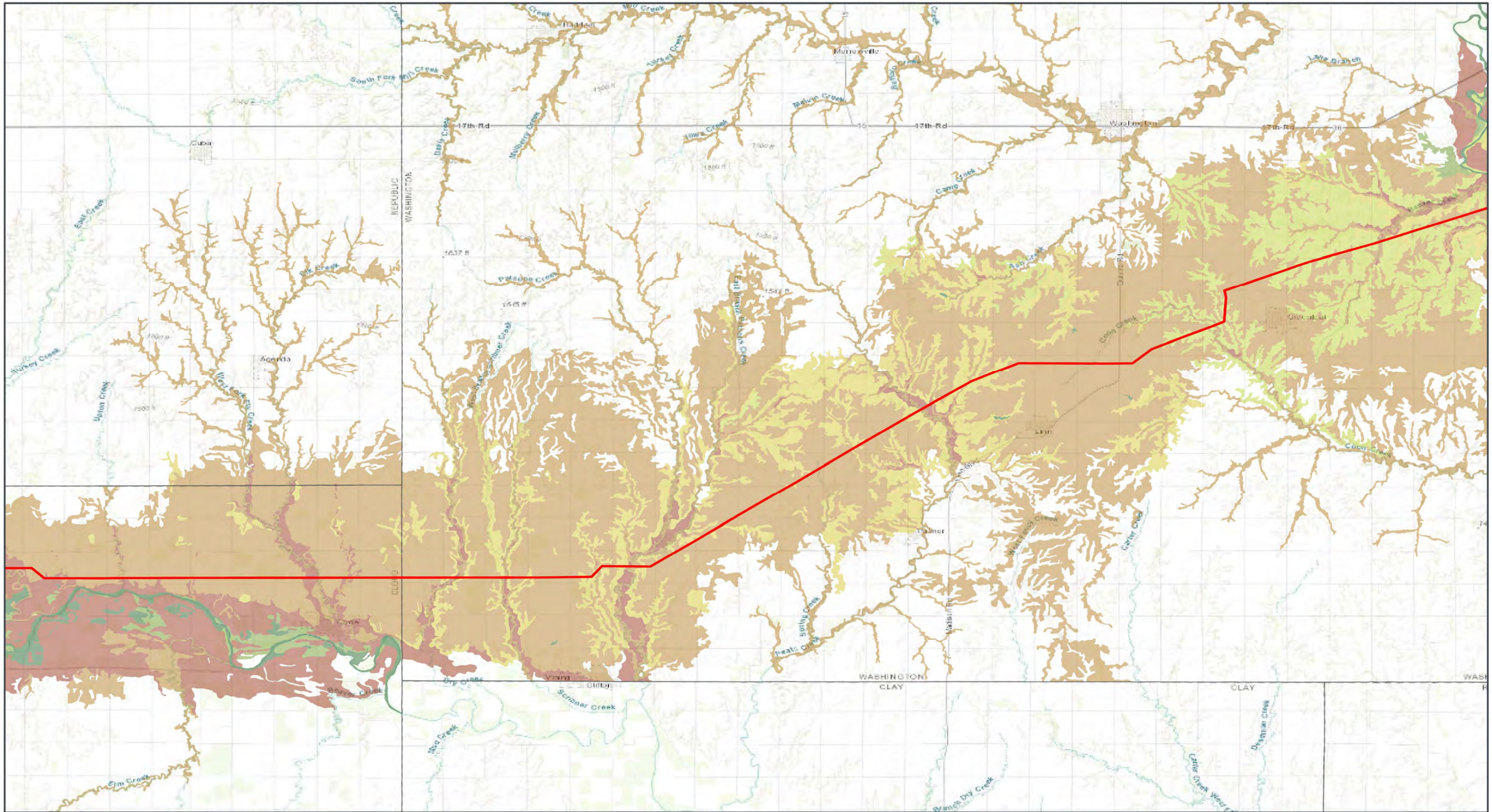


Grain Belt Express Transmission Line
Environmental Impact Statement
Appendix 3.3: Soils Maps

Continued



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT

**SOIL ERODIBILITY
FACTOR**

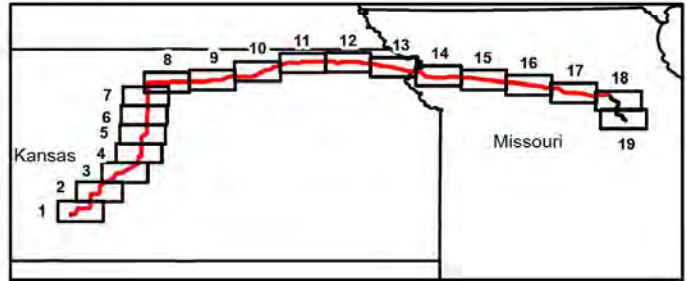
Map 10 of 19

Proposed Grain Belt Express Phase 1
HVDC Line ROW

Soil Erodibility Factor (K Factor)

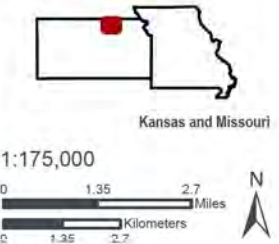
	0.00 - 0.10
	0.10 - 0.25
	0.25 - 0.33
	0.33 - 0.40
	0.40 - 0.47
	0.47 - 0.63

Grain Belt Express
An Iovenergy Project

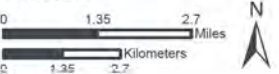


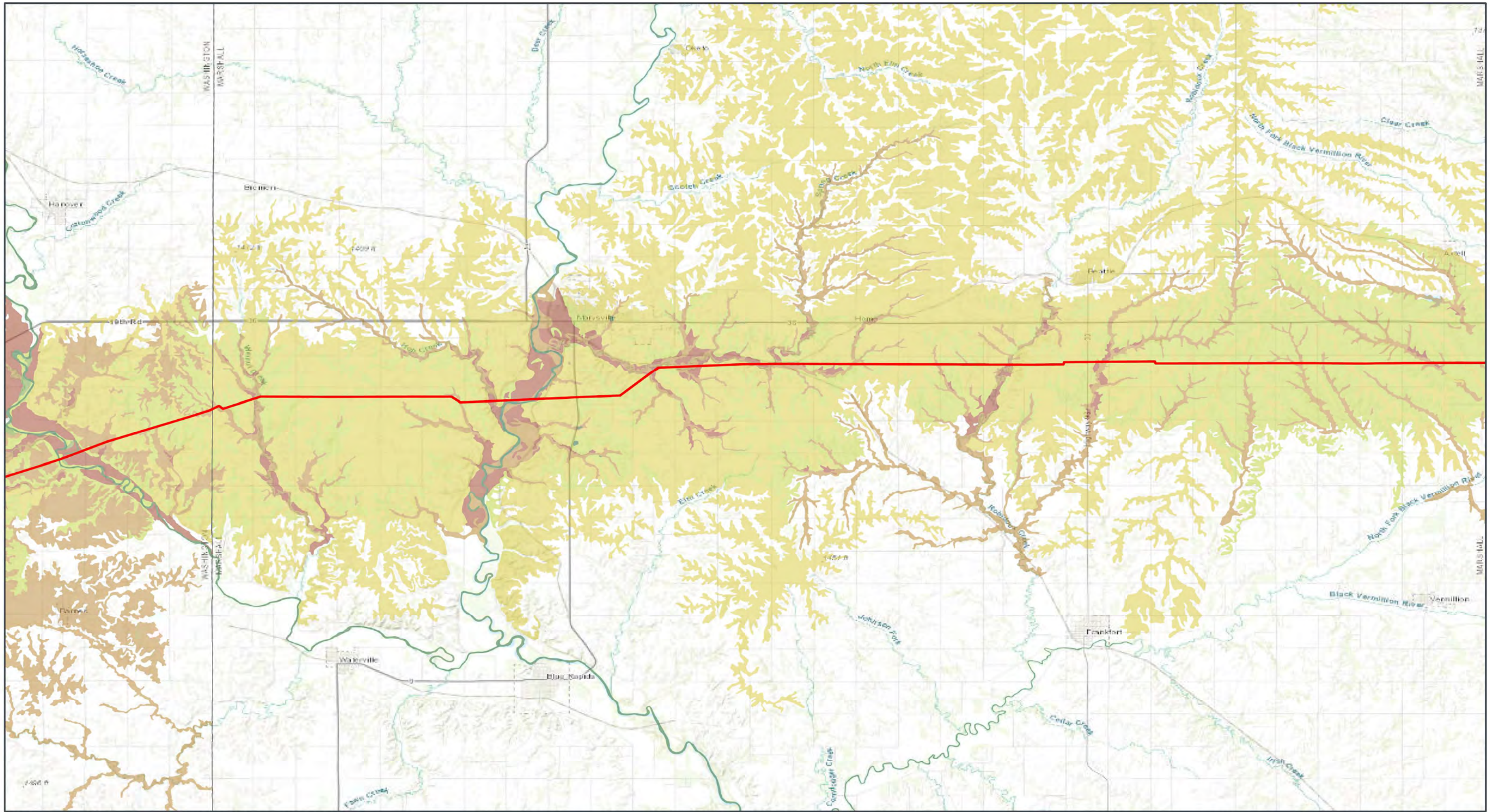
GCS North American 1983
39.6882°N 97.2156°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Erodibility_Factor_K
April: Soil_Erodibility_Factor



1:175,000





GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT

**SOIL ERODIBILITY
FACTOR**

Map 11 of 19

Proposed Grain Belt Express Phase 1
HVDC Line ROW

Soil Erodibility Factor (K Factor)

0.00 - 0.10


0.10 - 0.25

0.25 - 0.33

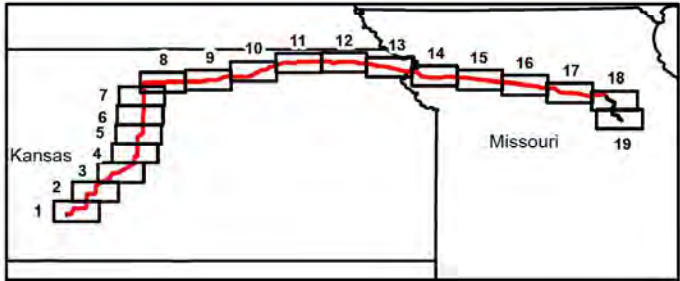
0.33 - 0.40

0.40 - 0.47

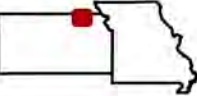
0.47 - 0.63



Grain Belt Express
An Iovenergy Project



GCS North American 1983
39.8039°N 96.5694°W



Kansas and Missouri

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Erodibility_Factor_K
April: Soil_Erodibility_Factor


1:175,000

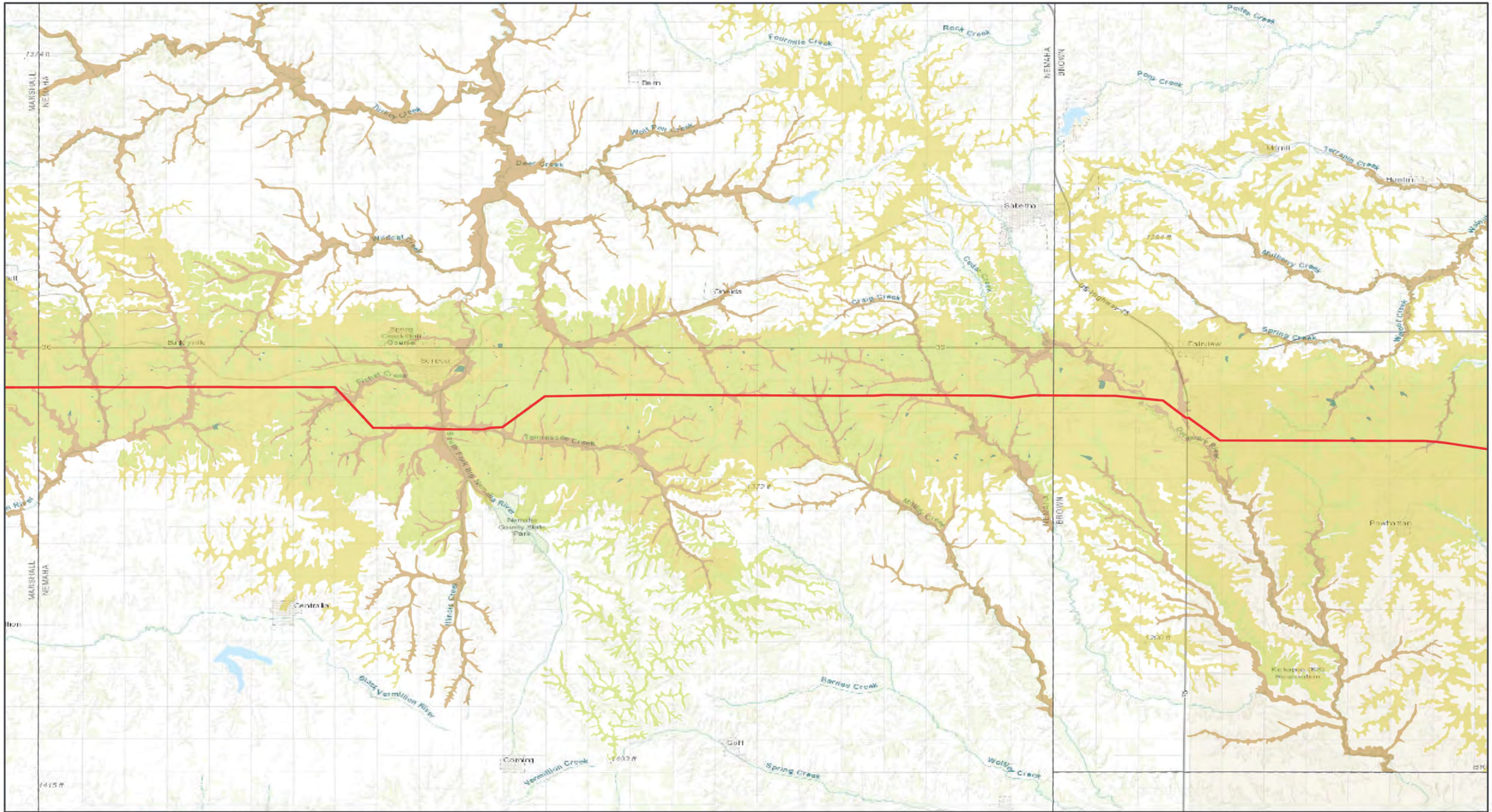
0 1.35 2.7

Miles

0 1.35 2.7

Kilometers





GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT

**SOIL ERODIBILITY
FACTOR**

Map 12 of 19

Proposed Grain Belt Express Phase 1
HVDC Line ROW

Soil Erodibility Factor (K Factor)

0.00 - 0.10
0.25 - 0.33
0.33 - 0.40
0.40 - 0.47
0.47 - 0.63

Kansas Missouri

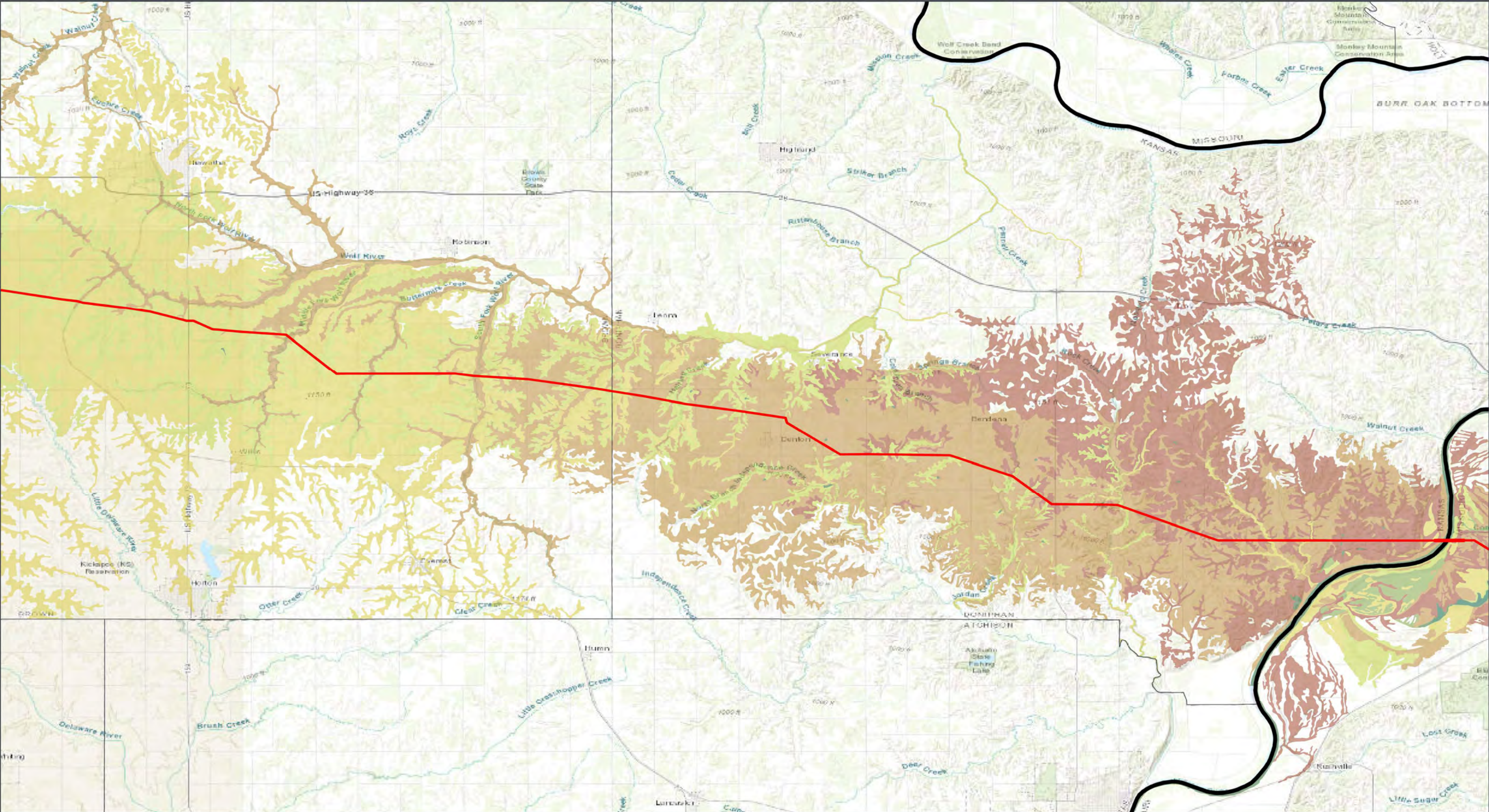
GCS North American 1983
39.8147°N 95.9252°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Erodibility_Factor_K
Aprx: Soil_Erodibility_Factor

1:175,000

0 1.35 2.7 Miles
0 1.35 2.7 Kilometers

Grain Belt Express
An Invenergy Project



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT

**SOIL ERODIBILITY
FACTOR**

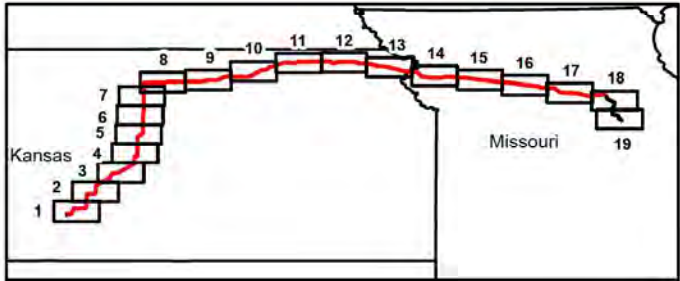
Map 13 of 19

Proposed Grain Belt Express Phase 1
HVDC Line ROW

Soil Erodibility Factor (K Factor)

0.00 - 0.10
0.10 - 0.25
0.25 - 0.33
0.33 - 0.40
0.40 - 0.47
0.47 - 0.63

Grain Belt Express
An Iovenergy Project



GCS North American 1983
39.7469°N 95.281°W

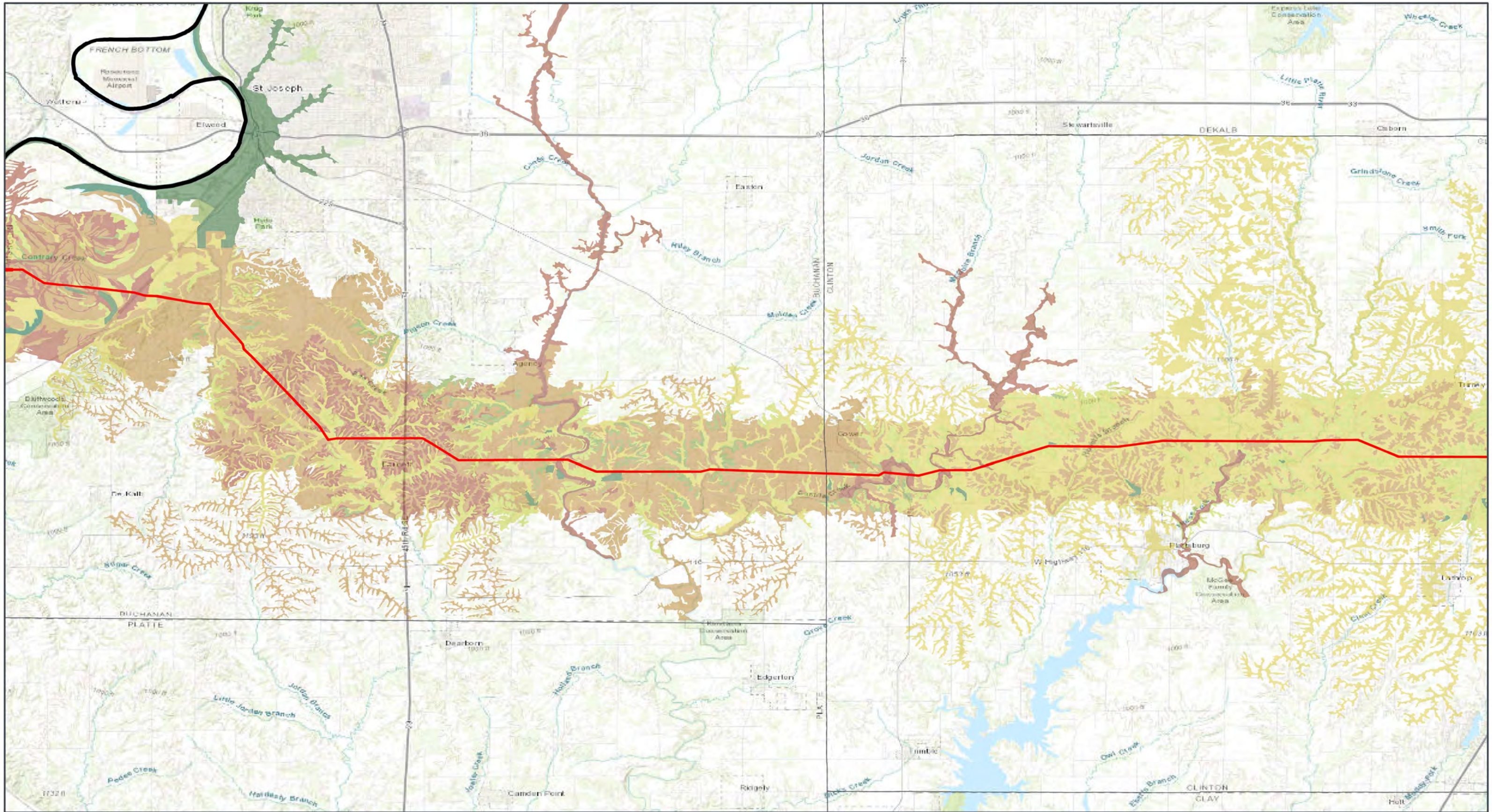
Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Erodibility_Factor_K
April: Soil_Erodibility_Factor

1:175,000

0 1.35 2.7 Miles

0 1.35 2.7 Kilometers

N



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT

**SOIL ERODIBILITY
FACTOR**

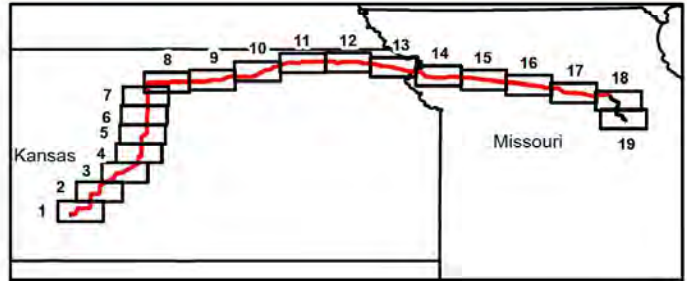
Map 14 of 19

Proposed Grain Belt Express Phase 1
HVDC Line ROW

Soil Erodibility Factor (K Factor)

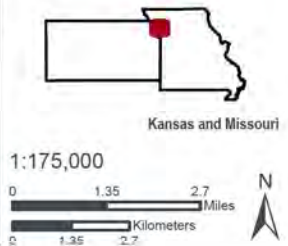
	0.00 - 0.10
	0.10 - 0.25
	0.25 - 0.33
	0.33 - 0.40
	0.40 - 0.47
	0.47 - 0.63

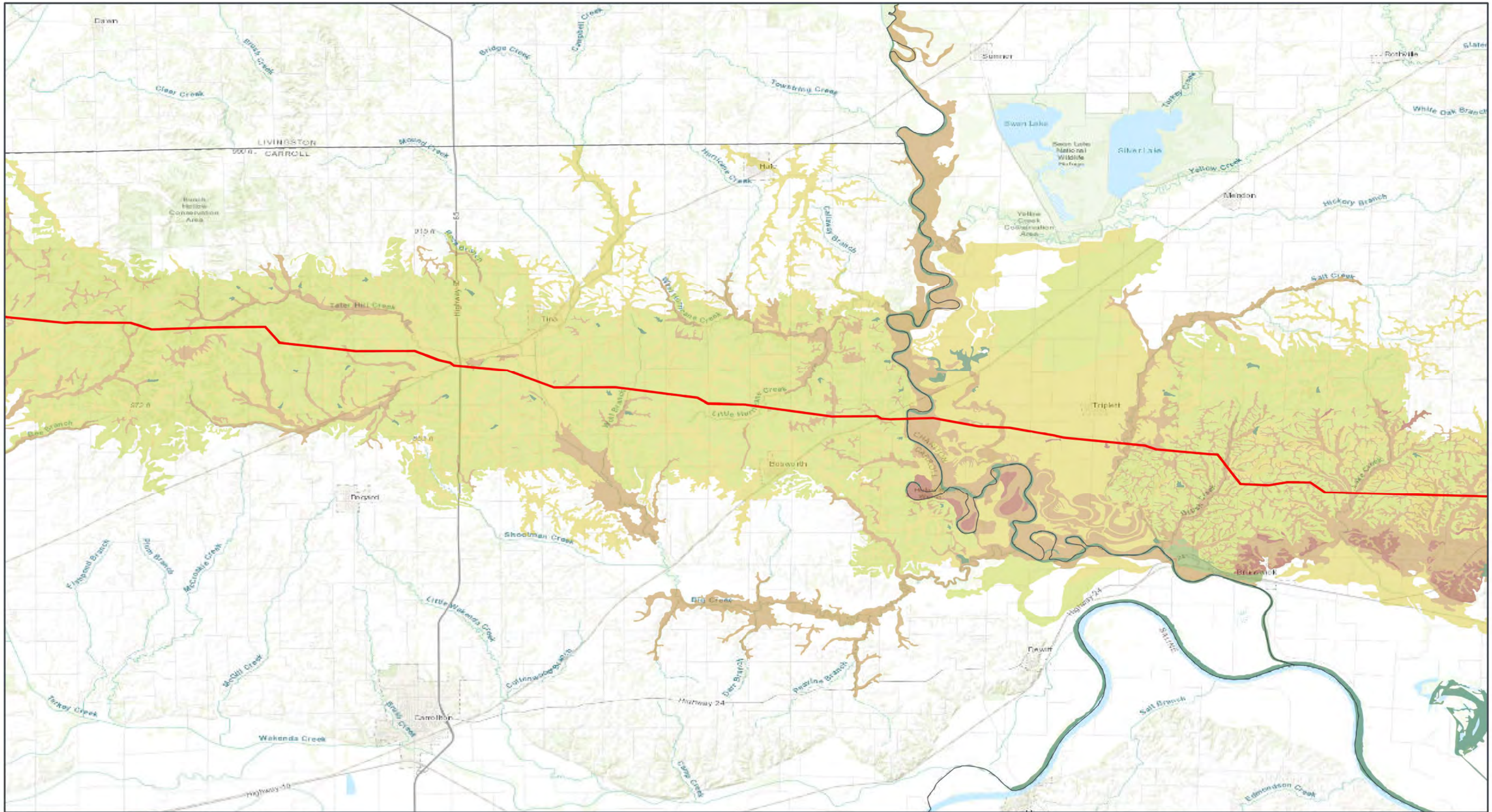
Grain Belt Express
An Iuvenery Project



GCS North American 1983
39.6264°N 94.6368°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Erodibility_Factor_K
April: Soil_Erodibility_Factor





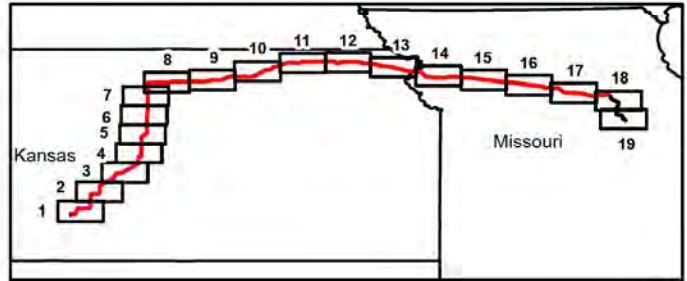
GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
**SOIL ERODIBILITY
FACTOR**
Map 16 of 19

