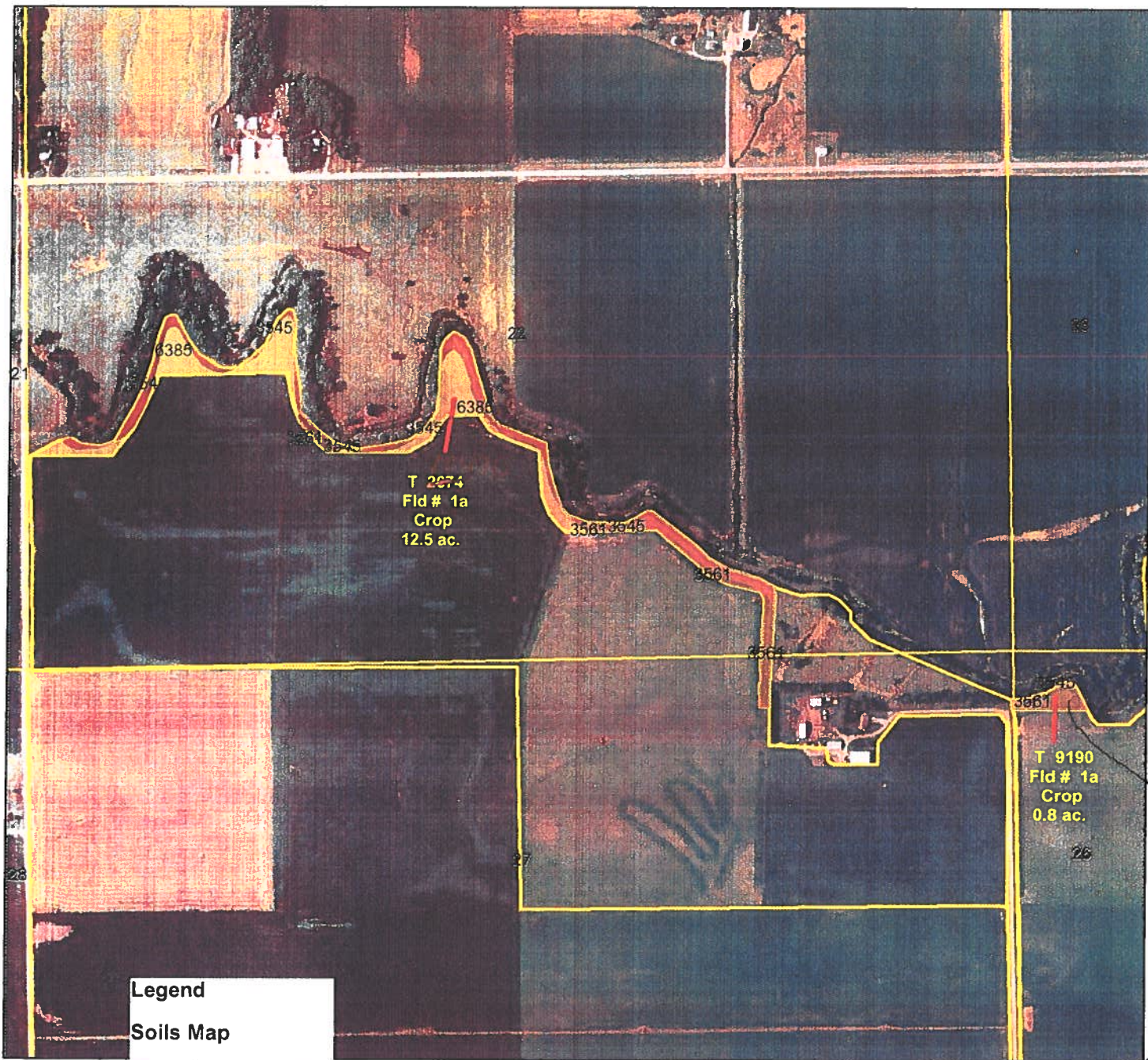
# Conservation Plan Map

Date: 12/1/2009

Customer(s): THOMAS FRANCIS SPRUNK  
District: LOWER PLATTE NORTH NATURAL RESOURCES DISTRICT  
Approximate Acres: 13.3  
Legal Description: NW4 26-18-1W, S2 22-18-1W

