

Operations Committee Meeting  
Thursday, July 28, 2022 8:30 AM  
Lower Platte North NRD Office  
P.O. Box 126  
Wahoo, NE 68066

1. UNFINISHED BUSINESS

There is nothing to consider for unfinished business.

2. WILD NE AND OTHER PROGRAMS

Nothing to report.

3. OPERATION & MAINTENANCE & OTHER ITEMS

The O & M crew continues to do inspections and maintenance on our watershed dams and cut trees on many different areas.

3.A. Wanhoo Stilling Basin - (FEMA)

Update from FYRA/Houston:

Design is proceeding. We have nearly completed assessing options for a combination of various concrete thicknesses vs. the number of anchors required for each thickness. With thinner lifts, there is less embedment of each anchor (the cone I have showed you below each anchor that holds the weight.) We have decided that the fiber-reinforced concrete is the best way to go and are moving forward.

Next things in front of us:

1) Asking General Excavating what it would take to grind the higher portion of the floor down vs. raising the floor some and all points in between.

2) The uplift pressures are the main design consideration and there is little to no history nationally for this specific instance of a structural concrete overlay on an RCC monolith. So the design calculations and procedures are being reviewed not only internally, but by other industry professionals as well....even if to just bounce ideas off of them.

We may have better answers by the Board Meeting.

3.B. Wanhoo Relief Well Reconditioning

Attached are the Pump Test graphs for the seven relief wells. Andrew Rieschick of Rieschick Drilling stated, "We had good-excellent results on all wells except 22-A. It didn't appear to have much impact on the well. Initially, it showed pretty good specific capacity compared to the other wells, so perhaps it was not in dire need of rehab as some others were. It was the only well that really exhibited iron deposits upon pumping and rehab".

From Sean Parks of Olsson's; After reviewing the data, the wells cleaned by Rieschick Drilling look to have been effective. The cleaning has reduced the piezometric elevation in piezometers 4, 6, 7, 10, and 12 by 0.3 to 0.9 feet. This reduction is after the impact of the pressure relief wells completed by Valley Corp. Based on these findings, we would recommend the well cleaning be continued next fiscal year. I've attached a map that shows the wells we have just cleaned, the wells we suggest cleaning next year, the remaining flowing wells, and the non-flowing wells. The next wells include: 26, 27, 28, 29, 30, 32, 33, 36, and 37.

I'll start writing the follow-up memo discussing our findings. I'll also circle around with Tim

Gokie and let him know of our findings and make sure we include all the different analysis he is wanting to see and that we have addressed all of his concerns.

We have used up the budget on the current contract for instrumentation and well cleaning (except for survey). I would like to send you over a new scope and fee for finalizing the analysis of the well cleaning along with future instrumentation measurements.

3.C. No-Till Grass Drills

Rosendahl Farms Seed & Feed sent in \$1,399.00 for drill rental for the first half of the year, 23 cooperators used the drill.

Rezac Seed had 12 cooperators use the grass drill. The District's revenue is \$1,034.25 but there were repairs of \$1,115.45 for tires and plow coulters. The District owes Rezac Seed \$81.20, which they will subtract from the end of the end statement.

3.D. NRD Owned Thomas Lakes Lots

As mentioned previously, the District owns six lots at Thomas Lakes (map attached). Two lots are on the Clear Creek Levee and four on the Thomas Lakes high ground tied into the Clear Creek Levee. The District has written and registered easements with the Saunders County Register of Deeds, completed a Title search and had the County Surveyor mark the lots. We can now proceed to sell them with a recommendation from our legal counsel. Two adjacent home owners have an interest in the two lots on the levee and the Thomas Lakes HOA has an interest in the other four.

3.E. FY 22-23 Budget

A Preliminary Budget sheet will be available.

4. ROCK AND JETTY

We haven't received any applications or payment requests.

5. LAKE WANAHOO

5.A. Lake Wanahoo Permit Sales

For the month of June, the District received \$10,462.50 in park permit revenue. The year by year break down of annual permit sales is listed below.

<b>5.B. Month</b>	<b>5.C. Monthly Total</b>	<b>5.D. YTD</b>
5.E. <b>June 2022</b>	5.F. \$10,462.50	5.G. \$62,573.00
5.H. <b>June 2021</b>	5.I. \$10,567.50	5.J. \$73,132.50
5.K. <b>June 2020</b>	5.L. \$13,030.00	5.M. \$80,140.00
5.N. <b>June 2019</b>	5.O. \$15,597.50	5.P. \$67,385.00

5.Q. Lake Wanahoo Camping Revenue

For the month of May, the District received \$17,755.42 in camping revenue. The year by year comparison is listed below.

<b>5.R. Month</b>	<b>5.S. Month Total</b>	<b>5.T. YTD</b>
5.U. <b>June 2022</b>	5.V. 17,755.42	5.W. 61,564.56
5.X. <b>May 2021</b>	5.Y. 16,352.03	5.Z. 67,185.82

5.AA. <b>May 2020</b>	5.BB. 20,362.09	5.CC. 75,030.04
5.DD. <b>May 2019</b>	5.EE. 15,709.51	5.FF. 42,870.46

5.GG. Clint Johannes Education Building

During the month of July, the building was rented 19 times with 3 NRD rentals.

Revenue for the month was \$1,120

6. INFORMATION AND EDUCATION

6.A. Information

6.A.1. Radio & eAds

July's KTIC Radio ads and Wahoo Newspaper E-ads featured the upcoming variance deadlines. This will continue through August.

6.A.2. County Fairs

Lower Platte North NRD had a booth at the Butler County Fair. Stickers and magnets went over well. Not a lot of brochures were taken other than the tree booklet and the NRD booklet that includes general information about all the NRDs.