**Proposed Grain Belt Express Phase 1
HVDC Line ROW**

Soil Erodibility Factor (K Factor)

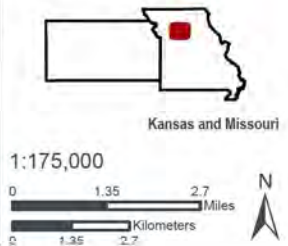
0.00 - 0.10
0.10 - 0.25
0.25 - 0.33
0.33 - 0.40
0.40 - 0.47
0.47 - 0.63

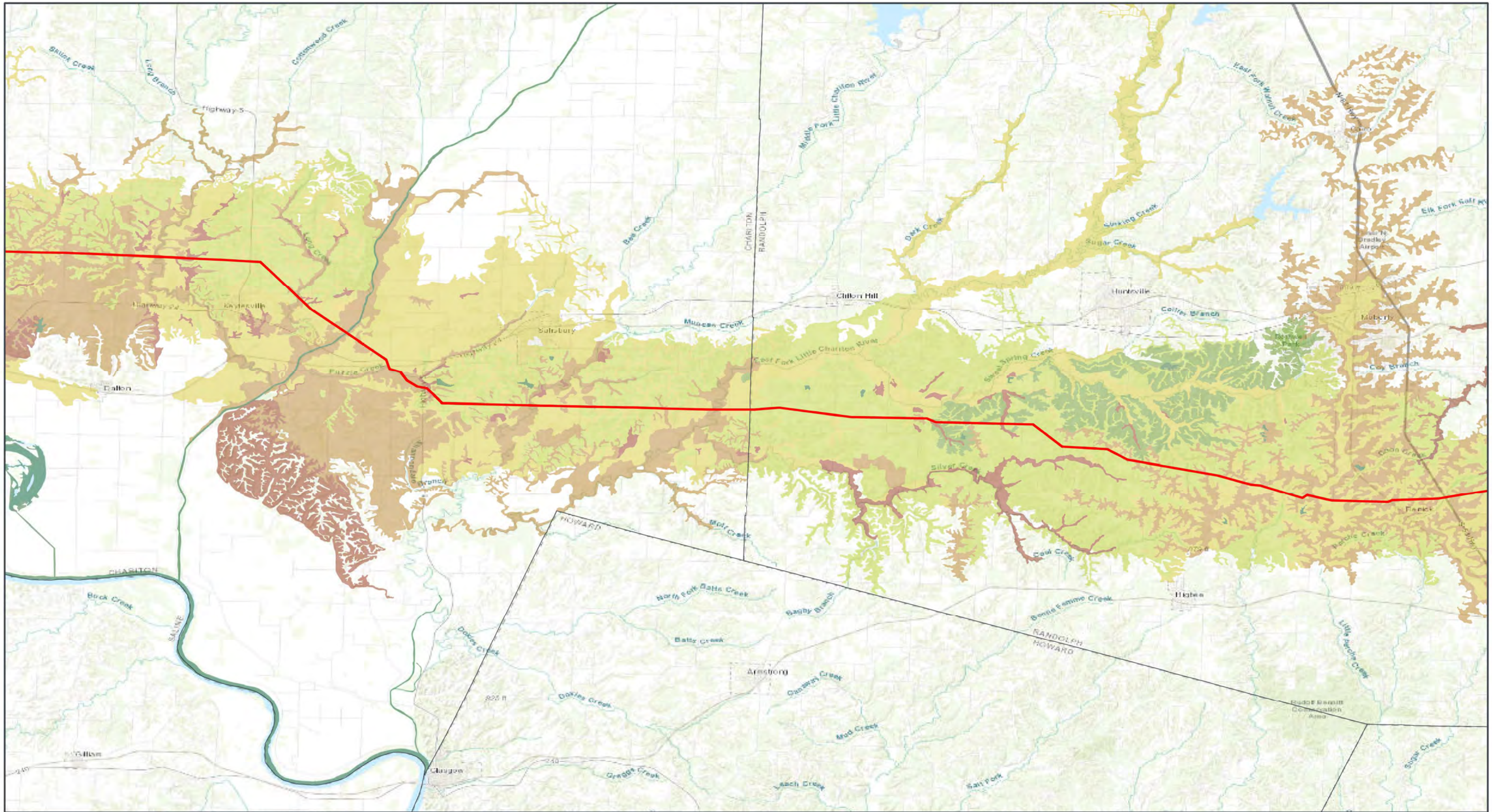
Grain Belt Express
An Iucenergy Project



GCS North American 1983
39.498°N 93.3484°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Erodibility_Factor_K
April: Soil_Erodibility_Factor





GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT

**SOIL ERODIBILITY
FACTOR**

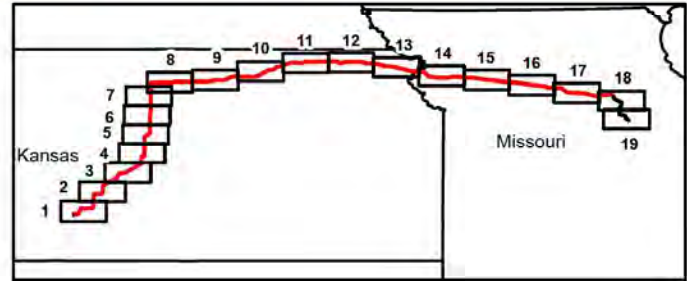
Map 17 of 19

Proposed Grain Belt Express Phase 1
HVDC Line ROW

Soil Erodibility Factor (K Factor)

- 0.00 - 0.10
- 0.10 - 0.25
- 0.25 - 0.33
- 0.33 - 0.40
- 0.40 - 0.47
- 0.47 - 0.63

Grain Belt Express
An Iovenergy Project



GCS North American 1983
39.3895°N 92.7062°W

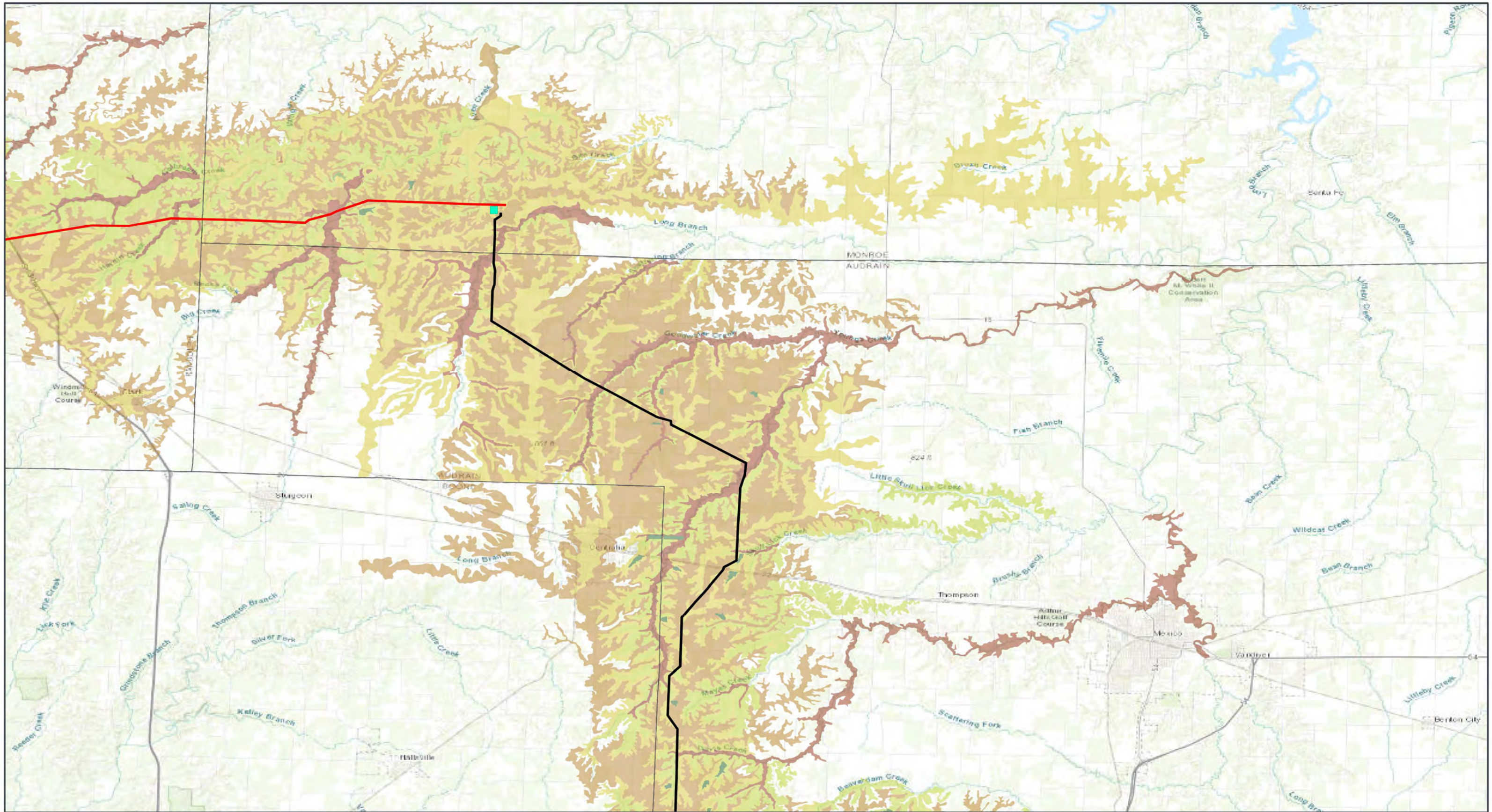
Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Erodibility_Factor_K
April: Soil_Erodibility_Factor

1:175,000

0 1.35 2.7 Miles
0 1.35 2.7 Kilometers

N

Kansas and Missouri



GRAIN BELT EXPRESS TRANSMISSION LINE PROJECT

SOIL ERODIBILITY FACTOR

Map 18 of 19

Proposed Grain Belt Express Phase 1 HVDC Line ROW

Proposed Grain Belt Express Phase 1 Tiger Connector ROW

Proposed Grain Belt Express Phase 1 Converter Station

Soil Erodibility Factor (K Factor)

0.00 - 0.10	0.10 - 0.25
0.25 - 0.33	0.33 - 0.40
0.40 - 0.47	0.47 - 0.63

GCS North American 1983
39.2746°N 92.068°W

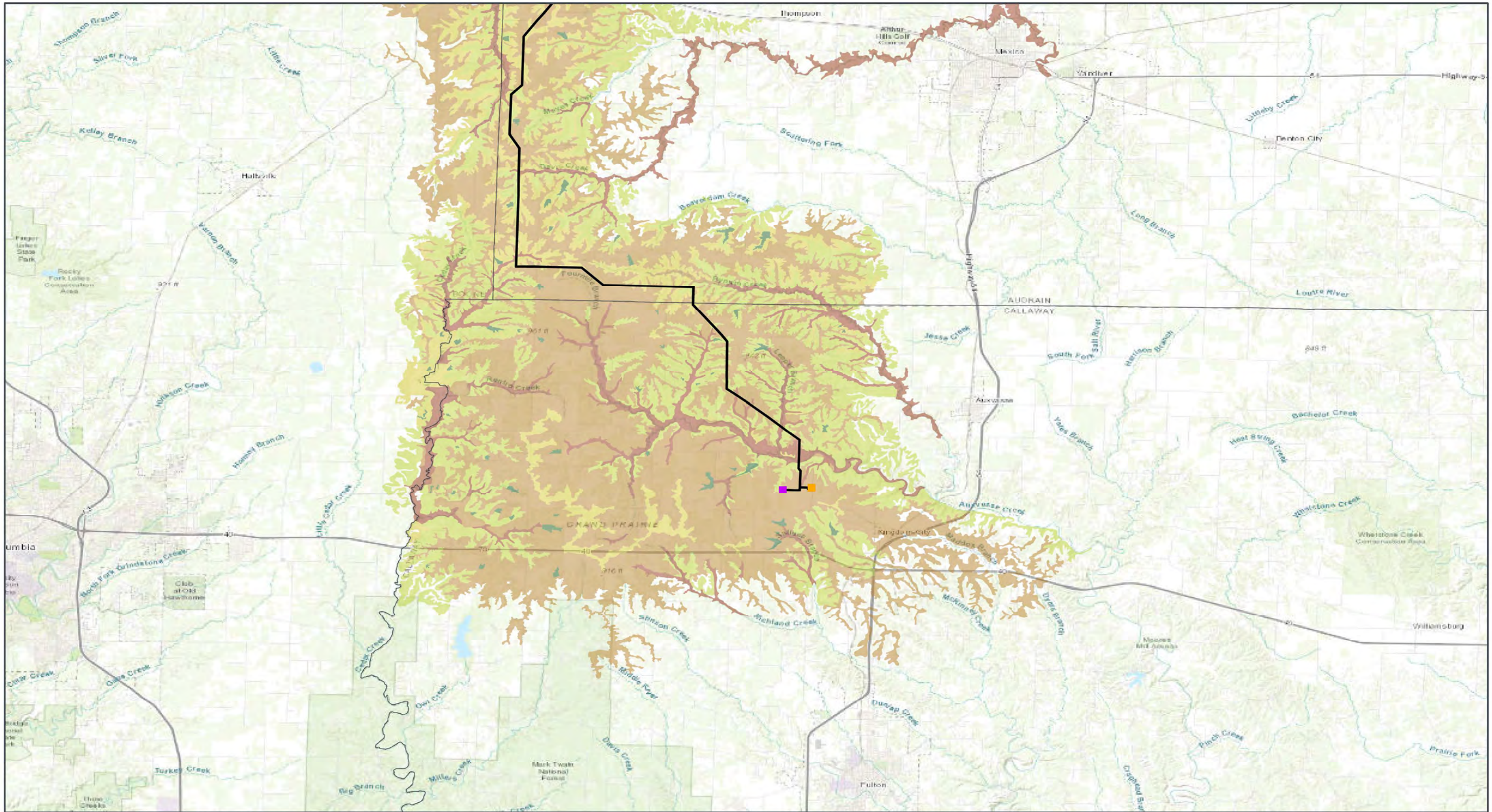
Base Map: Esri ArcGIS Online, accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Erodibility_Factor_K
April: Soil_Erodibility_Factor

1:175,000

0 1.35 2.7 Miles

0 1.35 2.7 Kilometers

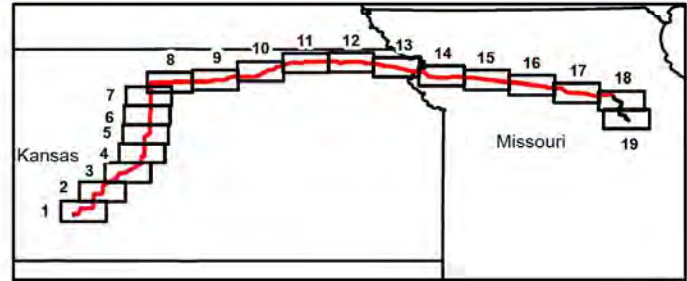
Kansas and Missouri



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
**SOIL ERODIBILITY
FACTOR**
Map 19 of 19

Proposed Grain Belt Express Phase 1
Tiger Connector ROW
Existing McCredie Substation
Existing Burns Substation
Soil Erodibility Factor (K Factor)
0.00 - 0.10

0.25 - 0.33
0.33 - 0.40
0.40 - 0.47
0.47 - 0.63

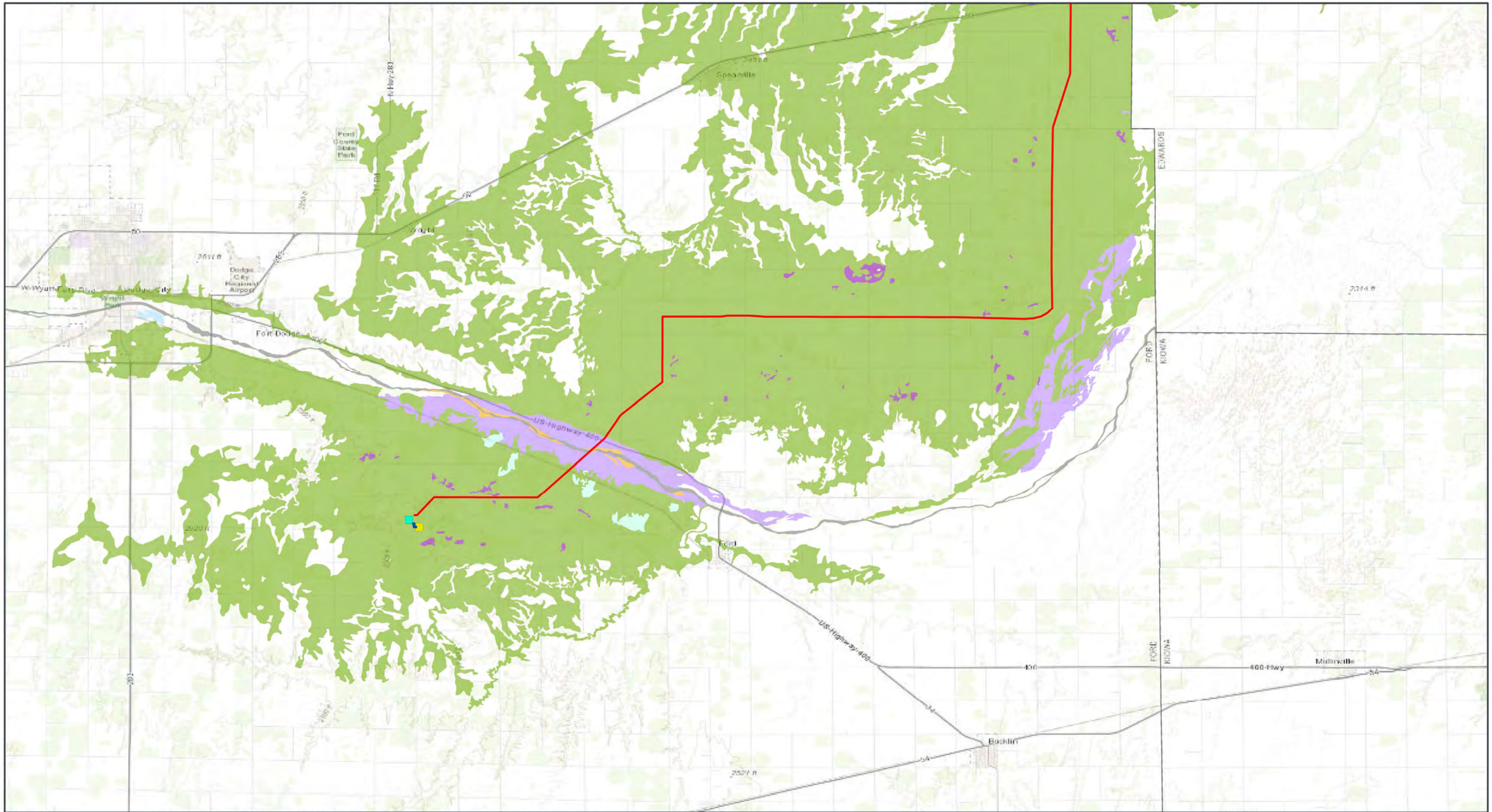


GCS North American 1983
39.0163°N 91.9977°W



Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Erodibility_Factor_K
April: Soil_Erodibility_Factor

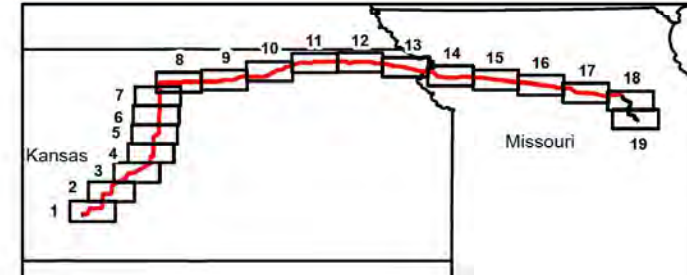
1:175,000
0 1.35 2.7 Miles
0 1.35 2.7 Kilometers



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
**SOIL
COMPACTION
POTENTIAL**
Map 1 of 19

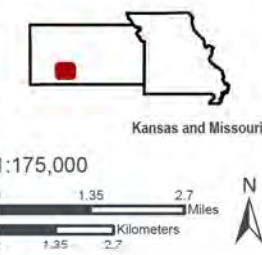
- Proposed Grain Belt Express Phase 1 HVDC Line
- Proposed Grain Belt Express Phase 1 Ford County Interconnect
- Proposed Grain Belt Express Phase 1 Converter Station
- Existing Saddle Substation

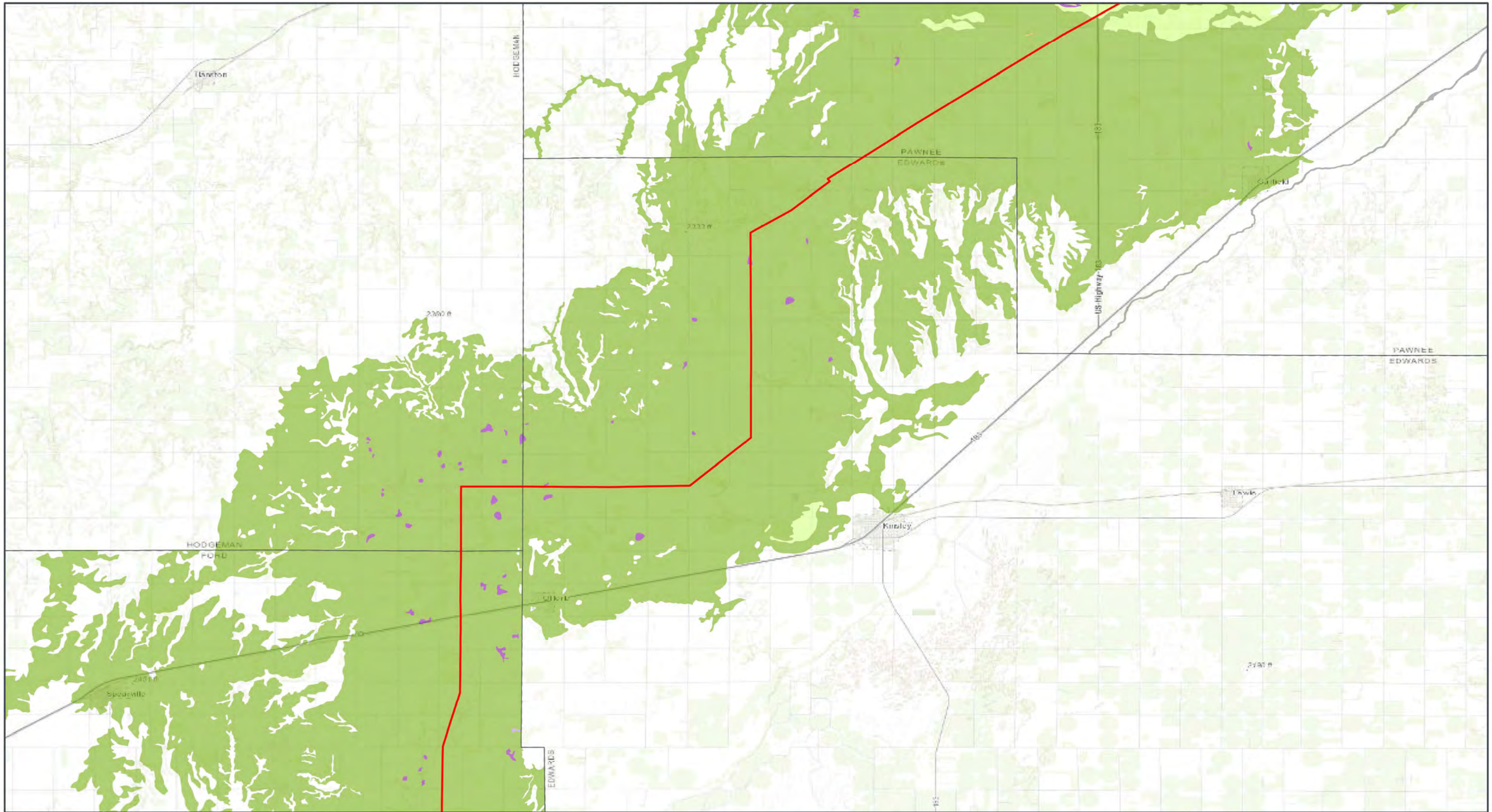
- Soil Compaction Potential - Drainage Class**
- Not rated
 - Excessively drained
 - Poorly drained
 - Somewhat excessively drained
 - Somewhat poorly drained
 - Well drained



GCS North American 1983
37.7016°N 99.7416°W

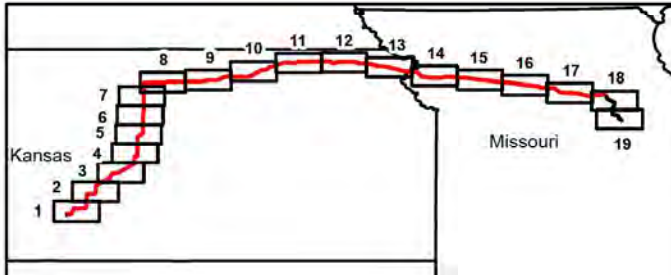
Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Compaction_Potential
App: Soil_Compaction_Potential





GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
**SOIL
COMPACTION
POTENTIAL**
Map 2 of 19

- Proposed Grain Belt Express Phase 1 HVDC Line
- Soil Compaction Potential - Drainage Class**
- Not rated
- Moderately well drained
- Poorly drained
- Somewhat excessively drained
- Somewhat poorly drained
- Well drained



GCS North American 1983
37.9765°N 99.4706°W

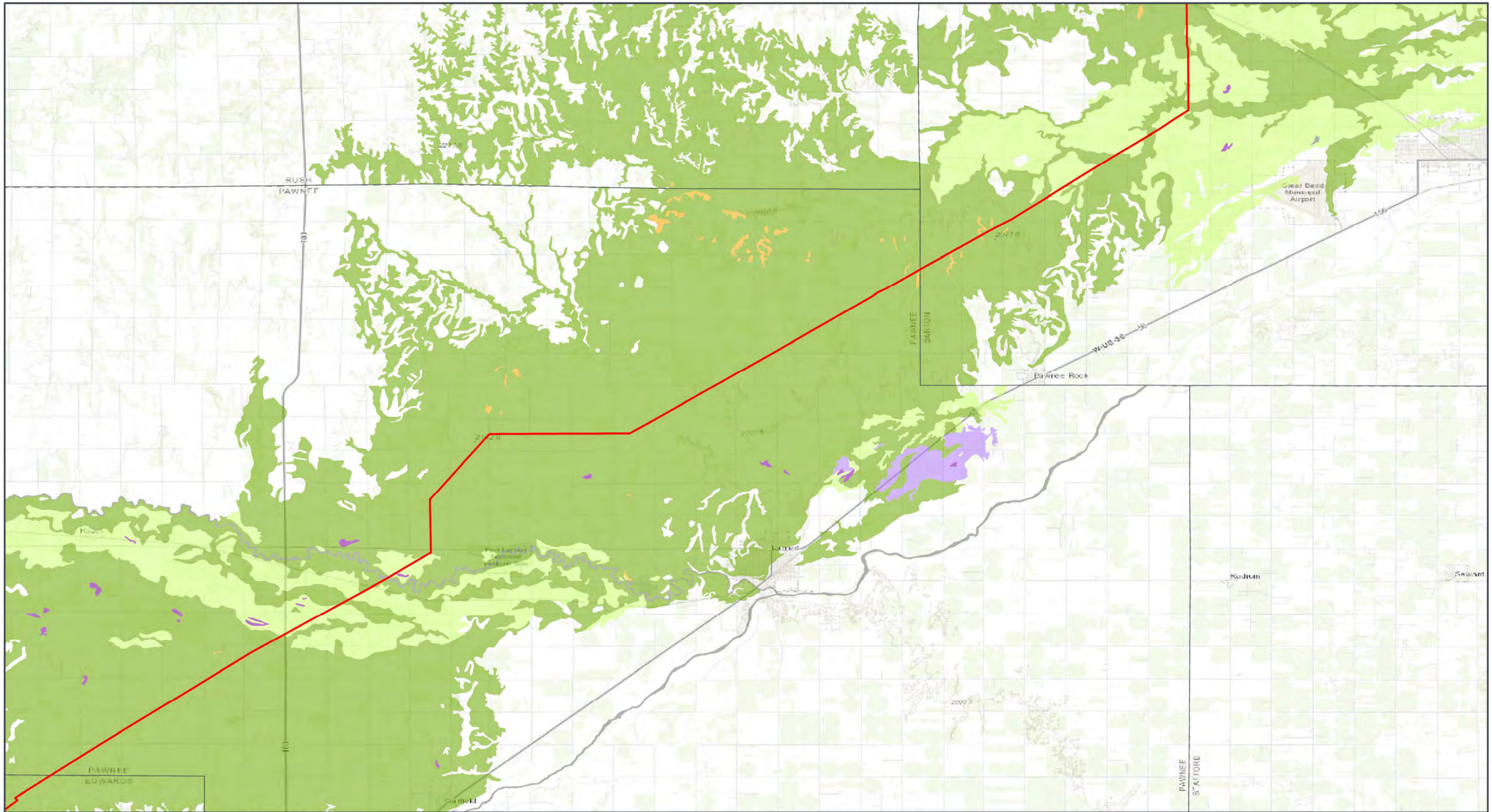
Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 80694559
Layout: Soil_Compaction_Potential
Apri: Soil_Compaction_Potential