Field Office: COLUMBUS SERVICE CENTER  
Agency: NRCS  
Assisted By: Eric J Smith

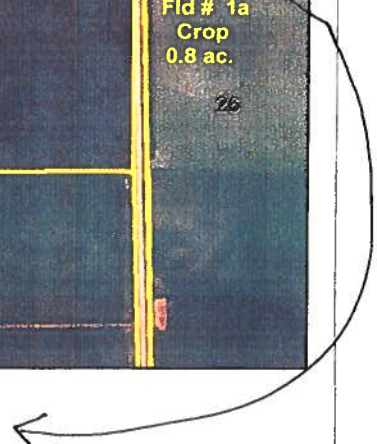
Land Units: Tract: 2674-Field: 1a, Tract: 9190 Field: 1a



**Legend**  
**Soils Map**  
<all other values>

- musym**
- 3545
  - 3561
  - 6385
  - NBS\_09\_t2674
  - plss\_a\_ne141

*Area of  
Grade Stab.  
and Nebr.  
Bufferstrip*



**Invoice**



601 P St Suite 200  
PO Box 84608  
Lincoln, NE 68501-4608  
Tel 402.474.6311, Fax 402.474.5063

September 27, 2023  
Invoice No: 472374

Ryan Chapman  
Lower Platte North NRD  
PO Box 126  
Wahoo, NE 68066-0126

**Invoice Total \$63,439.25**

Olsson Project # A18-34230 Lower Platte North NRD Wahoo Creek Watershed & 7 Dam Sites  
Phase II

Professional services rendered August 6, 2023 through September 9, 2023 for work completed in accordance with agreement.

| Phase        | 100                | Sites 55 66 77 82 84 85 86 Project Management | Hours | Amount          |
|--------------|--------------------|---|-------|-----------------|
| <b>Labor</b> |                    |   |       |                 |
| Designer     |                    |   | 2.00  | 323.34          |
|              | Totals             |   | 2.00  | 323.34          |
|              | <b>Total Labor</b> |   |       | <b>323.34</b>   |
|              |                    | <b>Total this Phase</b>                       |       | <b>\$323.34</b> |

| Phase                   | 110                | Geotechnical Engineering | Hours  | Amount             |
|-------------------------|--------------------|--------------------------|--------|--------------------|
| <b>Labor</b>            |                    |                          |        |                    |
| Assistant Engineer      |                    |                          | 14.25  | 1,394.93           |
| Project Professional    |                    |                          | 88.25  | 12,303.82          |
| Assistant Professional  |                    |                          | 61.25  | 7,137.43           |
| Administrative/Clerical |                    |                          | 2.50   | 198.60             |
|                         | Totals             |                          | 166.25 | 21,034.78          |
|                         | <b>Total Labor</b> |                          |        | <b>21,034.78</b>   |
|                         |                    | <b>Total this Phase</b>  |        | <b>\$21,034.78</b> |

| Phase                  | 120                | Dam Design | Hours  | Amount           |
|------------------------|--------------------|------------|--------|------------------|
| <b>Labor</b>           |                    |            |        |                  |
| Principal              |                    |            | 3.25   | 506.12           |
| Assistant Professional |                    |            | 75.50  | 8,771.96         |
| Designer               |                    |            | 62.00  | 7,650.80         |
| CAD Operator           |                    |            | 98.50  | 6,069.37         |
|                        | Totals             |            | 239.25 | 22,998.25        |
|                        | <b>Total Labor</b> |            |        | <b>22,998.25</b> |

INVOICE PAYMENT IS REQUESTED WITHIN 30 DAYS

**Reimbursable Expenses**

|                            |              |              |
|----------------------------|--------------|--------------|
| Personal Vehicle Mileage   | 55.68        |              |
| <b>Total Reimbursables</b> | <b>55.68</b> | <b>55.68</b> |

**Total this Phase                    \$23,053.93**

-----  
Phase                    130                    Permitting

**Labor**

|                        | Hours  | Amount           |
|------------------------|--------|------------------|
| Principal              | 52.75  | 9,301.23         |
| Assistant Professional | 68.00  | 7,389.91         |
| Totals                 | 120.75 | 16,691.14        |
| <b>Total Labor</b>     |        | <b>16,691.14</b> |