We will hopefully have a float in today's parade in Wahoo, unless it is raining.

6.A.3. Summer Viaduct

The Summer Viaduct if finished at the printer, most have been delivered or shipped to the area newspapers. The plan is to have them inserted in the first and second week in August.

6.A.4. Analytics

The LPNNRD Facebook/Twitter pages, and the website are the fastest and low-cost ways to get information out to the public. The analytics are a way to see if people are seeing the information and what ways seem to be most effective. If you are on Facebook or Twitter, please like, follow, share, or retweet the Lower Platte North NRD posts!

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

6.A.5. <b>F ACEBO OK</b>	6.A.6. <b>otal Rea ch</b>	6.A.7. <b>Eng agements</b>	6.A.8. <b>F ollowe rs</b>
6.A.9. <b>Ju ly 1-27</b>	6.A.10. <b>,108</b>	6.A.11. <b>673</b>	6.A.12. <b>1 ,388</b>
6.A.13. <b>Ju ne</b>	6.A.14. <b>,325</b>	6.A.15. <b>413</b>	6.A.16. <b>1 ,384</b>
6.A.17. <b>M ay</b>	6.A.18. <b>,222</b>	6.A.19. <b>279</b>	6.A.20. <b>1 ,372</b>

6.A.21.

6.A.22. WITT ER	6.A.23. T otal impress ions	6.A.24. En gagemen ts	6.A.25. F ollow ers
6.A.26. uly 1- 27	6.A.27. 3 601	6.A.28. 15 8	6.A.29. 3 77
6.A.30. une	6.A.31. 3, 114	6.A.32. 14 0	6.A.33. 3 72
6.A.34. ay	6.A.35. 2, 140	6.A.36. 11 2	6.A.37. 3 67

6.A.38.

**Top Posts on Facebook and Twitter:**

- Tom's retirement party
- Fireworks at Lake Wanahoo on July 4th
- Weekly drought monitor updates
- July's Coffee Lakeside flyer
- The NRD internship program

6.B. Education

6.B.1. Past events

Coffee Lakeside: Plant ID Walk - 10 adults & 2 kids

Trivia and Game Night - 0. I was targeting middle schoolers on purpose, but I think that was my downfall. Next time I will market it as a family trivia and game night and hopefully we will get more people. It was also the first night of the rodeo, so maybe that conflicted as well.

6.B.2. Upcoming Events

August 3rd: Back to School Night  
 August 11th: Coffee Lakeside: Fireflies  
 August 12th: Nocturnal Night  
 August 17th: Wildflowers and Wine  
 August 18th: Grand Opening of the Story Walk  
 School is back in session!

6.B.3. New Laser Projector for Clint Johannes Education Building

The current projector does not display presentations very well, so we are looking at purchasing a new one to replace it. Diode Technologies will be sending us a proposal with prices for a new laser projector and installation.

7. RURAL WATER SYSTEMS

The RWD responded/marked three locate (811) requests the past month. We have been working with Phoenix Web Group at moving our WaterWorks software (billing and meter reading) to be housed on the LPNNRD local server. PWG has also been working on updating the remote meter reading.

7.A. Colon System

As part of ongoing maintenance plan the RWD has been addressing issues with meter pits; extending pits to grade, repairing pits due to damage or normal wear. All of the meter pits are PVC casing, some have been cracked/broke by mowers/other mechanical means, and some have had landscape changes that resulted in them being below grade which creates a runoff issue within the pit.

Routine monthly sampling completed, meters read and bills to be mailed 7/29.

7.B. Bruno System

The lead and copper results were received and results were sent to tested households. Confirmation of results were also submitted to NDEE Drinking Water division. All results were below action limits.

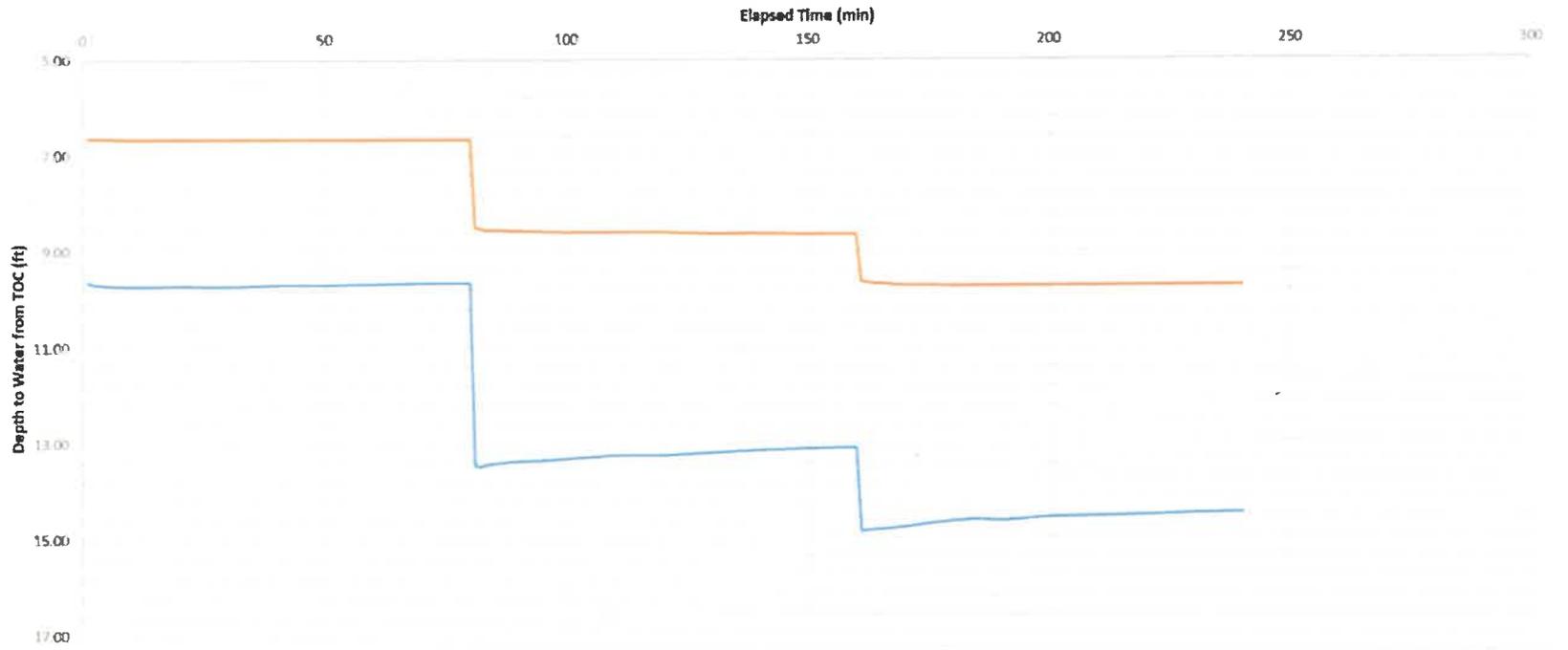
Bruno RWD has been in contact with Black Hills Energy about their plans on extending a natural gas line parallel/across our water line east of David City. They are currently planning on early 2023 for construction.