1:175,000

0 1.35 2.7 Miles
0 1.35 2.7 Kilometers

Kansas and Missouri





GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT

**SOIL
COMPACTION
POTENTIAL**

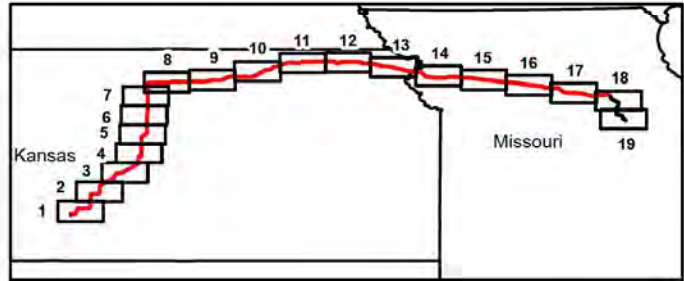
Map 3 of 19

**Proposed Grain Belt Express Phase 1
HVDC Line**

Soil Compaction Potential - Drainage Class

- Not rated
- Moderately well drained
- Poorly drained
- Somewhat excessively drained
- Somewhat poorly drained
- Well drained

Grain Belt Express
An Ixenergy Project



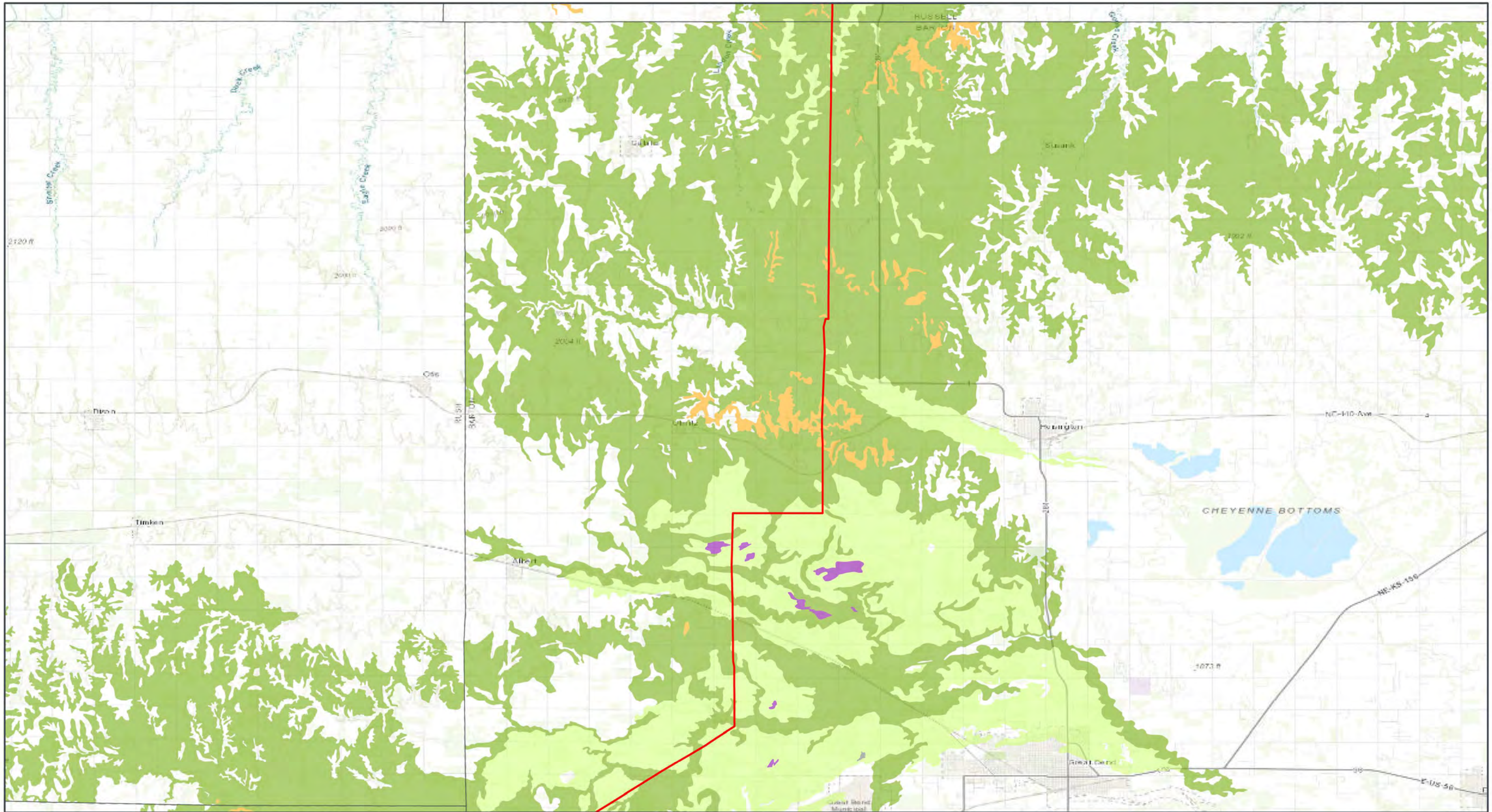
GCS North American 1983
38.2513°N 99.1096°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 80694559
Layout: Soil_Compaction_Potential
App: Soil_Compaction_Potential

1:175,000

0 1.35 2.7 Miles
0 1.35 2.7 Kilometers

Kansas and Missouri



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT

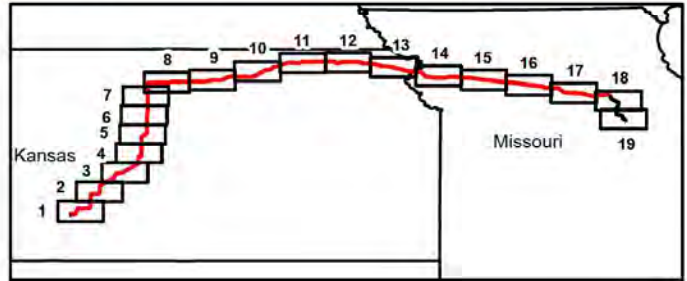
**SOIL
COMPACTION
POTENTIAL**

Map 4 of 19

Proposed Grain Belt Express Phase 1
HVDC Line

Soil Compaction Potential - Drainage Class

- Not rated
- Moderately well drained
- Poorly drained
- Somewhat excessively drained
- Well drained



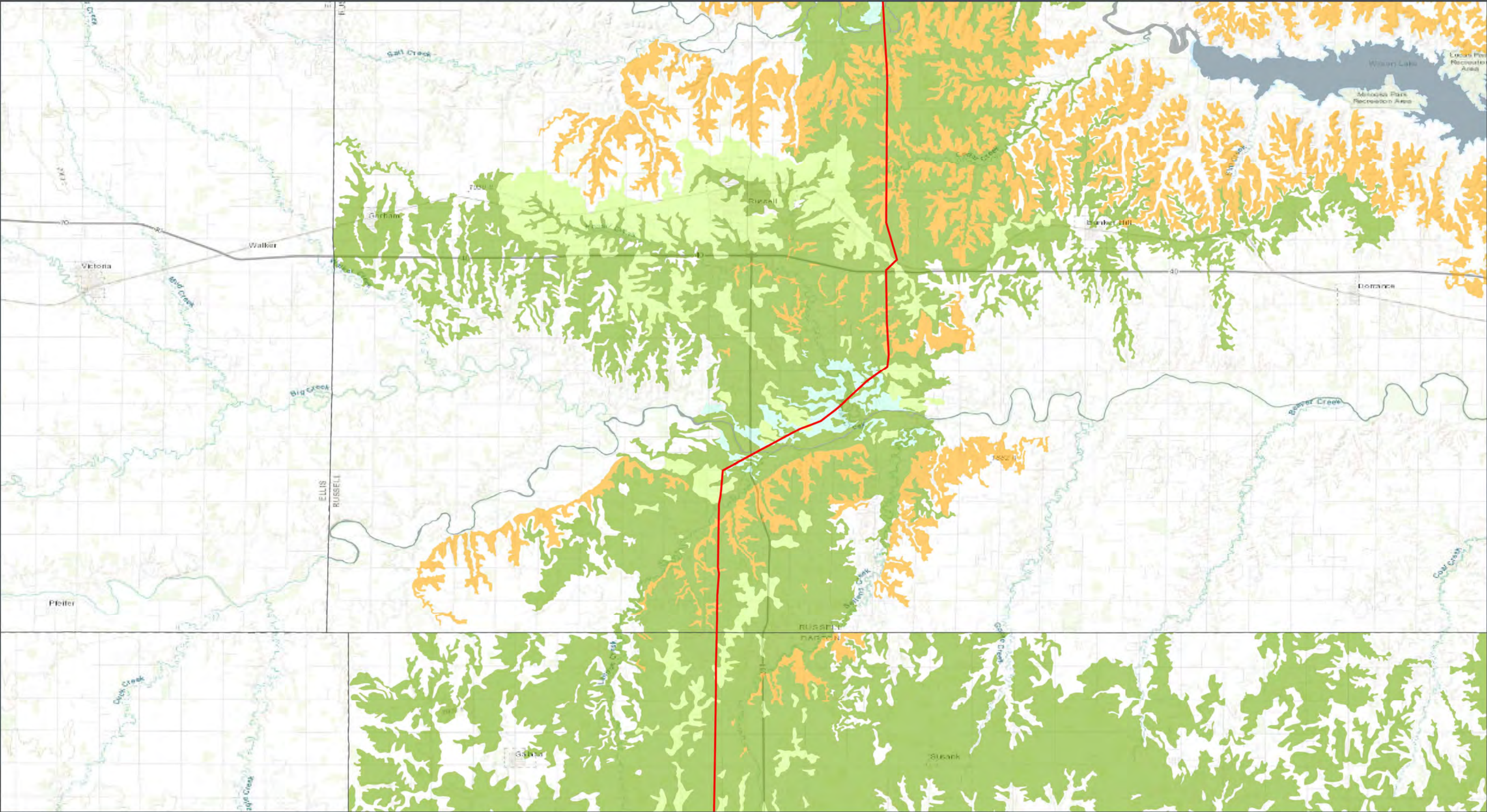
GCS North American 1983
38.5252°N 98.908°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 80694559
Layout: Soil_Compaction_Potential
App: Soil_Compaction_Potential

1:175,000

0 1.35 2.7 Miles
0 1.35 2.7 Kilometers

Kansas and Missouri



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT

**SOIL
COMPACTION
POTENTIAL**

Map 5 of 19

Proposed Grain Belt Express Phase 1
HVDC Line

Soil Compaction Potential - Drainage Class

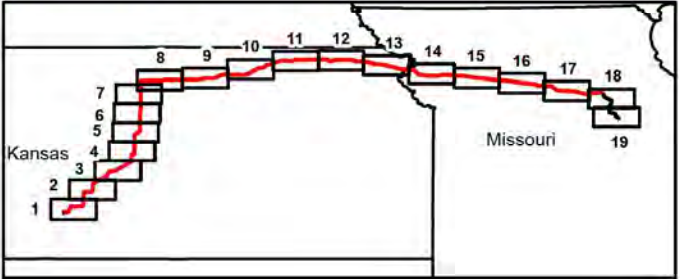
Not rated

Excessively drained

Moderately well drained

Somewhat excessively drained

Well drained



GCS North American 1983
38.797°N 98.8579°W

Kansas and Missouri

1:175,000

0 1.35 2.7

0 1.35 2.7

Miles

Kilometers

N

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 80694559
Layout: Soil_Compaction_Potential
App: Soil_Compaction_Potential



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT

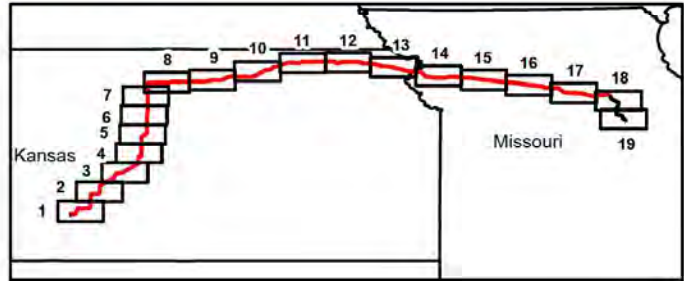
**SOIL
COMPACTION
POTENTIAL**

Map 7 of 19

Proposed Grain Belt Express Phase 1
HVDC Line

Soil Compaction Potential - Drainage Class

- Not rated
- Moderately well drained
- Somewhat excessively drained
- Well drained



GCS North American 1983
39.3414°N 98.8091°W

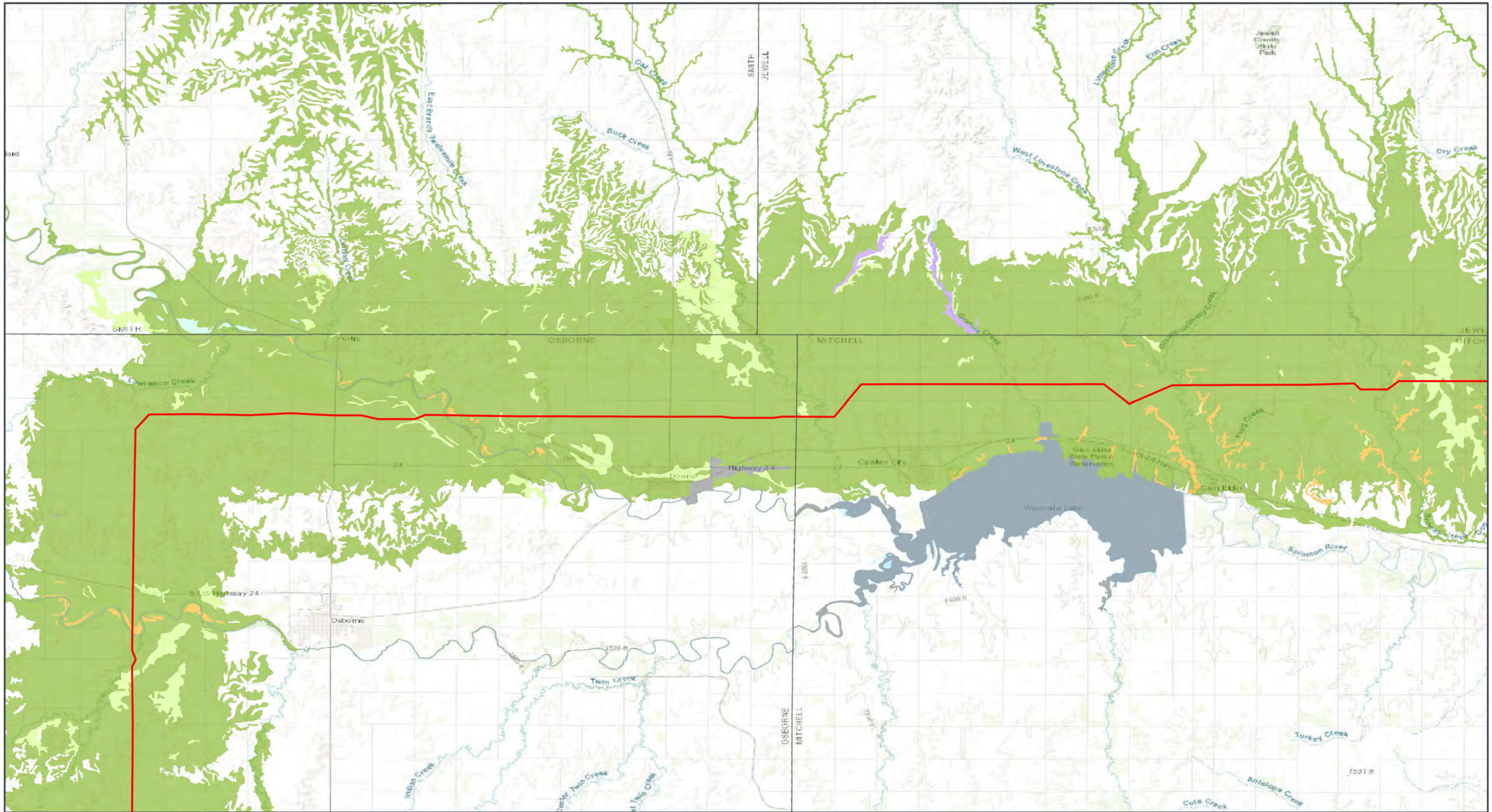
Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 80694559
Layout: Soil_Compaction_Potential
App: Soil_Compaction_Potential

1:175,000

0 1.35 2.7 Miles
0 1.35 2.7 Kilometers

N

Kansas and Missouri



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT

**SOIL
COMPACTION
POTENTIAL**

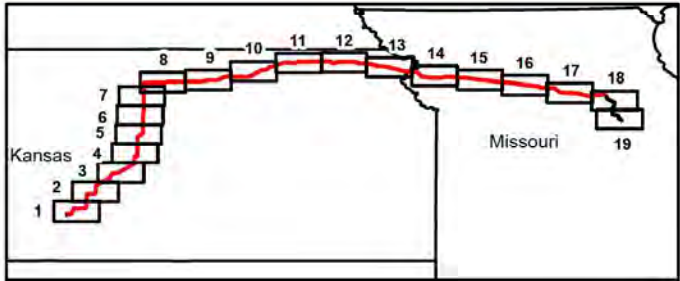
Map 8 of 19

Proposed Grain Belt Express Phase 1 HVDC Line

Soil Compaction Potential - Drainage Class

- Not rated
- Excessively drained
- Moderately well drained
- Somewhat excessively drained
- Somewhat poorly drained
- Well drained

Grain Belt Express
An Iovenergy Project



GCS North American 1983
39.5352°N 98.5101°W

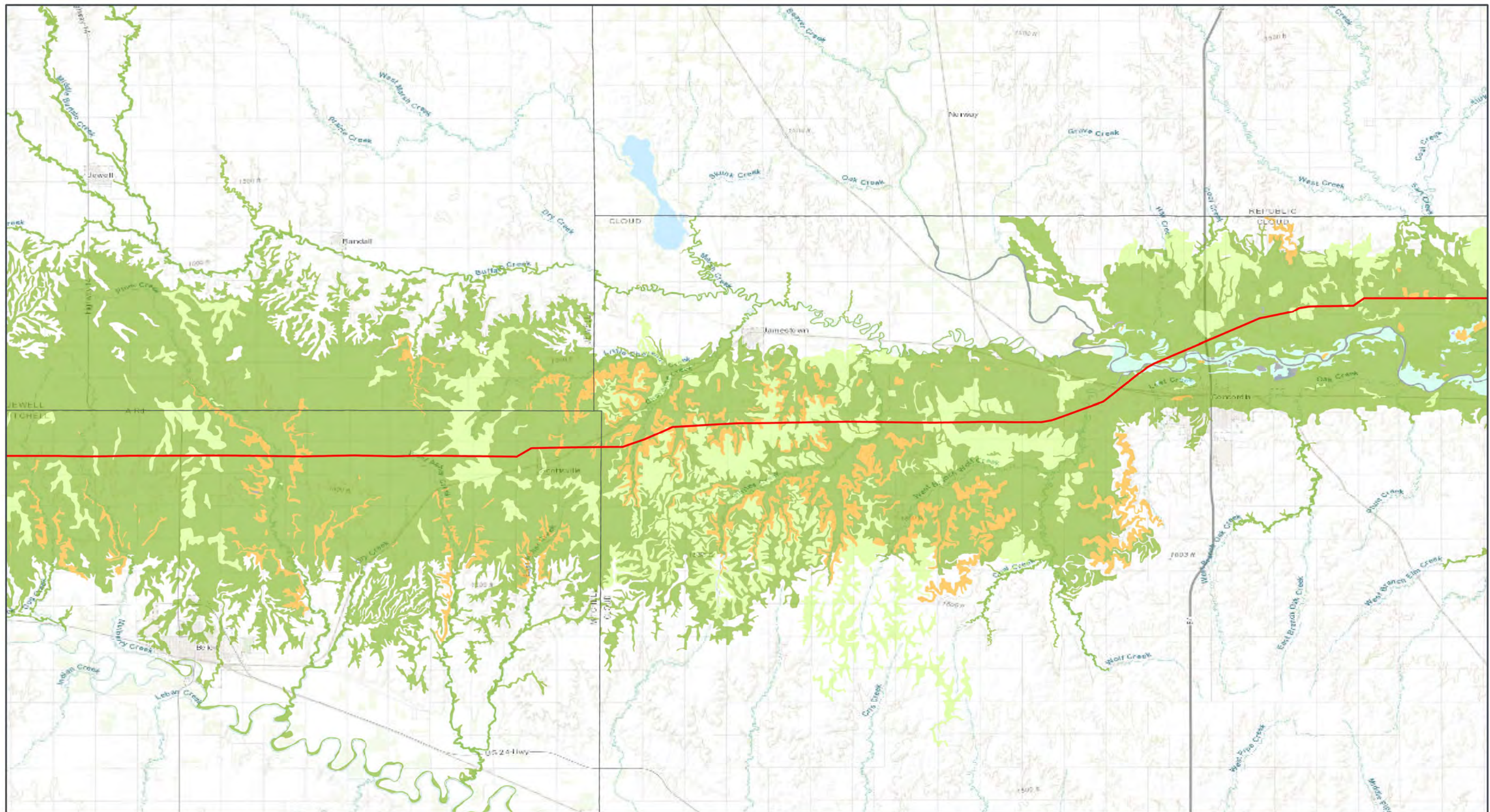
Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 80694559
Layout: Soil_Compaction_Potential
App: Soil_Compaction_Potential

1:175,000

0 1.35 2.7 Miles
0 1.35 2.7 Kilometers

N

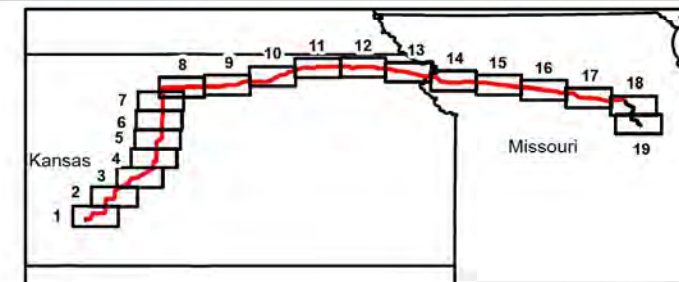
Kansas and Missouri



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
**SOIL
COMPACTION
POTENTIAL**
Map 9 of 19



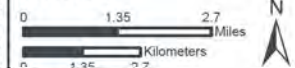
- Proposed Grain Belt Express Phase 1
HVDC Line
- Soil Compaction Potential - Drainage Class**
- | | |
|---|------------------------------|
|  | Not rated |
|  | Excessively drained |
|  | Moderately well drained |
|  | Somewhat excessively drained |
|  | Somewhat poorly drained |
|  | Well drained |



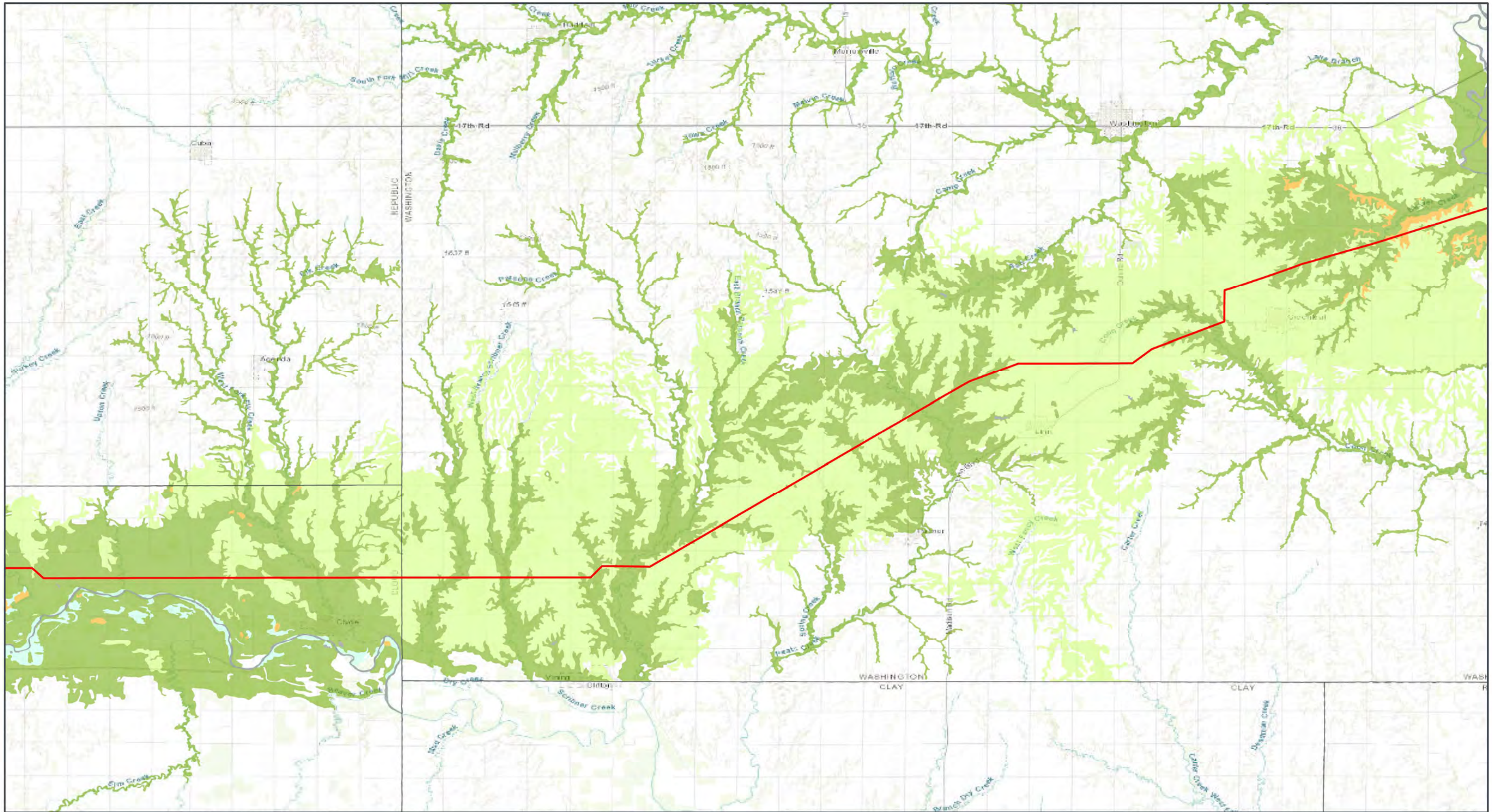
GCS North American 1983
39.5677°N 97.8639°W



1:175 000

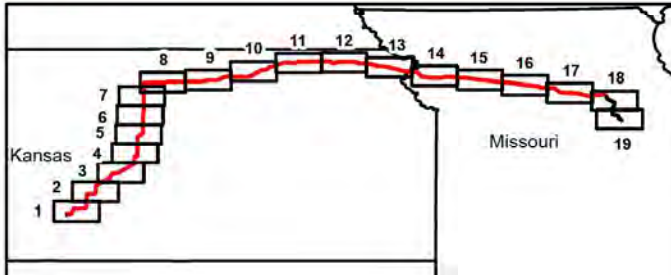


Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 80694559
Layout: Soil_Compaction_Potential
App: Soil_Compaction_Potential



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
**SOIL
COMPACTION
POTENTIAL**
Map 10 of 19

- Proposed Grain Belt Express Phase 1 HVDC Line
- Soil Compaction Potential - Drainage Class
 - Not rated
 - Excessively drained
 - Moderately well drained
 - Somewhat excessively drained
 - Well drained