**Reimbursable Expenses**

|                            |               |               |
|----------------------------|---------------|---------------|
| Filing Fees                | 302.50        |               |
| <b>Total Reimbursables</b> | <b>302.50</b> | <b>302.50</b> |

**Unit Billing**

|                    |              |              |
|--------------------|--------------|--------------|
| Postage            | 11.90        |              |
| <b>Total Units</b> | <b>11.90</b> | <b>11.90</b> |

**Total this Phase                    \$17,005.54**

-----  
Phase                    140                    Survey & Legal Descriptions

**Labor**

|                          | Hours | Amount          |
|--------------------------|-------|-----------------|
| Survey Technical Manager | 6.25  | 911.06          |
| Surveyor                 | 11.25 | 1,110.60        |
| Totals                   | 17.50 | 2,021.66        |
| <b>Total Labor</b>       |       | <b>2,021.66</b> |

**Total this Phase                    \$2,021.66**

**AMOUNT DUE THIS INVOICE                    \$63,439.25**

Authorized By: Andrew Phillips

Progress Report for Wahoo Creek Watershed Dams Sites



Lower Platte North NRD

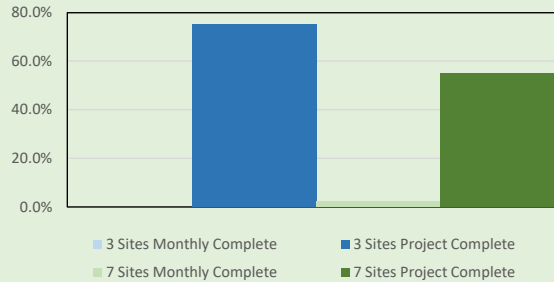
For Work Completed During The Month Of : **August, 2023**  
(through 9/9/23)

| Project # 018-3423<br>Dam Site 26A, 26B, &27<br>Project Phase | Phase<br>Budget   | Billings for Month         |                           | Project Total Billings to Date |                        |
|---|-------------------|----------------------------|---------------------------|--------------------------------|------------------------|
|   |                   | Current<br>Earned/Billings | % Completed<br>This Month | JTD<br>Earned/Billings         | % Completed<br>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%                   |
|   |                   |                            |                           | \$ -                           |                        |
|   |                   |                            |                           |                                |                        |
| <b>3 Sites Totals</b>   | <b>\$ 702,329</b> | <b>\$ -</b>                | <b>0.0%</b>               | <b>\$ 526,123.26</b>           | <b>74.9%</b>           |

| Project # A18-3423 (separate invoice)<br>Sites 55, 66, 77, 82, 84, 85, &86<br>Project Phase | Phase<br>Totals     | Billings for Month         |                           | Project Total Billings to Date |                        |
|---|---------------------|----------------------------|---------------------------|--------------------------------|------------------------|
|   |                     | Current<br>Earned/Billings | % Completed<br>This Month | JTD<br>Earned/Billings         | % Completed<br>Overall |
| 100 - Project Management/Meetings   | \$ 60,813           | \$ 323.34                  | 0.5%                      | \$ 33,240.14                   | 54.7%                  |
| 110 - Geotechnical Engineering  | \$ 592,047          | \$ 21,034.78               | 3.6%                      | \$ 550,817.35                  | 93.0%                  |
| 120 - Dam Design  | \$ 425,202          | \$ 23,053.93               | 5.4%                      | \$ 399,831.35                  | 94.0%                  |
| 130 - Permitting  | \$ 244,810          | \$ 17,005.54               | 6.9%                      | \$ 128,932.80                  | 52.7%                  |
| 140 - Survey and Legal Descriptions   | \$ 28,165           | \$ 2,021.66                | 7.2%                      | \$ 33,529.76                   | 119.0%                 |
| 150 - Community/Public Participation  | \$ 30,000           |                            | 0.0%                      | \$ 5,899.20                    | 19.7%                  |
| 160 - Other   | \$ -                |                            |                           | \$ -                           |                        |
| 170- Construction Services  | \$ 603,992          |                            |                           | \$ -                           | 0.0%                   |
| <b>7 Sites Totals</b>   | <b>\$ 1,985,029</b> | <b>\$ 63,439.25</b>        | <b>3.2%</b>               | <b>\$ 1,152,250.60</b>         | <b>58.0%</b>           |

|                           |                     |
|---------------------------|---------------------|
| <b>Billings For Month</b> | <b>\$ 63,439.25</b> |
| Total Billings To Date    | \$ 1,678,373.86     |
| Project Budget            | \$ 2,687,358.00     |
| Budget Remaining          | \$ 1,008,984.14     |