Routine monthly sampling completed, meters read and bills will be mailed 7/29.

7.C. Other

Well 35

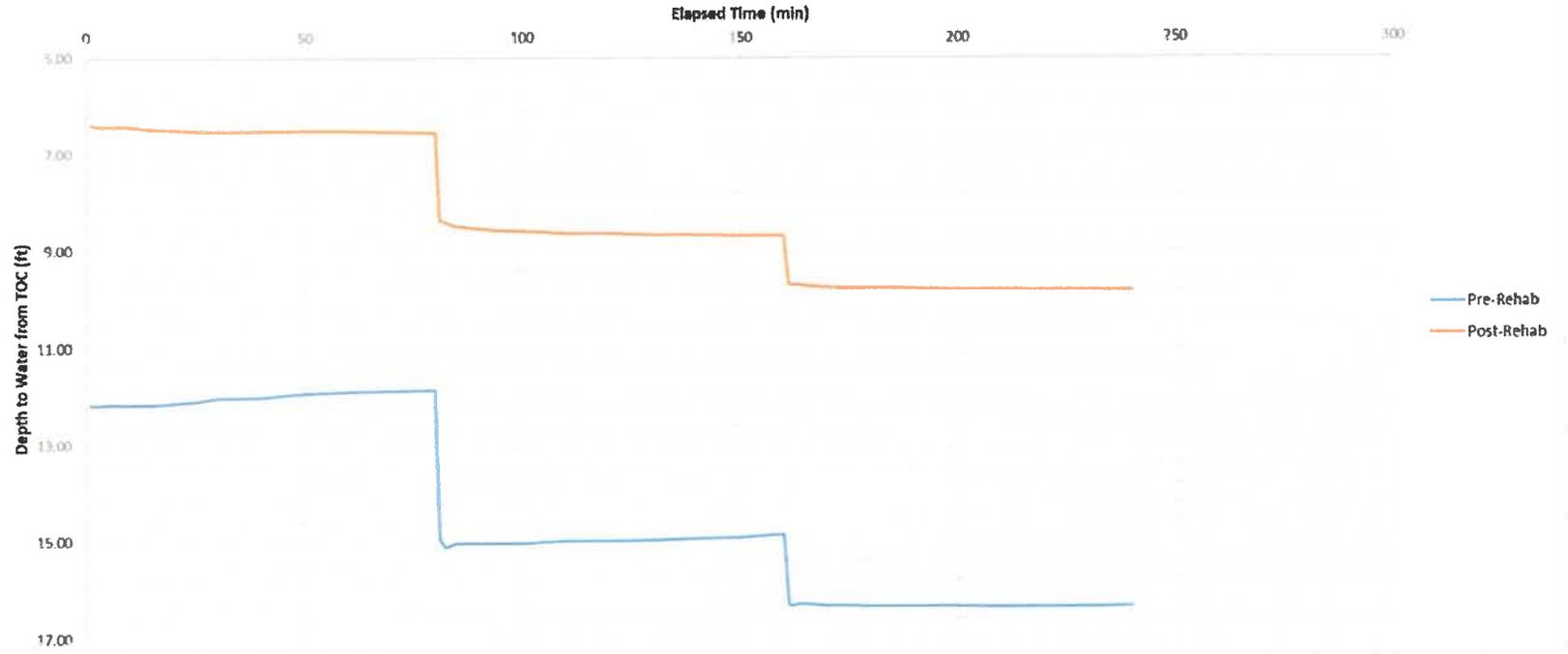
### Step Pumping Test



Well 34