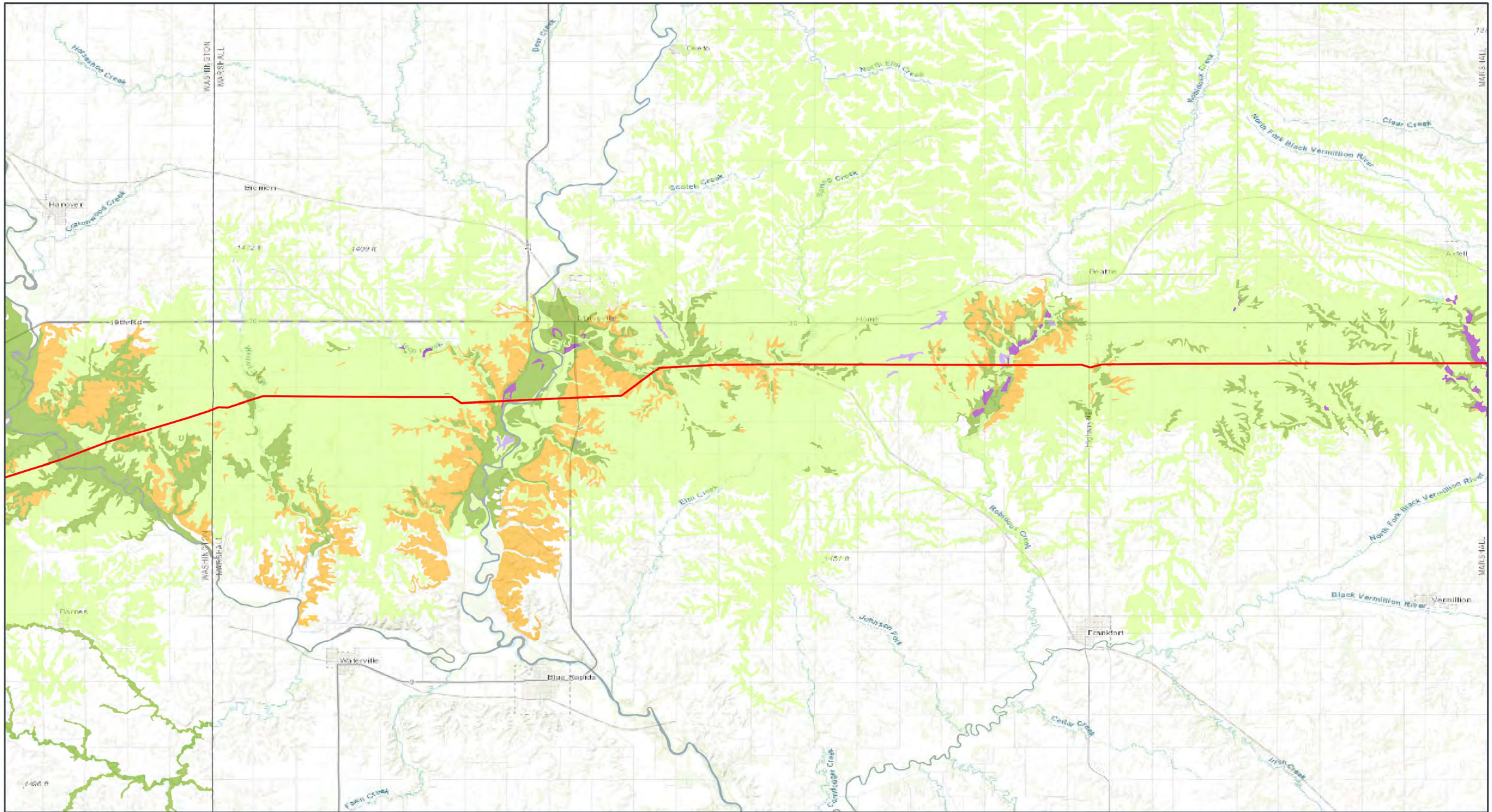
GCS North American 1983
39.6882°N 97.2156°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Compaction_Potential
App: Soil_Compaction_Potential

1:175,000

0 1.35 2.7 Miles
0 1.35 2.7 Kilometers

Kansas and Missouri



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT

**SOIL
COMPACTION
POTENTIAL**

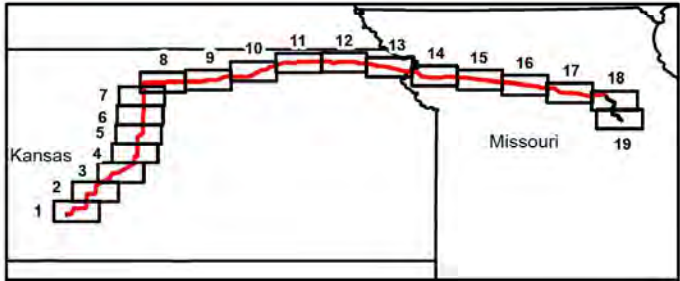
Map 11 of 19

**Proposed Grain Belt Express Phase 1
HVDC Line**

Soil Compaction Potential - Drainage Class

- Not rated
- Moderately well drained
- Poorly drained
- Somewhat excessively drained
- Somewhat poorly drained
- Well drained

Grain Belt Express
An Iowenergy Project



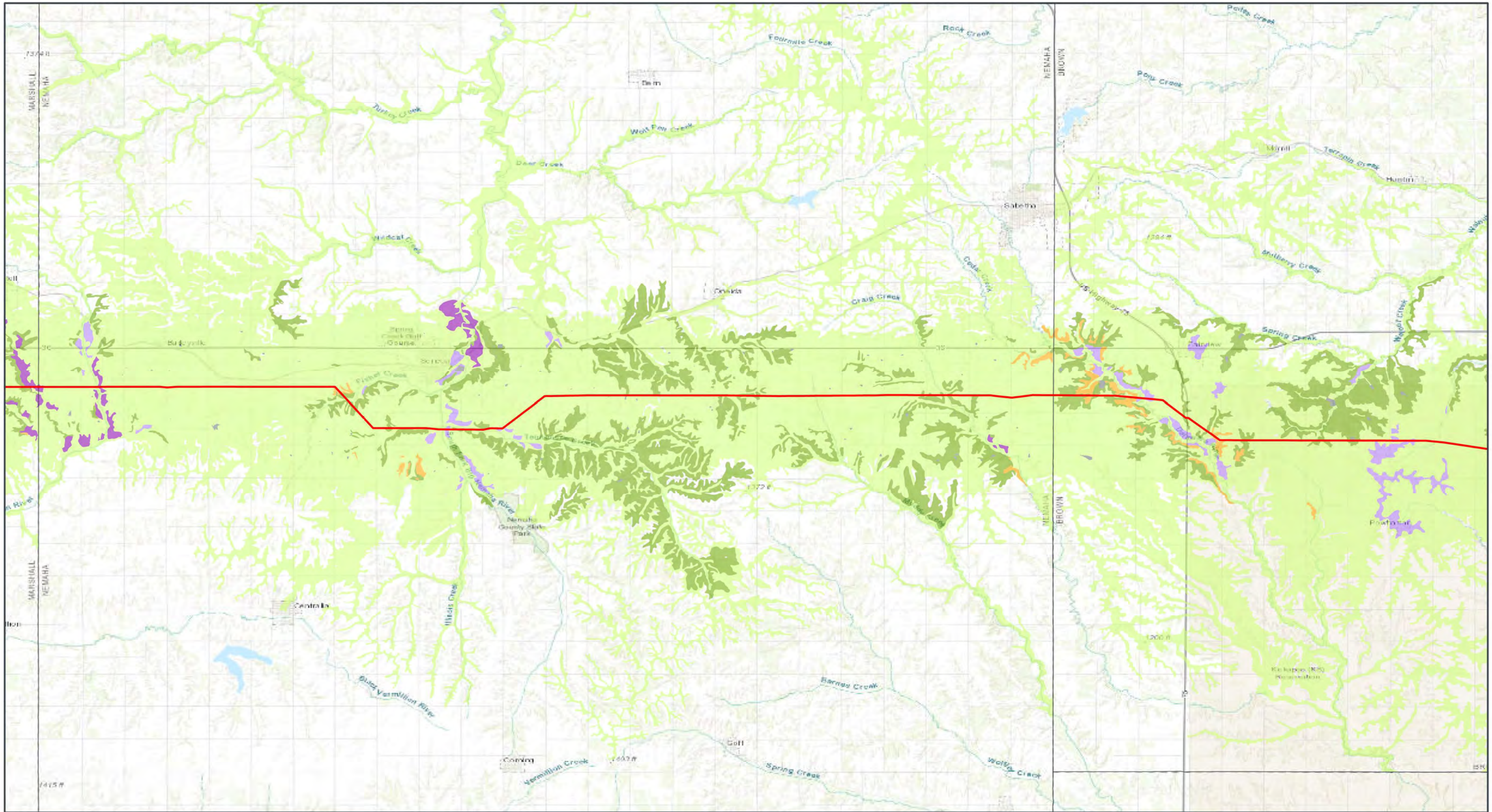
GCS North American 1983
39.8039°N 96.5694°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 80694559
Layout: Soil_Compaction_Potential
App: Soil_Compaction_Potential

1:175,000

0 1.35 2.7 Miles
0 1.35 2.7 Kilometers

Kansas and Missouri



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT

**SOIL
COMPACTION
POTENTIAL**

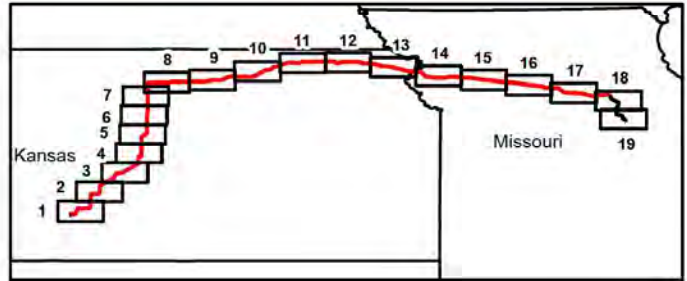
Map 12 of 19

Proposed Grain Belt Express Phase 1 HVDC Line

Soil Compaction Potential - Drainage Class

- Not rated
- Moderately well drained
- Poorly drained
- Somewhat excessively drained
- Somewhat poorly drained
- Well drained

Grain Belt Express
An Ixenergy Project



GCS North American 1983
39.8147°N 95.9252°W

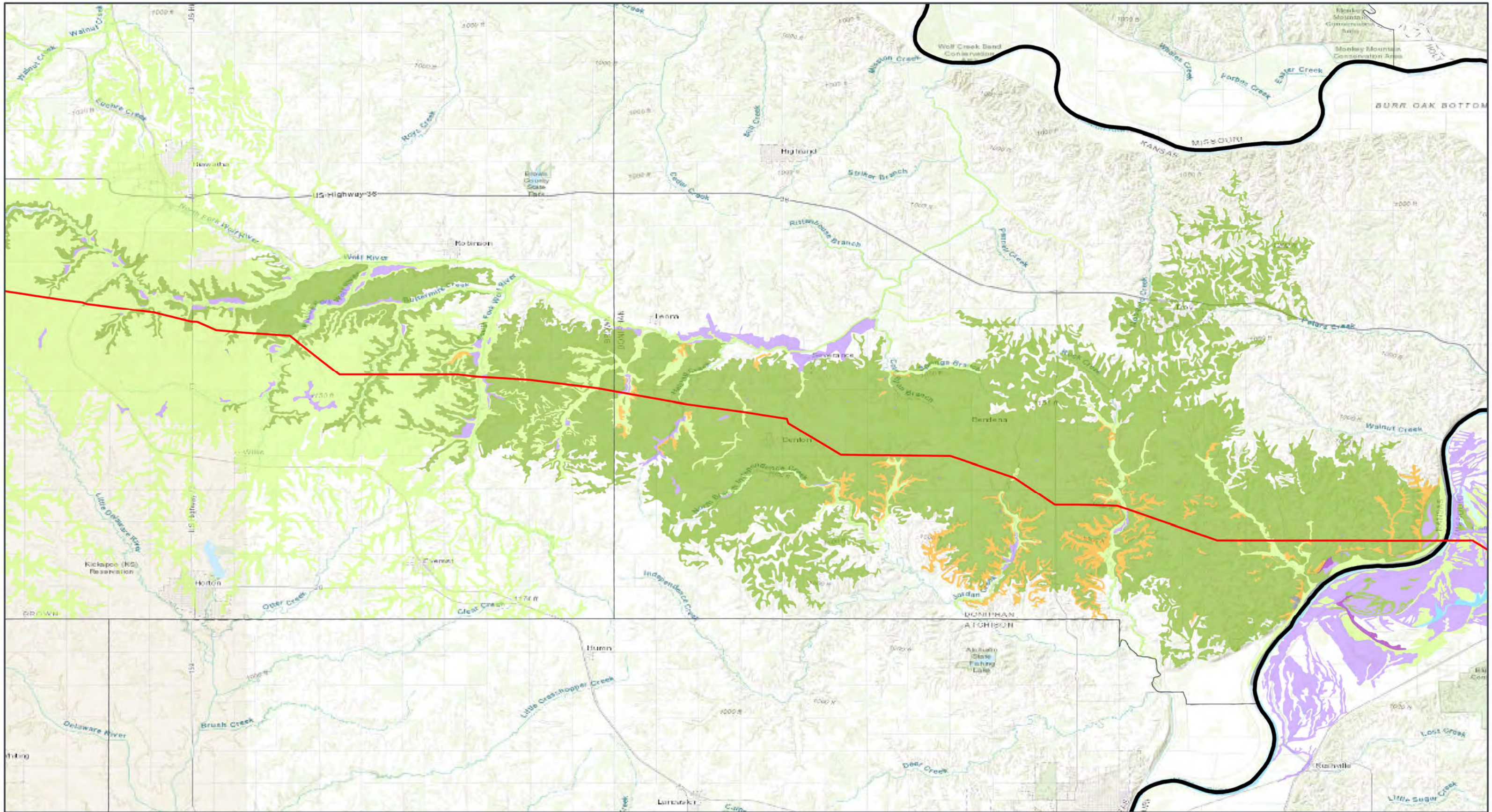
Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 80694559
Layout: Soil_Compaction_Potential
App: Soil_Compaction_Potential

1:175,000

0 1.35 2.7 Miles
0 1.35 2.7 Kilometers

N

Kansas and Missouri



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT

**SOIL
COMPACTION
POTENTIAL**

Map 13 of 19

Proposed Grain Belt Express Phase 1
HVDC Line

Soil Compaction Potential - Drainage Class

- Not rated
- Excessively drained
- Moderately well drained
- Poorly drained
- Somewhat excessively drained
- Somewhat poorly drained
- Subaqueous
- Well drained

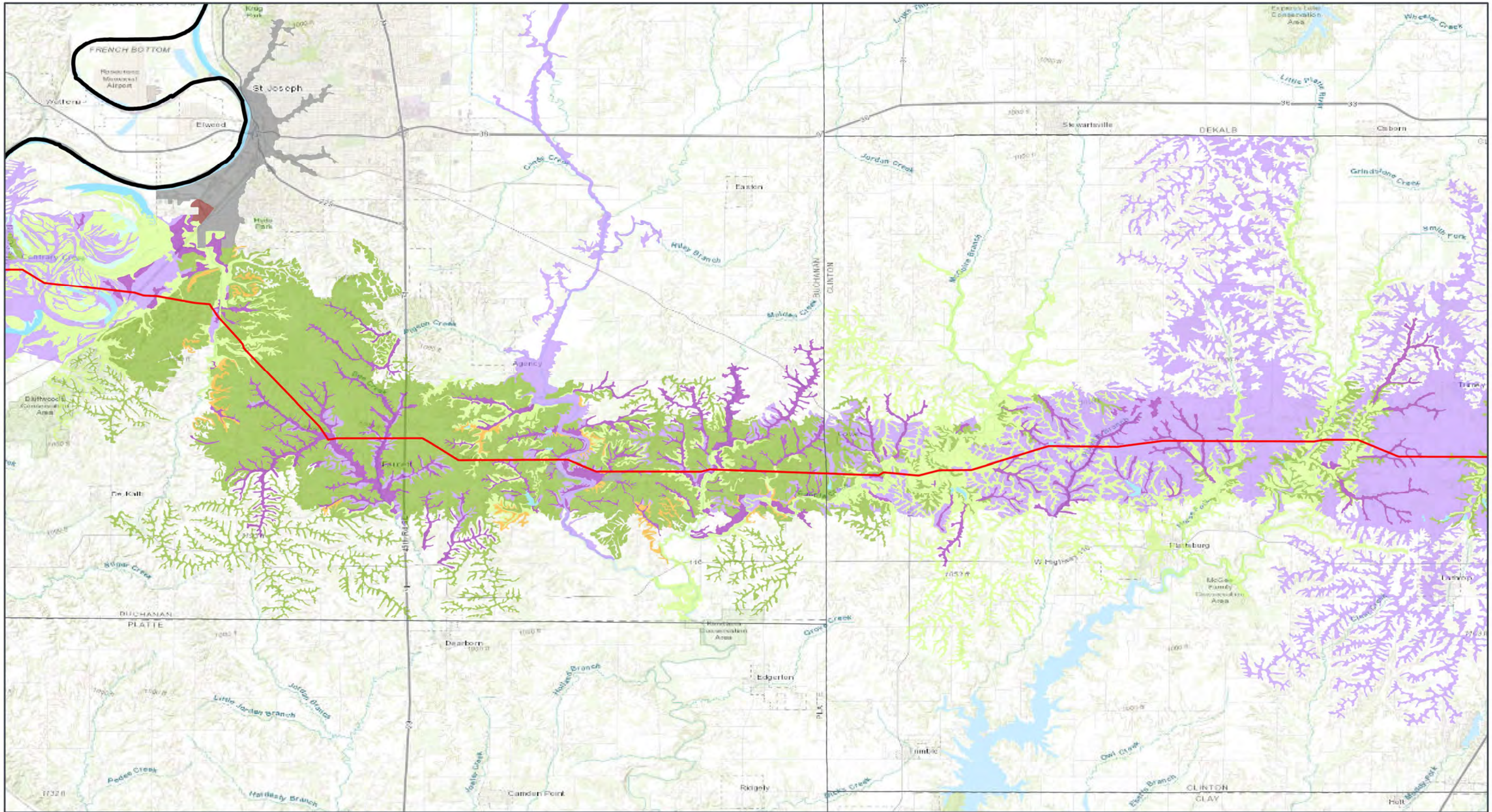
GCS North American 1983
39.7469°N 95.281°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 80694559
Layout: Soil_Compaction_Potential
App: Soil_Compaction_Potential

1:175,000

0 1.35 2.7 Miles
0 1.35 2.7 Kilometers

Kansas and Missouri



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT

**SOIL
COMPACTION
POTENTIAL**

Map 14 of 19

— Proposed Grain Belt Express Phase 1
HVDC Line

Soil Compaction Potential - Drainage Class

- Not rated
- Excessively drained
- Moderately well drained
- Poorly drained
- Somewhat excessively drained
- Somewhat poorly drained
- Subaqueous
- Very poorly drained
- Well drained

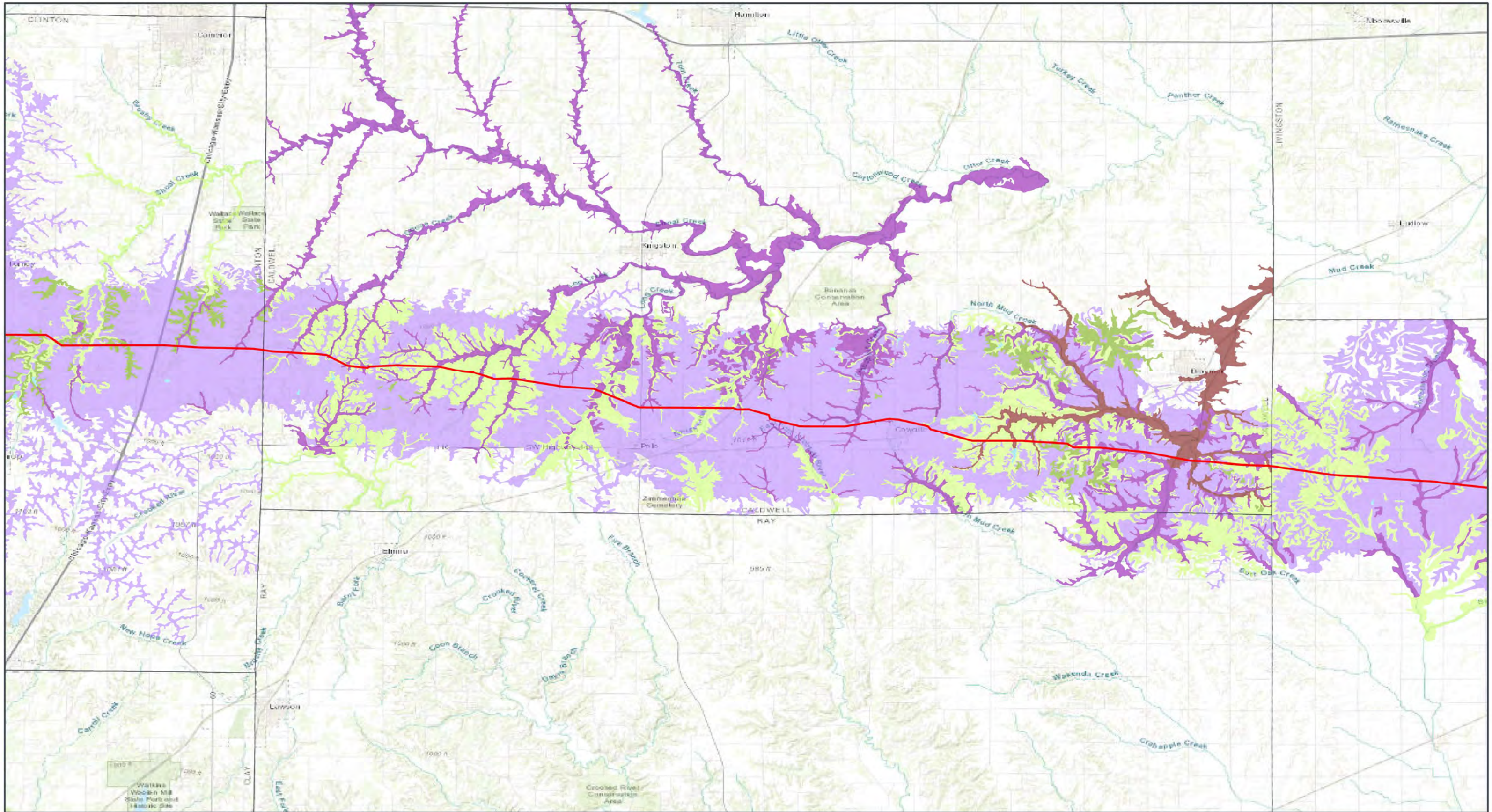
GCS North American 1983
39.6264°N 94.6368°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Compaction_Potential
App: Soil_Compaction_Potential

1:175,000

0 1.35 2.7 Miles
0 1.35 2.7 Kilometers

Kansas and Missouri



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT

**SOIL
COMPACTION
POTENTIAL**

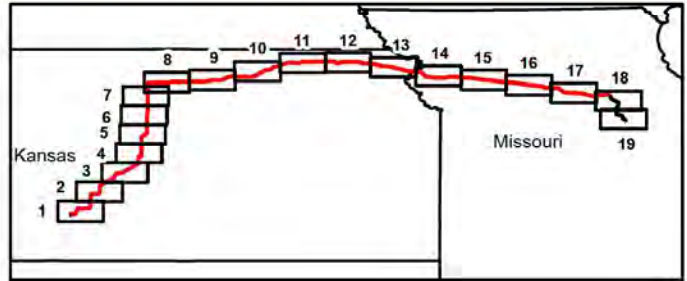
Map 15 of 19

Proposed Grain Belt Express Phase 1
HVDC Line

Soil Compaction Potential - Drainage Class

- Moderately well drained
- Poorly drained
- Somewhat poorly drained
- Subaqueous
- Very poorly drained
- Well drained

Grain Belt Express
An Ixenergy Project



GCS North American 1983
39.5723°N 93.9926°W

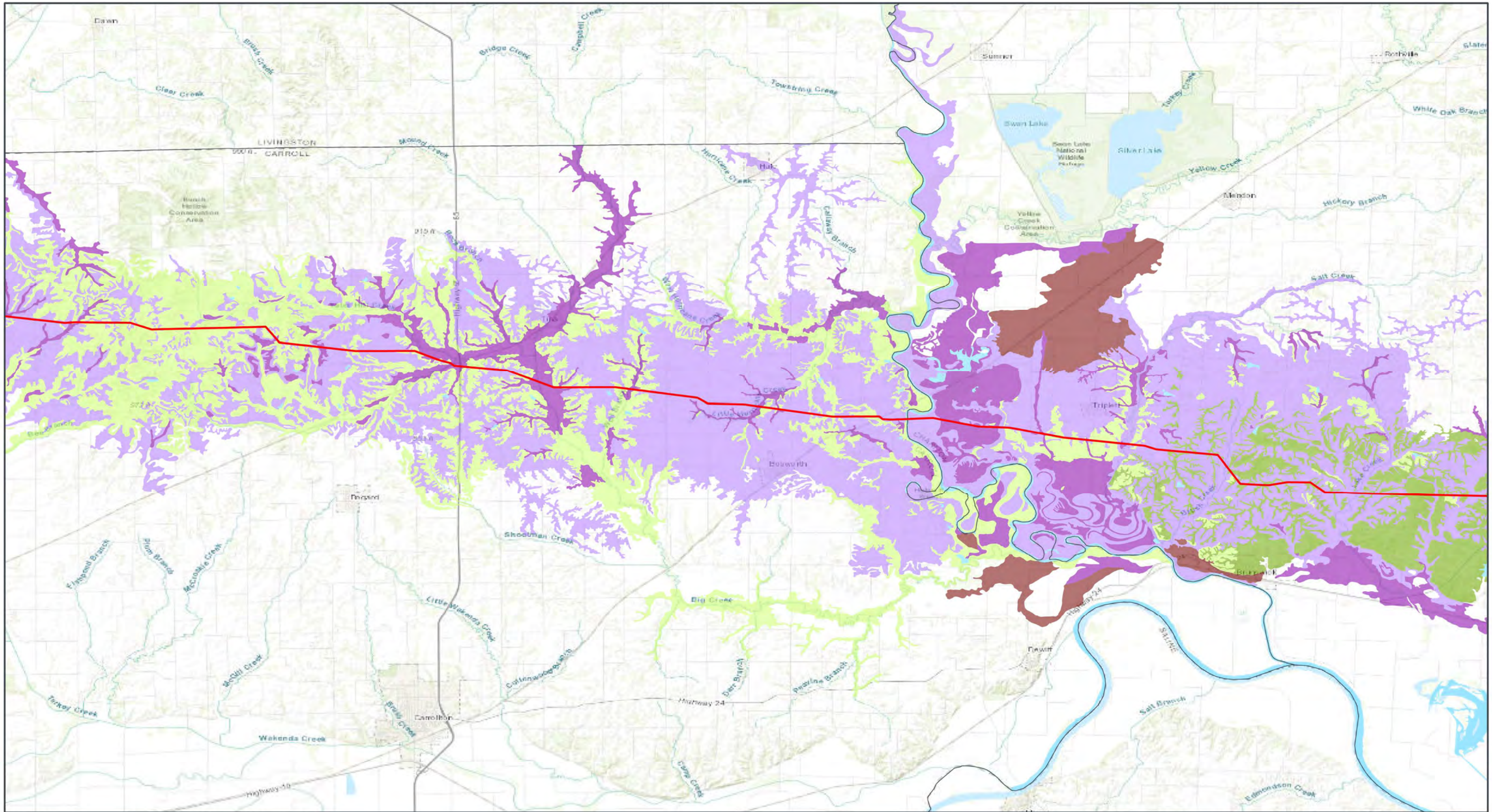
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Project No. 80694559
Layout: Soil_Compaction_Potential
App: Soil_Compaction_Potential

1:175,000

0 1.35 2.7 Miles
0 1.35 2.7 Kilometers

N

Kansas and Missouri



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT

**SOIL
COMPACTION
POTENTIAL**

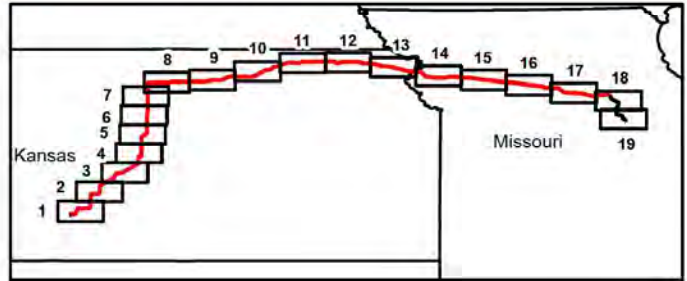
Map 16 of 19

Proposed Grain Belt Express Phase 1
HVDC Line

Soil Compaction Potential - Drainage Class

- Moderately well drained
- Poorly drained
- Somewhat poorly drained
- Subaqueous
- Very poorly drained
- Well drained

Grain Belt Express
An Iovenergy Project



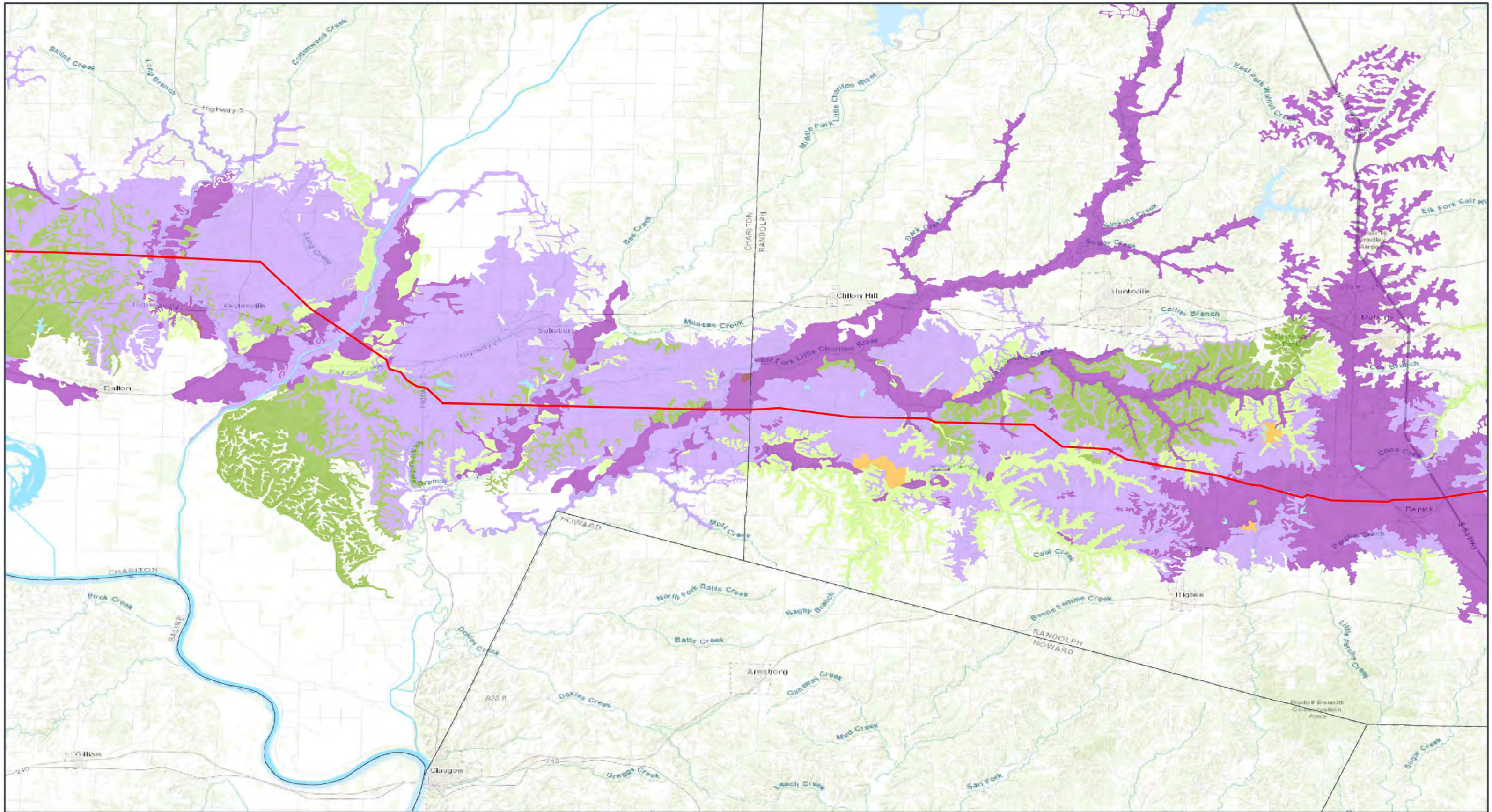
GCS North American 1983
39.498°N 93.3484°W

