

Water Committee Meeting
Thursday, October 29, 2020 7:30 AM
Lower Platte North NRD Office
P.O. Box 126
Wahoo, NE 68066

1. UNFINISHED BUSINESS

2. REGULATORY

A. GROUND WATER MANAGEMENT AREA

1. Variance Request in the Hydrologically Connected Area (Limited Development Area)

Daniel Laska of Laskaland, LLC has requested the LPN Board to consider his variance as a normal variance within the Hydrologically Connected Area (HCA). A map showing where 4.99 acres would stop is attached, along with a map showing the 12.38 acres, which Laskaland is wanting to irrigate in crop year 2021.

Daniel Laska contacted the LPNNRD on October 8, 2020, with a variance submitted on October 15, 2020. Staff informed him the deadline was September 15, 2020.

The following rules are from the LPN Groundwater Rule and Regulations.

Rule 4 Variance Request and Ranking Criteria for Limited Development of Additional Irrigated Acres

(1) Landowners and/or operators wanting to expand the number of irrigated acres in the hydrologically connected area must first submit to the District a LPNNRD variance request form for a new water well and/or a LPNNRD variance request form for the expansion of irrigated acres from an existing water source by September 15th with those acres to be issued on January 1st of the following year (unless determined otherwise by the District).

Rule 1 Hydrologically Connected Area for Limited Development

Under the authority of §46-715, and consistent with the District's adopted Voluntary Integrated Management Plan and Lower Platte River Basin Water Management Plan (January 2018), the District shall limit development of irrigated groundwater acres with a goal of no more than 200 Acre Feet (AF) stream depletion per year in the Voluntary Integrated Management Plan groundwater control area. The Voluntary Integrated Management Plan (2018) is on file within the District's office and can be found on its website.

The LPN Board approved 145.447 acre feet of depletion on October

12, 2020. The Board has allowed expansion of acres less than 5 acres without a variance.

The Committee felt approving this variance would open up variances on a monthly basis and then they would be handled on a first come, first serve basis. The purpose of the deadline is to evaluate all normal variances on an equal basis.

- a. Randy Reznicek Variance Application
Randy Reznicek is asking the Board to consider his expansion application for 12 acres in S1-T17N-R6E. This application (LPN-V-018-0484) was originally approved in October of 2018 but the project was delayed due to the Highway 30 expansion. The application ranked 371.2 with an acre feet depletion of 2.3382.

The Committee felt as the Hwy 30 expansion was out of the producer control, that this variance should be honored. This variance was accounted for in the 2018 variance Acre Feet allotment, so does not change the 2020 total.

- b. Ralph Pieke Variance Application
Ralph and Dave Pieke submitted an expansion application on September 15th, 2020 but told staff that he did not want to pursue the project until 2021. He has since changed his mind and would like the Board to consider his application for 114 acres. The expansion is located in the NW 1/4 of S18-T21N-R4W. The application ranked 320.9 and has a new depletion of 17.878 Acre Foot (AF)

The Committee thought this was acceptable as it was before the September 15 deadline and does not put LPN over the 200 AF threshold. The total 2020 AF allotment would then be 163.325 AF.

- 2. John Wotipka Request
The Committee asked staff to develop a policy for adding less than 5 acres, which LPN Board has allowed in the past.
- 3. Bellwood Phase 2 Area
- 4. 2020 is the eighteenth year for this Phase 2 Area.

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122. Richland - Schuyler Phase 3 Area

123. 2020 is the fifth 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 numbers (at bottom of table) are for 65 sections.

Committee asked staff to look at prior years for over 15 PPM

| 124. Year | 125. Nitrate-nitrogen Range | 126. 127. Ni 128. c |
|-----------|-----------------------------|---------------------------|
| 138. 2004 | 139. 0 to 47 ppm | 140. 30 |

| | | | | | |
|------|------|------|----------------|------|-----|
| 144. | 2005 | 145. | 0 to 120 ppm | 146. | 31. |
| 150. | 2006 | 151. | 0 to 53 ppm | 152. | 28. |
| 156. | 2007 | 157. | 0 to 99 ppm | 158. | 32. |
| 162. | 2008 | 163. | 0 to 46 ppm | 164. | 28. |
| 168. | 2009 | 169. | 0 to 57 ppm | 170. | 33. |
| 174. | 2010 | 175. | 0 to 57.5 ppm | 176. | 31. |
| 180. | 2011 | 181. | 0 to 65.8 ppm | 182. | 28. |
| 186. | 2012 | 187. | 0 to 52.6 ppm | 188. | 29. |
| 192. | 2013 | 193. | 0 to 94.0 ppm | 194. | 25. |
| 198. | 2014 | 199. | 0 to 101.0 ppm | 200. | 27. |
| 204. | 2015 | 205. | 0 to 53.3 ppm | 206. | 23. |
| 210. | 2016 | 211. | 0 to 50.5 ppm | 212. | 25. |
| 216. | 2017 | 217. | 0 to 53.4 ppm | 218. | 25. |
| 222. | 2018 | 223. | 0 to 56.9 ppm | 224. | 26. |
| 228. | 2019 | 229. | 0 to 39.4 ppm | 230. | 25. |
| 234. | 2020 | 235. | 0 to 50.8 ppm | 236. | 25. |

240. Lower Platte River Basin Water Management Plan Coalition (LPRBC)
The technical group met on October 30th to make recommendations to the managers. The management meeting is scheduled for November 17. This management group then makes recommendations to the Coalition Representatives. The technical group agreed to recommend to the management group that the Lower Platte Basin will utilize analytical methods (similar to what was done in the initial study) and the CENEB model for the Upper Part of Basin. After the data is collected and analyzed, the group will decide the percentage, which probably will be around 5-10% for the next 5 years.

The main agenda item that will be discussed at the technical meeting is how the next increments of water allotments will be divided or not divided. A map is attached showing the Lower Platte River Basins including the 7 NRDs involved.

Options sent out by Tylr Napstek - LLNRD and chairman of the technical committee.

What this group needs to develop is a recommendation for which model or models should be used. Some options and items:

- A full comprehensive update cannot be done using latest models until the new models in Lower Platte are Completed (well after 1st increment expires).
 - Potential for re-analyzing lower basin with updated models as they become available.
- Option to utilize CENEB for upper portions Loup & Elkhorn and use previous utilized analytical methods for lower portion of the basin.
- Another option would be to utilize same methodology and analytical tools used in the 1st increment throughout the entire basin

Other options that has been discussed at the LPN Water Committee:

- To work with the allotment that was issued in 2016 for another 5 years and borrow ahead if needed. After this years' variances the LPN has 1247.55 Acre Feet still available.
- To except 1/2 of the original allotment, which would be 1, 138 Acre Feet of Water. The first allotment was only 10% of the useable water, so this would be an additional 5%.