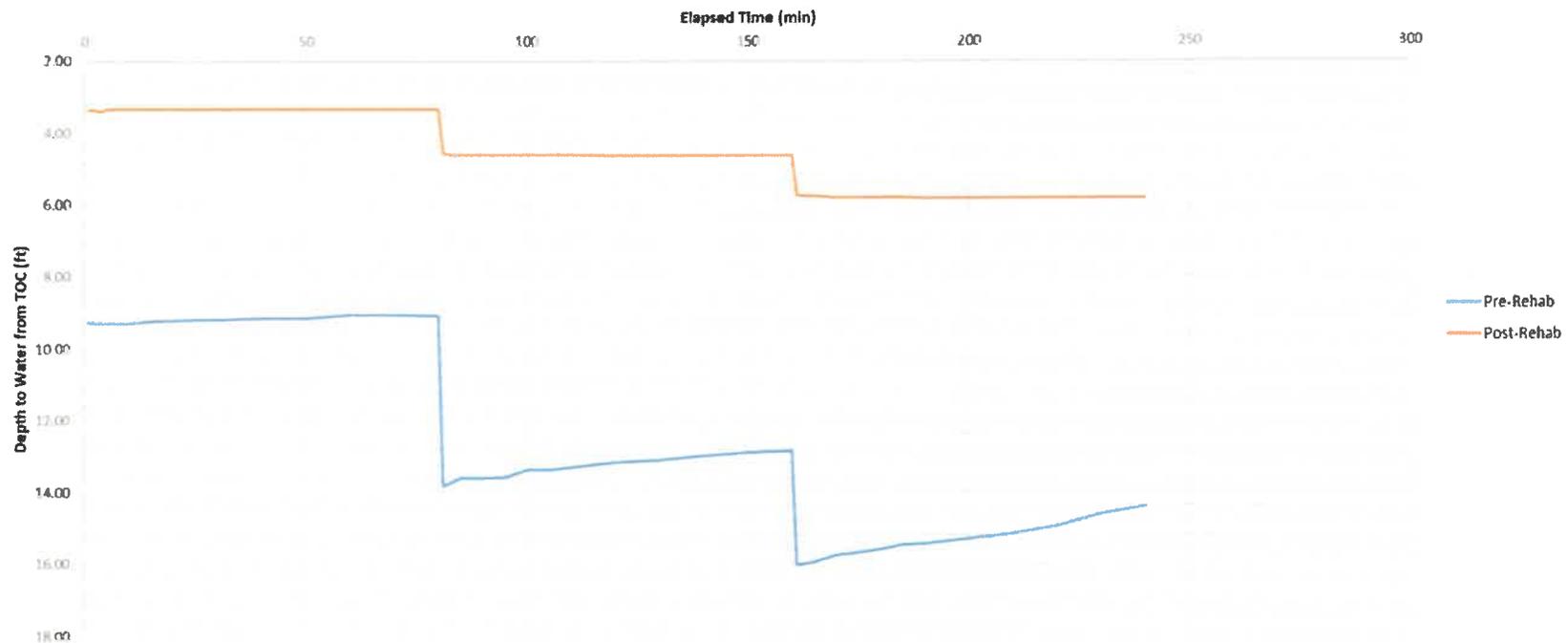
### Step Pumping Test

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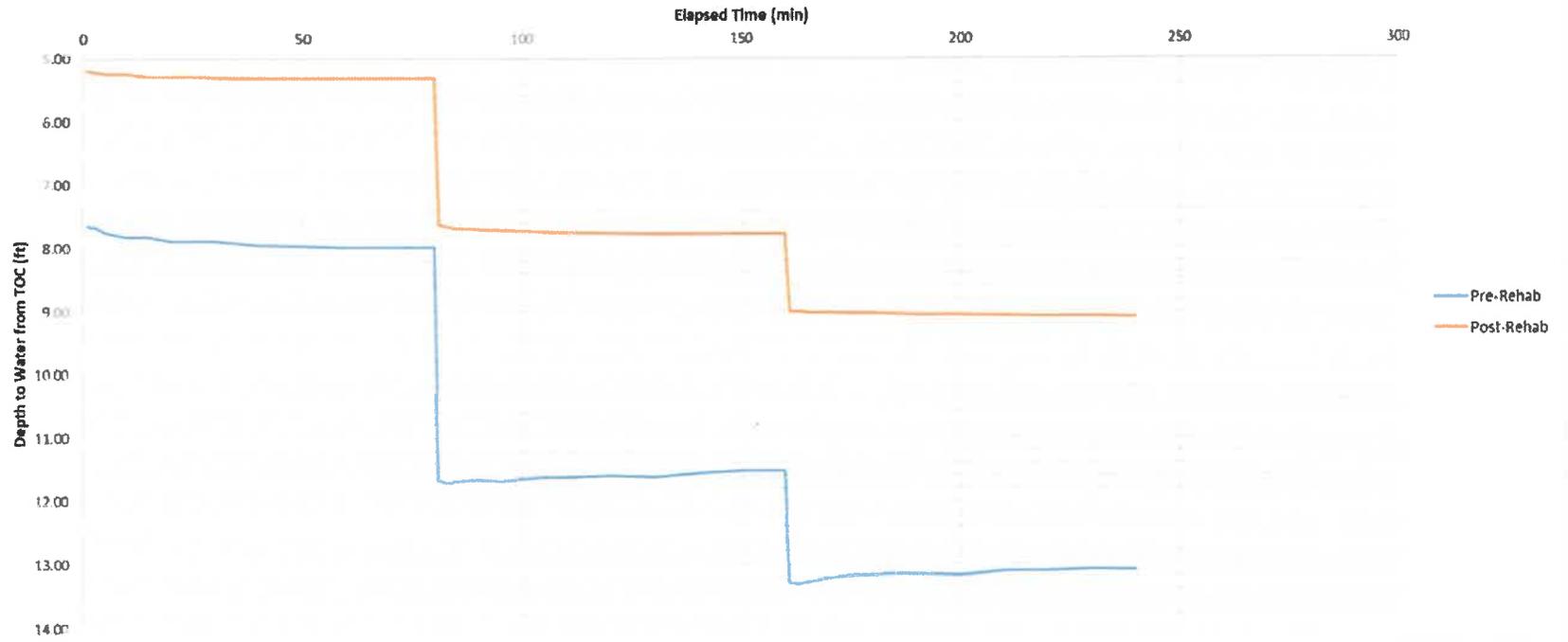
Well 31

