



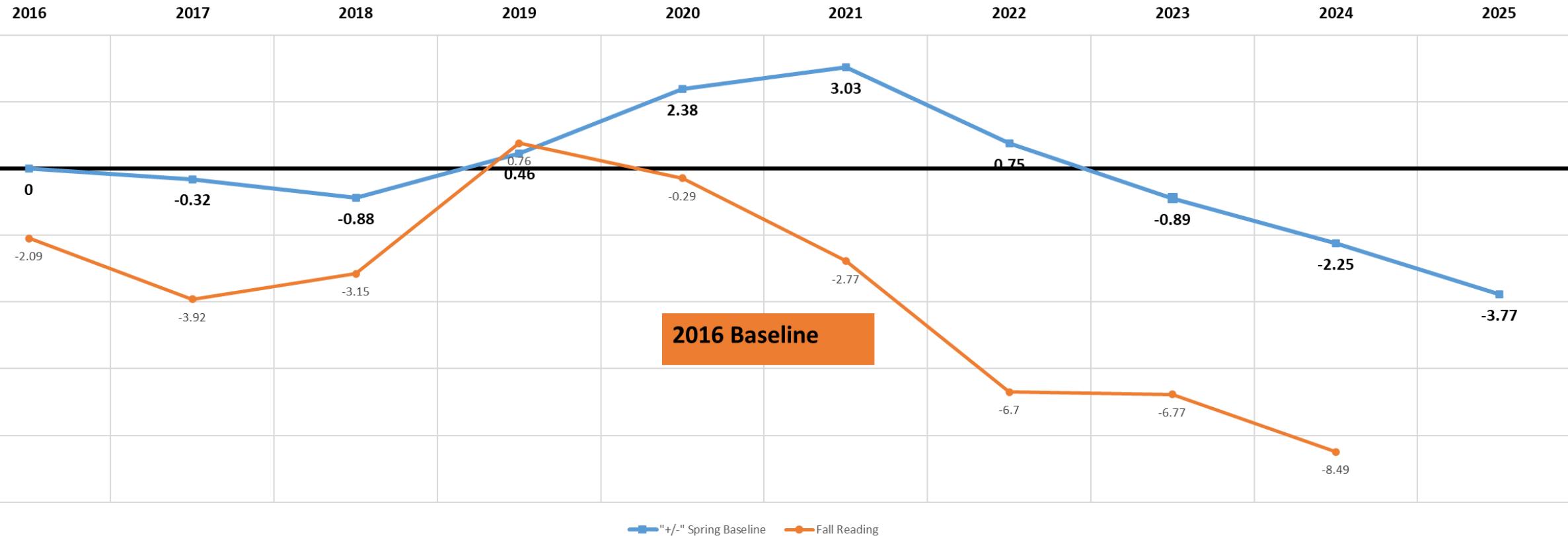
INTEGRATED MANAGEMENT PLAN NOVEMBER 18, 2025

Groundwater Levels

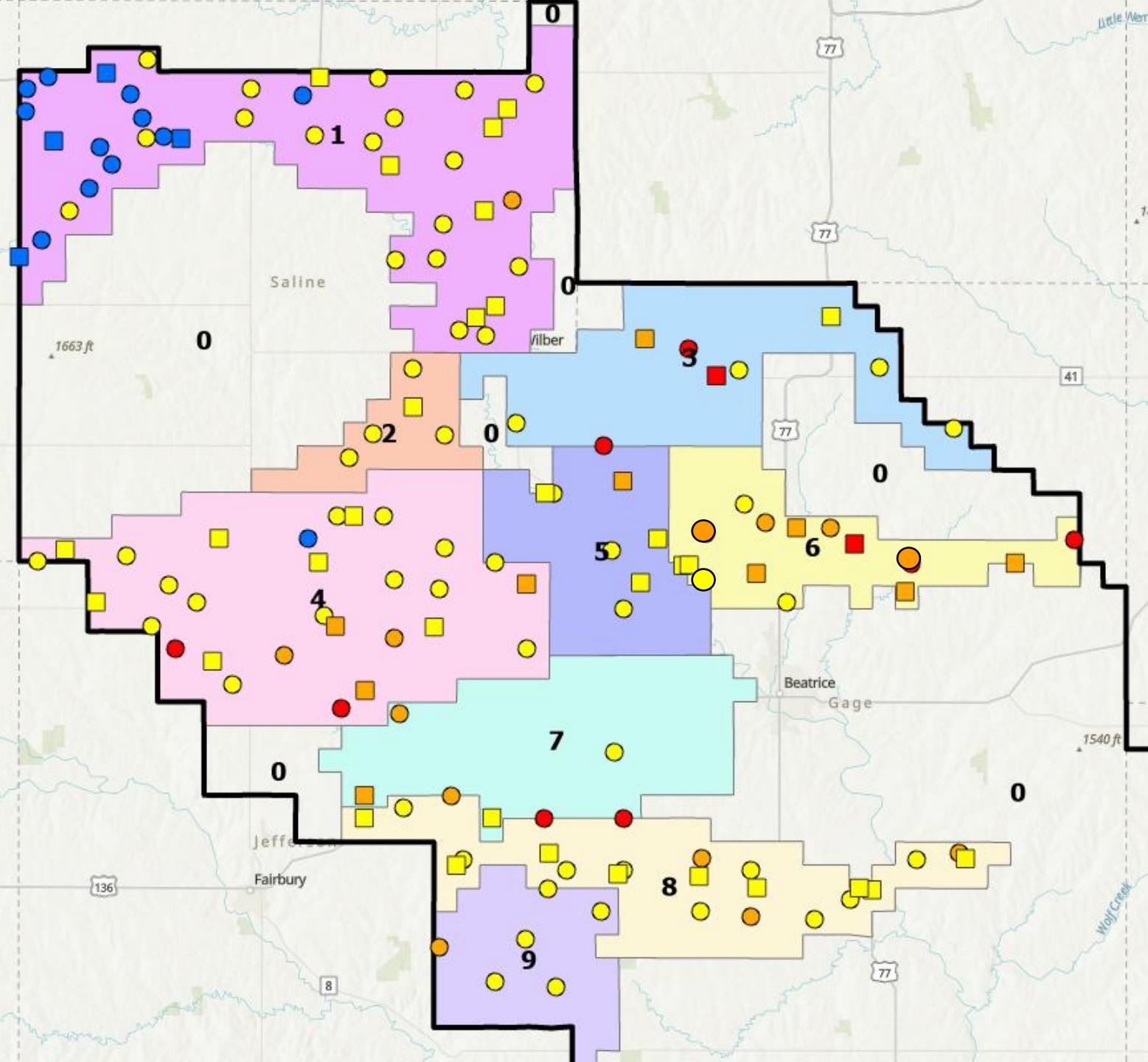
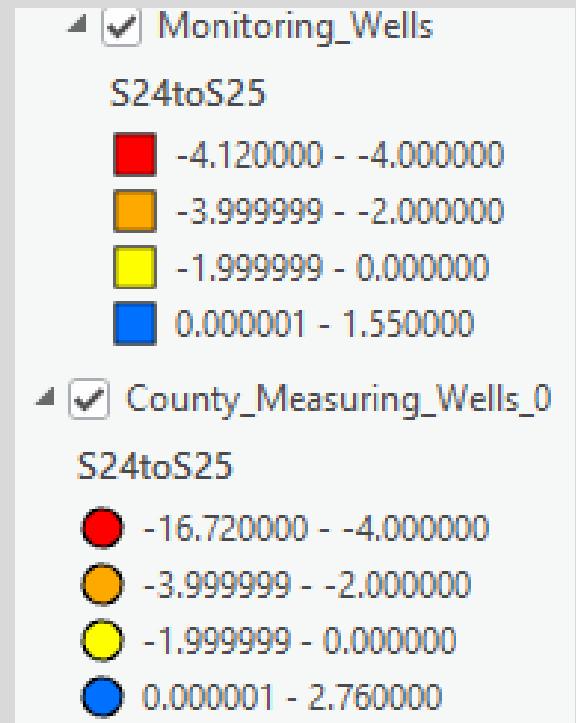
Wells	Number of Wells	Water Level Change From Spring 2024 to Spring 2025	Water Level From Baseline
Gage County	27	-2.63	-6.23
Jefferson County	24	-2.03	-9.56
Saline County	42	-0.5	-2.36
Dedicated Monitoring Wells	47	-1.56	-3.77
Blue River Compact Wells	31	-1.00	-4.2
District-Wide	171	-1.54	-5.22