241. Staff concern is that NeDNR says that Lower Platte - Missouri Trib. model will be done around 2023. Will that happen? If it is completed, will the NRDs accept it? There is a couple studies currently being conducted in LE and SQS #2 area to analysis the model utilizing AEM flights. Papio and LPN potentially could be getting a joint WSF grant to do its on geological framework project.

The Committee and staff felt that as the Lower Platte-Missouri Trib. model is not complete, that the District should stay with the original 2016 HCA area. They felt that as the original allotment was 10%, to ask for 5% for the next 5 year increment (2022-2027). The District will be carrying over 1229.672 AF minus next year's AF allotment. This would leave the District with a little over 2000 AF for the next 5-year allotment.

242. Flow Meter Maintenance Program
Calls have been received from producers complimenting the LPNNRD on expanding the meter maintenance district wide.

B. CHEMIGATION

Attached is the annual state report to DEE

C. GROUND WATER ENERGY LEVELS

Attached are a couple of graphs from GWEL wells within SQS #1 and David City Area. These are the fall levels and recharge will occur over the winter for spring levels. Staff would like to start the discussion with Committee on drought scenarios. Lower Elkhorn NRD has implemented some restrictions for certain areas as the D3 trigger was hit within the NRDs drought plan. Is the LPN ready to handle a mutli-year drought? What information do you

want staff to provide? Allocations might not work for a confining aquifer? Water flow meters take time to install and accurate water usage can be beneficial in calculating volume of water available.

The latter half of the 2020 growing season was significantly dry and staff has been brainstorming of ways we can deal with excessive pumping to preserve our water for ALL of the irrigated land throughout the LPNNRD. These numbers are up for discussion and nothing is set in place. This is something that we may want to consider and starting thinking about if these drought scenarios occur more frequently into the future. These are only suggestions. The suggested numbers are acre inch capped limits.

Drought Conditions: For crops--Water needed

D0 (abnormally dry) = 4-8"

D1 (moderate drought) = 8-10"

D2 (severe drought) = 10-12"

D3 (extreme drought) = 12-15"

D4 (exceptional drought) = 15-18"

Drought Conditions: To protect the water supply (2 or more consecutive years with drought conditions)

D0 (abnormally dry) = 4"

D1 (moderate drought) = 6"

D2 (severe drought) = ? 8"

D3 (extreme drought) = ? 8", 10", 12"

D4 (exceptional drought) = ? 8", 10", 12", 14"

Drought Conditions: To protect the water supply and for crop production (combined)

D0 (abnormally dry) = 4" or 6"

D1 (moderate drought) = 6" or 8"

D2 (severe drought) = 8" or 10"

D3 (extreme drought) = 10" or 12"

D4 (exceptional drought) = 12" or 14"

Copy of current drought map is attached.

If a multi-year drought would happen, by LPN GW Rules and Regulations it could take 3 years before Water Quantity Rules would be implemented.

The Committee asked staff to put together a plan to install water flow meters district wide at the November Water Committee with a potential vote at the December Board Meeting.

D. LIVESTOCK WASTE PERMITS

- E. The LPNNRD has received # 1 livestock permit applications from DEQ since the last Water Committee meeting.
The Board did past a motion to stay neutral on livestock facilities and the NRD responsibility is with the permitting of high capacity wells. Manure application is usually treated as any commercial fertilizer, which soil sampling and manure analysis should be conducted and handled by NDEE.

| F. Name | G. Livestock | H. Type of Permit |
|----------------|--------------|-------------------|
| K. Korte Farms | L. Swine | M. Expansion |
| P. | Q. | R. |
| U. | V. | W. |
| Z. | AA. | BB. |

Description of permit application

Plan to increase from 9000 head to 14,000 for swine <55 lbs and from 4500 head to 7000 for swine >55 lbs.

3. GROUND WATER PROGRAMS

A. DECOMMISSIONED WELL PROGRAM

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

| 3. Well Owner | 4. Type of Well | 5. Cost S Estim. |
|---------------------------|-----------------|---------------------|
| 7. New Branch Farms Inc. | 8. Irrigation | 9. |
| 11. New Branch Farms Inc. | 12. Irrigation | 13. |
| 15. | 16. | 17. |

19. Plugged Wells

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

| 21. Well Owner | 22. Type of Well | 23. Cost Share Estima |
|----------------|------------------|-----------------------|
| 25. | 26. | 27. |
| 29. | 30. | 31. |
| 33. | 34. | 35. |

B. LOWER PLATTE NORTH NRD GROUND WATER STUDIES

1. Phase Area Update

Attached is an invoice for \$17,547.25 per contract from LRE.

Activities in last month from LRE included:

- Completion of the vulnerability assessment and other relevant hydrogeologic surfaces that will be used in the desktop tool as inputs
- Initial calibration of the SWB model
- Corresponding with LPN NRD staff on land cover, parcel data, etc. for GIS purposes
- Discussion with LPN NRD and the LRE team, and LRE internal meetings on input layers
- Refinement of desktop tool workflow

2.

C. WSF GRANT

Attached is the scoring sheet showing the approval of the WSF grant for the geological interpretation grant. A agreement between Papio and LPN will be developed for Board approval.

4. OTHER

A. COMMENTS FROM THE PUBLIC

VARIANCE REQUEST FOR EXPANDED WATER USE FROM EXISTING WELL IN A STAY MANAGEMENT AREA OF THE LOWER PLATTE NORTH NRD (LPNNRD)



Updated Form: August 2012

NRD USE ONLY

Date Received 10/15/2020 Paid: Cash or Check 10/19/20
 Initial Review by NRD Representative O. Anderson # 1079
 Certified Acres _____ by NRD Representative \$ 75
 Date of Water Committee Recommendation to the NRD Board _____
 Date NRD Board issues Conditional Approval or Denial of Variance Request _____
 Date of Approved Variance _____ by NRD Representative _____

ALL APPLICANTS SEEKING A VARIANCE MUST COMPLETE PAGES 1 AND 2. (CLASS 1-4 VARIANCE)
 VARIANCE REQUESTS 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. (CLASS 3 VARIANCE)
 VARIANCE REQUESTS 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. (CLASS 4 VARIANCE)