% Budget Spent Per Site



| Summary Of Work Completed This Month                           |   |
|--|---|
| Sites 26A, 26B, & 27   | Sites 55,66,77,82,84,85, & 86   |
| -Awaiting comments from State for submittal of 26a, 26b and 27 | - H&H excavation modeling and sheets, principal spillway modeling, plan sheet updates for 60% submittal for Sites 84, 85, and 86.<br>-Geotechnical analysis, laboratory and report prep for sites 84, 85, and 86.<br>-Project management<br>-Environmental: Coordination with USACE and NRCS, wetland mitigation calculations, permit preparation |

| Planned Work For Next Month   |  |
|---|--|
| Site 26A, 26B, & 27   | Sites 55, 66, 77, 82, 84, 85, & 86   |
| -Anticipating comments from the State of Nebraska from October through December | -Update comments from 60% for Site 77<br>-Update comments for Site 55 and complete 90% submittal<br>-Submit sites 84, 85, & 86 |

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

September 27, 2023  
Invoice No: 472399

Ryan Chapman  
Lower Platte North NRD  
PO Box 126  
Wahoo, NE 68066-0126

**Invoice Total \$1,436.81**

Olsson Project # 023-00443 LPNNRD Wahoo Creek Watershed Flood Reduction Project Real Estate Services  
Professional services rendered through September 9, 2023 for work completed in accordance with our Agreement dated February 17, 2023.

|              |                    |                          |                         |                   |
|--------------|--------------------|--------------------------|-------------------------|-------------------|
| Phase        | 100                | Real Estate Acquisitions |                         |                   |
| <b>Labor</b> |                    |                          |                         |                   |
|              |                    |                          | <b>Hours</b>            | <b>Amount</b>     |
| Principal    |                    |                          | 6.25                    | 1,436.81          |
|              | Totals             |                          | 6.25                    | 1,436.81          |
|              | <b>Total Labor</b> |                          |                         | <b>1,436.81</b>   |
|              |                    |                          | <b>Total this Phase</b> | <b>\$1,436.81</b> |

|                       |                                |              |                   |
|-----------------------|--------------------------------|--------------|-------------------|
| <b>Billing Limits</b> | <b>Current</b>                 | <b>Prior</b> | <b>To-Date</b>    |
| Total Billings        | 1,436.81                       | 22,008.01    | 23,444.82         |
| Limit                 |                                |              | 210,000.00        |
| Balance Remaining     |                                |              | 186,555.18        |
|                       | <b>AMOUNT DUE THIS INVOICE</b> |              | <b>\$1,436.81</b> |

|                         |                 |                  |                  |
|-------------------------|-----------------|------------------|------------------|
| <b>Billings to Date</b> | <b>Current</b>  | <b>Prior</b>     | <b>Total</b>     |
| Labor                   | 1,436.81        | 19,489.64        | 20,926.45        |
| Expense                 | 0.00            | 2,518.37         | 2,518.37         |
| <b>Totals</b>           | <b>1,436.81</b> | <b>22,008.01</b> | <b>23,444.82</b> |

Email invoices to: [rchapman@lpnnrd.org](mailto:rchapman@lpnnrd.org); [selliott@lpnnrd.org](mailto:selliott@lpnnrd.org) and CC: [jbreunig@lpnnrd.org](mailto:jbreunig@lpnnrd.org)