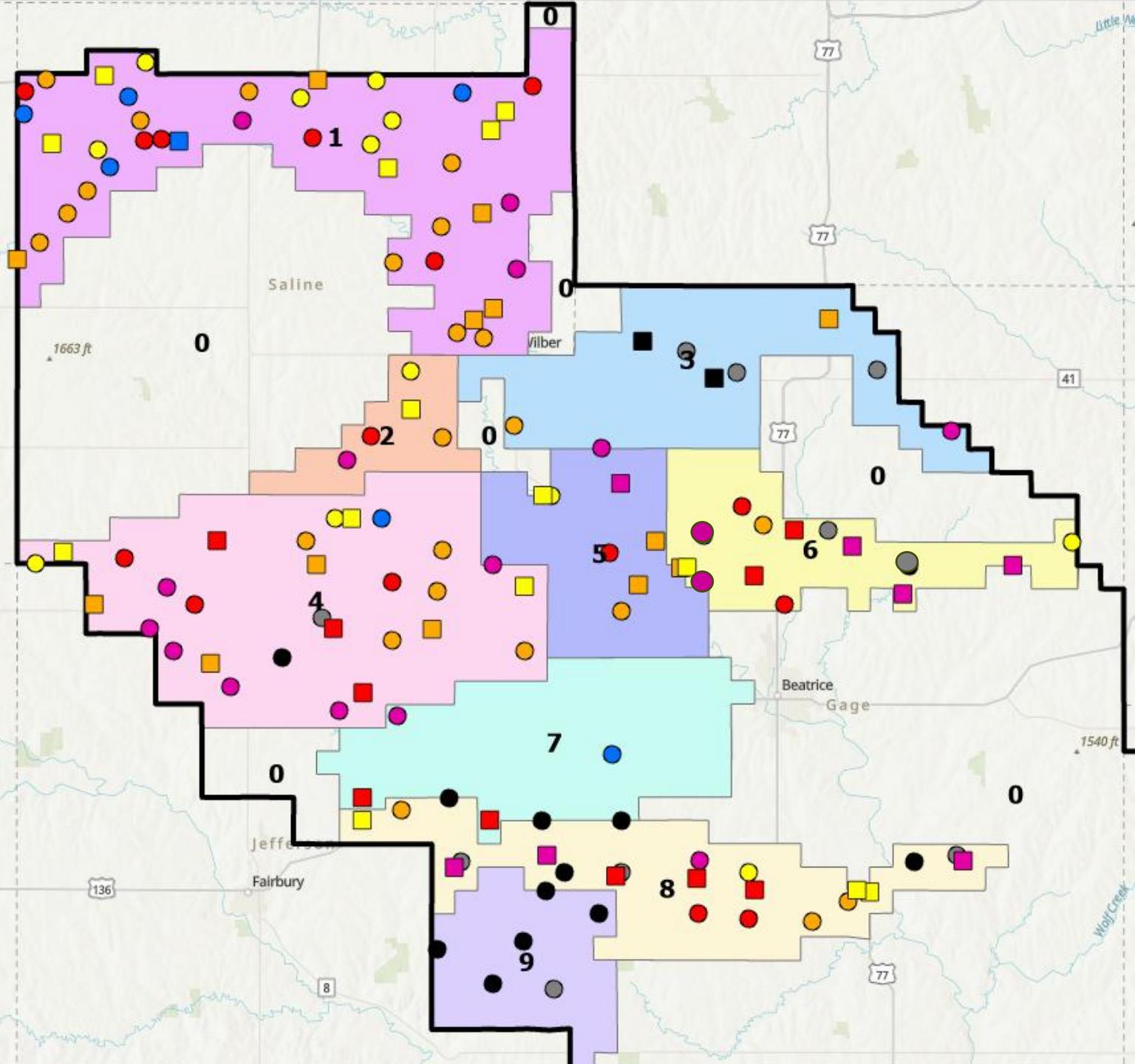
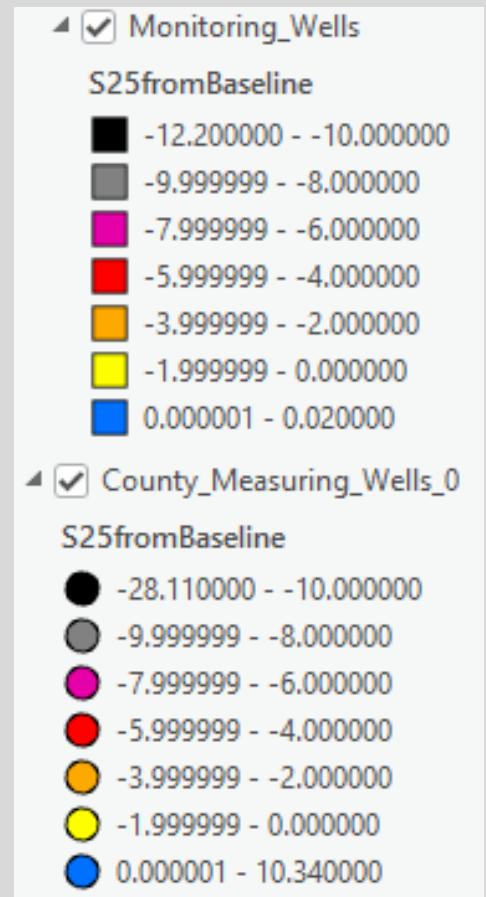
Dedicated Monitoring Well Static Water Level Average From Baseline



Water Level Change from Spring 2024 to Spring 2025



Spring 2025 Water Level From Baseline Reading



Groundwater Levels

Wells	Number of Wells	Water Level Change From Spring 2025 to Fall 2025	Water Level Change From Fall 2024 to Fall 2025	Spring 2025 Water Level From Baseline	Fall 2025 Water Level From Baseline
Gage County	27	-2.52	2.04	-6.23	-8.76
Jefferson County	24	-1.20	2.45	-9.56	-10.77
Saline County	42	-0.67	1.15	-2.36	-3.03
Dedicated Monitoring Wells	48	-1.97	2.76	-3.77	-5.73
Blue River Compact Wells	32	-1.14	1.32	-4.2	-5.34
District-Wide	173	-1.50	1.94	-5.22	-6.73

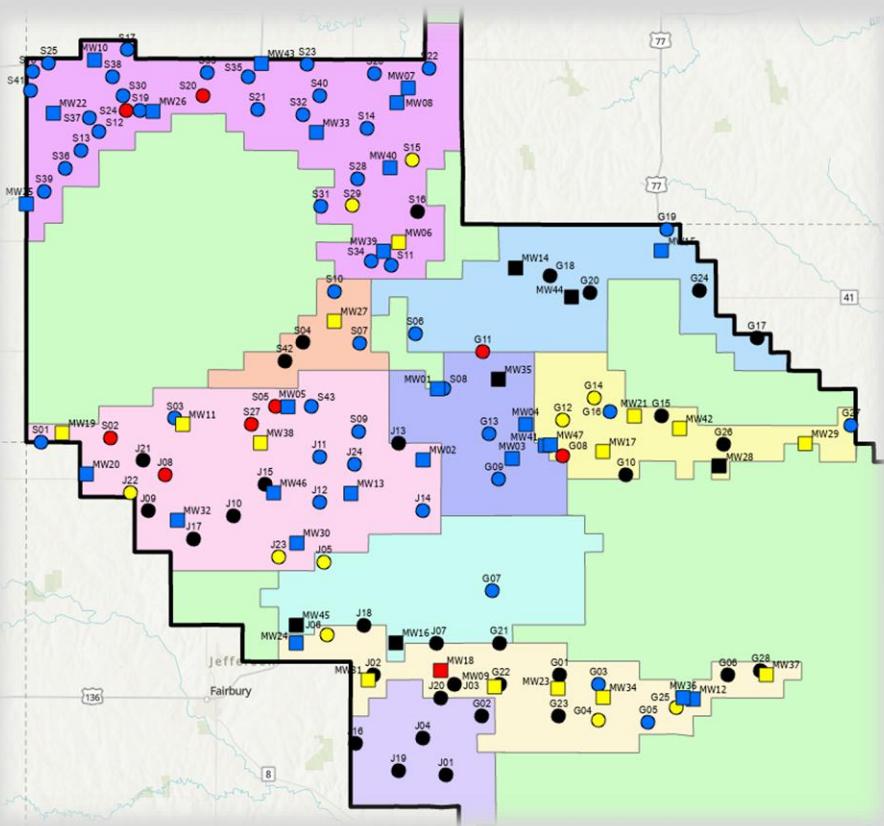
Groundwater Management Sub-Areas

	Number of Wells	Water Level Change From Spring 2025 to Fall 2025	Water Level Change From Fall 2024 to Fall 2025	Spring 2025 Water Level From Baseline	Fall 2025 Water Level From Baseline
Sub-Area 1 Friend	41	-0.3	1.5	-2.3	-2.6
Sub-Area 2 Brush Creek	5	0.2	0.8	-3.7	-3.5
Sub-Area 3 Clatonia	8	-2.4	0.6	-8.2	-10.6
Sub-Area 4 Plymouth	29	-1.0	1.1	-4.0	-5.0
Sub-Area 5 DeWitt	9	-1.2	0.8	-3.2	-4.4
Sub-Area 6 Pickrell	14	-4.3	3.5	-5.8	-10.1
Sub-Area 7 Harbine	7	-1.3	6.5	-6.2	-7.5
Sub-Area 8 PWF	22	-0.4	1.4	-5.7	-6.1
Sub-Area 9 Diller	6	-1.2	1.5	-16.6	-17.8
District-Wide	141	-1.32	1.97	-6.19	-7.51

LBBNRD MORATORIUM

- Entered temporary moratorium on Dec. 8, 2022
- Held public hearing on May 18, 2023
- Imposed permanent moratorium on June 5, 2023
- Contracted with Olsson to develop subareas based on aquifer characteristics
 - 9 areas and “remaining area”
 - Each sub area with have unique groundwater quantity rules
- Revised rules and regulations
- Public hearing held November 6, 2024
- Revised rules and regulations
- Public hearing held October 30, 2025
- *Groundwater Quantity Rules and Regulations* revisions approved November 13, 2025
- Revised rules and regulations take effect December 15, 2025

Rules and Regs Summary



Pumping Test

- If permit application fails to meet point score, a pumping test may be used to provide the district with more hydrogeologic information.
- 24-hour pump test between the August 1st and September 30th.
- The well must maintain 500gpm or more throughout the 24-hour period.