1. NAME AND ADDRESS OF APPLICANT:

LASKALAND, LLC
c/o Daniel Laska
39649 State Hwy 22
Genoa, NE 68640

Home Phone: (402) - 910 - 8836
 Cell Phone: (402) - 910 - 8837 (Dan)
 Landowner Name: LASKALAND, LLC
 (if other than applicant)

2. PURPOSE OF EXPANDED WATER USE (indicate one or more):

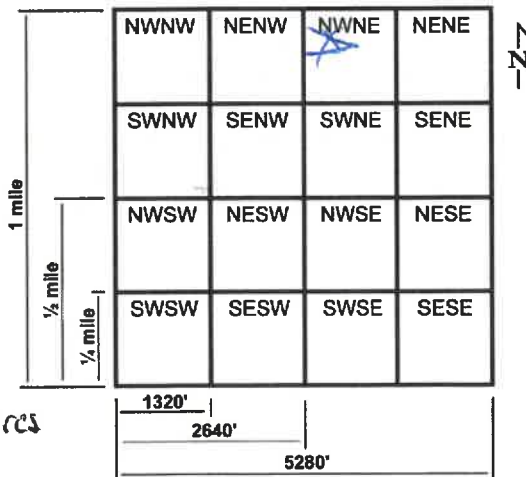
- Irrigation
- Livestock
- Industrial
- Recovery or Remediation
- Dewatering (Over 30 days)
- Domestic (Irrigation on one acre or larger)
- Public Water Supply
- Other (specify) _____

3. LOCATION OF PROPOSED EXPANDED WATER USE:

A. PLATTE County, NW 1/4 of the NE 1/4 of Section 9, Township 19 North, Range 3 East/West (circle one)

B. The box at the right represents one square mile, (section). Indicate with an "X", the proposed location of the water source. 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. List the number of new irrigated acres 1238
 D. List the number of previously irrigated acres 110.75 Acres



4. WATER SOURCE (fill out one or more water source categories as needed, continued on page 2) :

A. Surface Water:
 Legal Description of water source _____ County, _____ 1/4 of the _____ 1/4 of Section _____, Township _____ North, Range _____ East/West. (circle one)
 Name of river, stream, lake, or other water body _____

Dept. of National Resources Surface Water Permit # _____
Total annual amount of consumptive water use to be delivered to proposed location in
Acre Inches / Year _____ or Total Gallons / Year _____

4. **WATER SOURCE, CONTINUED:**

B. Ground Water:

Legal Description of well PLATTE County, 1/4 of the NW 1/4 of Section 9,
Township 19 North, Range 3 East/West. (circle one) Well Registration Number G-031110
Will the well be used in a system with other wells? Yes, No. If Yes, How many G-031110
Attach list of well registration number and legal description for each well.
Total annual amount of consumptive water use to be delivered to proposed location in
Acre Inches / Year 9" or Total Gallons / Year _____

pipe to street

C. Reuse Water:

Legal Description of water source: _____ County, _____ 1/4 of the _____ 1/4 of Section _____,
Township _____ North, Range _____ East/West. (circle one)
Landowner and Address of person(s) providing reuse water _____
Original water source of this reuse water: Ground Water, Surface Water, mark all that apply.
Total annual amount of consumptive water use to be delivered to proposed location in
Acre Inches / Year _____ or Total Gallons / Year _____

- Attach information from the operation you will be using as a source of reuse water. List amount of intake water used by this operation, description of water use within the operation, and the amount discharged.

5. **OFFSET WATER USE:**

- A. Will proposed new water use be offset by retiring water use in this same aquifer system? Yes, No
- B. If Yes, give legal description of that offsetting water use: _____ County, _____ 1/4 of the _____ 1/4 of Section _____, Township _____ North, Range _____ East/West. (circle one)
- C. Landowner and Address of person(s) providing offset water _____
- D. If using offset from irrigation, list number of acres at this 'offset' location _____
- E. Original water source of this offset water: Ground Water, Surface Water, Reuse Water, mark all that apply.
- F. Total annual amount of consumptive water use to be retired at this 'offset' location in
Acre Inches / Year _____ or Total Gallons / Year _____
- Please provide flow records for the last five years from this 'offset' location.

6. 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 expanded water uses must install a District approved flow meter and report water pumped annually to the LPNNRD by January 31st of the following year.
- Additional variance conditions may be required for approval by the Lower Platte North NRD.
- Variances will be reviewed annually.

7. 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 10/15/2020 Signature of Applicant DANIEL D. LASKA
Signature of Well System Operator, if different than Applicant _____
NRD Certification Number of Landowner or Operator 5881 (Required for irrigation, livestock, domestic (with irrigation on one acre or more of land), industrial, and public water supply wells.)
4/11/2023