Authorized By: Danielle Allen

**Lower Platte North NRD**

**Bills Pending**

**October 9, 2023**

| <b>Vendor</b>                          | <b>Description</b>               | <b>Balance</b> |
|--|----------------------------------|----------------|
| Adam Brockmann                         | Cell Phone Reimbursement         | \$ 45.00       |
| Advanced Office Automation, Inc.       | Maintenance Contract             | \$ 86.20       |
| Aflac                                  | Employee Benefits                | \$ 219.60      |
| Alexander E Kavan                      | Mileage Expense                  | \$ 31.44       |
| Andrew Tonnies                         | Mileage/Computer Expense         | \$ 410.36      |
| Aquinas High School                    | Outdoor Classroom Donation       | \$ 500.00      |
| Arlis F. Plummer                       | Buffer Strip Payment             | \$ 1,074.23    |
| Bill Bos                               | Mileage Expense                  | \$ 132.97      |
| Bomgaars                               | O&M/Vehicle/Wanahoo Rec          | \$ 268.68      |
| Bret C. Schomer                        | Cell Phone Reimbursement         | \$ 45.00       |
| Bromm, Lindahl, ET AL                  | Retainer Agreement               | \$ 500.00      |
| Butler Public Power                    | Utilities Expense                | \$ 3,181.11    |
| Charles H. Barjenbruch                 | Buffer Strip Payment             | \$ 2,033.00    |
| Comfort Inn                            | Personnel Meeting                | \$ 1,979.10    |
| Craig N. Foltz                         | Buffer Strip Payment             | \$ 6,825.00    |
| Daniel J. Gehring                      | Buffer Strip Payment             | \$ 1,074.23    |
| Daryl Andersen                         | Cell Phone Reimbursement         | \$ 45.00       |
| DAS State Acctg - Central Finance OCIO | iPads/Cell Service               | \$ 381.58      |
| David A Moore                          | Cell Phone Reimbursement         | \$ 45.00       |
| David C. Luckey                        | Buffer Strip Payment             | \$ 2,818.89    |
| David City Utilities                   | Bruno Water Purchase             | \$ 2,652.23    |
| David Lawrence                         | Mileage/Computer Expense         | \$ 310.80      |
| David W Saalfeld                       | Mileage/Computer Expense         | \$ 310.80      |
| Department of Revenue                  | Wanahoo Lodging Tax              | \$ 710.72      |
| Diann F Svatora                        | Buffer Strip Payment             | \$ 1,327.70    |
| Diode Communications                   | Open Path NRD/Education Building | \$ 54.58       |
| Drew ten Bensel                        | Cell Phone Reimbursement         | \$ 45.00       |
| Dry Creek Farms Inc.                   | Buffer Strip Payment             | \$ 2,925.00    |
| Duane Johnson                          | Computer Expense                 | \$ 75.00       |
| Ed Luetkenhaus                         | Buffer Strip Payment             | \$ 967.50      |
| Eric Gottschalk                        | Cell Phone Reimbursement         | \$ 45.00       |
| Frank L Pollard                        | Mileage/Computer Expense         | \$ 53.82       |
| Fremont Sanitation                     | NRD/Wanahoo Garbage              | \$ 628.46      |
| Google                                 | Email Expense                    | \$ 248.40      |
| Hampton Inn Kearney                    | Director Meeting Expense         | \$ 649.75      |
| HBE LLP                                | Professional Service Accounting  | \$ 6,750.00    |
| HDR Engineering Inc.                   | Cottonwood 21-A Expense          | \$ 2,681.60    |
| Hergert Oil Company                    | Fuel Expense                     | \$ 1,683.48    |
| In-Situ, Inc.                          | Monitoring Well Equipment        | \$ 83,225.95   |
| Intermedia                             | Long Distance Expense            | \$ 154.99      |
| James Barjenbruch                      | Buffer Strip Payment             | \$ 2,257.86    |
| Janice Wilke Trust                     | Buffer Strip Payment             | \$ 190.16      |
| JEO Consulting Group, Inc.             | New Office Building              | \$ 18,177.90   |
| Jerry Johnson                          | Computer Expense                 | \$ 75.00       |
| Jill Breunig                           | Cell Phone Reimbursement         | \$ 45.00       |
| Joe Birkel                             | Mileage/Computer Expense         | \$ 225.65      |
| Karen Rezac                            | Cell Phone Reimbursement         | \$ 45.00       |
| Kaye Lidolph                           | Buffer Strip Payment             | \$ 1,381.30    |
| Kelly G Thompson                       | Mileage/Computer Expense         | \$ 219.10      |
| Kim Homes                              | Ed Building Cleaning             | \$ 150.00      |
| Kiwanis                                | Dues and Membership              | \$ 125.00      |
| Klug Farms Inc                         | Buffer Strip Payment             | \$ 232.72      |
| Kristin Miller                         | Personnel Meeting                | \$ 11.05       |