Large Volume Water Wells (using more than 400 acre-feet per year)

- Reduced usage from 500 acre-feet per year to 400 acre-feet per year.
- Flowmeters required
- Updated permitting process...same as UBBNRD

Phase 1

- Board designates sub-areas within the district (see map for sub-area boundaries).
 - a. May adjust boundaries
 - b. Well permit ranking system can be adjusted for each sub-area
 - c. Each sub-area can have different management options.
- Median groundwater level calculated from well network in each sub-area

Phase 2

- A sub-area automatically goes into phase 2 when the median static water level of monitoring wells in that sub-area hit the median phase 2 trigger level for 3 consecutive years.
- An immediate moratorium on new irrigation wells and expansion of irrigated acres
- Flowmeters required
- Allocation amounts set (chapter 14, 15, 16) initially at 30/21 acre-inches over a 3-year period.
- Certified Expanded Acres – allows adding acres to be irrigated but the allocation amount does not change from the initial certification.
- Will return to phase 1 when water level is above trigger for 3 consecutive years.

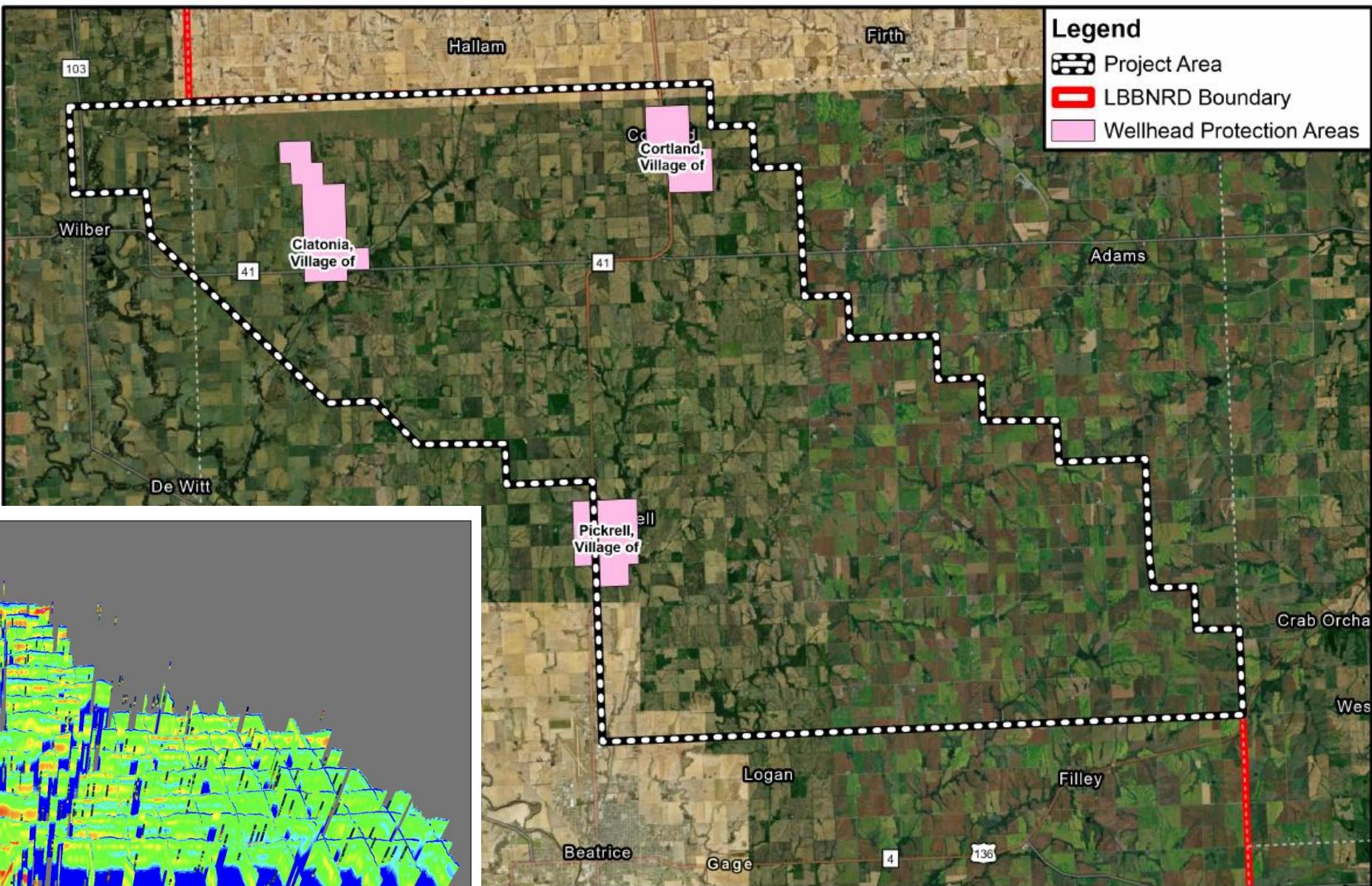
Phase 3

- A sub-area automatically goes to phase 3 when water level is 30% below phase 2 trigger level for 3 consecutive years.
- Allocation amounts are reduced.
- Certified Expanded Acres – allows adding acres to be irrigated but the allocation amount does not change from the initial certification.

WSF Grant Application – AEM (Airborne Electromagnetic Hydrogeologic Mapping) Project