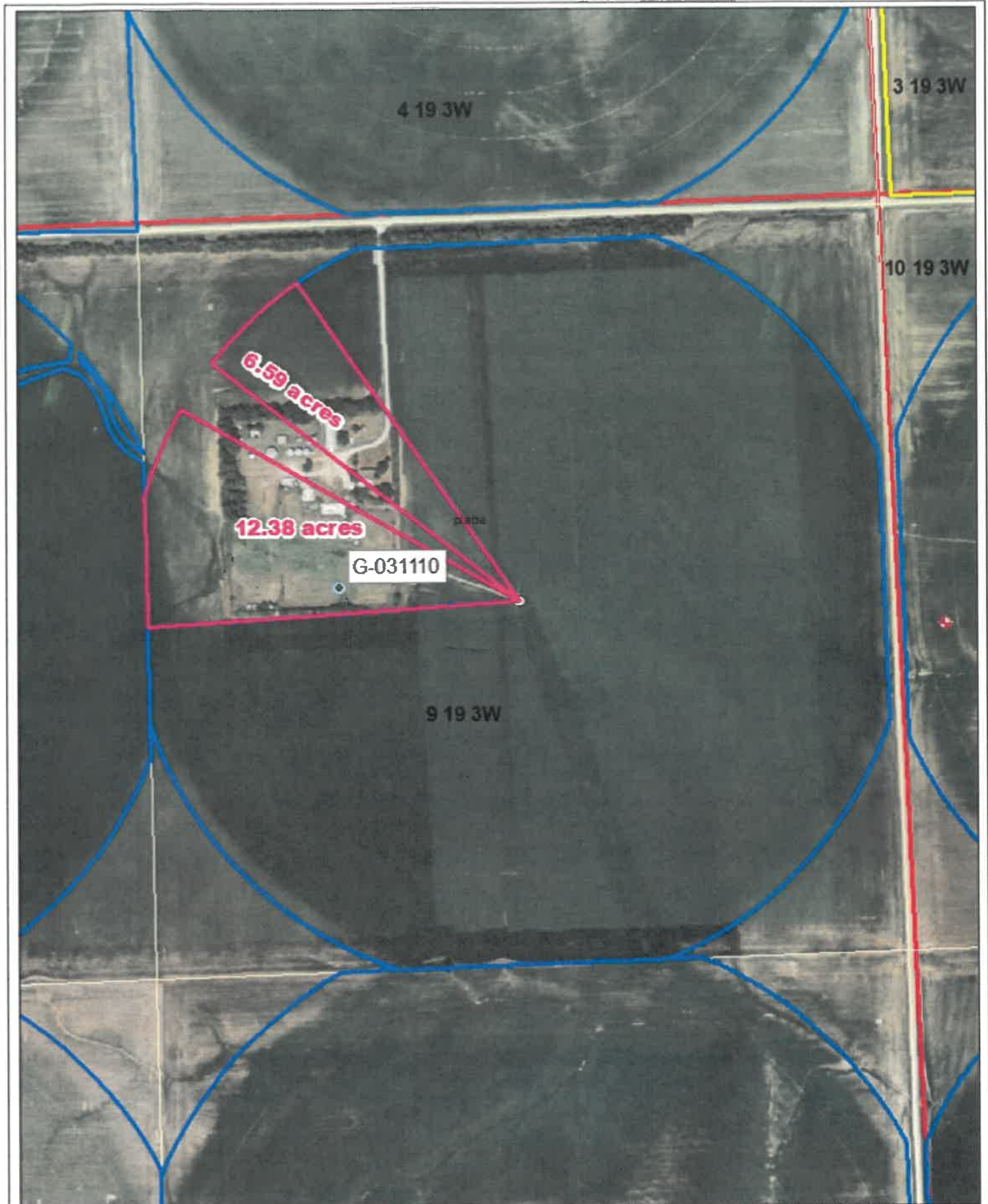
8.

If needed, Signature of Landowner providing Reuse Water _____
Date _____

If needed, Signature of Landowner providing Offset Water _____
Date _____

9. Lower Platte North NRD Use Only.

Comments by District Representative.



4 19 3W

3 19 3W

10 19 3W

6.59 acres

12.38 acres

G-031110

9 19 3W

NE 1/4 9-19-3W

LPN Sections

Parcel Boundary

Additional Acres

Irrigation Boundary

Map created by LPNNRD GIS Dept.
 For questions regarding this map or
 the packet please contact by phone
 (402) 443-4875 or by email
 certifice to n@lpn.nrd.org





- LPN Sections
- Irrigation Boundary
- Parcel Boundary
- Allowable Expansion

NE 1/4 9-19-3W

Map created by LPNHRD GIS Dept.
 For questions regarding this map or
 the packet please contact by phone
 (402) 443-4575 or by email
 certifica@lpnhrd.org





T17N R6E S1

G-090363 G-090364

G-031923

T21N R4W S18

T14N R6E S24

G-136546

T14N R6E S25



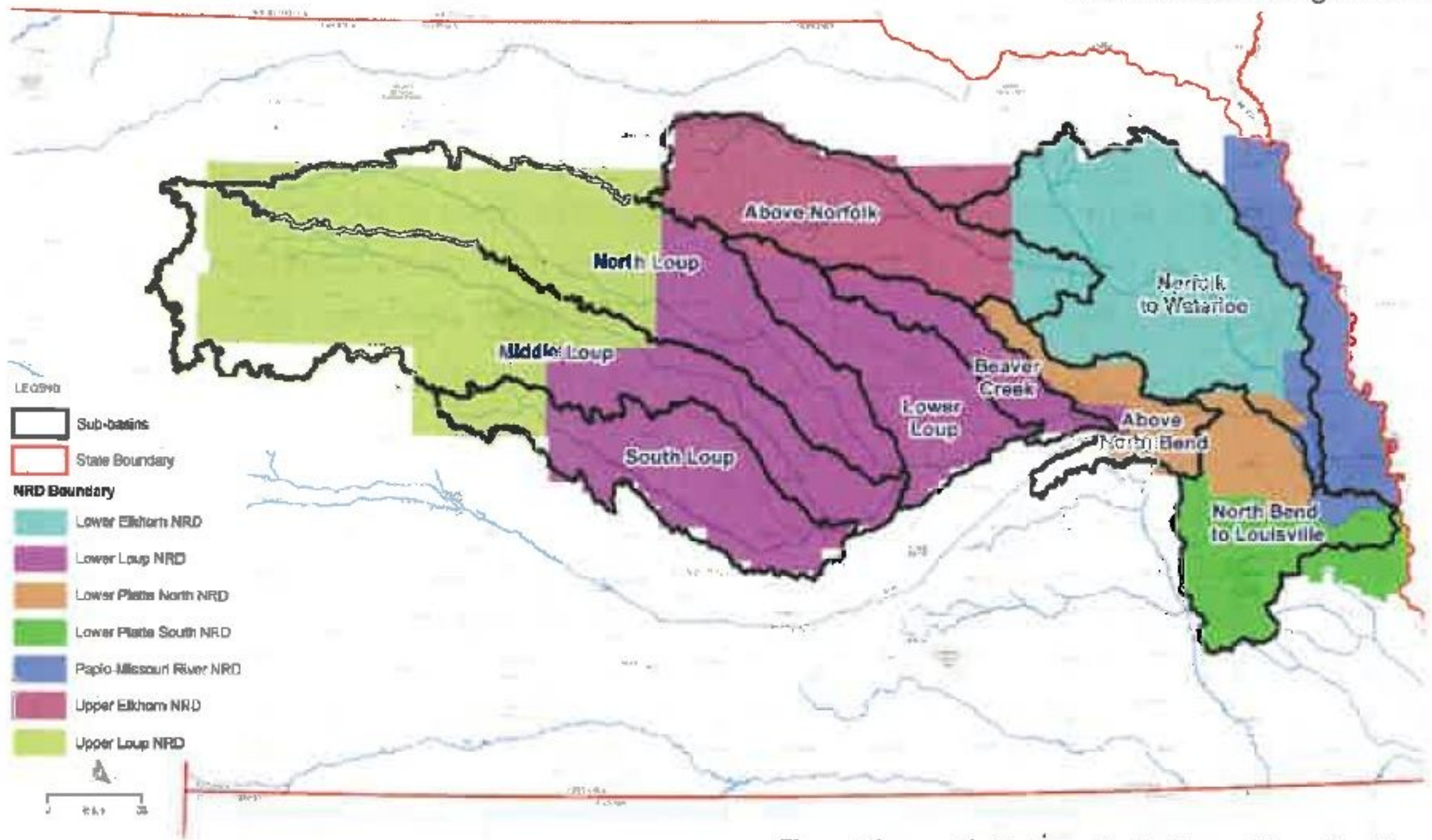


Figure 1 Lower Platte River Basin General Location Map

Calendar Year 2020
(January 1 – December 31, 2020)
Chemigation Annual Report – As Required by
Nebraska Chemigation Act - § 46-1123 and
Title 195 – Rules and Regulations Pertaining to Chemigation