### Step Pumping Test



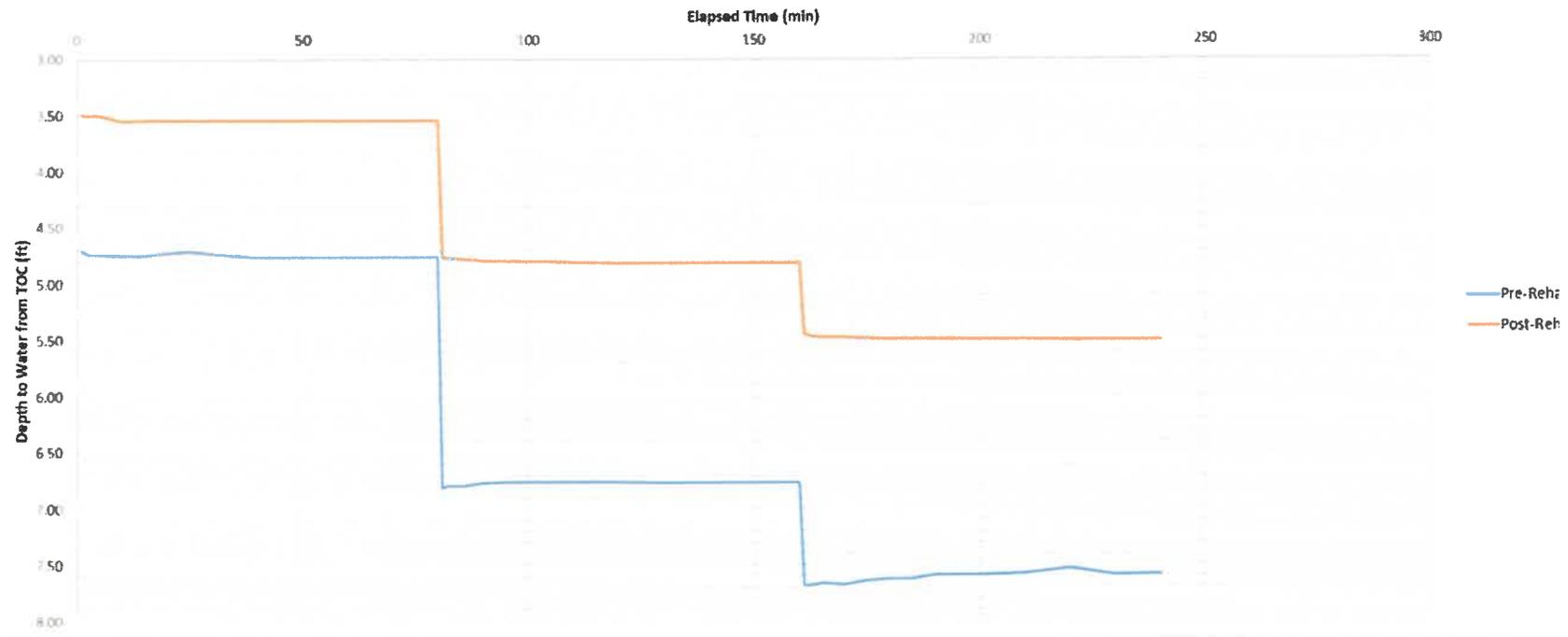
Well 25

### Step Pumping Test



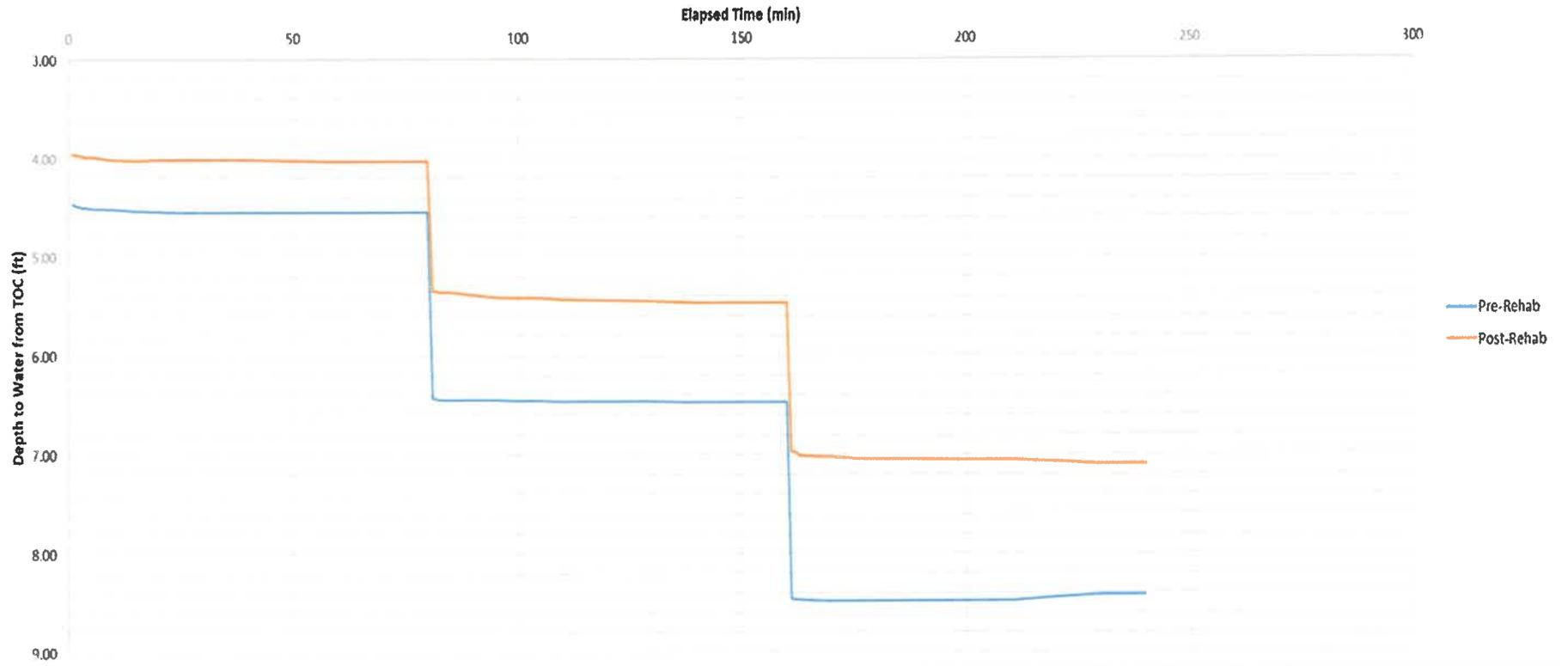
Well 24

### Step Pumping Test



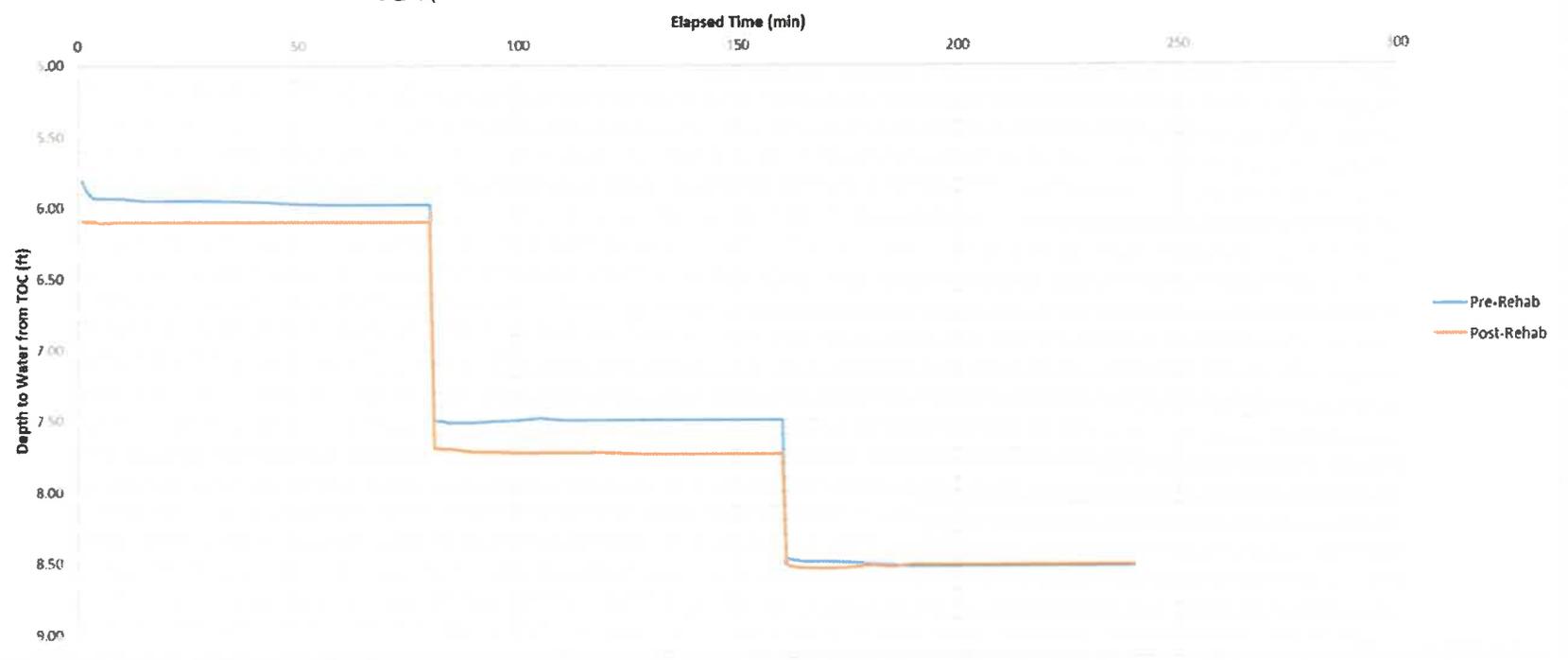
Well 23

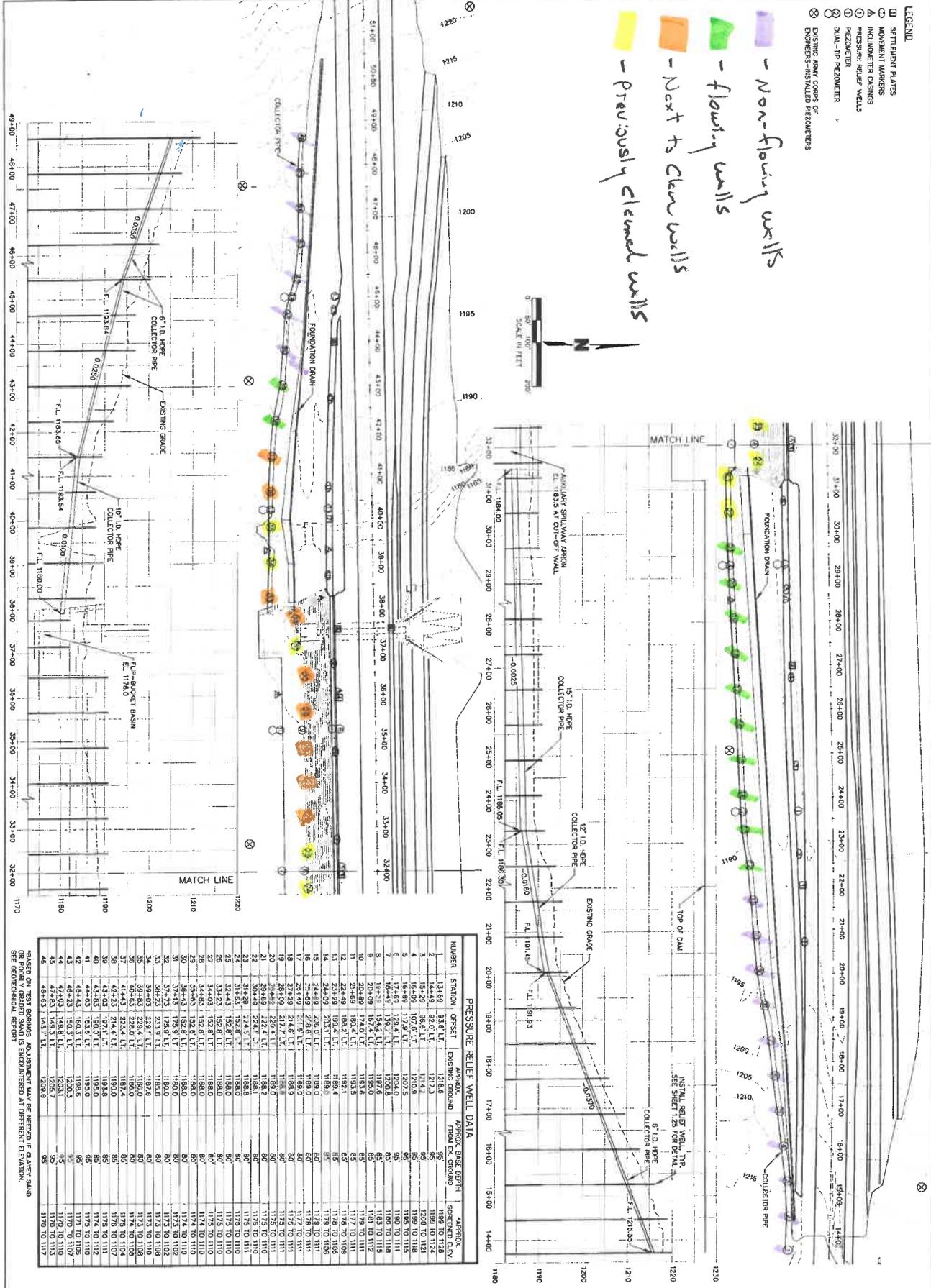
### Step Pumping Test



Well 22 A

### Step Pumping Test





- LEGEND**
- SETTLEMENT PLATES
  - △ INCLINOMETER CASINGS
  - PRESSURE RELIEF WELLS
  - PNEUMATIC PIEZOMETER
  - TAIL-TIP PIEZOMETER
  - ⊗ EXISTING ANVIL CORNER OF ENGINEERS-INSTALLED PIEZOMETERS
- Non-flowing wells  
— flowing wells  
— Next to Clean wells  
— previously cleaned wells

**PRESSURE RELIEF WELL DATA**

NUMBER	STATION	OFFSET	APPROX. EXISTING GROUND FROM EX. GROUND	APPROX. BASE DEPTH	SCHEDULED DEPTH
1	13+40	32.4' L.	1212.5	85	1197.10
2	13+40	32.4' L.	1174.4	85	1197.10