Survey Area 3

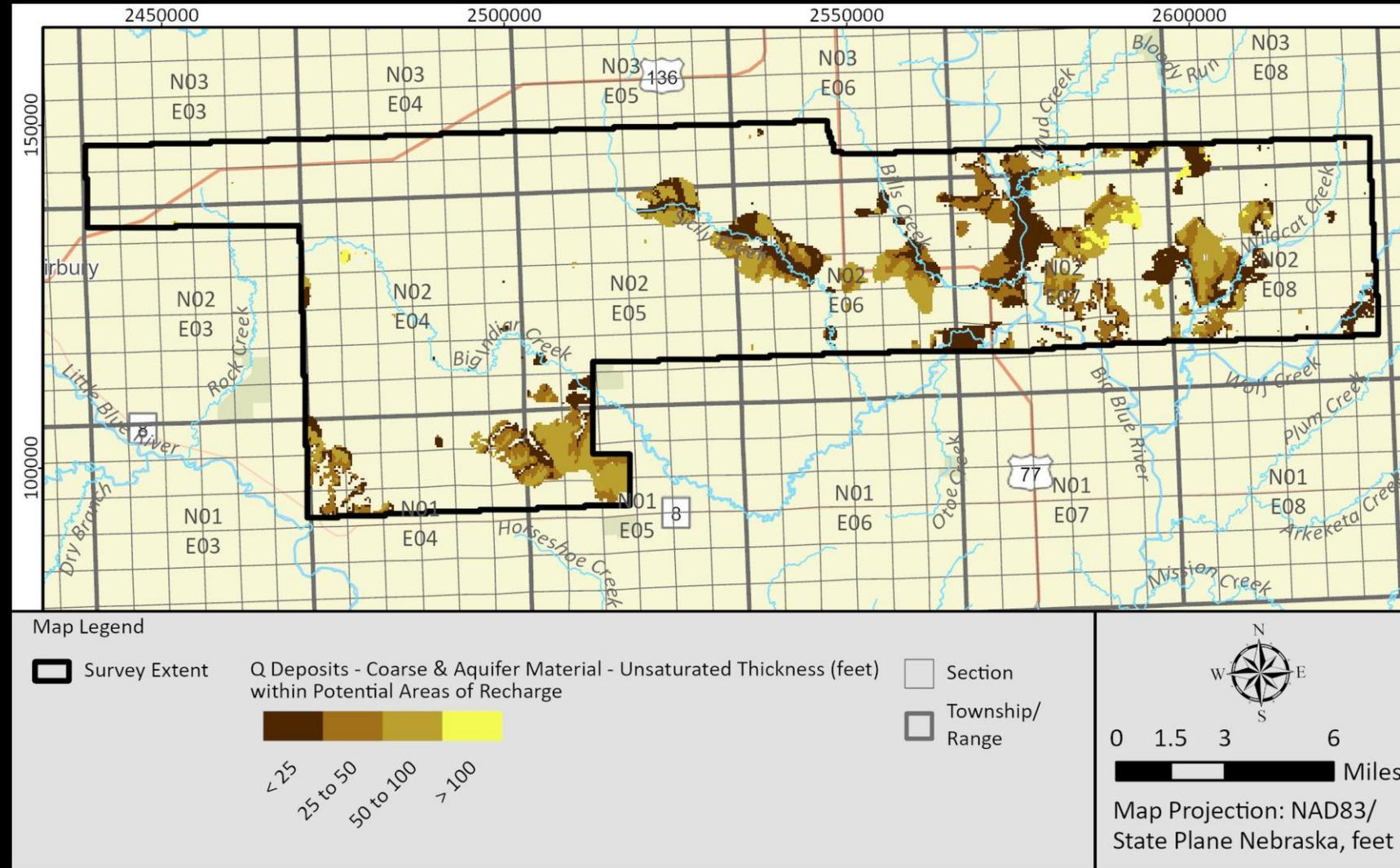


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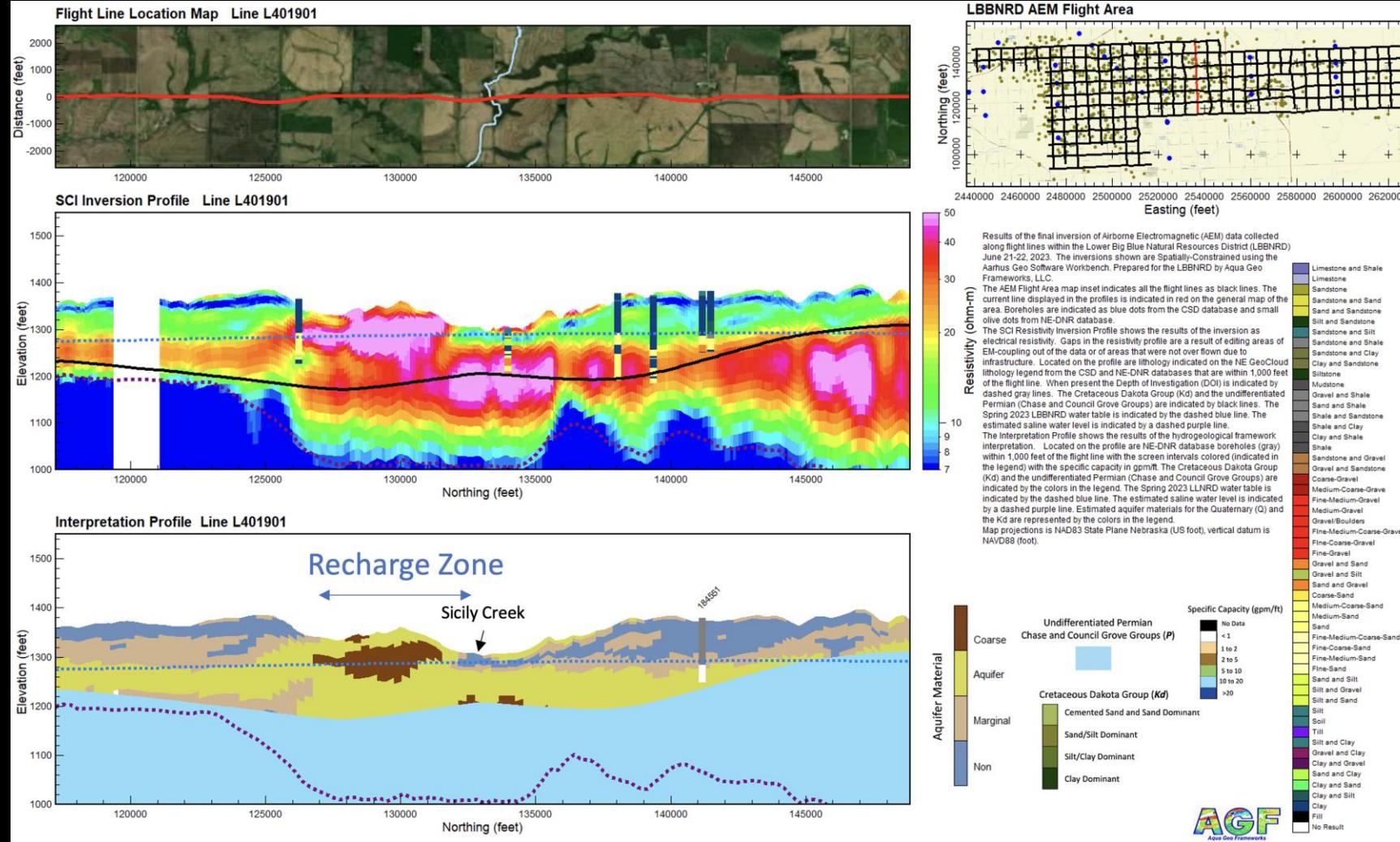
WELLHEAD PROTECTION AREAS
AEM HYDROGEOLOGIC
MAPPING - PHASE 3
LBBNRD