Natural Resources District: Lower Platte
Headquarters City: Wahoo

| | New | Renewal | Emergency | Special | Total |
|---|---------------------------------------|----------------|--------------------------------------|--|--------------------------|
| Applications Received | 53 | 695 | 0 | | 748 |
| Applications Approved | 52 | 695 | 0 | | 747 |
| Fees Collected | \$4,770 | \$ 20,850 | 0 | | \$ 25,620 |
| | Initial | Routine | Follow-up | Equipment Replacement or Repair | Total Inspections |
| Inspections | 53 | 228 | 11 | 11 | 292 |
| Fertilizer/Pesticide Used Crop Season 2020¹ | Total Amount Applied – gallons | | Total Amount Applied – pounds | | |
| 28-0-0-5 | 17405 & | | 24175 | | |
| 32% | 89020.09 & | | 765477 | | |
| 25-0-0-6 | 0 & | | 10125 | | |
| 32-0-0 | 7220 & | | 901732.2 | | |
| Thiosulfate | 0 & | | 19882 | | |
| thiosul 12-0-0-26 | 0 & | | 39169 | | |
| 32-0 | 0 & | | 20000 | | |
| thiosul | 0 & | | 3280 | | |
| 30-0-0-5 | 0 & | | 26520 | | |
| travapro | 59.87 & | | 0 | | |
| 12-0-0-26 | 1100 & | | 26592.1 | | |
| sulfur | 1164 & | | 0 | | |
| nitrogen | 3800 & | | 11536 | | |
| 25-0-2-4 | 5980 & | | 0 | | |
| Quilt Excel | 10 & | | 0 | | |
| 26-0-3-5 | 10120 & | | 0 | | |
| 28% | 500 & | | 55598 | | |
| leverage | 6.56 & | | 0 | | |
| Headline AMP | 70.16 & | | 0 | | |
| 8-0-0-9 | 0 & | | 30000 | | |
| headline | 16.02 & | | 0 | | |
| headline AMP | 22.1 & | | 0 | | |
| lorsban | 0.47 & | | 0 | | |
| trival pro | 25.37 & | | 0 | | |
| 20-0-3-2 | 0 & | | 60000 | | |
| EB Mix | 20 & | | 0 | | |
| 0-0-25-17 | 2128 & | | 0 | | |
| affiance | 0.11 & | | 0 | | |
| KQ 353 | 0 & | | 2146 | | |
| priaxor | 9.38 & | | 0 | | |
| KQ353 & 32% | 0 & | | 16249 | | |
| ATS | 0 & | | 15 | | |

| | | | |
|---------------------|----------|-------|--|
| 29-0-0-3 | 1000 & | 9300 | |
| Efficient | 5205 & | 0 | |
| sulfur | 0 & | 210 | |
| lambda | 0.06 & | 0 | |
| KQ353 | 0 & | 12862 | |
| Cover XL | 0 & | 7.7 | |
| 28-0-0 | 0 & | 41695 | |
| Silencer | 0 & | 2.5 | |
| 0-0-25 KTS | 100 & | 0 | |
| Bifenture | 0 & | 2.25 | |
| 32-0-0 / 12-0-0-26 | 1700 & | 0 | |
| Govern | 15 & | 0 | |
| Frenzie Attack | 3.7 & | 0 | |
| Total Treated Acres | 40822.44 | | |

1. Quantity of fertilizer/pesticide can be reported in either gallons or pounds. Does not have to be reported in both.

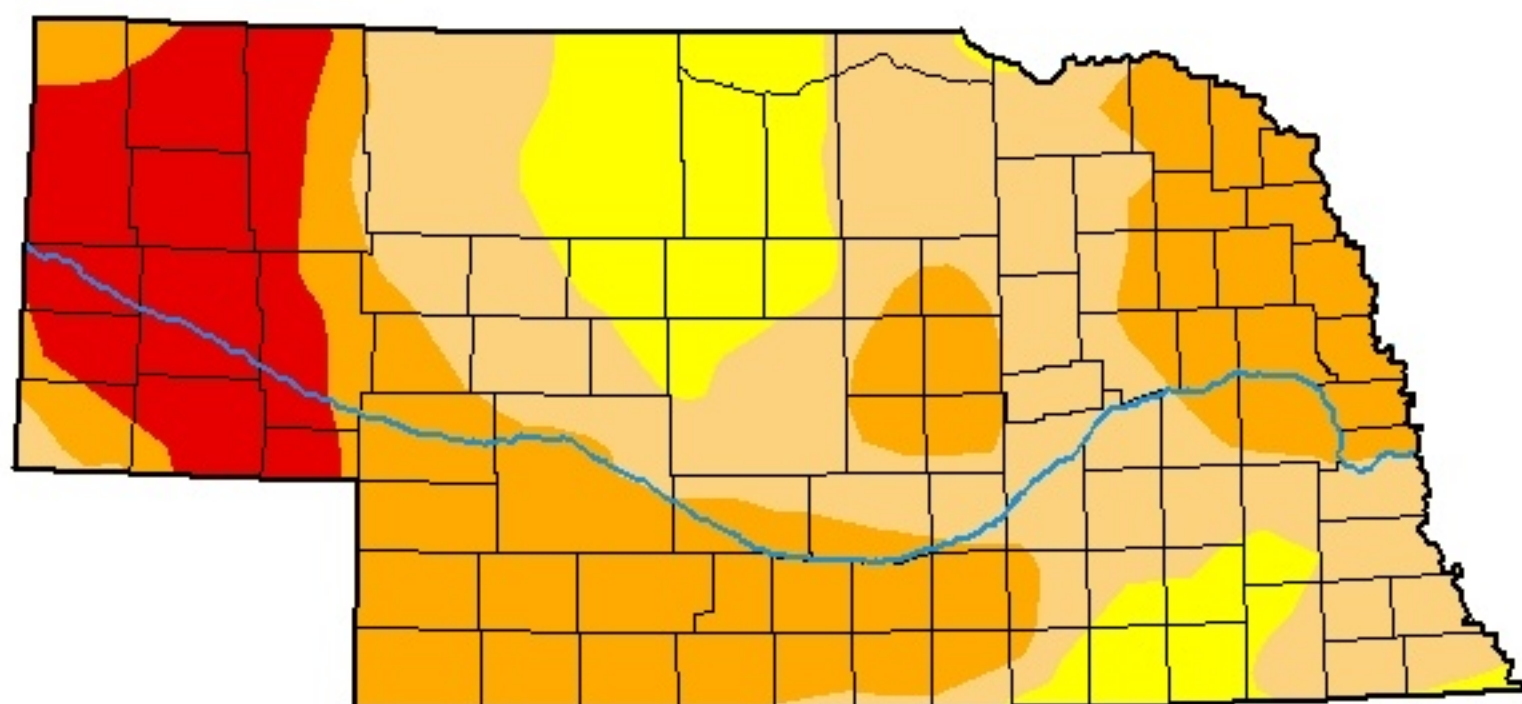
Additional Information:

U.S. Drought Monitor Nebraska

October 20, 2020
(Released Thursday, Oct. 22, 2020)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

| | None | D0-D4 | D1-D4 | D2-D4 | D3-D4 | D4 |
|---|-------|--------|-------|-------|-------|------|
| Current | 0.00 | 100.00 | 85.77 | 49.55 | 13.45 | 0.00 |
| Last Week 10-13-2020 | 0.00 | 100.00 | 80.94 | 45.53 | 11.30 | 0.00 |
| 3 Months Ago 07-21-2020 | 42.26 | 57.74 | 22.92 | 1.11 | 0.00 | 0.00 |
| Start of Calendar Year 12-31-2019 | 97.47 | 2.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| Start of Water Year 09-29-2020 | 1.64 | 98.36 | 77.26 | 32.68 | 7.56 | 0.00 |
| One Year Ago 10-22-2019 | 98.43 | 1.57 | 0.00 | 0.00 | 0.00 | 0.00 |



Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:

Curtis Riganti
National Drought Mitigation Center



droughtmonitor.unl.edu

RegCD: G-060519

Well #: UP-09A

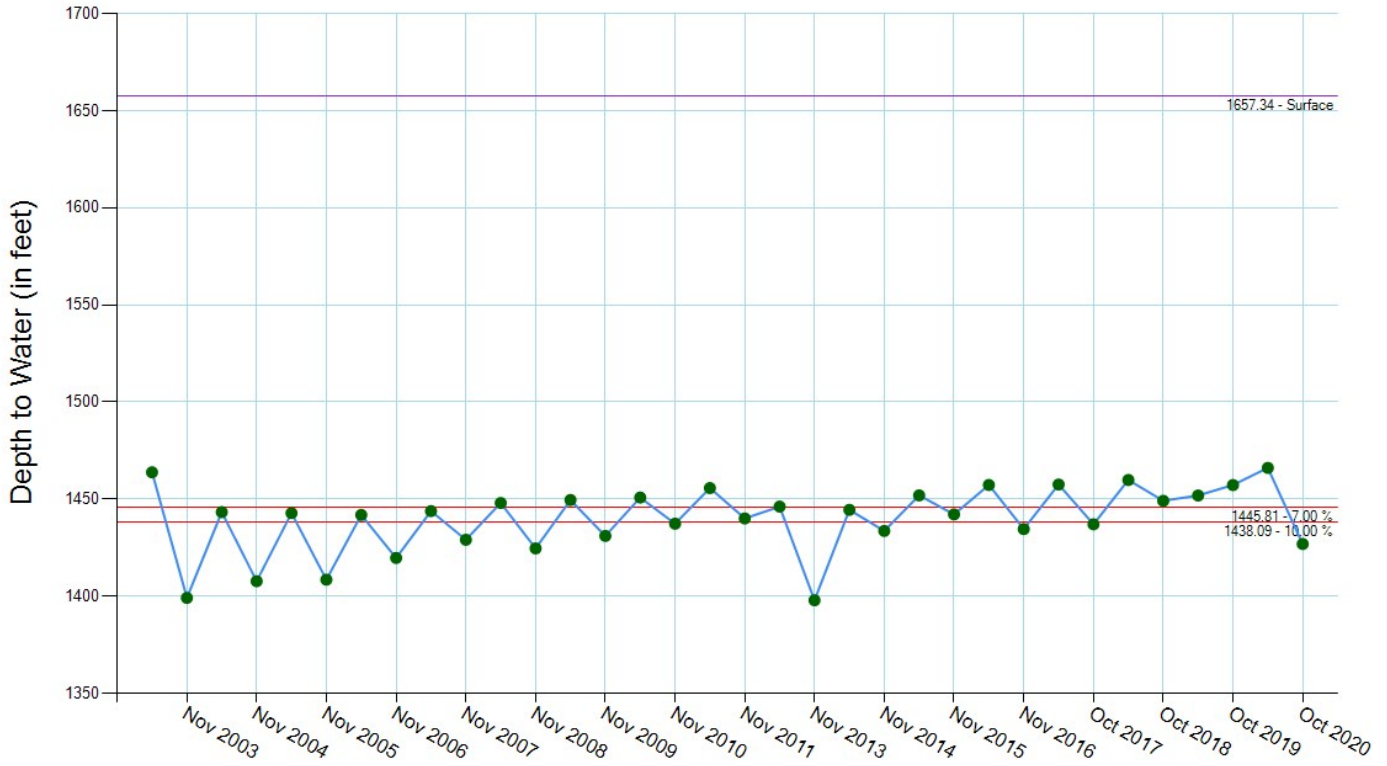
Region: Uplands

County: Butler

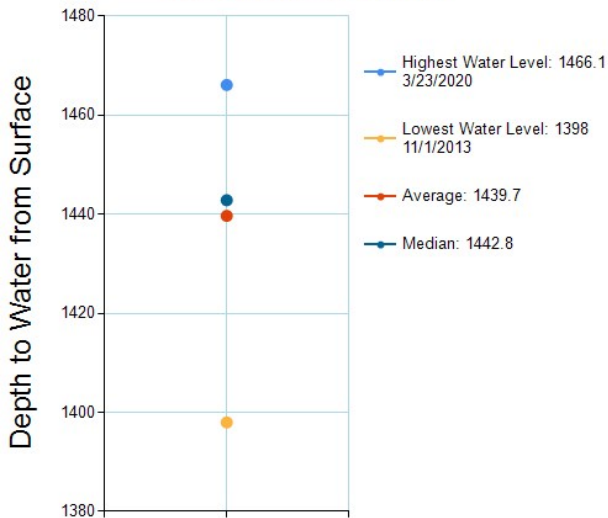
Legal: 15-3E-18

Owner Name: Siffring Farms Inc