3	13+20	66.8' L.	1174.4	85	1197.10
4	16+00	107.5' L.	1210.0	85	1199.10
5	16+40	172.1' L.	1202.0	85	1199.10
6	16+40	150.7' L.	1200.0	85	1199.10
7	16+40	150.7' L.	1200.0	85	1199.10
8	11+15	154.2' L.	1197.0	85	1181.10
9	20+00	167.4' L.	1197.0	85	1181.10
10	21+60	160.2' L.	1193.5	85	1177.10
11	21+60	160.2' L.	1193.5	85	1177.10
12	22+40	168.2' L.	1192.1	85	1176.10
13	23+20	168.4' L.	1188.4	85	1176.10
14	23+20	238.0' L.	1189.0	85	1176.10
15	23+40	225.8' L.	1189.0	85	1176.10
16	23+40	225.8' L.	1189.0	85	1176.10
17	23+40	217.5' L.	1189.0	85	1176.10
18	23+40	217.5' L.	1189.0	85	1176.10
19	23+20	214.6' L.	1188.4	85	1176.10
20	23+40	225.8' L.	1189.0	85	1176.10
21	23+40	225.8' L.	1189.0	85	1176.10
22	30+40	224.2' L.	1186.2	80	1175.10
23	30+40	224.2' L.	1186.2	80	1175.10
24	31+10	178.9' L.	1186.0	80	1173.10