**Lower Platte North NRD**

**Bills Pending**

**October 9, 2023**

|  |  |              |
|--|--|--------------|
| KTIC 840 Rural Radio                           | Radio Ads                                    | \$ 203.00    |
| Lacey Sabatka                                  | Cell Phone Reimbursement                     | \$ 45.00     |
| Larry Bruhn                                    | Buffer Strip Payment                         | \$ 876.36    |
| Lincoln Journal Star                           | Legal Notices                                | \$ 75.30     |
| Lonnie D Olson                                 | Mileage/Computer Expense                     | \$ 200.76    |
| LRE Water                                      | Hydrologic Assessment                        | \$ 4,872.13  |
| Malmo Fire Dept.                               | Rent Expense                                 | \$ 50.00     |
| Mark J Seier                                   | Mileage/Computer Expense                     | \$ 682.84    |
| Mark J Wilke                                   | Buffer Strip Payment                         | \$ 457.91    |
| Mary Theresa Norton Intervivos Revocable Trust | Buffer Strip Payment                         | \$ 7,166.10  |
| Matthew P Bailey                               | Mileage/Computer Expense                     | \$ 192.90    |
| Mid-American Benefits, Inc                     | Employee Benefits                            | \$ 937.50    |
| Mid-American Benefits, Inc                     | Employee Benefits                            | \$ 632.50    |
| Midwest Laboratories, Inc                      | Groundwater Quality                          | \$ 709.50    |
| NARD Foundation                                | Donation                                     | \$ 195.00    |
| NARD Risk Pool Association                     | Employee Benefits                            | \$ 39,478.13 |
| Nationwide                                     | Retirement Benefit                           | \$ 5,960.11  |
| Nebraska Public Health Environmental Lab       | Groundwater Quality                          | \$ 1,264.00  |
| Nebraska Public Health Environmental Lab       | Groundwater Quality                          | \$ 205.00    |
| Nebraska Public Health Environmental Lab       | Bruno RW Expense                             | \$ 15.00     |
| Nebraska Public Health Environmental Lab       | Groundwater Quality                          | \$ 1,111.00  |
| Nebraska Public Health Environmental Lab       | Groundwater Quality                          | \$ 503.00    |
| Nebraska Public Health Environmental Lab       | Colon RW Expense                             | \$ 279.00    |
| News Channel Nebraska                          | Advertising                                  | \$ 499.00    |
| Noah Franzen                                   | Cell Phone Reimbursement                     | \$ 45.00     |
| Norm Lindgren                                  | Buffer Strip Payment                         | \$ 83.16     |
| Olsson Associates                              | Wahoo Creek Real Estate                      | \$ 1,436.81  |
| Olsson Associates                              | Wahoo Creek Watershed & 7 Dam Sites Phase II | \$ 63,439.25 |
| One Call Concepts, Inc                         | One Call Expense                             | \$ 17.14     |
| Papio-Missouri River NRD                       | Water Strategies                             | \$ 2,100.00  |
| Phoenix Web Group Inc                          | Master Data Base                             | \$ 8,635.00  |
| Pitney Bowes - Purchase Power                  | Postage Expense                              | \$ 1,008.50  |
| Pitney Bowes Global Financial Services LLC     | Lease Payment                                | \$ 284.22    |
| Quill.com                                      | Post It - Calendar - Clip Boards             | \$ 77.65     |
| Quill.com                                      | Standing Desk - Pens - Pencils               | \$ 350.00    |
| Randall Brabec                                 | Buffer Strip Payment                         | \$ 250.00    |
| Reece Klug                                     | Buffer Strip Payment                         | \$ 2,632.50  |
| Rezac Farms, Inc.                              | Buffer Strip Payment                         | \$ 3,528.22  |
| Rivalry, LLC                                   | Personnel Uniform                            | \$ 499.00    |
| Rivalry, LLC                                   | Shell Creek Shirts                           | \$ 883.00    |
| River Road Land Inc                            | Buffer Strip Payment                         | \$ 3,250.00  |
| Robert B Hilger                                | Mileage/Computer Expense                     | \$ 469.31    |
| Robert J. Meduna Jr.                           | Computer Expense                             | \$ 75.00     |
| Rodney Julsen                                  | Buffer Strip Payment                         | \$ 5,197.50  |
| Ryan Chapman                                   | Cell Phone Reimbursement                     | \$ 45.00     |
| Ryan Engel                                     | Mileage/Computer Expense                     | \$ 78.60     |
| Ryan Sabatka                                   | Mileage/Computer Expense                     | \$ 186.35    |
| Samuel L. Welch                                | Buffer Strip Payment                         | \$ 467.10    |
| Samuel L. Welch                                | Buffer Strip Payment                         | \$ 1,050.32  |
| Sean Elliott                                   | Cell Phone Reimbursement                     | \$ 45.00     |
| Simons Home Store                              | Wanahoo Rec.                                 | \$ 63.99     |
| Smithaca Cleaning Service                      | NRD Cleaning                                 | \$ 495.00    |
| Spartan Stores, LLC                            | Education Outreach                           | \$ 5.37      |
| Sydney Abbott                                  | Cell Phone Reimbursement                     | \$ 45.00     |