Water Level Readings



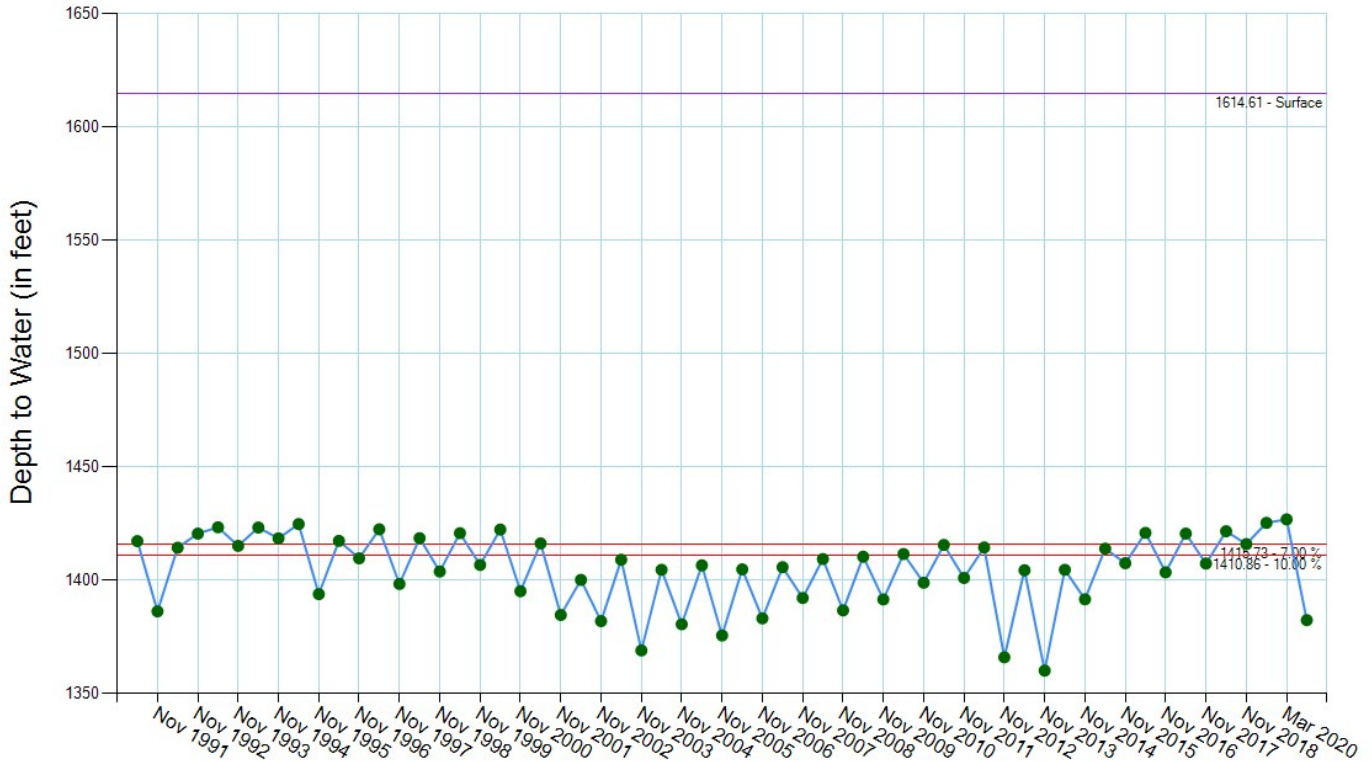
Record Results



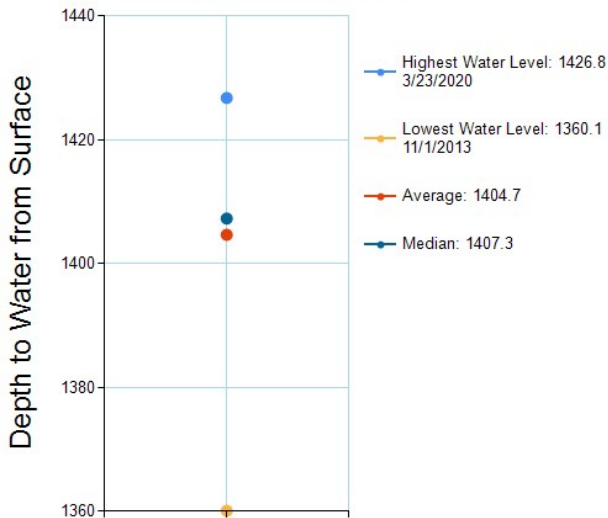
Historical Readings (date - reading)

| | | | |
|---------------------|---------------------|---------------------|---------------------|
| 03/01/1987 - 1463.8 | 11/01/2007 - 1429.1 | 03/01/2012 - 1446.2 | 10/23/2017 - 1439.9 |
| 11/01/2003 - 1399.2 | 03/01/2008 - 1448 | 11/01/2013 - 1398 | 10/23/2017 - 1434.2 |
| 03/01/2004 - 1443.3 | 11/01/2008 - 1424.7 | 03/01/2014 - 1444.5 | 03/21/2018 - 1459.9 |
| 11/01/2004 - 1407.8 | 03/01/2009 - 1449.6 | 11/01/2014 - 1433.7 | 10/18/2018 - 1449.2 |
| 03/01/2005 - 1442.8 | 11/01/2009 - 1431.1 | 03/01/2015 - 1452 | 04/15/2019 - 1451.9 |
| 11/01/2005 - 1408.6 | 03/01/2010 - 1450.8 | 11/01/2015 - 1442.2 | 10/21/2019 - 1457.3 |
| 03/01/2006 - 1441.9 | 11/01/2010 - 1437.4 | 03/01/2016 - 1457.3 | 03/23/2020 - 1466.1 |
| 11/01/2006 - 1419.7 | 03/01/2011 - 1455.7 | 11/01/2016 - 1434.6 | 10/19/2020 - 1426.9 |
| 03/01/2007 - 1443.9 | 11/01/2011 - 1440.1 | 03/01/2017 - 1457.6 | |