Kansas and Missouri

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Compaction_Potential
App: Soil_Compaction_Potential

1:175,000

0 1.35 2.7 Miles
0 1.35 2.7 Kilometers

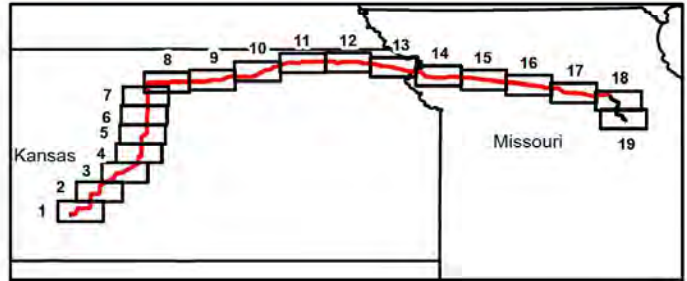


GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT

**SOIL
COMPACTION
POTENTIAL**

Map 17 of 19

Proposed Grain Belt Express Phase 1 HVDC Line	Somewhat excessively drained
Soil Compaction Potential - Drainage Class	Somewhat poorly drained
Moderately well drained	Subaqueous
Poorly drained	Very poorly drained
	Well drained



GCS North American 1983
39.3895°N 92.7062°W

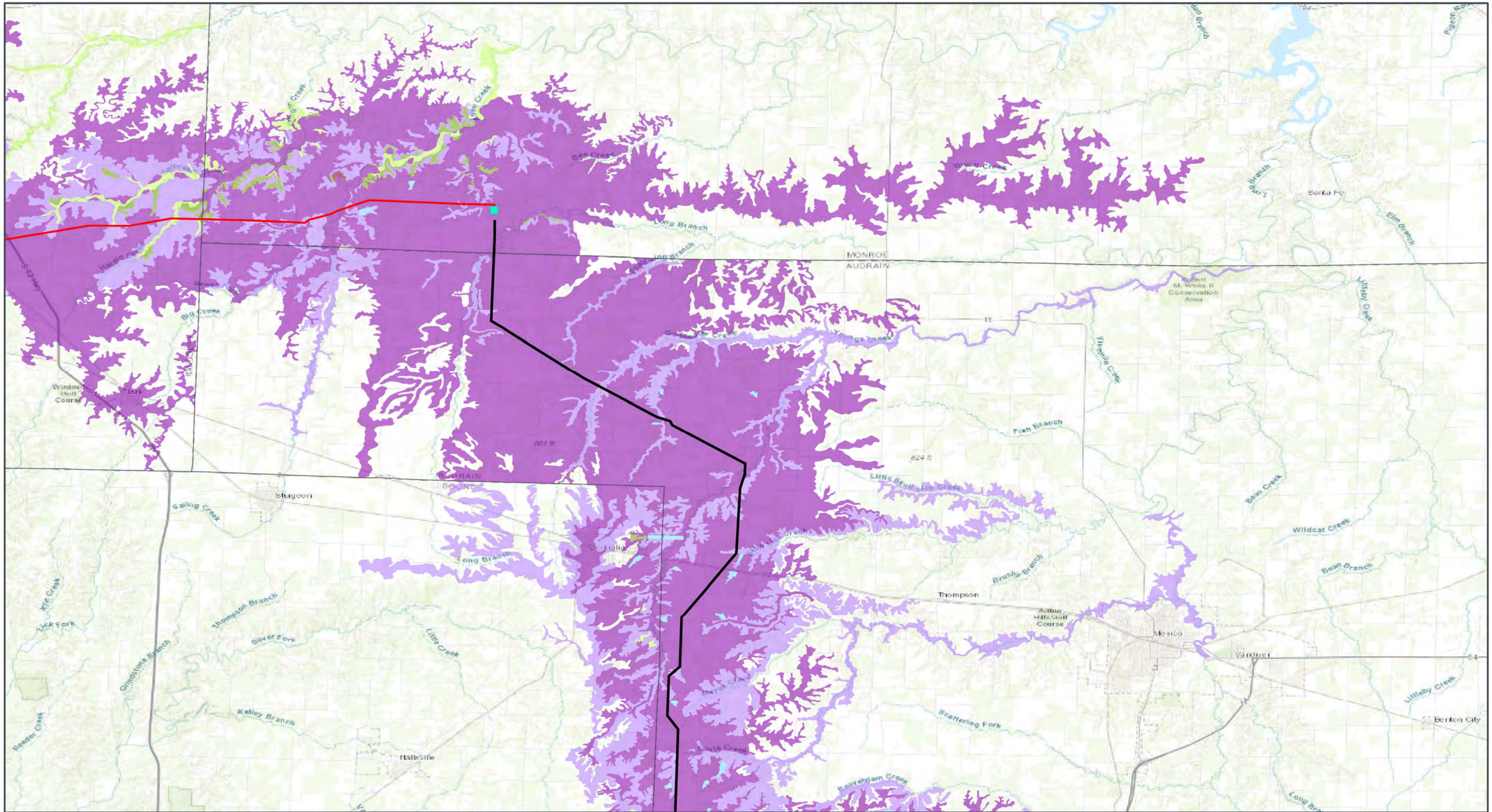
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accessed November 2024
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App: Soil_Compaction_Potential

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0 1.35 2.7 Miles

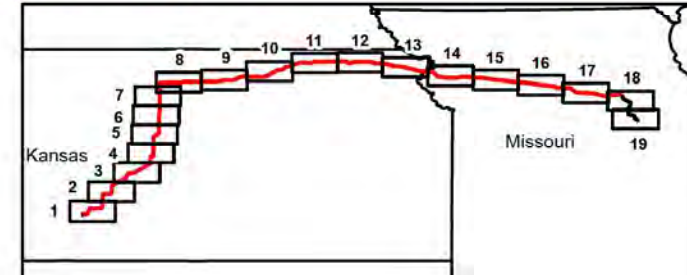
0 1.35 2.7 Kilometers

Kansas and Missouri



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
**SOIL
COMPACTION
POTENTIAL**
Map 18 of 19

- | | |
|---|-------------------------|
| Proposed Grain Belt Express Phase 1 HVDC Line | Poorly drained |
| Proposed Grain Belt Express Phase 1 Tiger Connector | Somewhat poorly drained |
| Proposed Grain Belt Express Phase 1 Converter Station | Subaqueous |
| Soil Compaction Potential - Drainage Class | Very poorly drained |
| Moderately well drained | Well drained |



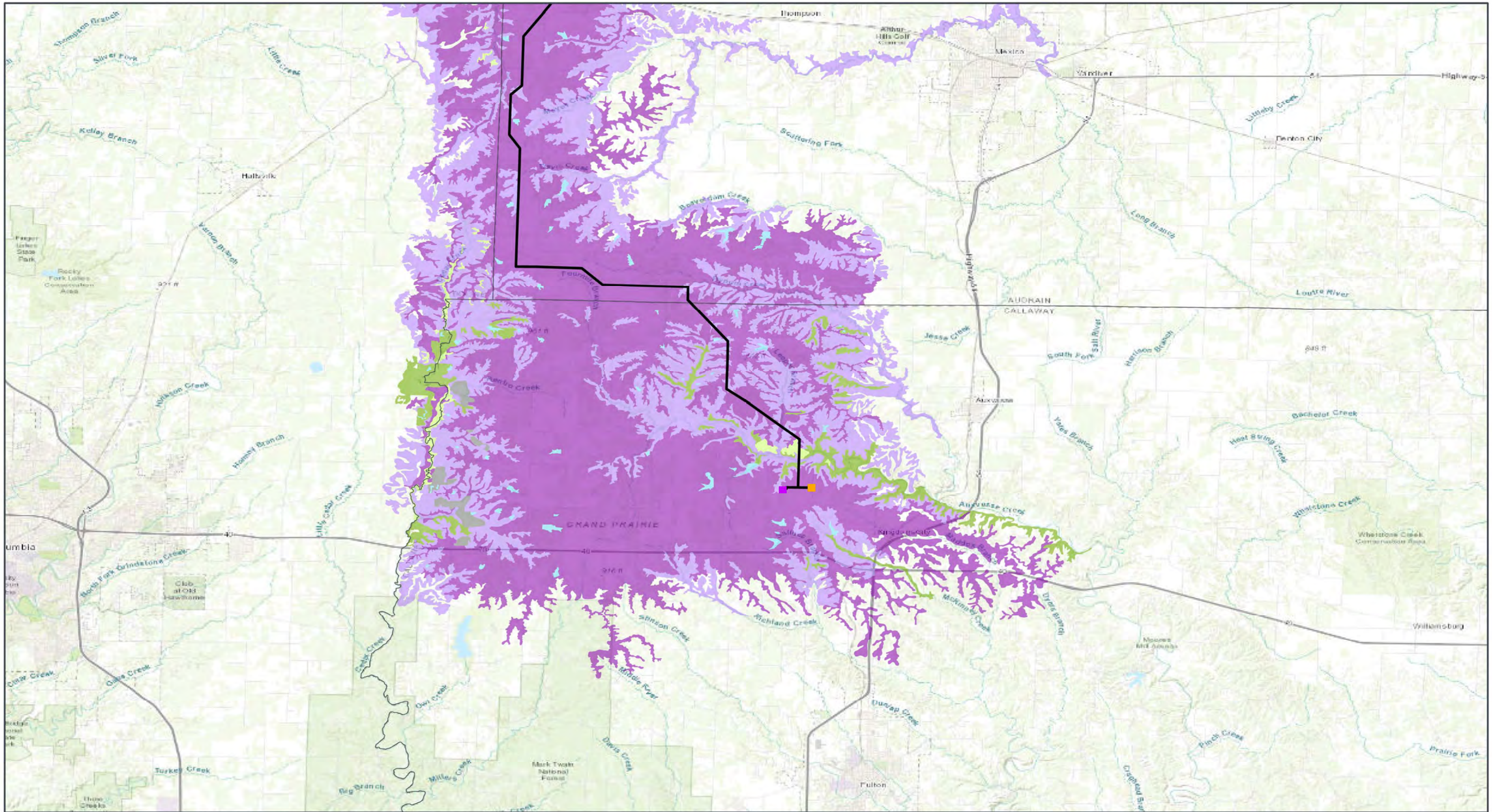
GCS North American 1983
39.2746°N 92.068°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 80694559
Layout: Soil_Compaction_Potential
App: Soil_Compaction_Potential

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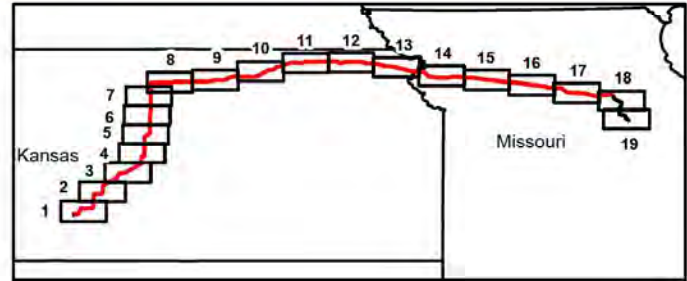
0 1.35 2.7 Miles
0 1.35 2.7 Kilometers

Kansas and Missouri



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
**SOIL
COMPACTION
POTENTIAL**
Map 19 of 19

- Proposed Grain Belt Express Phase 1
Tiger Connector
- Existing McCredie Substation
- Existing Burns Substation
- Soil Compaction Potential - Drainage Class
- Not rated
- Moderately well drained
- Poorly drained
- Somewhat poorly drained
- Subaqueous
- Well drained



GCS North American 1983
39.0163°N 91.9977°W

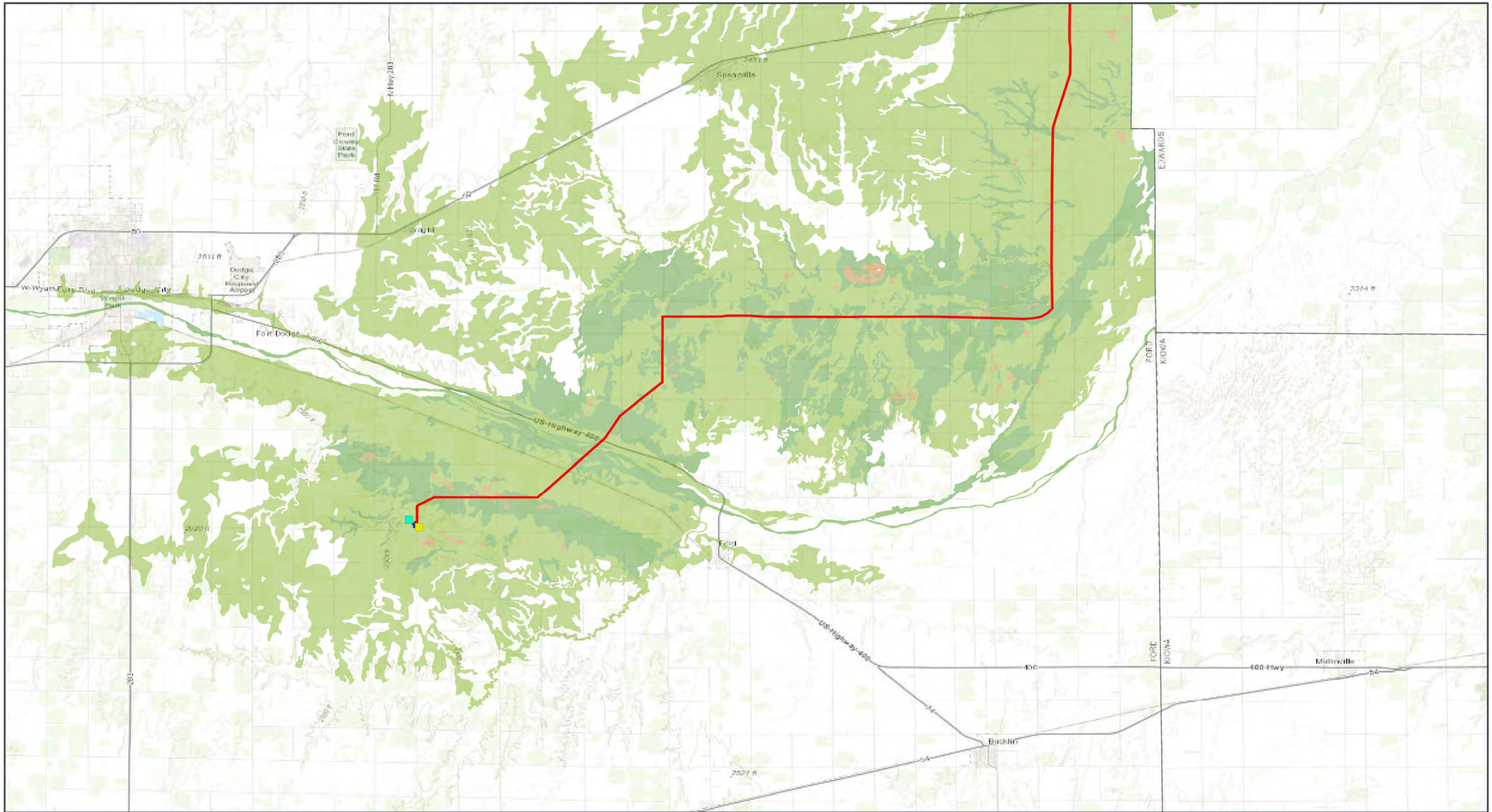
Base Map: Esri ArcGIS Online,
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Project No. 80694559
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App: Soil_Compaction_Potential

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0 1.35 2.7 Miles

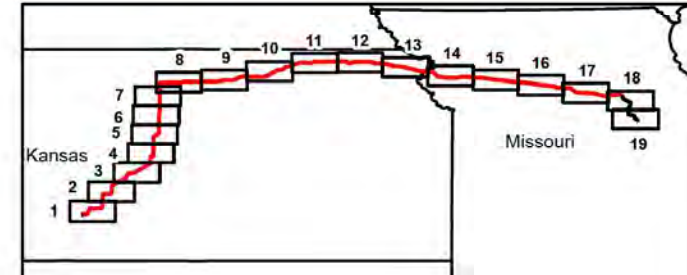
0 1.35 2.7 Kilometers

Kansas and Missouri



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
**HYDRIC
RATING**
Map 1 of 19

- Proposed Grain Belt Express Phase 1 Ford County Interconnect ROW
 - Proposed Grain Belt Express Phase 1 HVDC Line ROW
 - Proposed Grain Belt Express Phase 1 Converter Station
 - Existing Saddle Substation
- Hydric Rating**
- Non-Hydric (0%)
 - Predominantly Non-Hydric (1 - 33%)
 - Predominantly Hydric (67 - 99%)



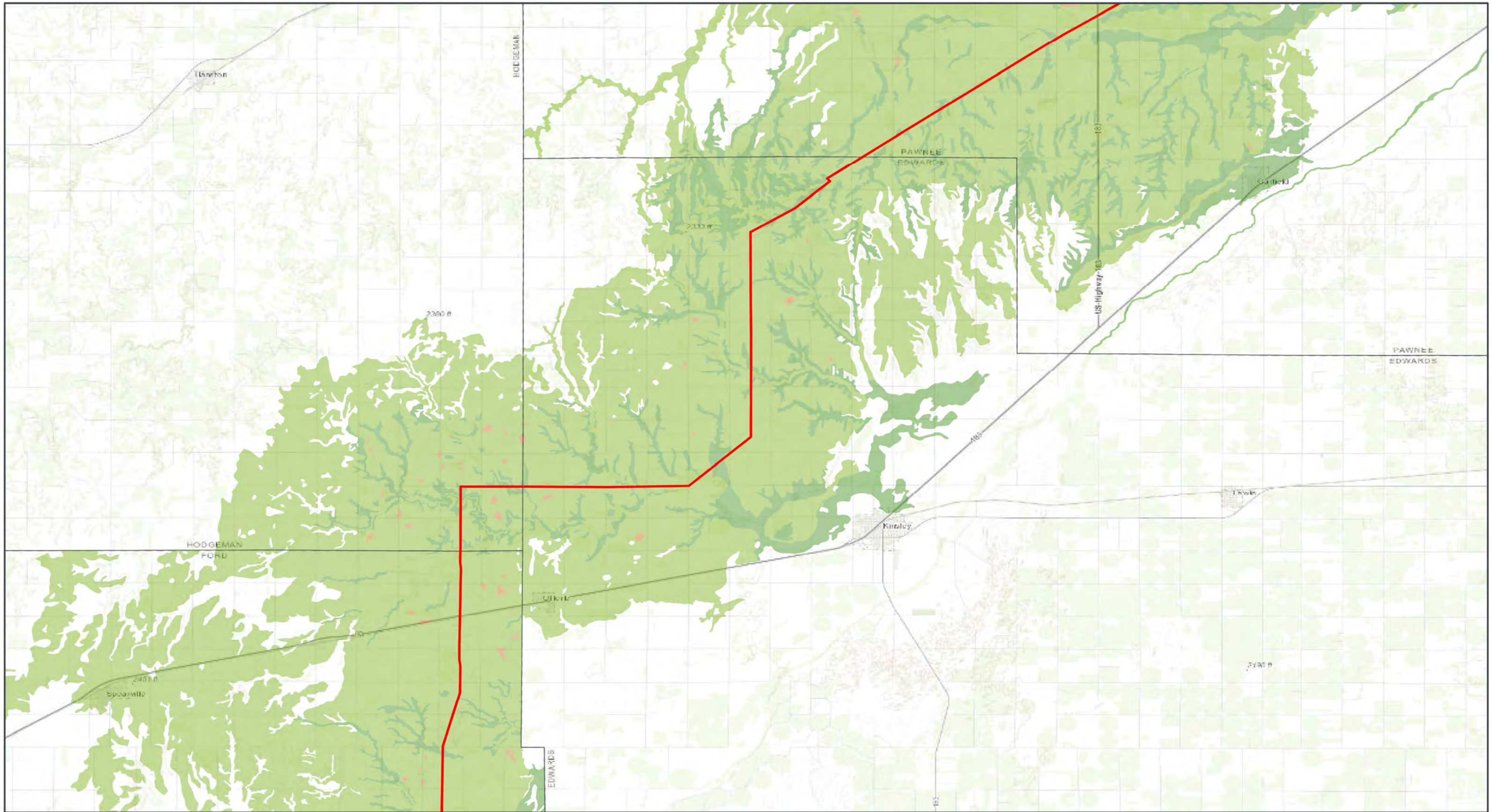
GCS North American 1983
37.7016°N 99.7416°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Hydric_Rating
App: Soil_Hydric_Rating

1:175,000

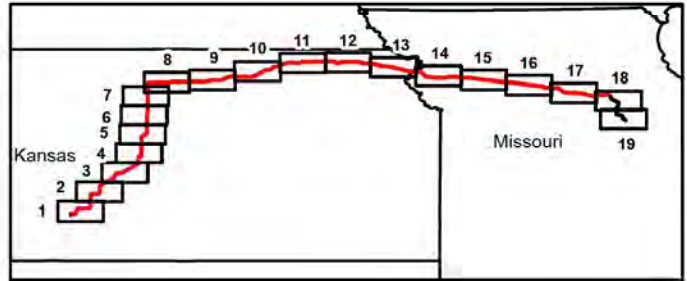
0 1.35 2.7 Miles
0 1.35 2.7 Kilometers

Kansas and Missouri



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
**HYDRIC
RATING**
Map 2 of 19

- Proposed Grain Belt Express Phase 1 HVDC Line ROW
- Hydric Rating**
- Non-Hydric (0%)
- Predominantly Non-Hydric (1 - 33%)
- Predominantly Hydric (67 - 99%)



GCS North American 1983
37.9765°N 99.4706°W

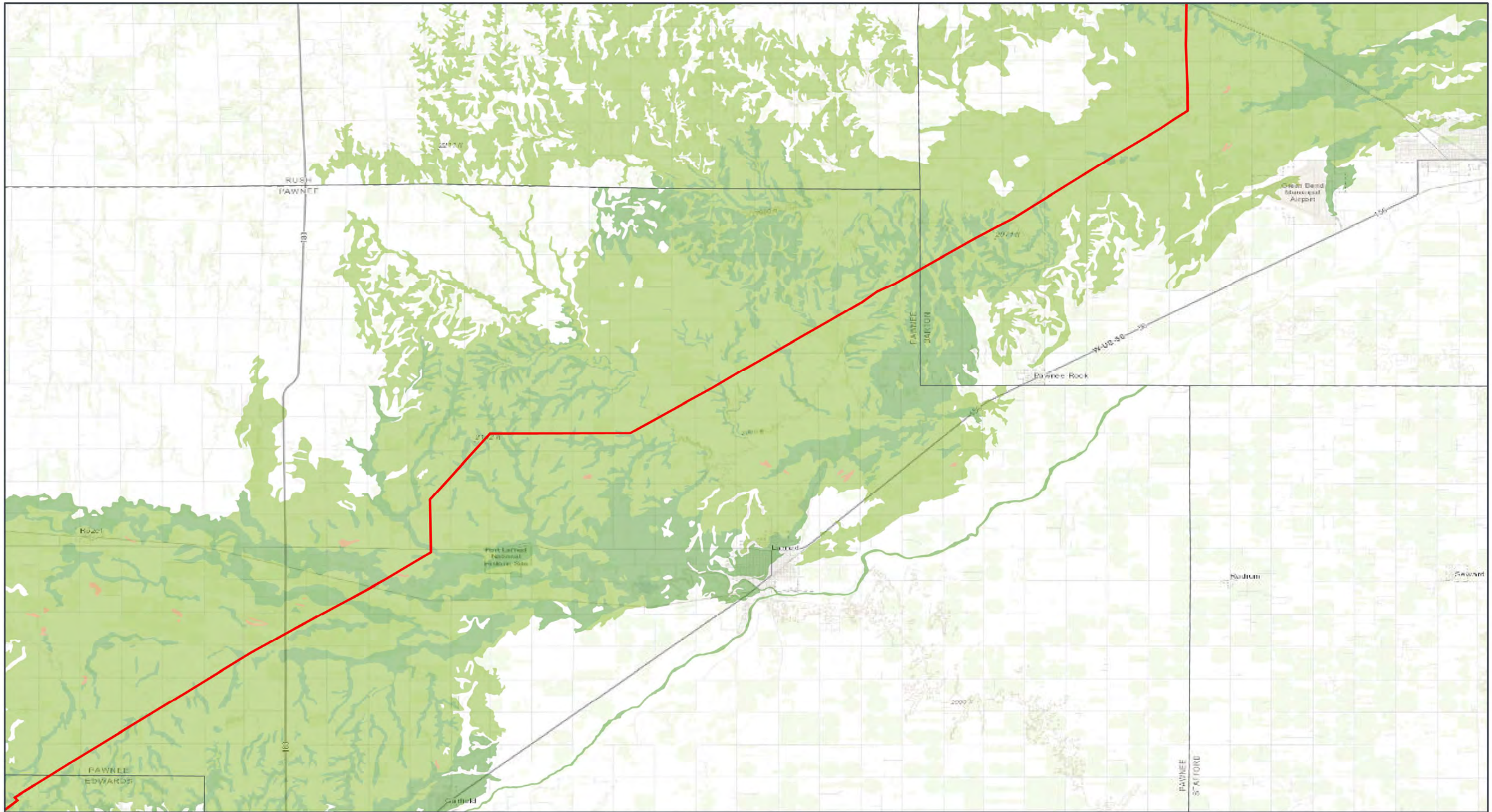


Kansas and Missouri

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Hydric_Rating
App: Soil_Hydric_Rating

1:175,000





GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT

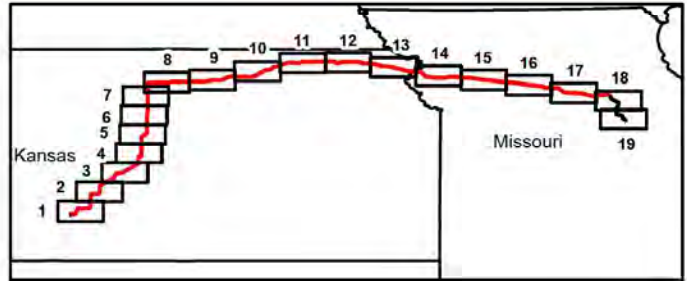
**HYDRIC
RATING**

Map 3 of 19

Proposed Grain Belt Express Phase 1
HVDC Line ROW

Hydric Rating

- Non-Hydric (0%)
- Predominantly Non-Hydric (1 - 33%)
- Predominantly Hydric (67 - 99%)