**Lower Platte North NRD**

**Bills Pending**

**October 9, 2023**

|                                     |  |                      |
|-------------------------------------|--|----------------------|
| Thomas McKnight                     | Mileage/Computer Expense                   | \$ 518.44            |
| Thomas Sprunk                       | Buffer Strip Payment                       | \$ 4,095.00          |
| Thomas Sprunk                       | Grade Stabilization Structure              | \$ 18,333.45         |
| UBT VISA                            | Employee Reimb./Director/Personnel Meeting | \$ 5,007.07          |
| Union Bank & Trust                  | Bank Fees                                  | \$ 39.56             |
| Union Bank & Trust                  | BiWeekly Payroll - 9/15/23                 | \$ 50,135.34         |
| Union Bank & Trust                  | BiWeekly Payroll - 9/29/23                 | \$ 48,451.54         |
| University of Nebraska-Lincoln      | Groundwater Quality                        | \$ 227.80            |
| University of Nebraska-Lincoln      | Groundwater Quality                        | \$ 264.60            |
| USDA Forest Service                 | Trees for Resale                           | \$ 168.00            |
| Village of Colon                    | Sewer Fee Reimbursement                    | \$ 7,229.25          |
| Volitant Technologies LLC           | Normal O & M                               | \$ 1,540.00          |
| Wahoo Auto Parts                    | Vehicle Filters                            | \$ 18.69             |
| Wahoo Metal Products & Supply, Inc. | Groundwater Quality                        | \$ 180.00            |
| Wahoo Utilities                     | Utilities Expense                          | \$ 2,958.27          |
| Wahoo-Waverly-Ashland Newspapers    | Legal Notices/Help Wanted                  | \$ 596.50            |
| Wells Fargo Financial Leasing, Inc. | Copier Lease                               | \$ 209.00            |
| William Brueggemann                 | Cell Phone Reimbursement                   | \$ 45.00             |
| William H. Saeger                   | Mileage/Computer Expense                   | \$ 262.33            |
|                                     |  |                      |
| <b>Grand Total</b>                  |  | <b>\$ 453,966.78</b> |

# Consent Agenda

## October 9, 2023

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- 5. Approval of Minutes
- 6.A.2.a.1. GMDA Winter Conference
- 6.A.2.a.2. 2024 NACD Annual Meeting
- 6.A.5.a. O & M Technician
- 6.A.6.b. Approval Manager Time and Expense Sheets
- 6.B.1. Elect Committee Vice-Chair
- 6.D.3.a. Shell Creek Implementation – 319 & NET
- 6.D.3.b. Tom Sprunk Grade Stabilization Project
- 6.D.6. Nebraska Buffer Strip Program Payments
- 6.D.7. Other – Village of Colon
- 8. Authorize General Manager to approve and then treasurer to pay monthly recurring expenses pursuant to April 11, 2011 board policy.