FIGURE

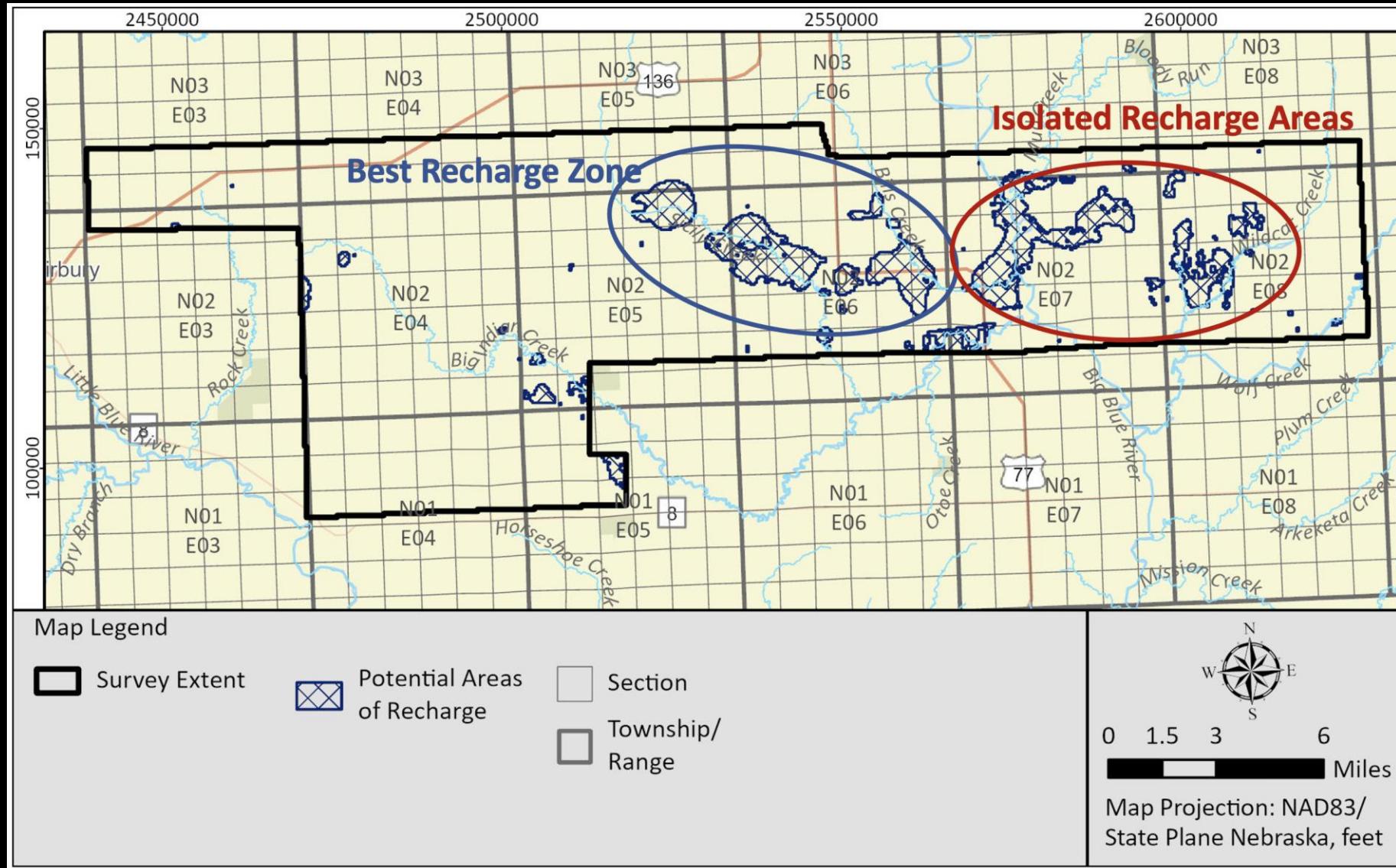
Near-surface Sand Zones



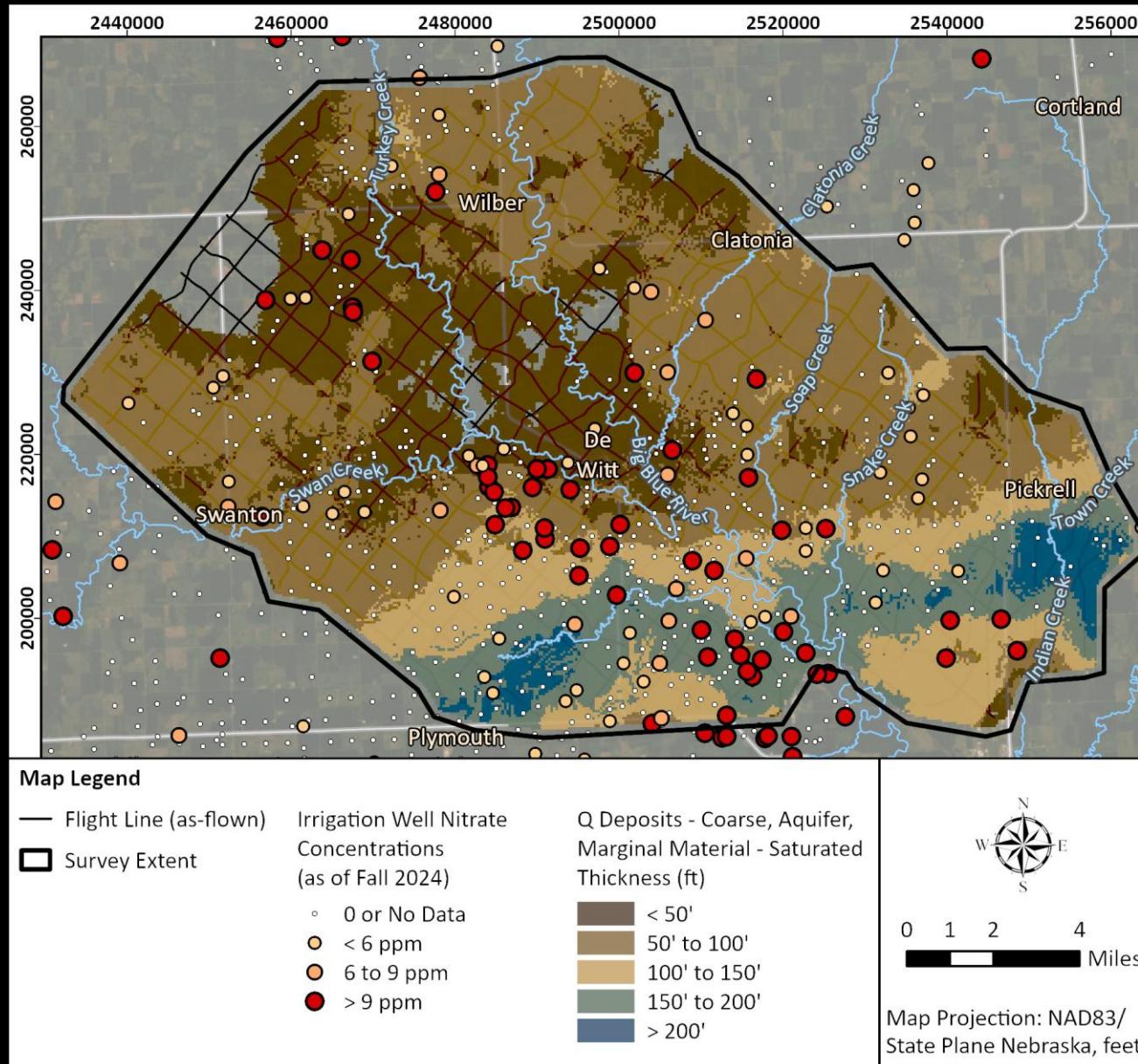
Profile near Sicily Creek



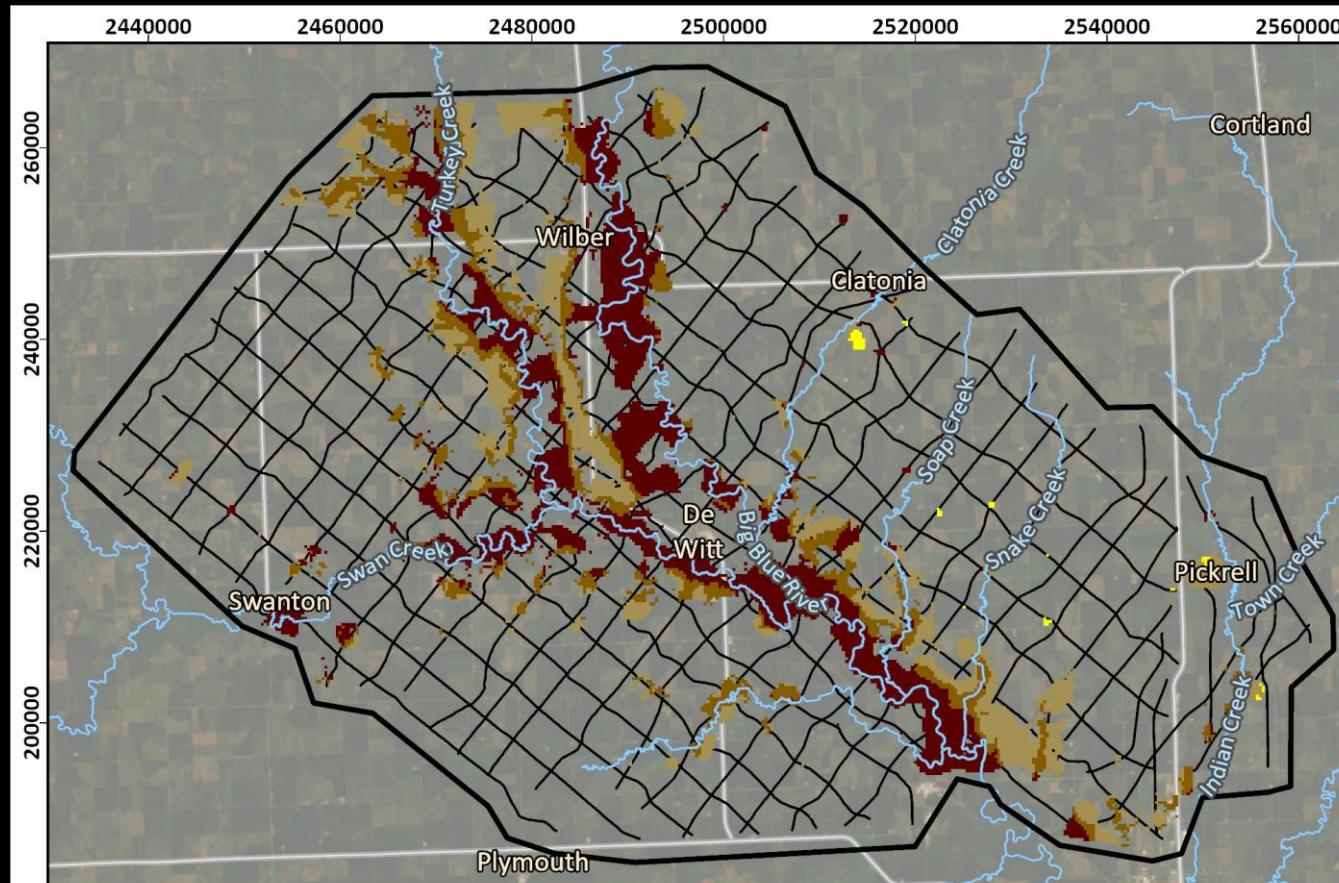
Recharge Targets



Nitrate Samples and Aquifer Materials



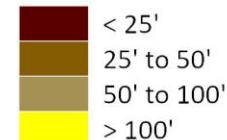
Near-surface Sand Zones



Map Legend

- Flight Line (as-flown)
- Survey Extent

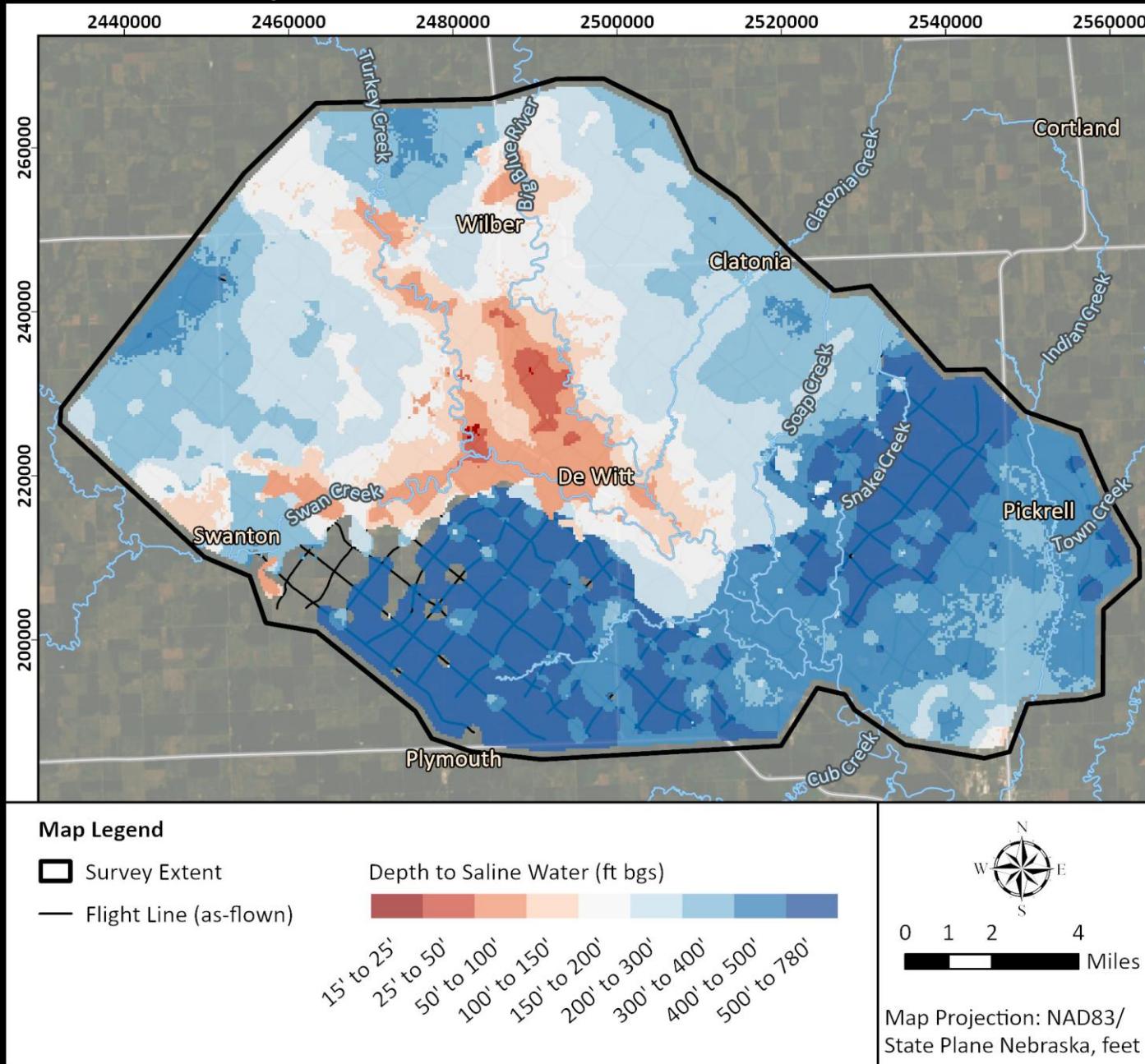