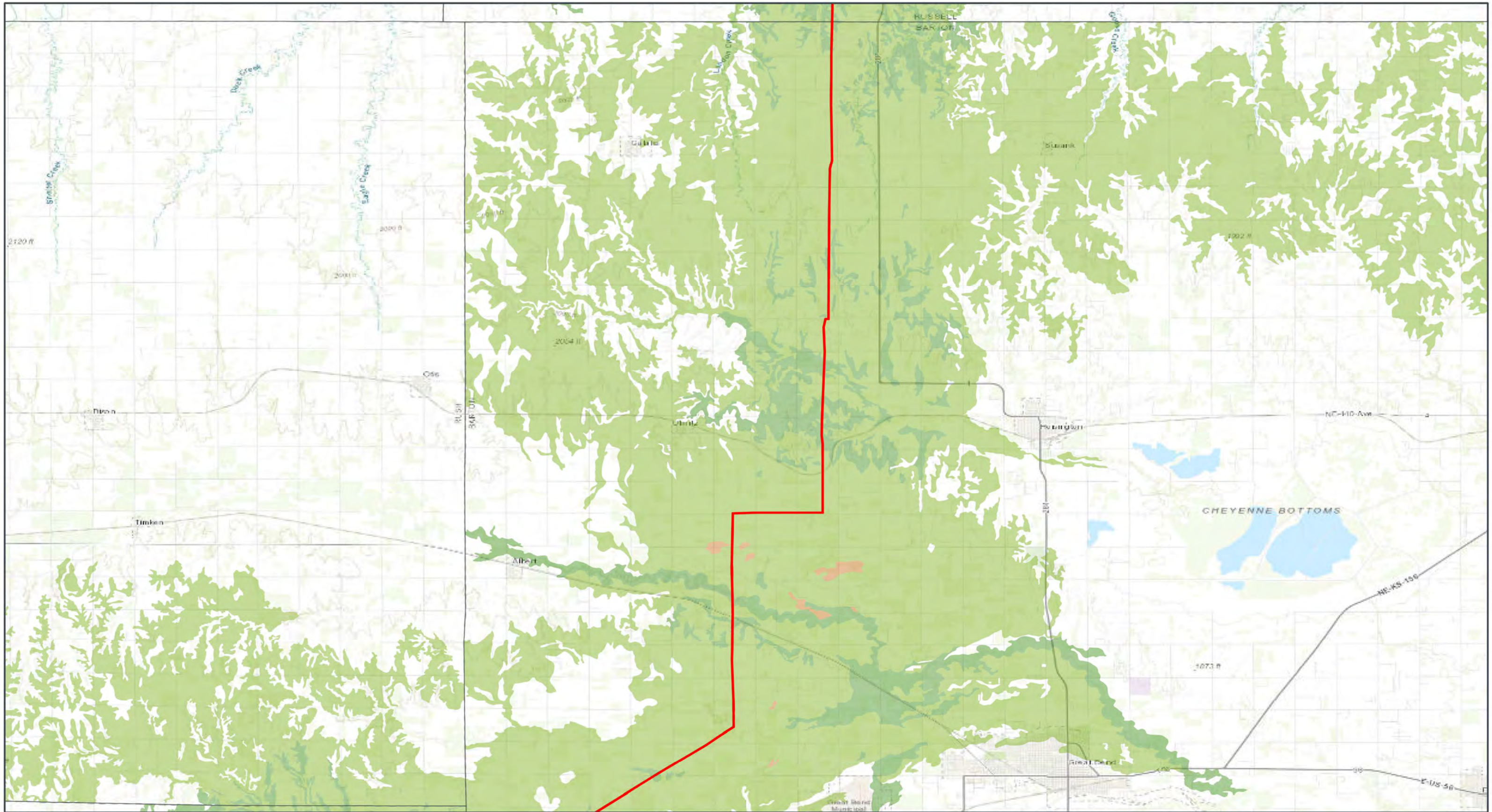
GCS North American 1983
38.2513°N 99.1096°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
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1:175,000

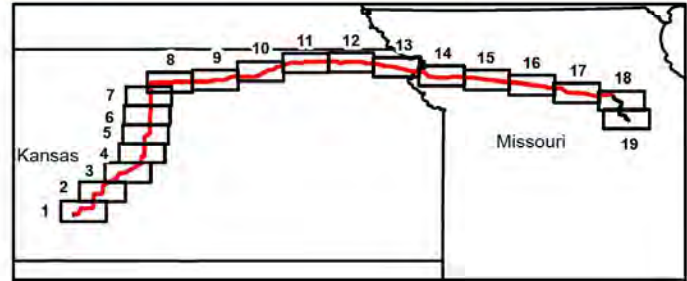
0 1.35 2.7 Miles
0 1.35 2.7 Kilometers

Kansas and Missouri



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
**HYDRIC
RATING**
Map 4 of 19

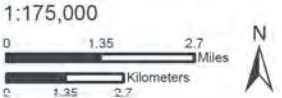
- Proposed Grain Belt Express Phase 1
HVDC Line ROW**
- Hydric Rating**
- Non-Hydric (0%)
 - Predominantly Non-Hydric (1 - 33%)
 - Predominantly Hydric (67 - 99%)

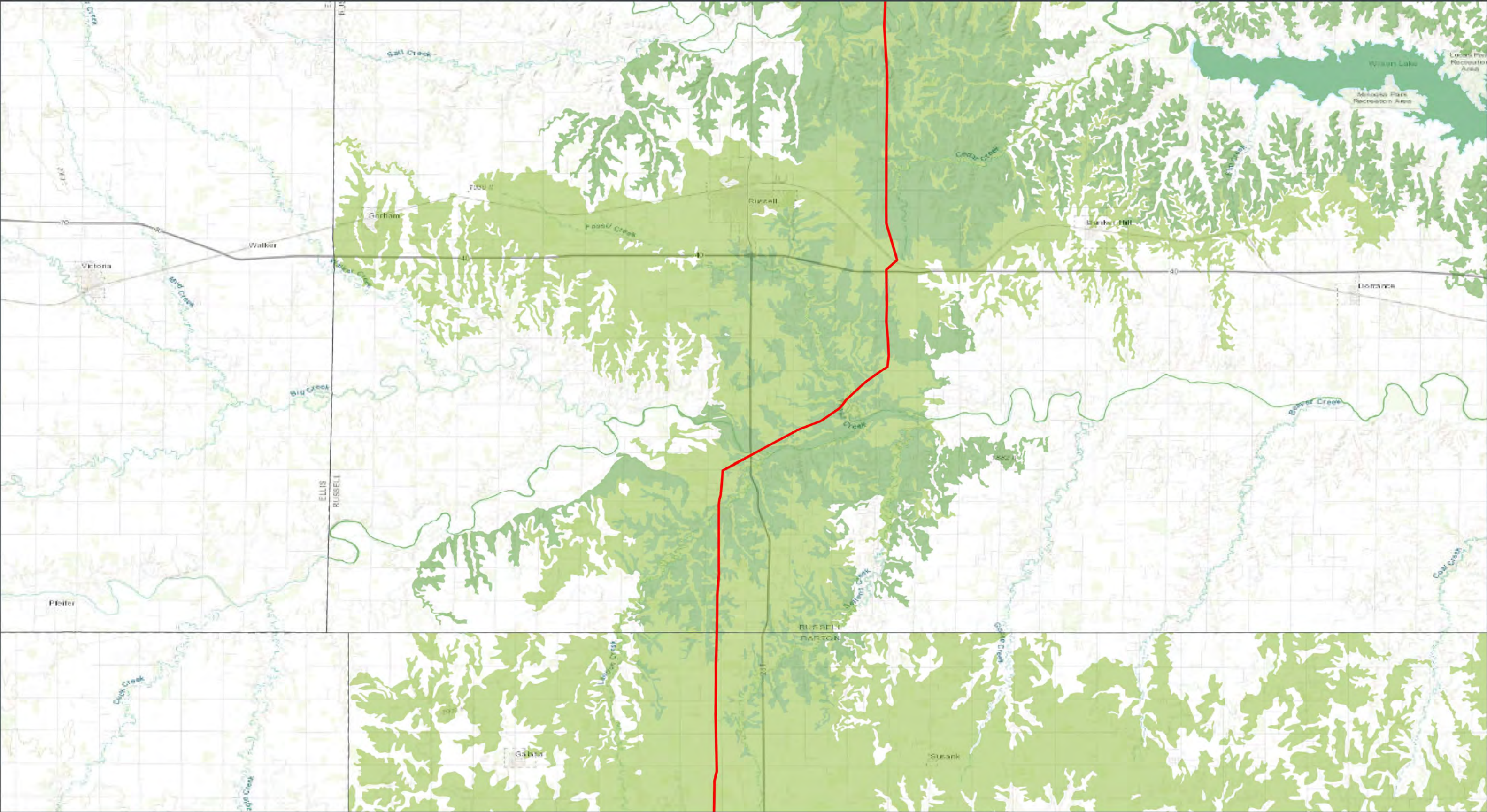


GCS North American 1983
38.5252°N 98.908°W



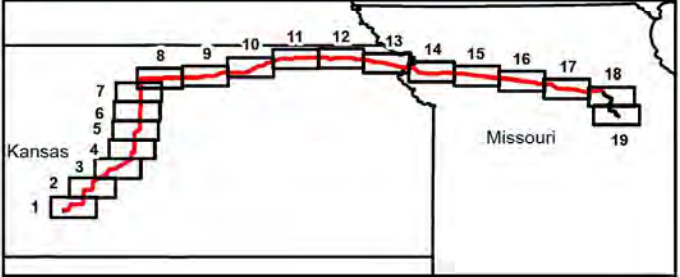
Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Hydric_Rating
App: Soil_Hydric_Rating





GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
**HYDRIC
RATING**
Map 5 of 19

- Proposed Grain Belt Express Phase 1
HVDC Line ROW
- Hydric Rating**
- Non-Hydric (0%)
- Predominantly Non-Hydric (1 - 33%)



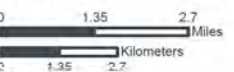
GCS North American 1983
38.797°N 98.8579°W

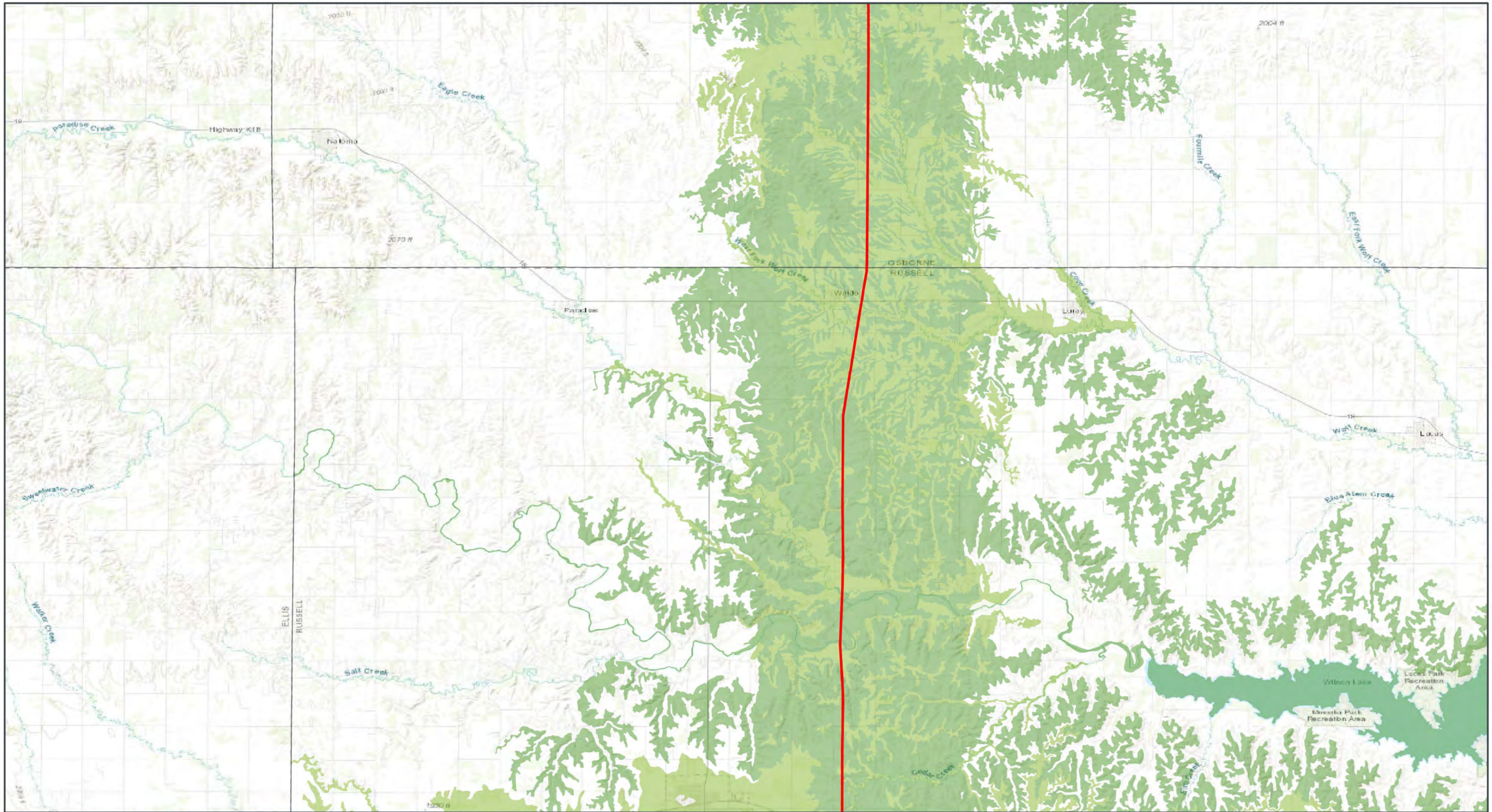


Kansas and Missouri

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Hydric_Rating
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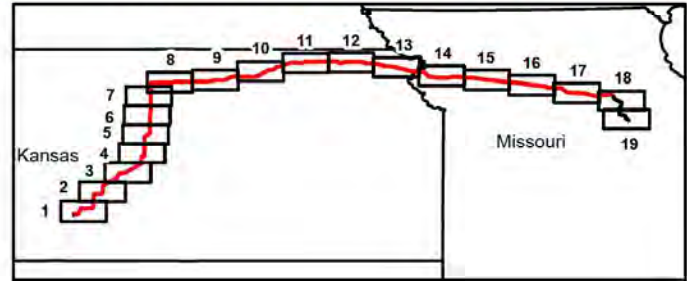
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GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
**HYDRIC
RATING**
Map 6 of 19

- Proposed Grain Belt Express Phase 1
HVDC Line ROW
- Hydric Rating**
- Non-Hydric (0%)
- Predominantly Non-Hydric (1 - 33%)



GCS North American 1983
39.0707°N 98.8374°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Hydric_Rating
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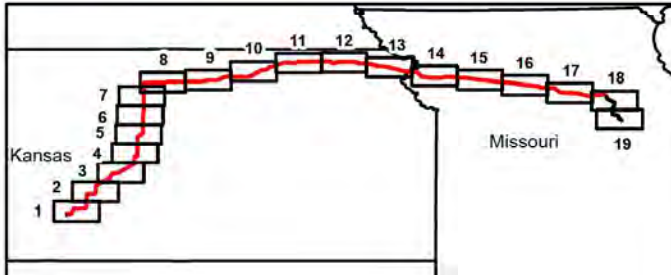
0 1.35 2.7 Miles
0 1.35 2.7 Kilometers

Kansas and Missouri



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
**HYDRIC
RATING**
Map 7 of 19

- Proposed Grain Belt Express Phase 1
HVDC Line ROW
- Hydric Rating**
- Non-Hydric (0%)
- Predominantly Non-Hydric (1 - 33%)



GCS North American 1983
39.3414°N 98.8091°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Hydric_Rating
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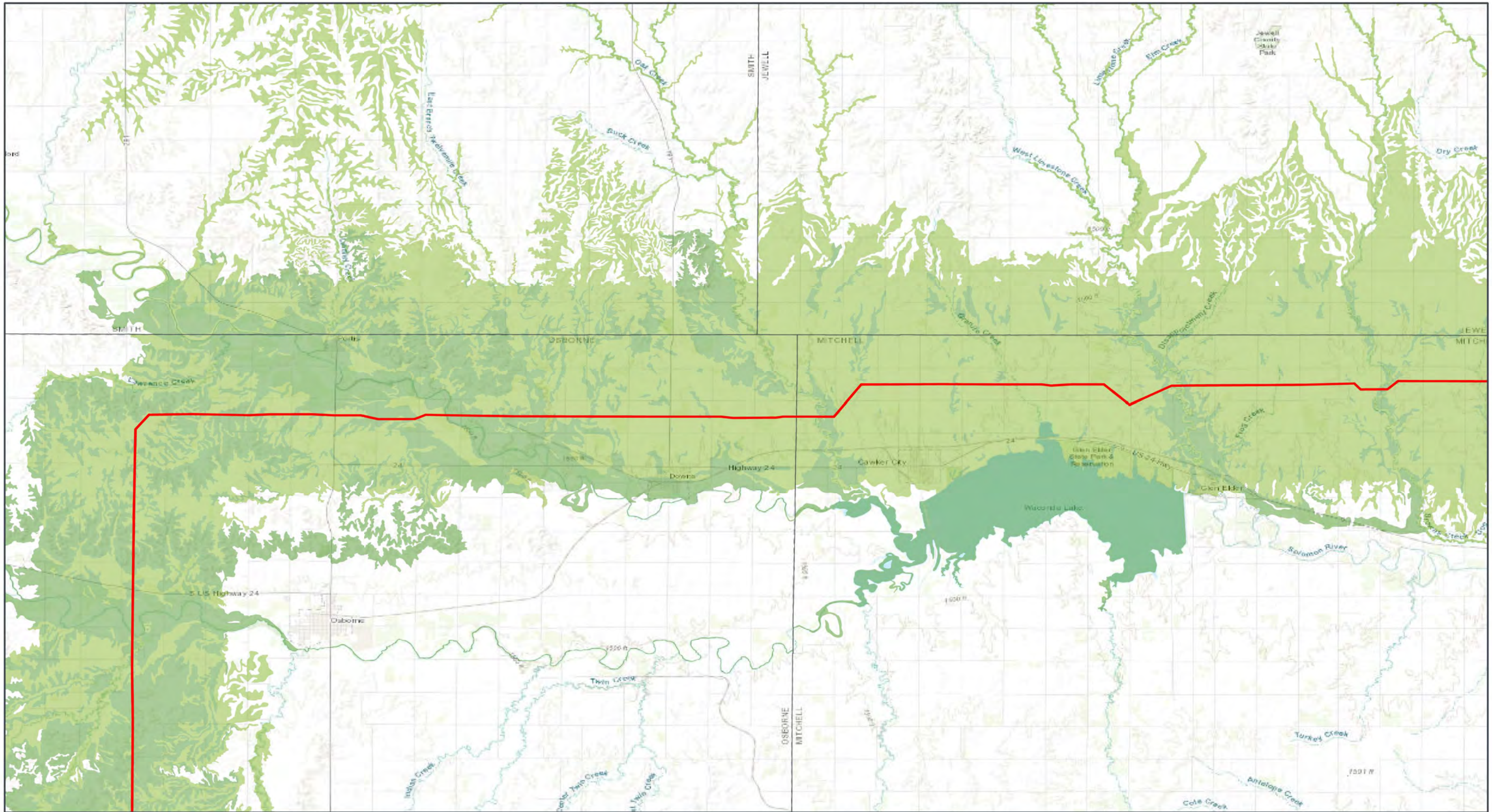
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0 1.35 2.7 Kilometers

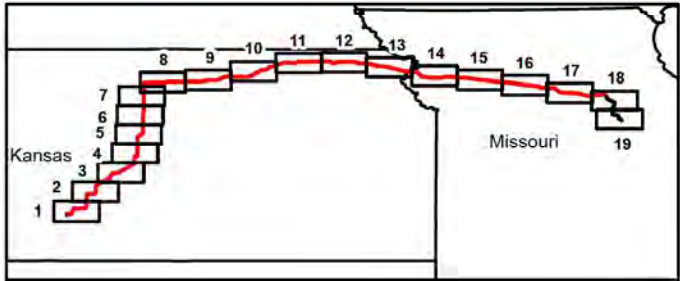
N

Kansas and Missouri



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
**HYDRIC
RATING**
Map 8 of 19

- Proposed Grain Belt Express Phase 1 HVDC Line ROW
- Hydric Rating**
- Non-Hydric (0%)
- Predominantly Non-Hydric (1 - 33%)



GCS North American 1983
39.5352°N 98.5101°W

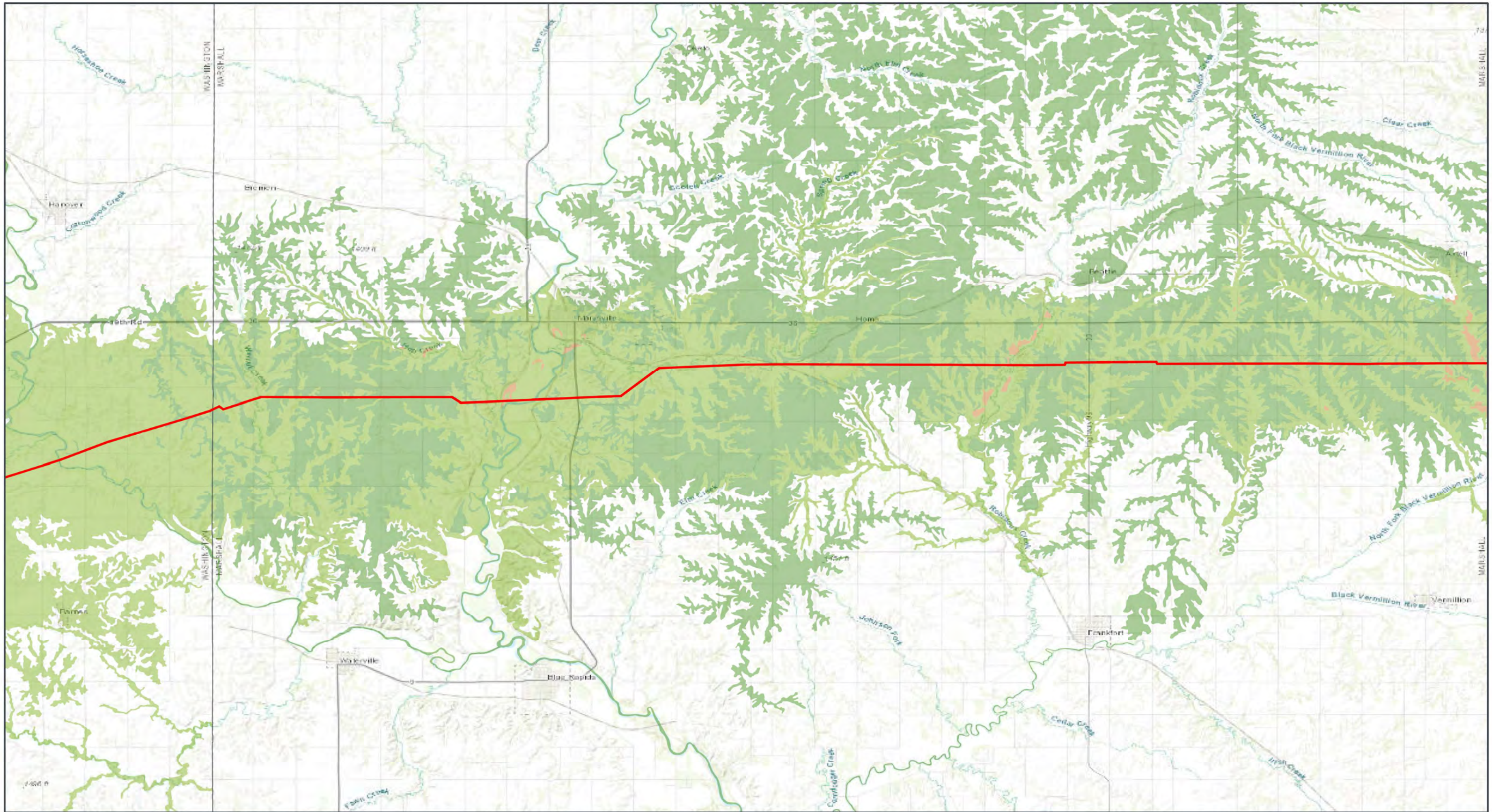
Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Hydric_Rating
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0 1.35 2.7 Miles

0 1.35 2.7 Kilometers

Kansas and Missouri

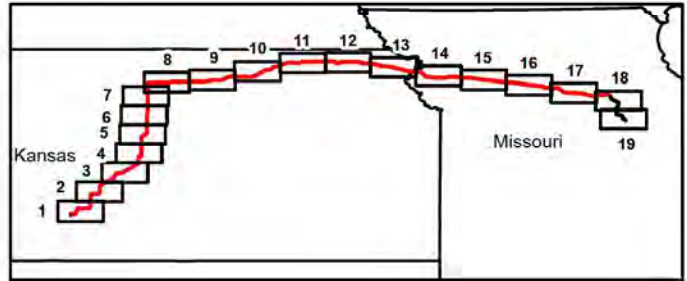


GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT

**HYDRIC
RATING**

Map 11 of 19

- Proposed Grain Belt Express Phase 1 HVDC Line ROW
- Hydric Rating
 - Non-Hydric (0%)
 - Predominantly Non-Hydric (1 - 33%)
 - Predominantly Hydric (67 - 99%)



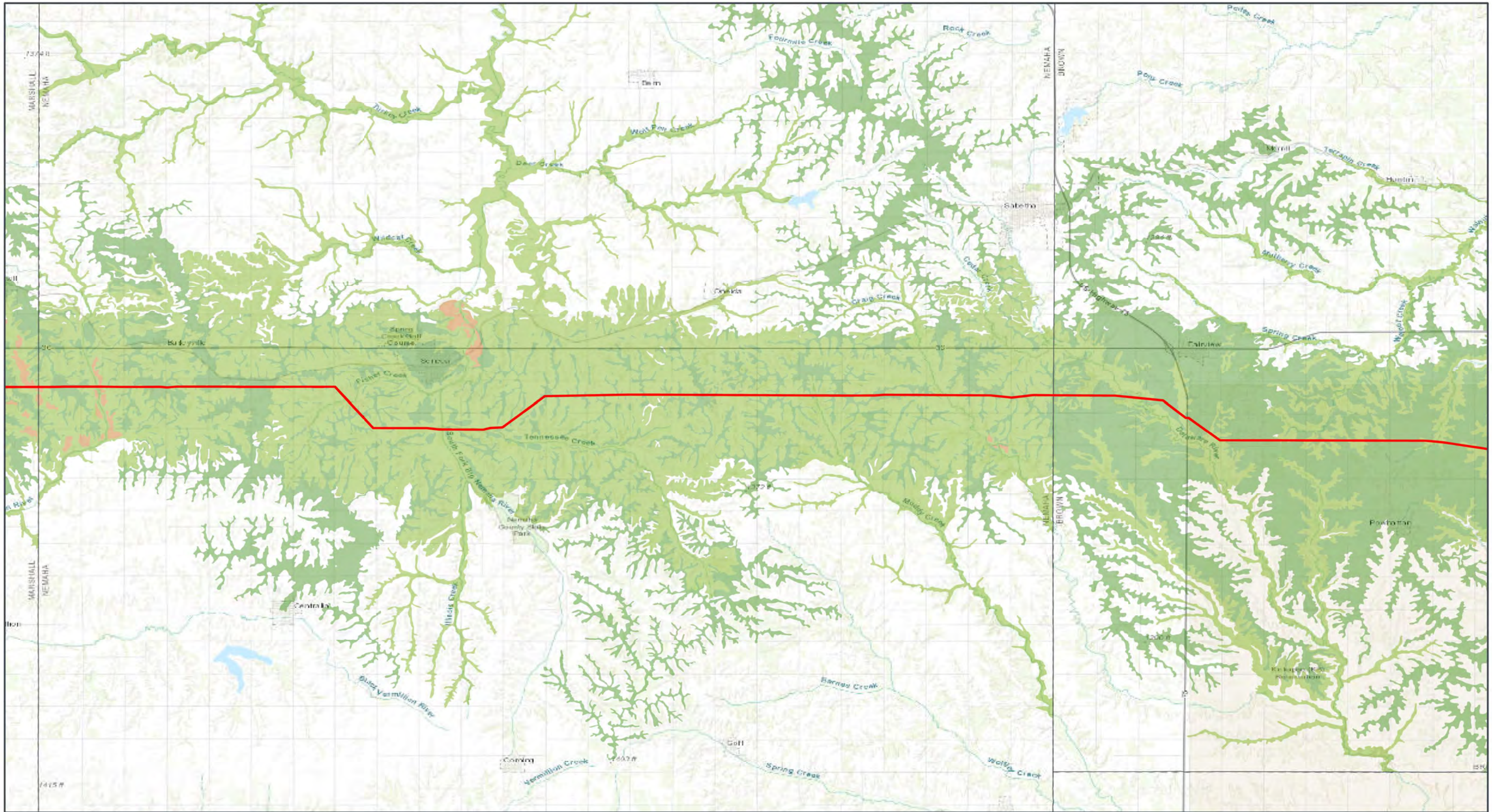
GCS North American 1983
39.8039°N 96.5694°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
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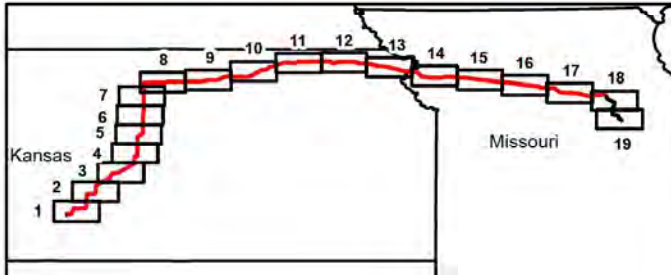
0 1.35 2.7 Miles
0 1.35 2.7 Kilometers

Kansas and Missouri



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
**HYDRIC
RATING**
Map 12 of 19

- Proposed Grain Belt Express Phase 1 HVDC Line ROW
- Hydric Rating**
- Non-Hydric (0%)
- Predominantly Non-Hydric (1 - 33%)
- Predominantly Hydric (67 - 99%)