Water Level Readings



Record Results



Historical Readings (date - reading)

| | | | |
|---------------------|---------------------|---------------------|---------------------|
| 03/01/1991 - 1417.2 | 11/01/1998 - 1403.8 | 04/01/2006 - 1404.8 | 11/01/2013 - 1360.1 |
| 11/01/1991 - 1386.2 | 04/01/1999 - 1420.7 | 11/01/2006 - 1383.1 | 04/01/2014 - 1404.6 |
| 04/01/1992 - 1414.3 | 11/01/1999 - 1406.7 | 04/01/2007 - 1405.7 | 11/01/2014 - 1391.5 |
| 11/01/1992 - 1420.5 | 04/01/2000 - 1422.3 | 11/01/2007 - 1392.1 | 04/01/2015 - 1413.9 |
| 04/01/1993 - 1423.3 | 11/01/2000 - 1395.1 | 04/01/2008 - 1409.3 | 11/01/2015 - 1407.5 |
| 11/01/1993 - 1415.1 | 04/01/2001 - 1416.2 | 11/01/2008 - 1386.7 | 04/01/2016 - 1420.8 |
| 04/01/1994 - 1423.2 | 11/01/2001 - 1384.6 | 04/01/2009 - 1410.3 | 11/01/2016 - 1403.4 |
| 11/01/1994 - 1418.4 | 04/01/2002 - 1400.1 | 11/01/2009 - 1391.5 | 04/01/2017 - 1420.5 |
| 04/01/1995 - 1424.7 | 11/01/2002 - 1381.9 | 04/01/2010 - 1411.5 | 11/01/2017 - 1407.3 |
| 11/01/1995 - 1393.8 | 04/01/2003 - 1409 | 11/01/2010 - 1398.9 | 04/01/2018 - 1421.5 |
| 04/01/1996 - 1417.3 | 11/01/2003 - 1369 | 04/01/2011 - 1415.5 | 11/01/2018 - 1415.9 |
| 11/01/1996 - 1409.6 | 04/01/2004 - 1404.5 | 11/01/2011 - 1401 | 04/01/2019 - 1425.2 |
| 04/01/1997 - 1422.4 | 11/01/2004 - 1380.5 | 04/01/2012 - 1414.4 | 03/23/2020 - 1426.8 |
| 11/01/1997 - 1398.3 | 04/01/2005 - 1406.5 | 11/01/2012 - 1366 | 10/19/2020 - 1382.3 |
| 04/01/1998 - 1418.5 | 11/01/2005 - 1375.6 | 04/01/2013 - 1404.3 | |



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

October 7, 2020
 Project No: 5036LPN01
 Invoice No: 15193

Project 5036LPN01 Nitrate Assessment Web-Based Tool

Professional Services through September 25, 2020.

Task 01 Hydrogeologic Asmnt & Aquifer Vlnrbly

Professional Personnel

| | Hours | Rate | Amount | |
|--------------------|--------------|------------------------|---------------|--------------------|
| Hume, David | 5.75 | 218.00 | 1,253.50 | |
| Sopiwnik, Roscoe | 73.25 | 140.00 | 10,255.00 | |
| Totals | 79.00 | | 11,508.50 | |
| Total Labor | | | | 11,508.50 |
| | | Total this Task | | \$11,508.50 |

Task 03 Soil-Water-Balance Model

Professional Personnel

| | Hours | Rate | Amount | |
|--------------------|--------------|------------------------|---------------|-------------------|
| Barber, Joel | 15.50 | 165.00 | 2,557.50 | |
| Totals | 15.50 | | 2,557.50 | |
| Total Labor | | | | 2,557.50 |
| | | Total this Task | | \$2,557.50 |

Task 04 Interactive Web-Based Desktop Tool

Professional Personnel

| | Hours | Rate | Amount | |
|--------------------|--------------|-------------|---------------|-----------------|
| Close, Kelly | 12.75 | 225.00 | 2,868.75 | |
| Sopiwnik, Roscoe | 2.50 | 140.00 | 350.00 | |
| Totals | 15.25 | | 3,218.75 | |
| Total Labor | | | | 3,218.75 |

Consultants

| | | | | |
|------------|--------------------------|--|---------------|---------------|
| Doug Kulak | | | | |
| 9/25/2020 | Doug Kulak | | 262.50 | |
| | Total Consultants | | 262.50 | 262.50 |

Total this Task \$3,481.25

Total this Invoice \$17,547.25

TERMS: Net 30 days. A finance charge of 1.5% per month, with an annual rate of 18% is applied to past due amounts.

2020 NRC Application Review Committee Recommendation

| App No | Large (↑\$250,000) Project Name | Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 | Bonus | Total Points | Requested \$ Amount | Funding Recommendation |
|-------------------|--------------------------------------|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-------|--------------|---------------------|------------------------|
| 5253 | Deadmans Run Flood Reduction- LPSNRD | | | | | | | | | | | | | | | | | | \$ 2,564,141.04 | \$ 2,564,141.04 |
| 5306 | Peru Water Supply | 6 | 4 | 2 | 4 | 4 | 6 | 2 | 6 | 2 | 3 | 2 | 1 | 2 | 1 | 2 | 0 | 47 | 2,441,400.00 | Yes |
| 5269 | NPPD's SP Supply Canal Restoration | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 0 | 43 | 2,357,672.00 | Yes |
| Recommended Total | | | | | | | | | | | | | | | | | | | \$ 4,799,072.00 | |

| App No | Small (≤ \$250,000) Project Name | Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 | Bonus | Total Points | Requested \$ Amount | Funding Recommendation |
|--------|------------------------------------|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-------|--------------|---------------------|------------------------|
| 5283 | WWUM Dashboard App | 4 | 6 | 4 | 4 | 4 | 4 | 4 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 47 | 240,000.00 | Yes |
| 5301 | URNRD Soil Moisture Probe | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 42 | 123,840.00 | Yes |
| 5304 | TPNRD Aquifer Monitoring | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 0 | 40 | 249,990.00 | Yes |
| 5303 | Papio & LPN NRD's 3D AEM Framework | 2 | 4 | 4 | 4 | 4 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 0 | 39 | 168,000.00 | Yes |
| 5305 | Inglewood Flood Repair | 4 | 2 | 0 | 4 | 4 | 2 | 4 | 4 | 0 | 4 | 2 | 4 | 2 | 2 | 1 | 0 | 32 | 166,081.00 | No |

| | |
|-----------|---------------|
| Available | 10,865,033.00 |
| # 5253 | 2,564,141.04 |
| CSO | 1,086,503.30 |
| Small | 1,086,503.30 |
| Large | 6,127,885.36 |

Recommended Total 781,830.00