Q Deposits - Coarse & Aquifer Material
- Unsaturated Thickness (ft) within
Potential Areas of Recharge



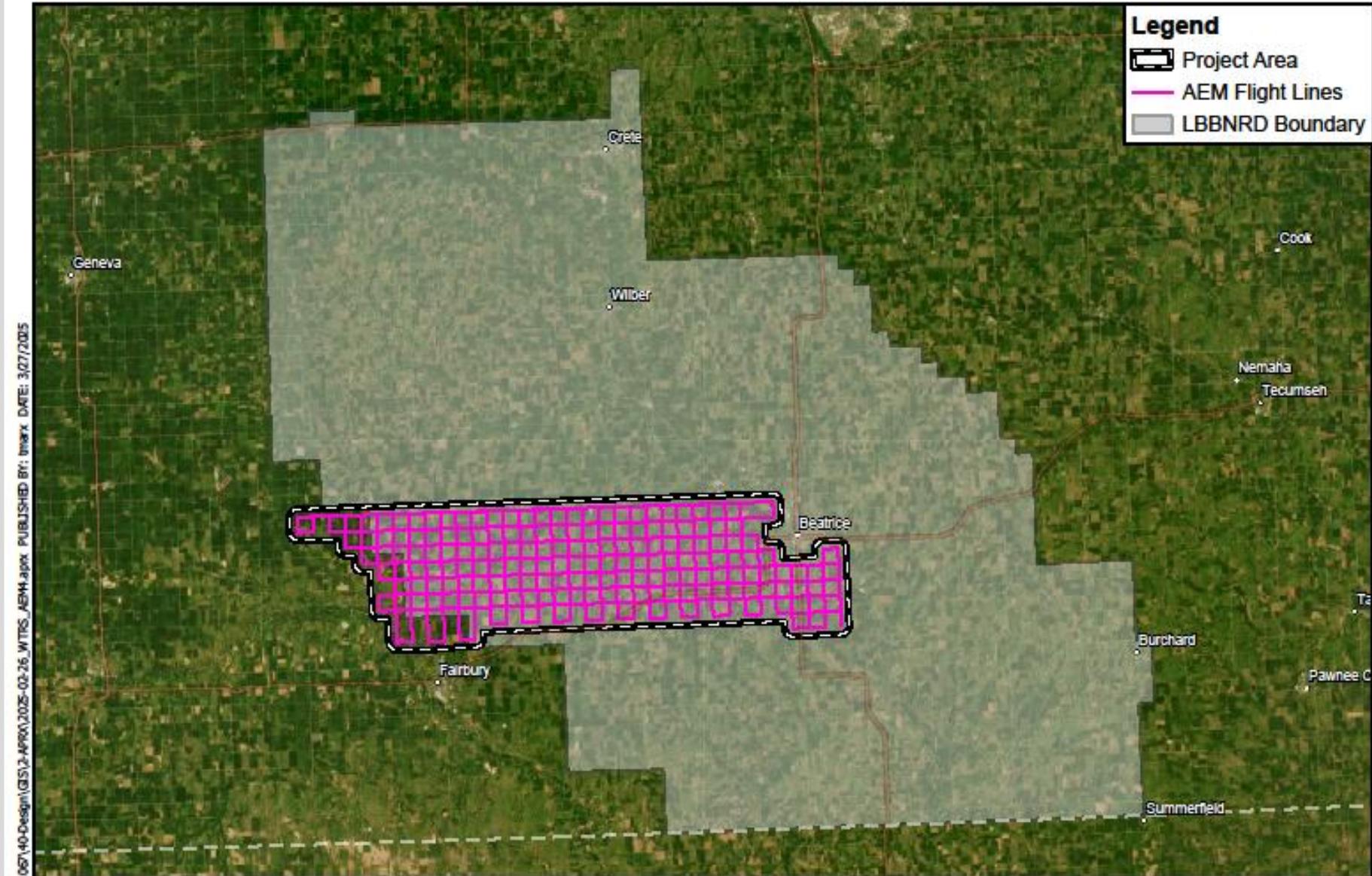
0 1 2 4
Miles

Map Projection: NAD83/
State Plane Nebraska, feet

Estimated Depth to Saline Water



Survey Area 4



0 2 4 8
MILES
1 INCH - 8 MILES

Original Published Resolution
NAD 1983 2011 StatePlane Nebraska FIPS 2600 Ft US
ESRI World Imagery