25	31+10	178.9' L.	1186.0	80	1173.10
26	31+20	152.8' L.	1189.0	80	1175.10
27	31+40	152.8' L.	1189.0	80	1175.10
28	31+40	152.8' L.	1189.0	80	1175.10
29	35+80	158.9' L.	1186.0	80	1174.10
30	36+40	182.8' L.	1188.0	80	1174.10
31	37+10	178.9' L.	1186.0	80	1173.10
32	37+10	178.9' L.	1186.0	80	1173.10
33	38+20	223.5' L.	1186.0	80	1173.10
34	38+20	223.5' L.	1186.0	80	1173.10
35	38+40	228.4' L.	1187.6	80	1173.10
36	38+40	228.4' L.	1187.6	80	1173.10
37	41+40	223.4' L.	1187.2	80	1175.10
38	41+40	223.4' L.	1187.2	80	1175.10
39	42+20	214.4' L.	1180.0	80	1176.10
40	42+20	214.4' L.	1180.0	80	1176.10
41	42+40	197.1' L.	1183.8	80	1174.10
42	42+40	197.1' L.	1183.8	80	1174.10
43	43+40	160.3' L.	1186.0	80	1171.10
44	43+40	160.3' L.	1186.0	80	1171.10
45	47+00	148.8' L.	1200.0	85	1170.10
46	48+50	143.7' L.	1200.0	85	1170.10