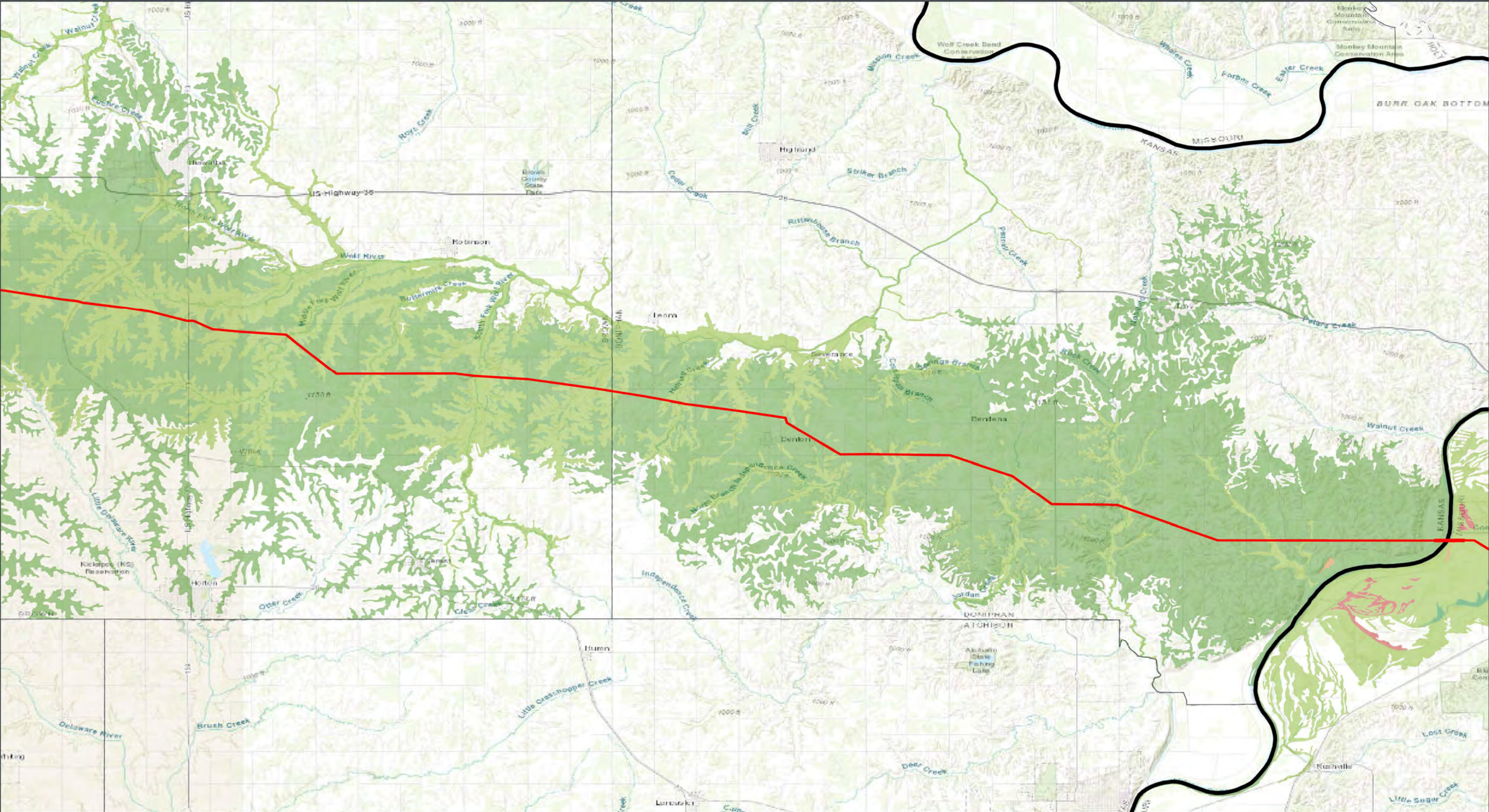
GCS North American 1983
39.8147°N 95.9252°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Hydric_Rating
App: Soil_Hydric_Rating

1:175,000

0 1.35 2.7 Miles
0 1.35 2.7 Kilometers

Kansas and Missouri



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT

**HYDRIC
RATING**

Map 13 of 19

Proposed Grain Belt Express Phase 1
HVDC Line ROW

Hydric Rating

- Non-Hydric (0%)
- Predominantly Non-Hydric (1 - 33%)
- Predominantly Hydric (67 - 99%)
- Hydric (100%)

GCS North American 1983
39.7469°N 95.281°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Hydric_Rating
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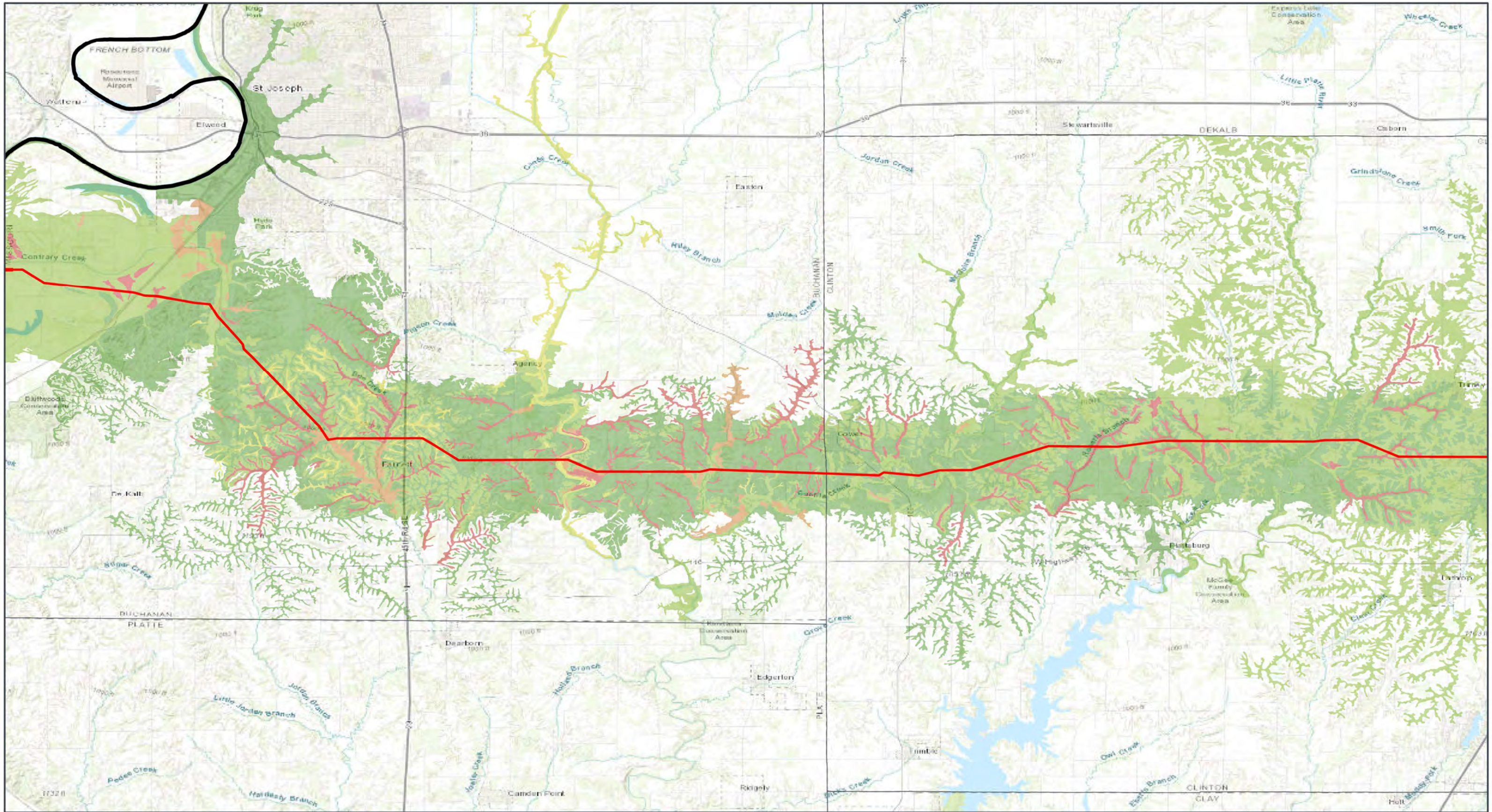
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0 1.35 2.7 Miles

0 1.35 2.7 Kilometers

Kansas and Missouri

Grain Belt Express
An Iovenergy Project

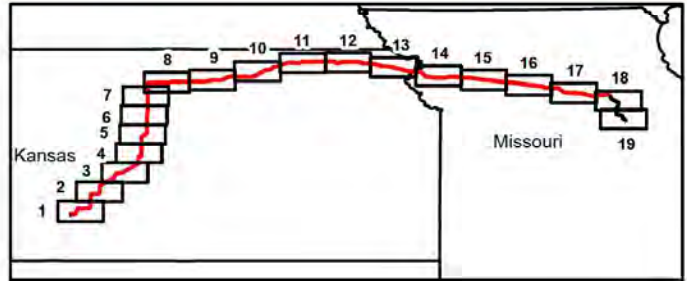


GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT

**HYDRIC
RATING**

Map 14 of 19

- Proposed Grain Belt Express Phase 1 HVDC Line ROW
- Hydric Rating
 - Non-Hydric (0%)
 - Predominantly Non-Hydric (1 - 33%)
 - Partially Hydric (34 - 66%)
 - Predominantly Hydric (67 - 99%)
 - Hydric (100%)



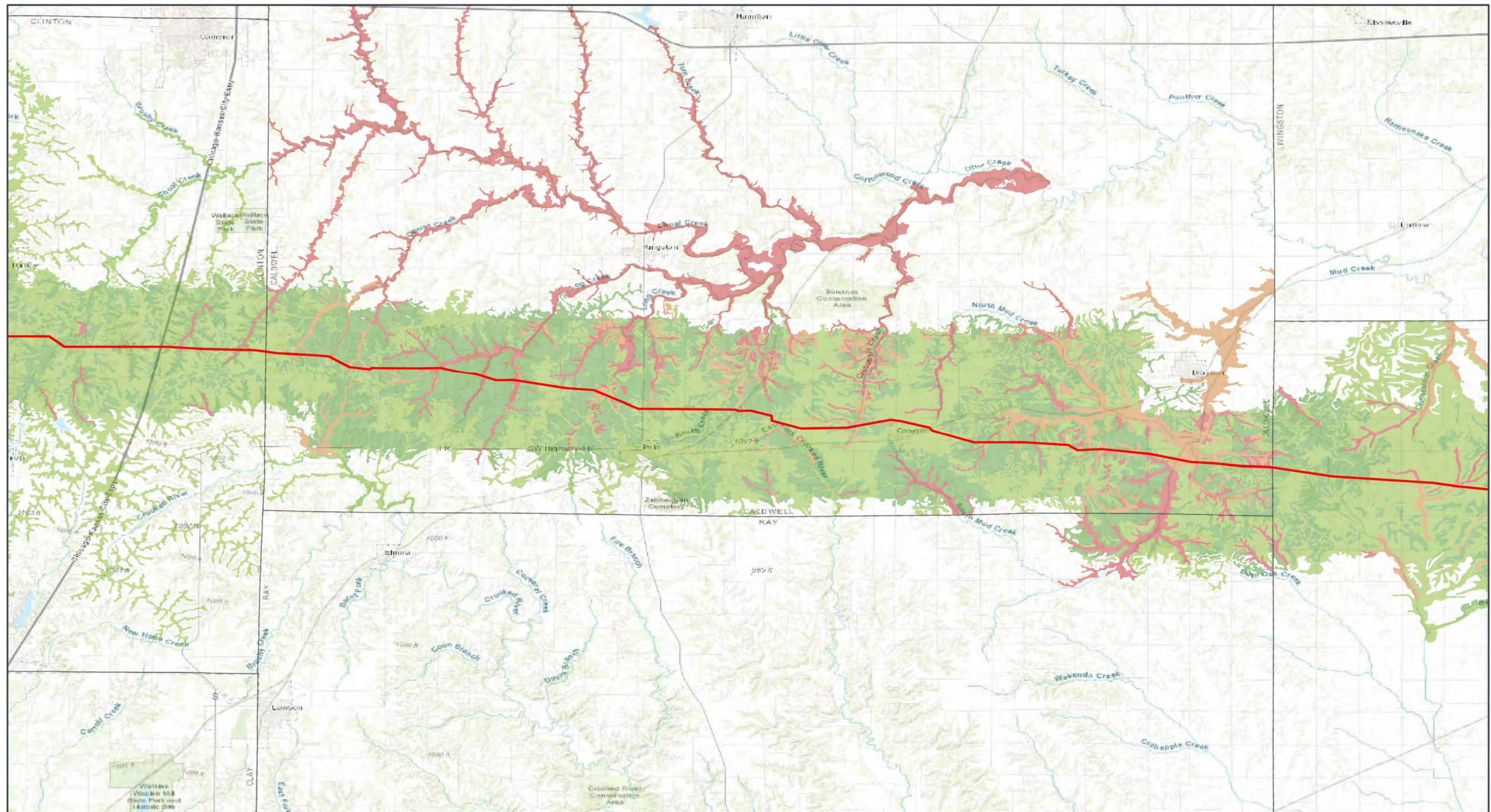
GCS North American 1983
39.6264°N 94.6368°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Hydric_Rating
App: Soil_Hydric_Rating

1:175,000

0 1.35 2.7 Miles
0 1.35 2.7 Kilometers






Kansas and Missouri

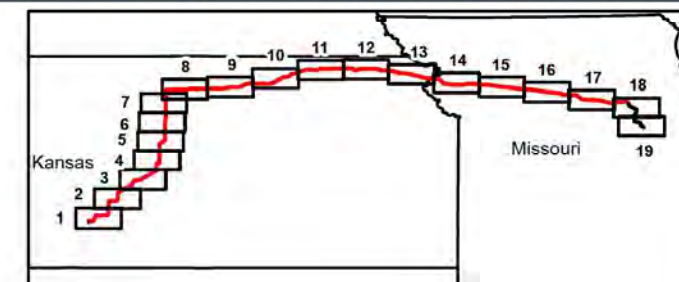


**GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT**

HYDRIC
RATING

Map 15 of 19

-  Proposed Grain Belt Express Phase 1
HVDC Line ROW
- Hydric Rating**
-  Non-Hydric (0%)
-  Predominantly Non-Hydric (1 - 33%)
-  Predominantly Hydric (67 - 99%)
-  Hydric (100%)



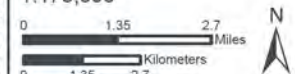
GCS North American 1983
39.5723°N 93.9926°W

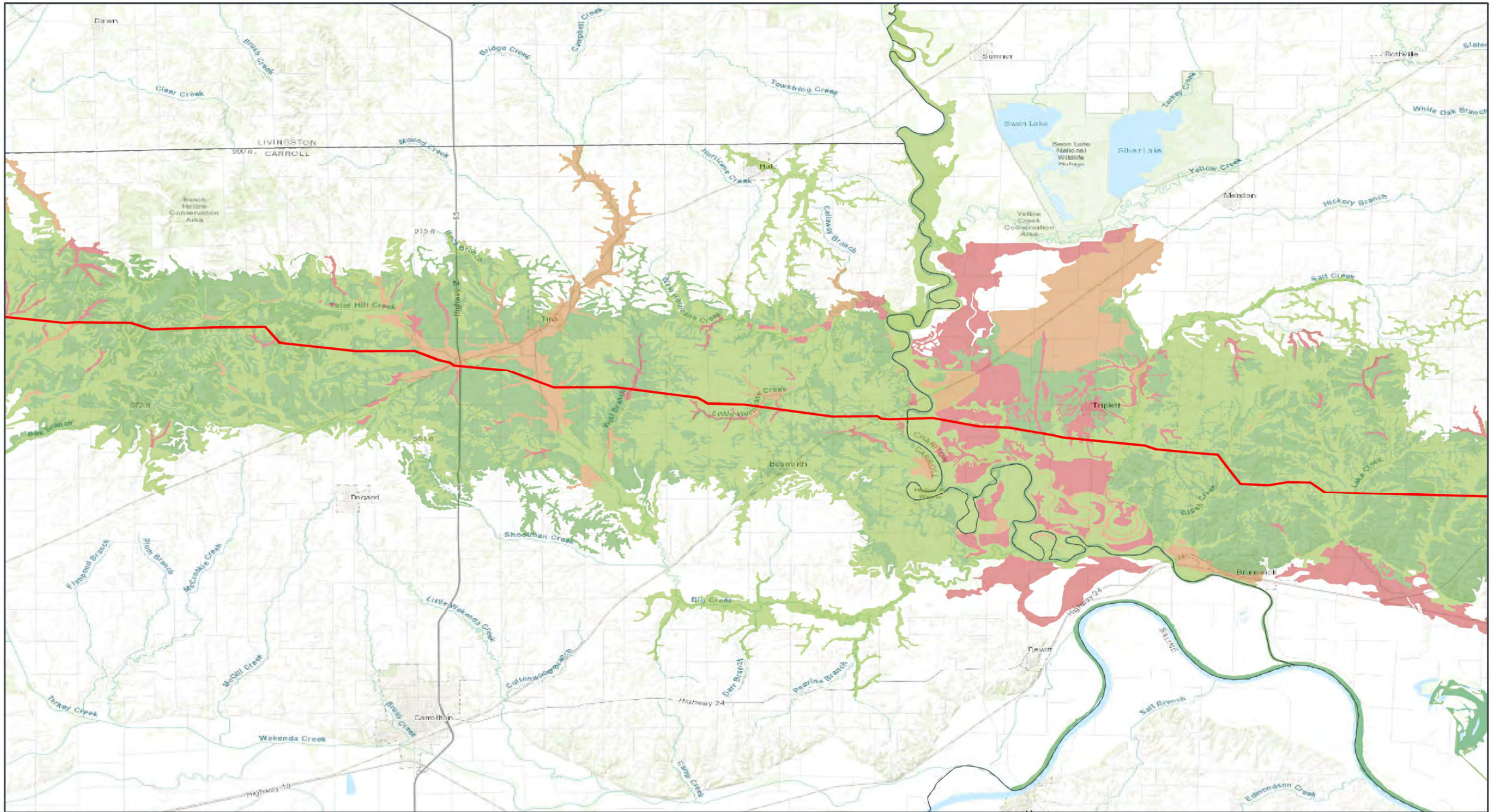


Kansas and Missouri

1:175.000

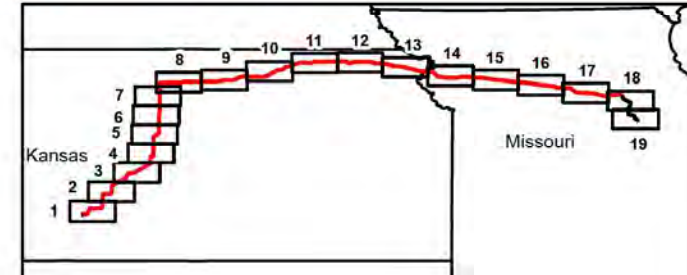
Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Hydric_Rating
Appx: Soil_Hydric_Rating





GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
**HYDRIC
RATING**
Map 16 of 19

- Proposed Grain Belt Express Phase 1
HVDC Line ROW
- Hydric Rating**
- Non-Hydric (0%)
- Predominantly Non-Hydric (1 - 33%)
- Predominantly Hydric (67 - 99%)
- Hydric (100%)



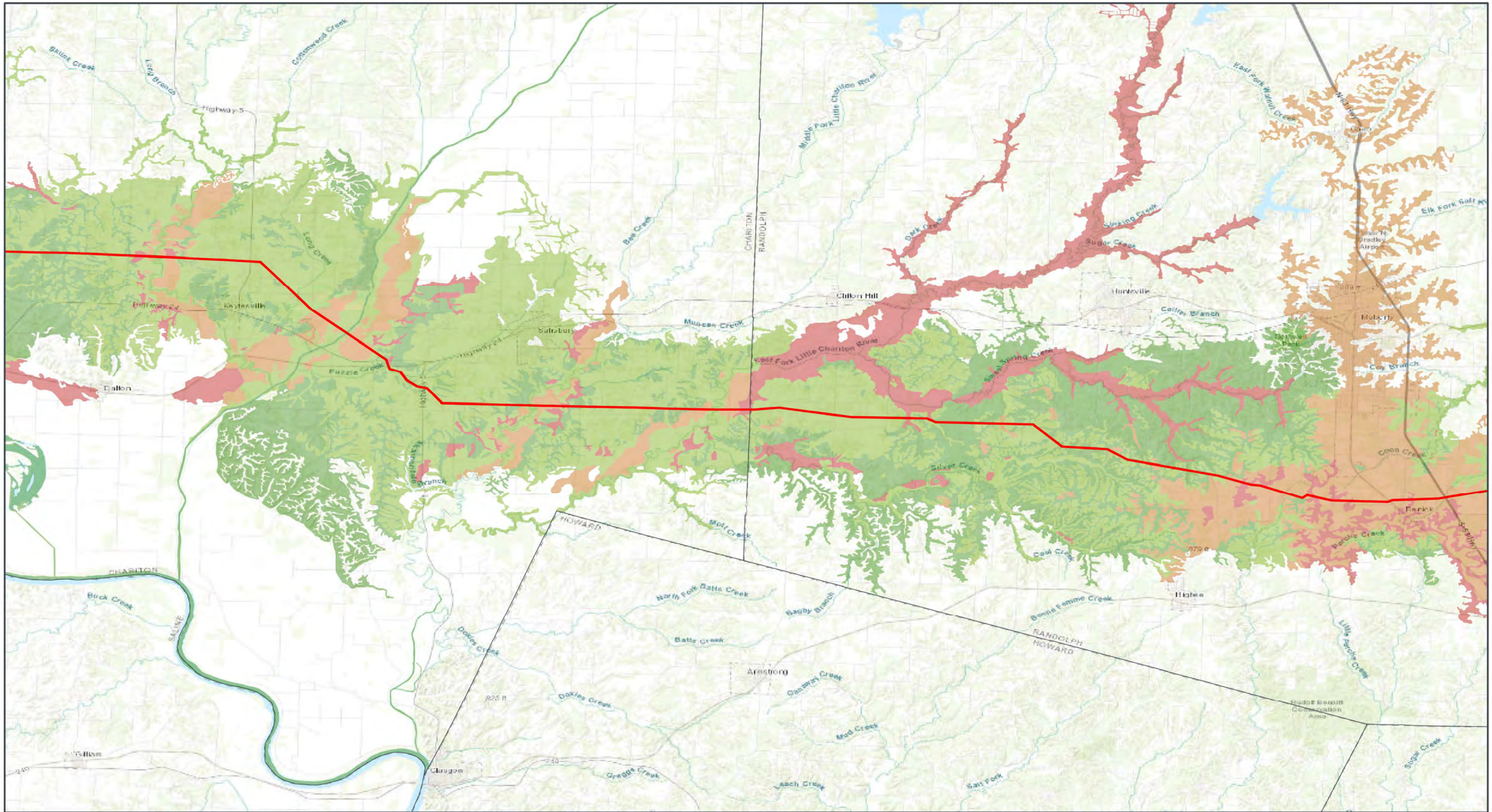
GCS North American 1983
39.498°N 93.3484°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Hydric_Rating
App: Soil_Hydric_Rating

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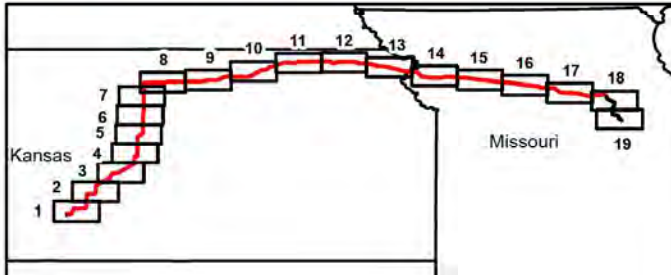
0 1.35 2.7 Miles
0 1.35 2.7 Kilometers

Kansas and Missouri



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
**HYDRIC
RATING**
Map 17 of 19

- Proposed Grain Belt Express Phase 1
HVDC Line ROW
- Hydric Rating**
- Non-Hydric (0%)
- Predominantly Non-Hydric (1 - 33%)
- Predominantly Hydric (67 - 99%)
- Hydric (100%)



GCS North American 1983
39.3895°N 92.7062°W

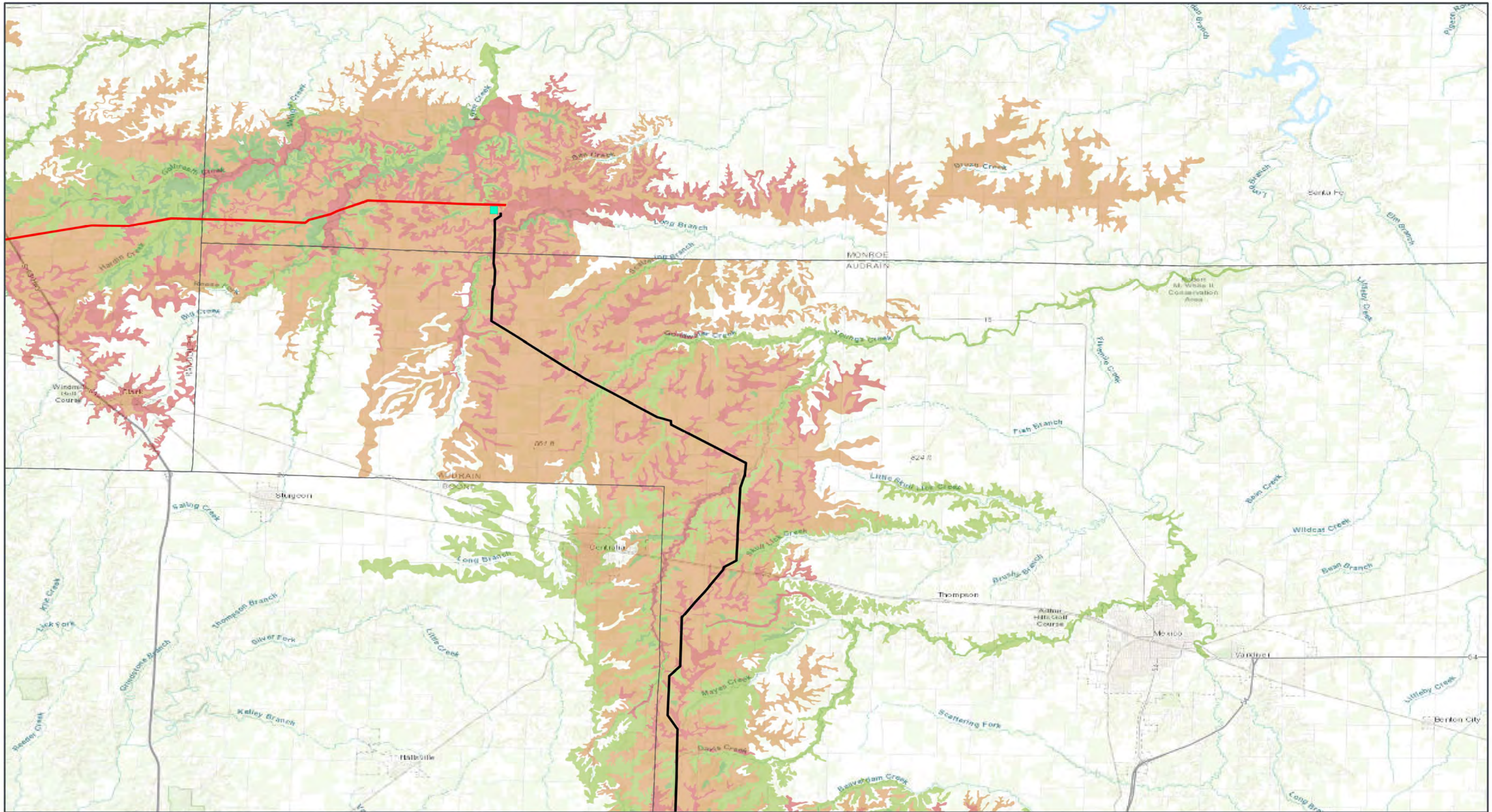
Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Hydric_Rating
App: Soil_Hydric_Rating

1:175,000

0 1.35 2.7 Miles

0 1.35 2.7 Kilometers

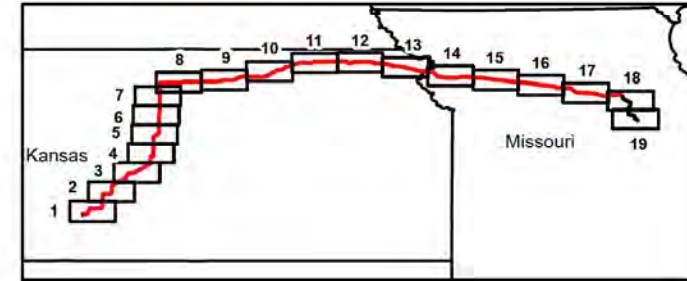
Kansas and Missouri



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
**HYDRIC
RATING**
Map 18 of 19

- Proposed Grain Belt Express Phase 1 HVDC Line ROW
- Proposed Grain Belt Express Phase 1 Tiger Connector ROW
- Proposed Grain Belt Express Phase 1 Converter Station

- Hydric Rating**
- Non-Hydric (0%)
 - Predominantly Non-Hydric (1 - 33%)
 - Predominantly Hydric (67 - 99%)
 - Hydric (100%)