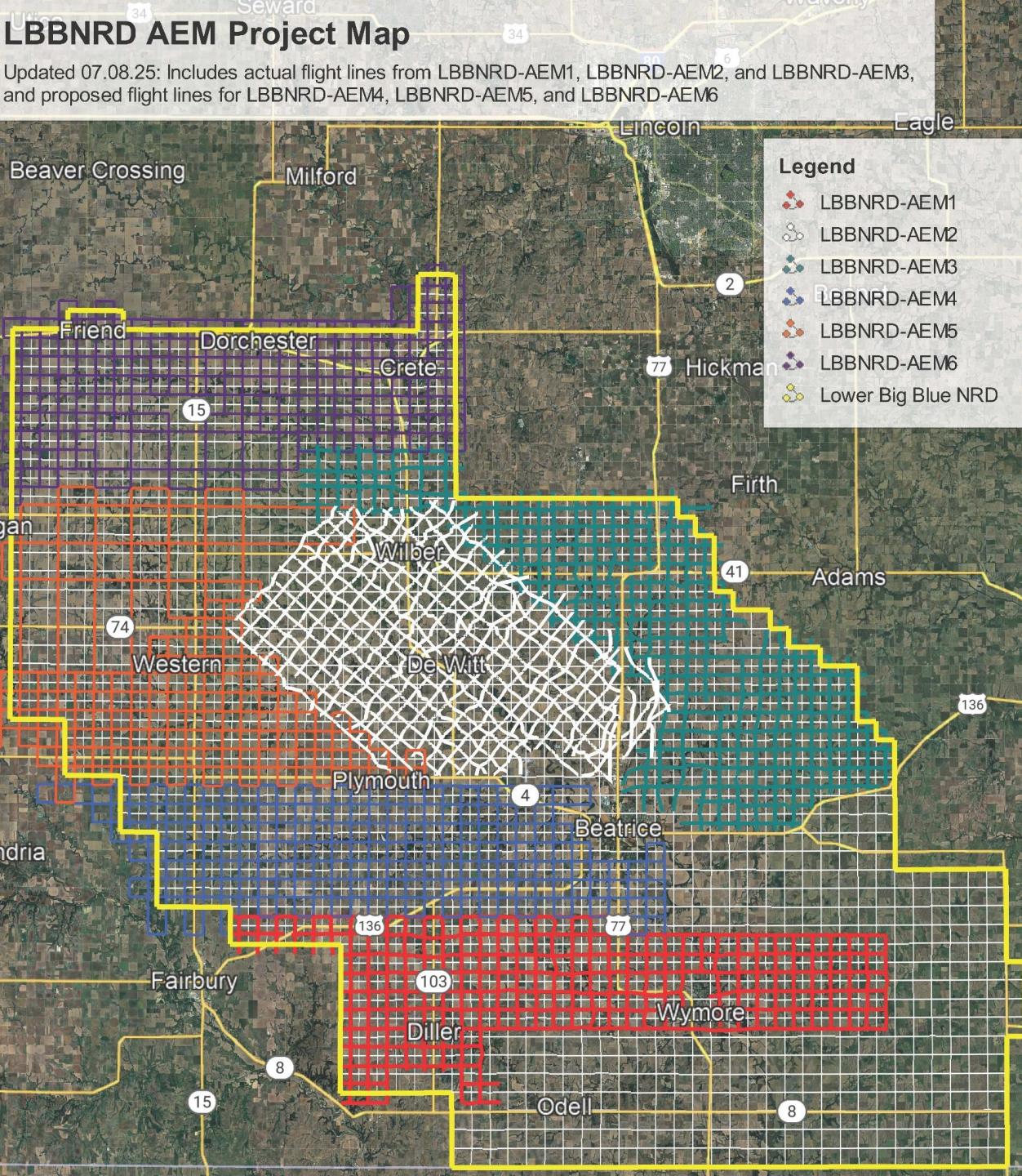
olsson

PROJECT AREA

AEM HYDROGEOLOGIC MAPPING: PHASE 4
LOWER BIG BLUE NRD

FIGURE

1



Lower Big Blue NRD AEM Project Timeline

2023: 429.0 line miles in southern Jefferson & Gage Counties (WSF funded 60%)

2024: 535.4 line miles in the middle of the District (WSF funded 60%)

2025: 485.0 line miles in northeastern Gage County & east central Saline County (WSF funded 60%)

2026: Planning to fly northern Jefferson County & west central Gage County (**not funded**)

2027: Planning to fly central and southern Saline County

2028: Planning to fly northern Saline County

Rules and Regs

Phase I 0.0 - 5.99 ppm

- Entire NRD except for the 60 square mile Phase II area
- Permits from NRD for all wells greater than 50gpm
- Operators use voluntary measures to reduce contamination
- NRD increases public education activities relating to groundwater

Rules and Regs

Phase II 6.0 – 9.0 ppm

- Operator Certification

- Classes every 4 years on current and new BMPs

- Any owner/operator who applies or oversees application of nitrogen fertilizer to fields greater than 20 acres

- Fall Application

- Commercial nitrogen fertilizer delayed until after November 1st

- Exception – Fall seeded crops (wheat) and when applications are 30 pounds or less

Rules and Regs

- Demonstration Field

Operator will use his/hers largest irrigated corn or grain sorghum field larger than 20 acres to adopt the following BMPs.

- If no irrigated field, then largest dry land field
 - This field will be used indefinitely during Phase II
- Operator required to have one demonstration field per landlord

Rules and Regs

- Annual Reporting
 - Irrigation water analysis for nitrates – NRD
 - Basic surface soil test every 4 years – organic matter
 - Deep nitrate soil analysis 0-8" and 8-36"
 - Commercial nitrogen fertilizer recommendation per UNL guidelines
 - Actual rate of fertilizer applied
 - Estimated amount of water applied
 - Actual Yield
 - Other BMPs proven effective

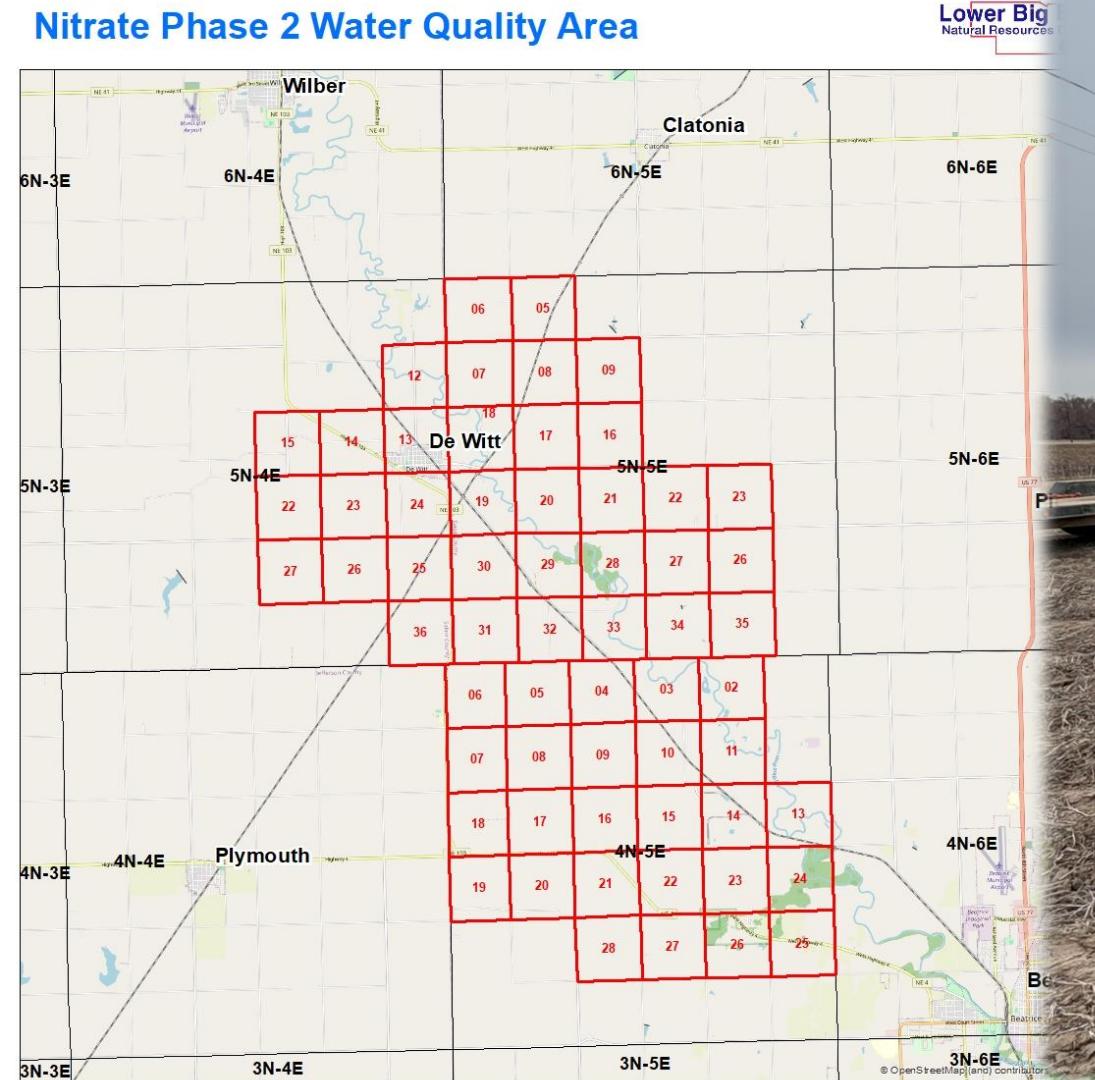
Rules and Regs

Phase III Greater than 9.0 ppm

- All of Phase II requirements with addition of
 - Application of commercial nitrogen fertilizer prohibited until after March 1st
 - Annual reporting required on ALL corn and grain sorghum fields larger than 20 acres
 - Spring nitrogen application requirements
 - Split application (pre-plant or pre-emergent/post emergent) with with no more than 50% applied as pre-plant or post emergent when 100 pounds per acre or more is required
 - OR use of approved inhibitor if more than 50% is applied pre-plant or pre-emergent and provide proof that inhibitor was used
 - OR all nitrogen fertilizer applied as side dress post-emergent

Water Quality Cost-Share Programs

Nitrate Phase 2 Water Quality Area



WATERSHED CAPITAL OF NEBRASKASM



STATE OF NEBRASKA

United States of America, } ss.
State of Nebraska }
}

Secretary of State
State Capitol
Lincoln, Nebraska

I, Robert B. Evnem, Secretary of State of the
State of Nebraska, do hereby certify that

a Service Mark indexed as WATERSHED CAPITAL OF NEBRASKA was registered in this office
on February 13, 2025 for a term of ten years. The name of the registrant is LOWER BIG BLUE
NATURAL RESOURCES DISTRICT a Nebraska Local Government. Whose address is 805
DORSEY STREET, BEATRICE, NE 68310.

The date claimed for the first use of the mark anywhere is 01/31/1995. The date claimed for the first
use of the mark in Nebraska is 01/31/1995.

The class of goods or services is Advertising; business management; business administration; office
functions. The mark is used on or in connection with NATURAL RESOURCES MANAGEMENT
FLOOD AND EROSION CONTROL, GROUNDWATER MANAGEMENT, TREE PLANTING,
EDUCATION, RECREATION.