**PRESSURE RELIEF WELLS AND INSTRUMENTS PLAN AND PROFILE**

LAKE WAHOO DAM LOWER PLATTE NORTH NRD

WAHOO, NEBRASKA

2008

REVISIONS

DATE

REVISIONS DESCRIPTION

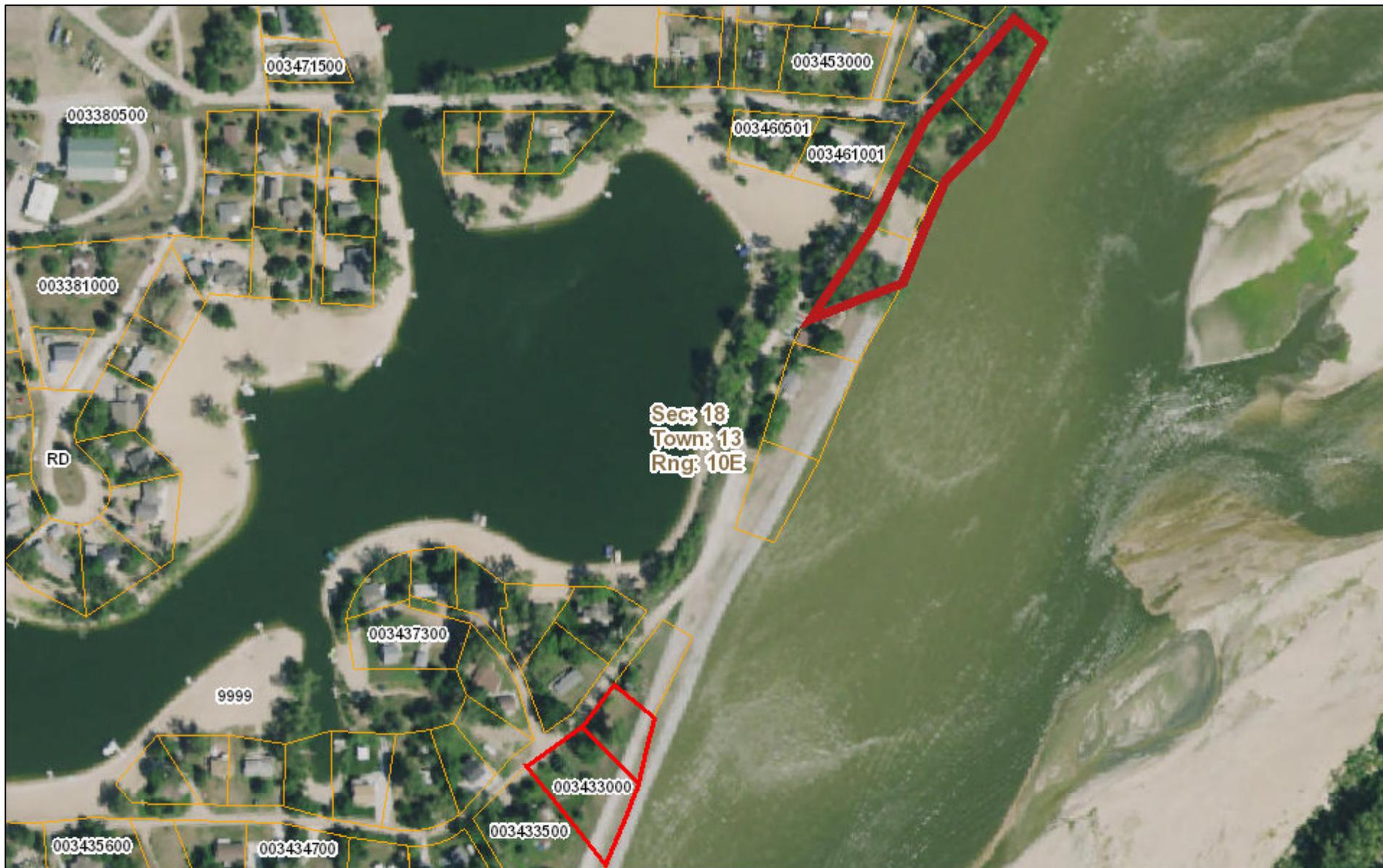
PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER

**MOLSSON ASSOCIATES**

2100 South 77th Street, Suite 1400 Omaha, NE 68124-6316 TEL: 402.341.1116 FAX: 402.541.5995 www.molssoneng.com

SHEET 1.2.4



August 11, 2021

DISCLAIMER: This map is not intended for conveyances, nor is it a legal survey. The information is presented on a best-efforts basis, and should not be relied upon for making financial, survey, legal or other commitments.

-  Parcels
-  Sections