*This certificate is not to be construed as an endorsement,
recommendation, or notice of approval of the entity's financial
condition or business activities and practices.*

In Testimony Whereof,



I have hereunto set my hand and
affixed the Great Seal of the
State of Nebraska on this date of

February 13, 2025

Secretary of State

Snap-Tite Project

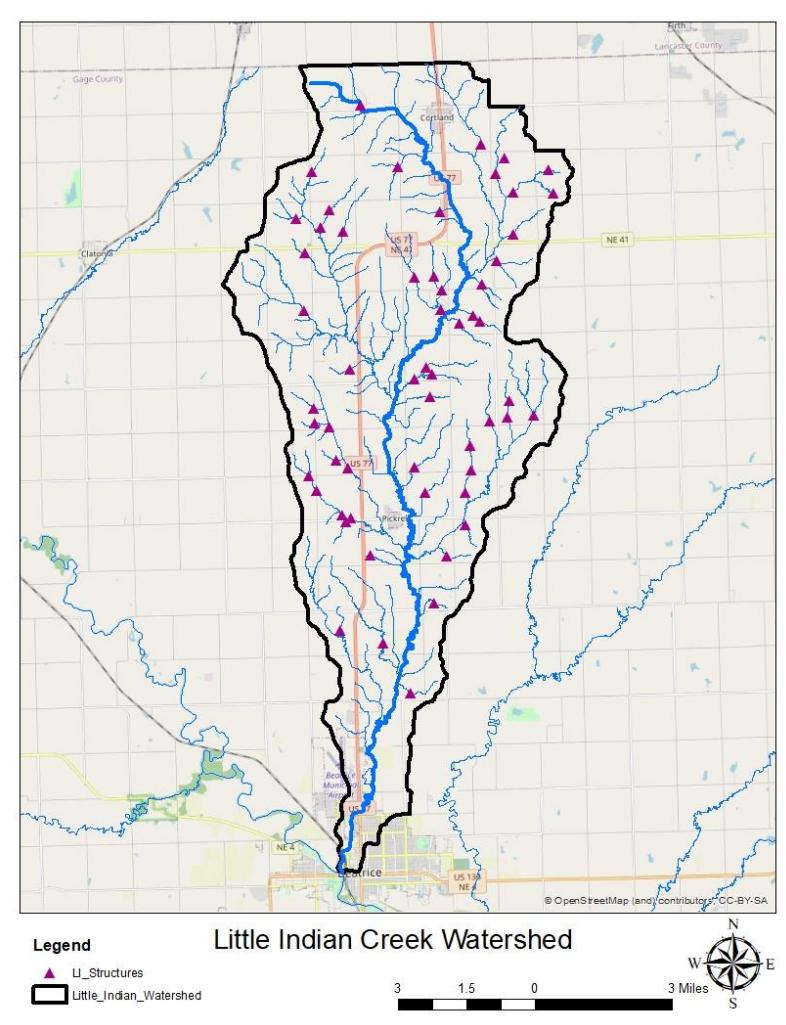




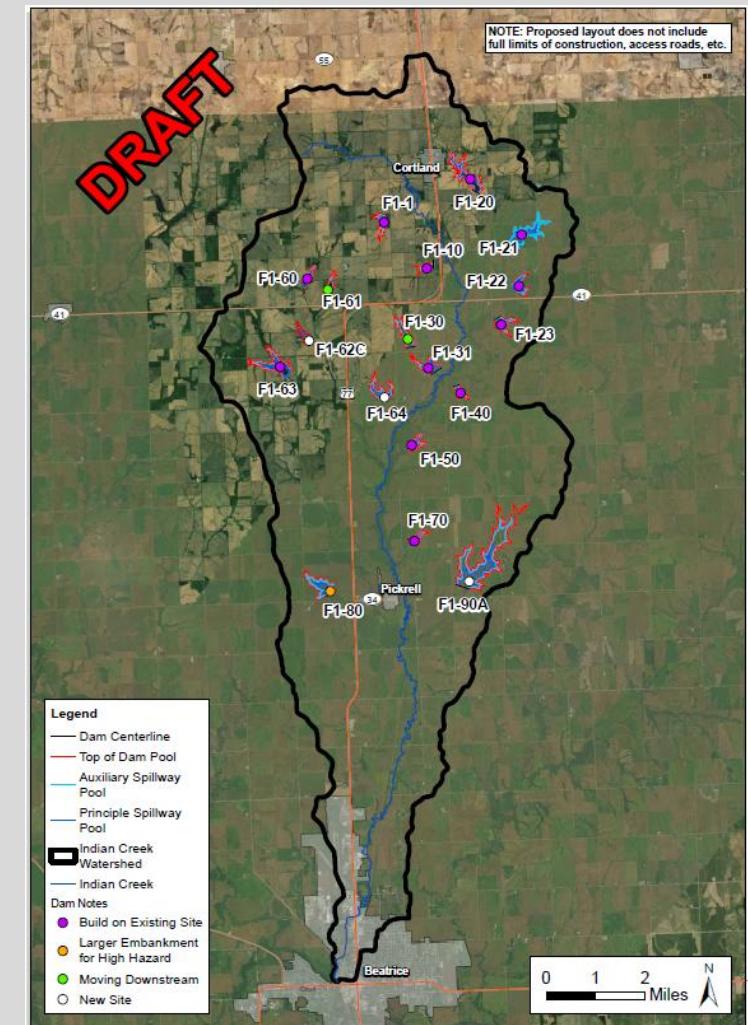
Clatonia 3-A

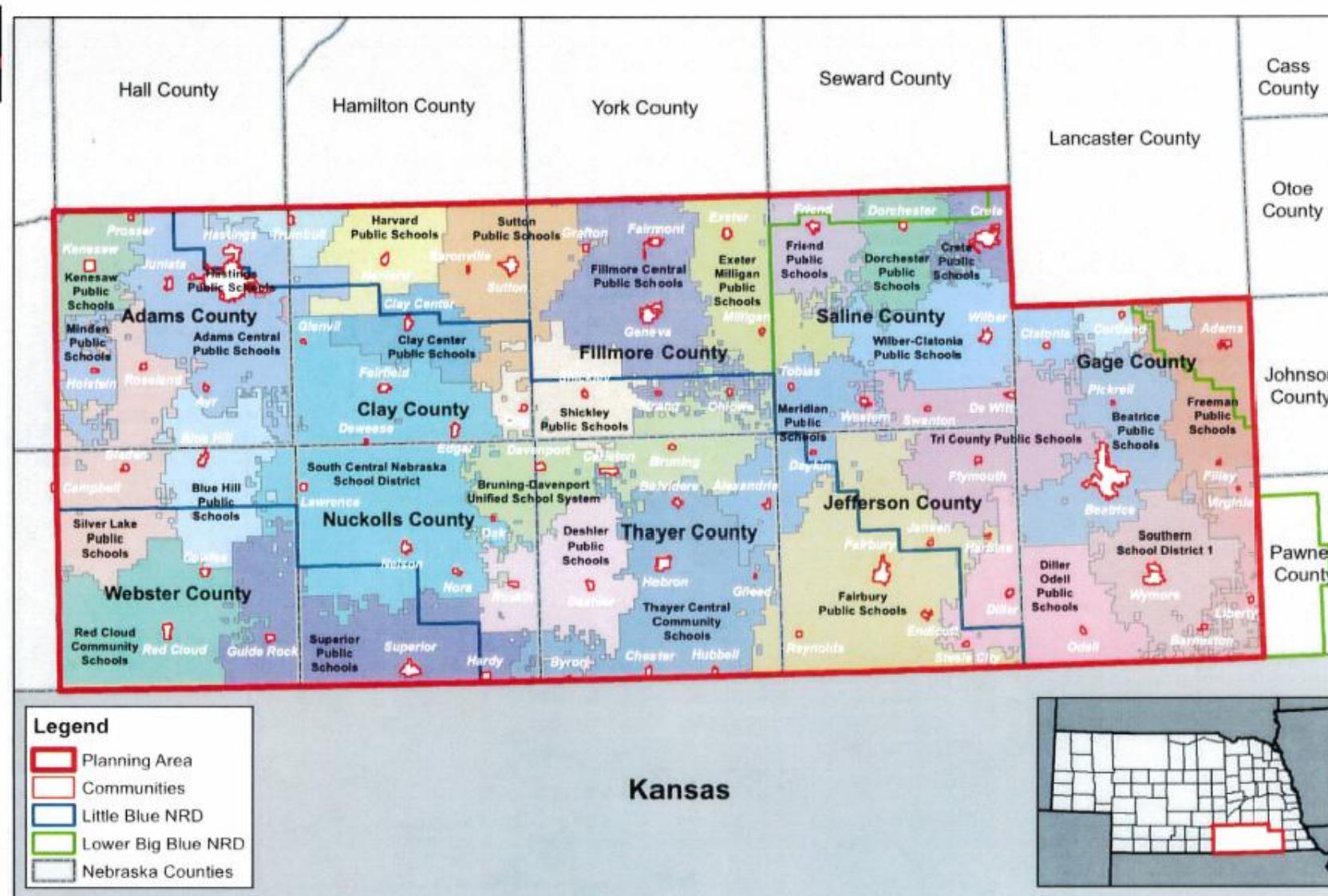
Little Indian Watershed Flood Preventions and Operations (WFPO)

Current Little Indian Creek Watershed



Dam Alternatives





- Hazard Mitigation Plan



Rural Water Upgrades



New Website Design

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Watershed Capital of Nebraska

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New Office/Shop



New Office/Shop



New Office/Shop



New Office/Shop



New Office/Shop



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