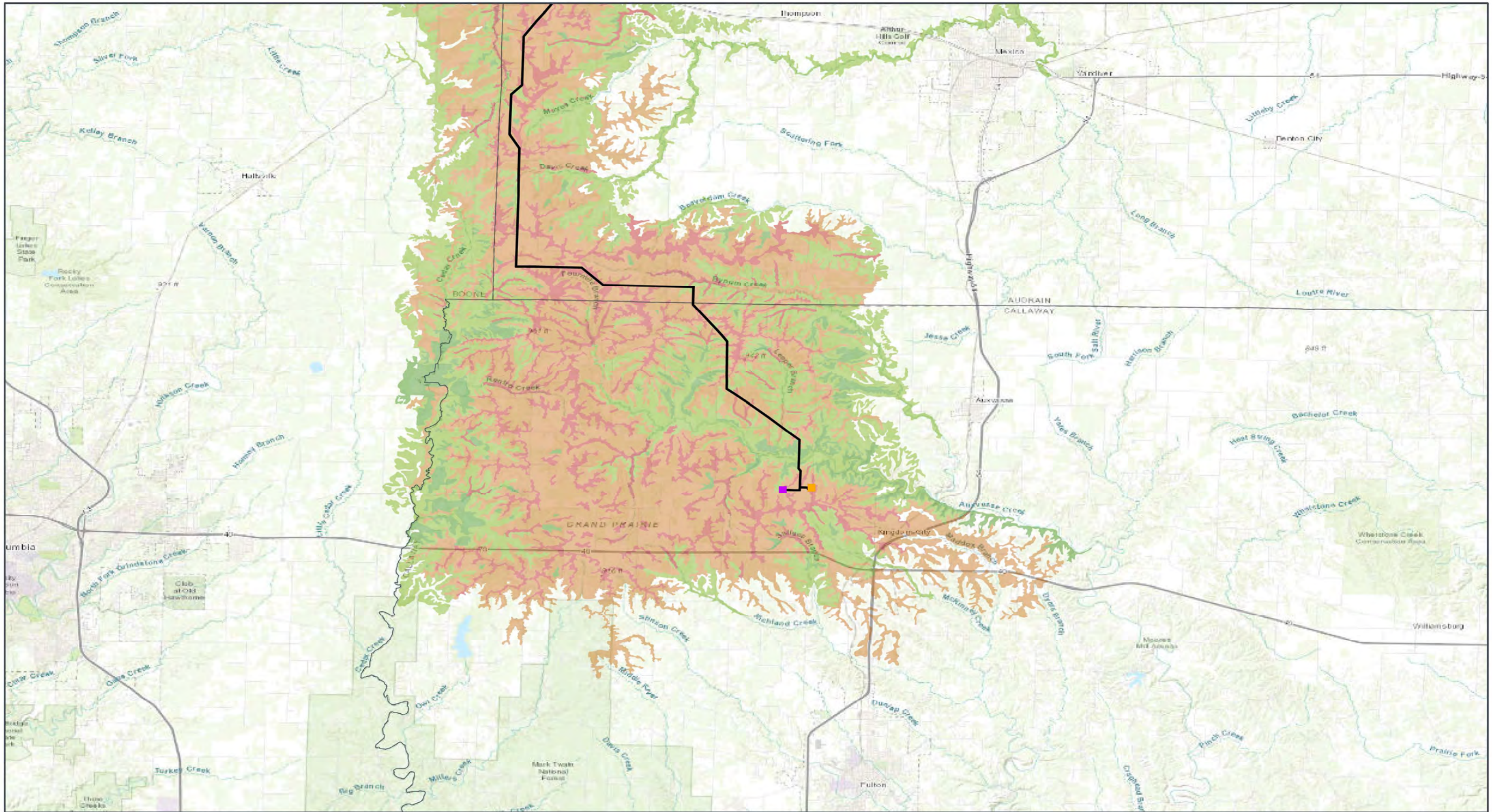
GCS North American 1983
39.2746°N 92.068°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Hydric_Rating
App: Soil_Hydric_Rating

1:175,000

0 1.35 2.7 Miles
0 1.35 2.7 Kilometers

Kansas and Missouri



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT

**HYDRIC
RATING**

Map 19 of 19

Proposed Grain Belt Express Phase 1
Tiger Connector ROW

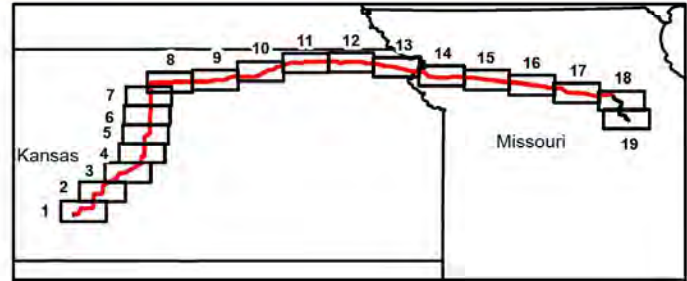
Existing McCredie Substation

Existing Burns Substation

Hydric Rating

- Non-Hydric (0%)
- Predominantly Non-Hydric (1 - 33%)
- Predominantly Hydric (67 - 99%)
- Hydric (100%)

Grain Belt Express
An Iovenergy Project



GCS North American 1983
39.0183°N 91.9977°W

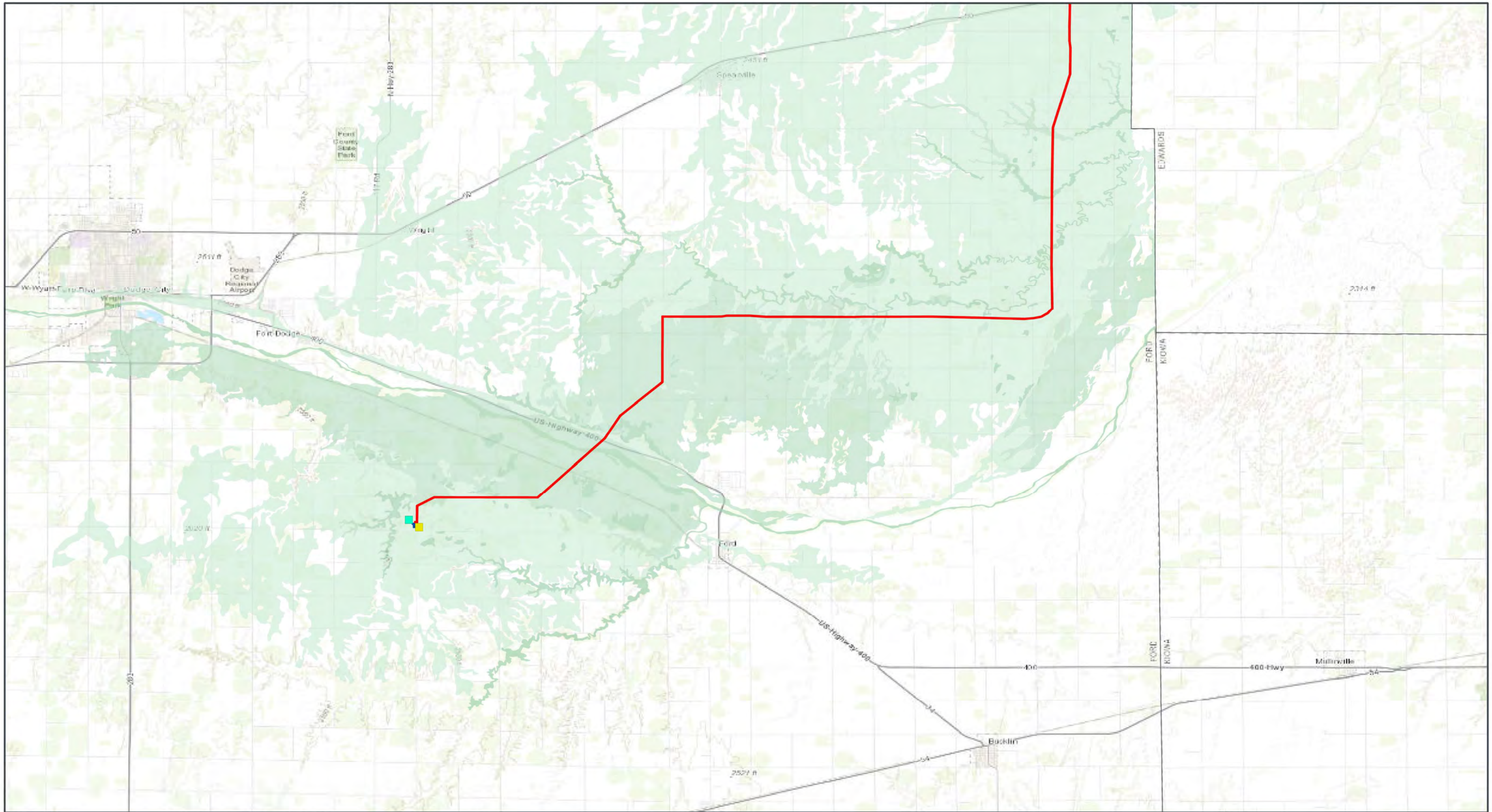
Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Hydric_Rating
App: Soil_Hydric_Rating

1:175,000



0 1.35 2.7 Miles

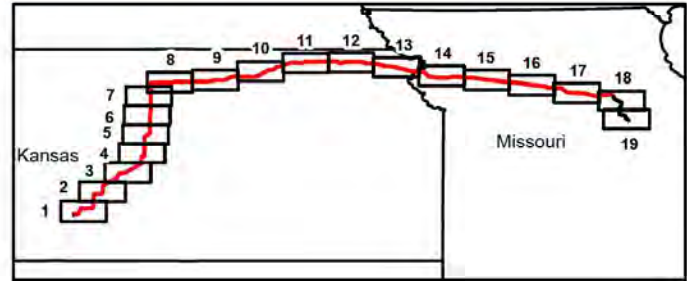
0 1.35 2.7 Kilometers

Kansas and Missouri



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
**FARMLAND
CLASSIFICATION**
Map 1 of 19

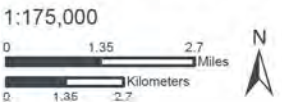
- | | |
|--|--|
|  Proposed Grain Belt Express Phase 1 Converter Station |  Existing Saddle Substation |
|  Proposed Grain Belt Express Phase 1 Ford County Interconnect ROW | Farmland Classification |
|  Proposed Grain Belt Express Phase 1 HVDC Line ROW |  All areas are prime farmland |
| |  Farmland of statewide importance |
| |  Not prime farmland |

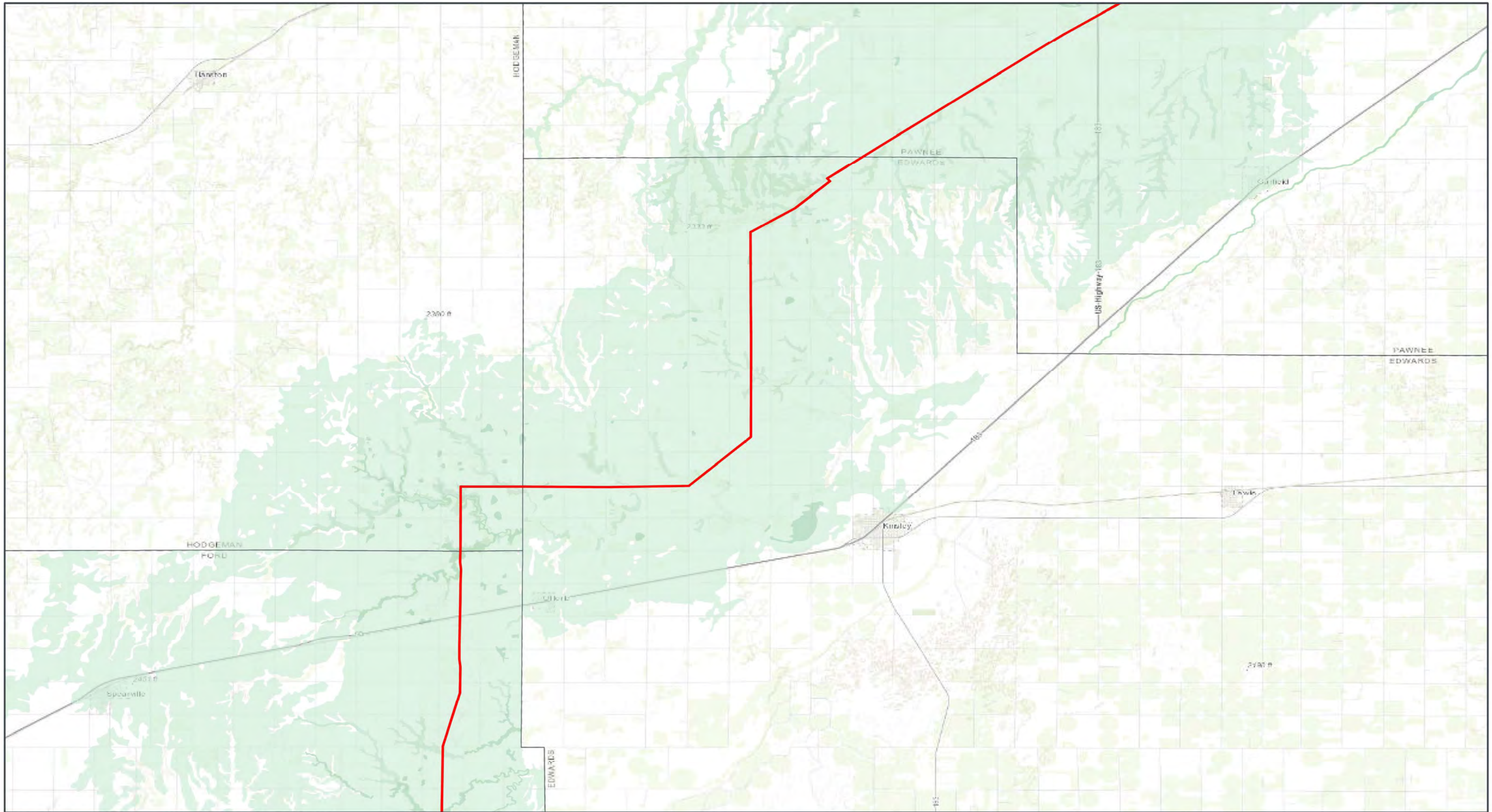


GCS North American 1983
37.7016°N 99.7416°W







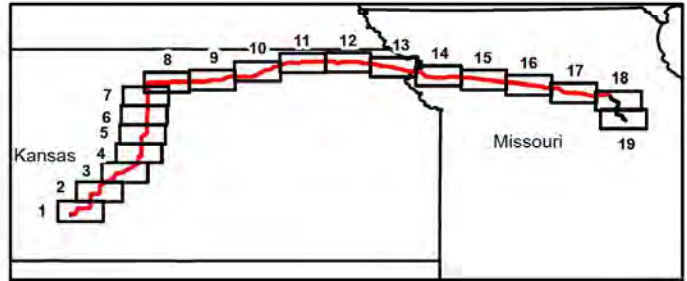
Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694558
Layout: Soil_Farmland_Classification
Apix: Soil_Farmland_Classification





GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
**FARMLAND
CLASSIFICATION**
Map 2 of 19

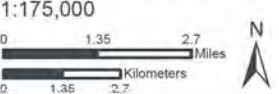
-  Proposed Grain Belt Express Phase 1 HVDC Line ROW
- Farmland Classification**
-  All areas are prime farmland
-  Farmland of statewide importance
-  Not prime farmland

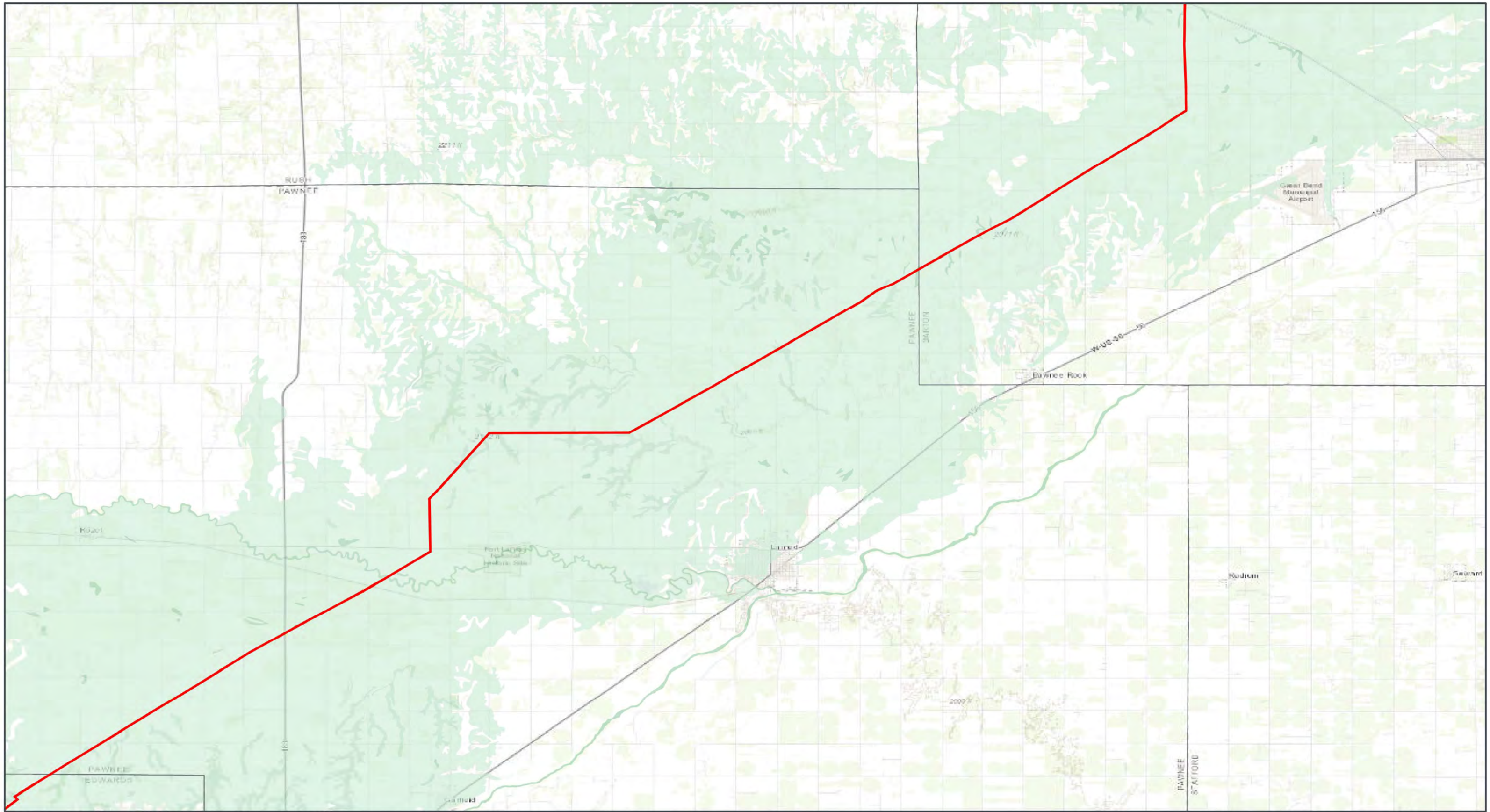


GCS North American 1983
37.9765°N 99.4706°W



Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Farmland_Classification
Apix: Soil_Farmland_Classification





GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT

**FARMLAND
CLASSIFICATION**

Map 3 of 19

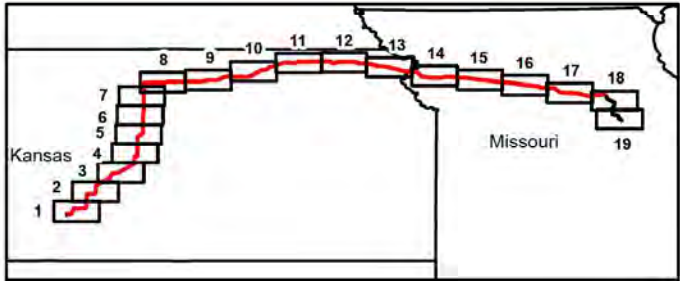
Proposed Grain Belt Express Phase 1
HVDC Line ROW

Farmland Classification

All areas are prime farmland

Farmland of statewide importance

Not prime farmland



GCS North American 1983
38.2513°N 99.1096°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Farmland_Classification
Apix: Soil_Farmland_Classification

1:175,000

0 1.35 2.7


Miles

0 1.35 2.7

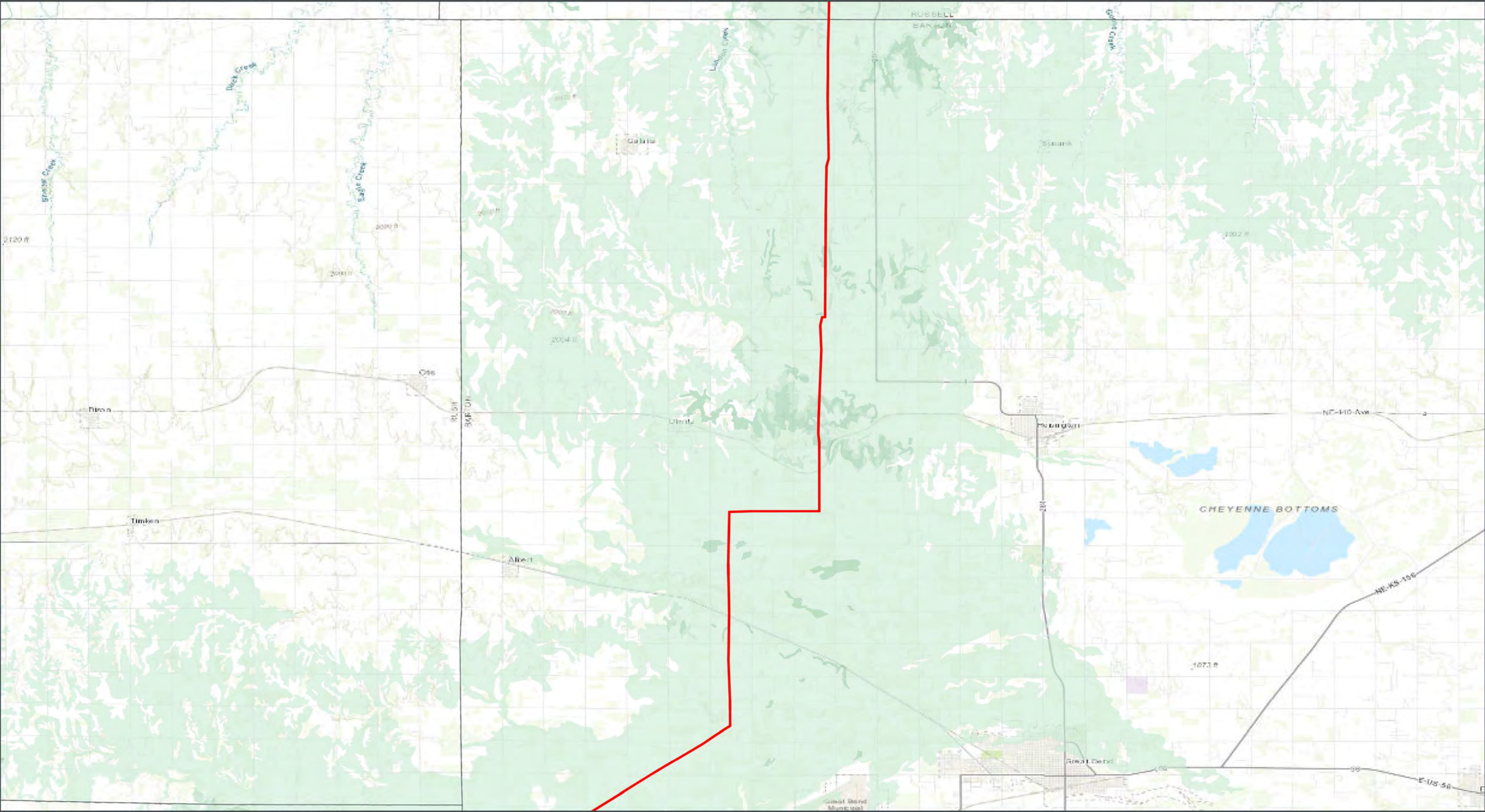
Kilometers

N





Kansas and Missouri

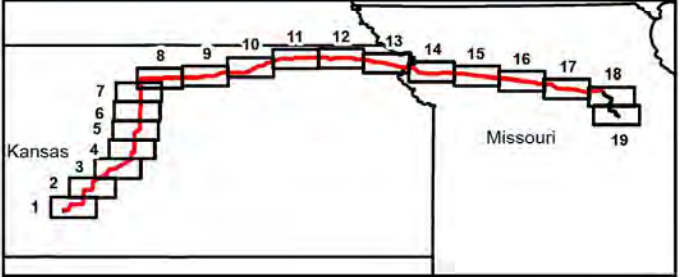


Grain Belt Express
An Iovenergy Project



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
**FARMLAND
CLASSIFICATION**
Map 4 of 19

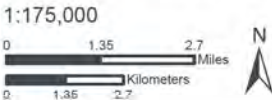
-  Proposed Grain Belt Express Phase 1 HVDC Line ROW
- Farmland Classification**
-  All areas are prime farmland
-  Farmland of statewide importance
-  Not prime farmland

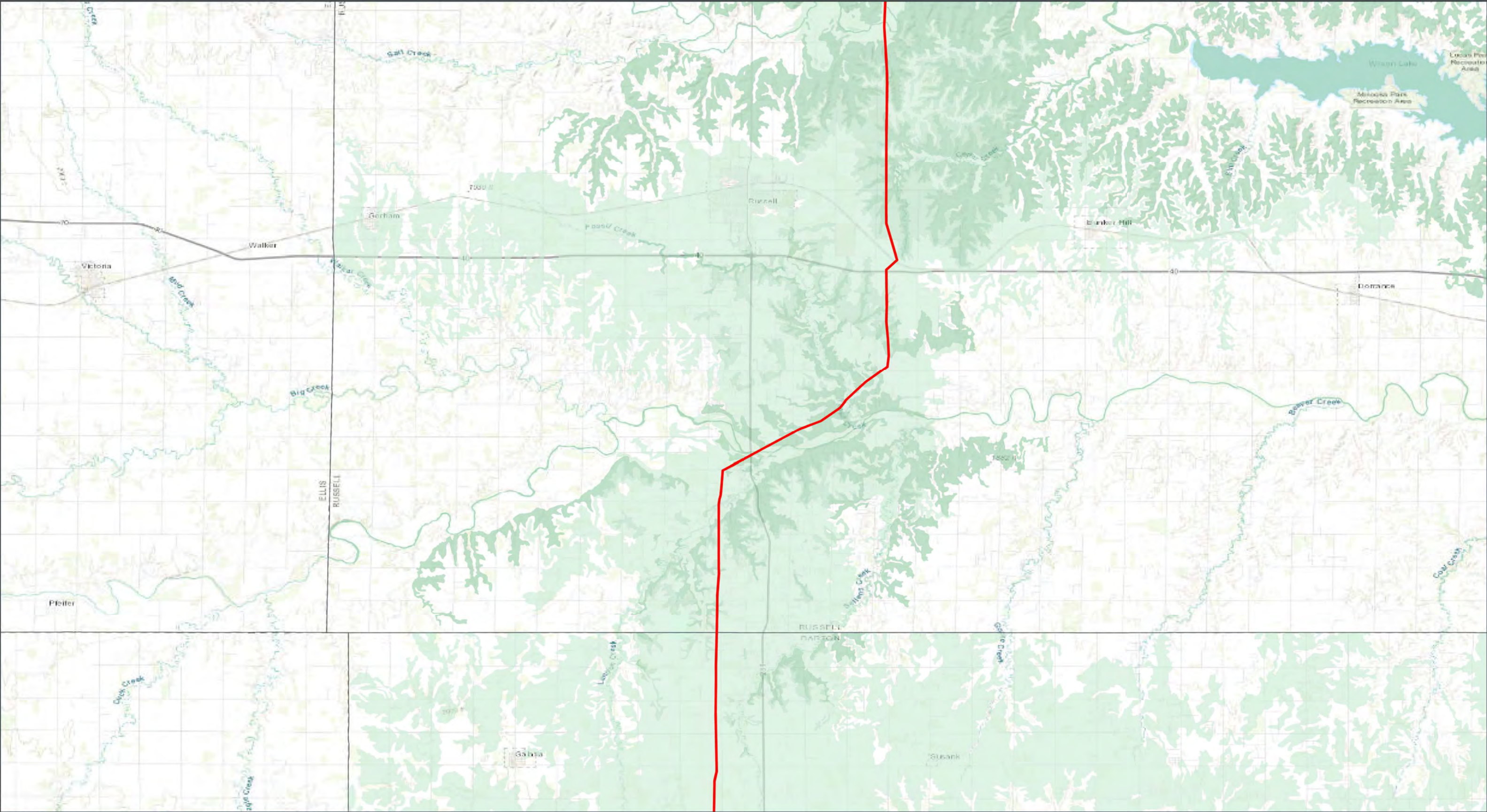


GCS North American 1983
38.5252°N 98.908°W



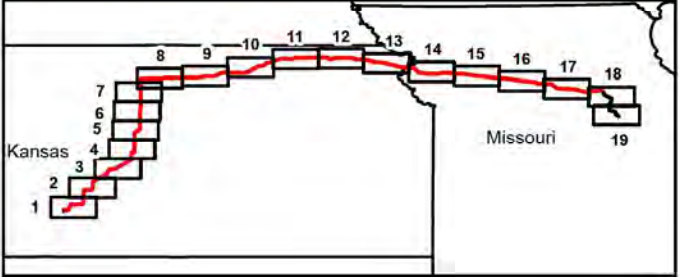
Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Farmland_Classification
Apri: Soil_Farmland_Classification





GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
**FARMLAND
CLASSIFICATION**
Map 5 of 19

- Proposed Grain Belt Express Phase 1
HVDC Line ROW
- Farmland Classification**
- All areas are prime farmland
- Farmland of statewide importance
- Not prime farmland



GCS North American 1983
38.797°N 98.8579°W

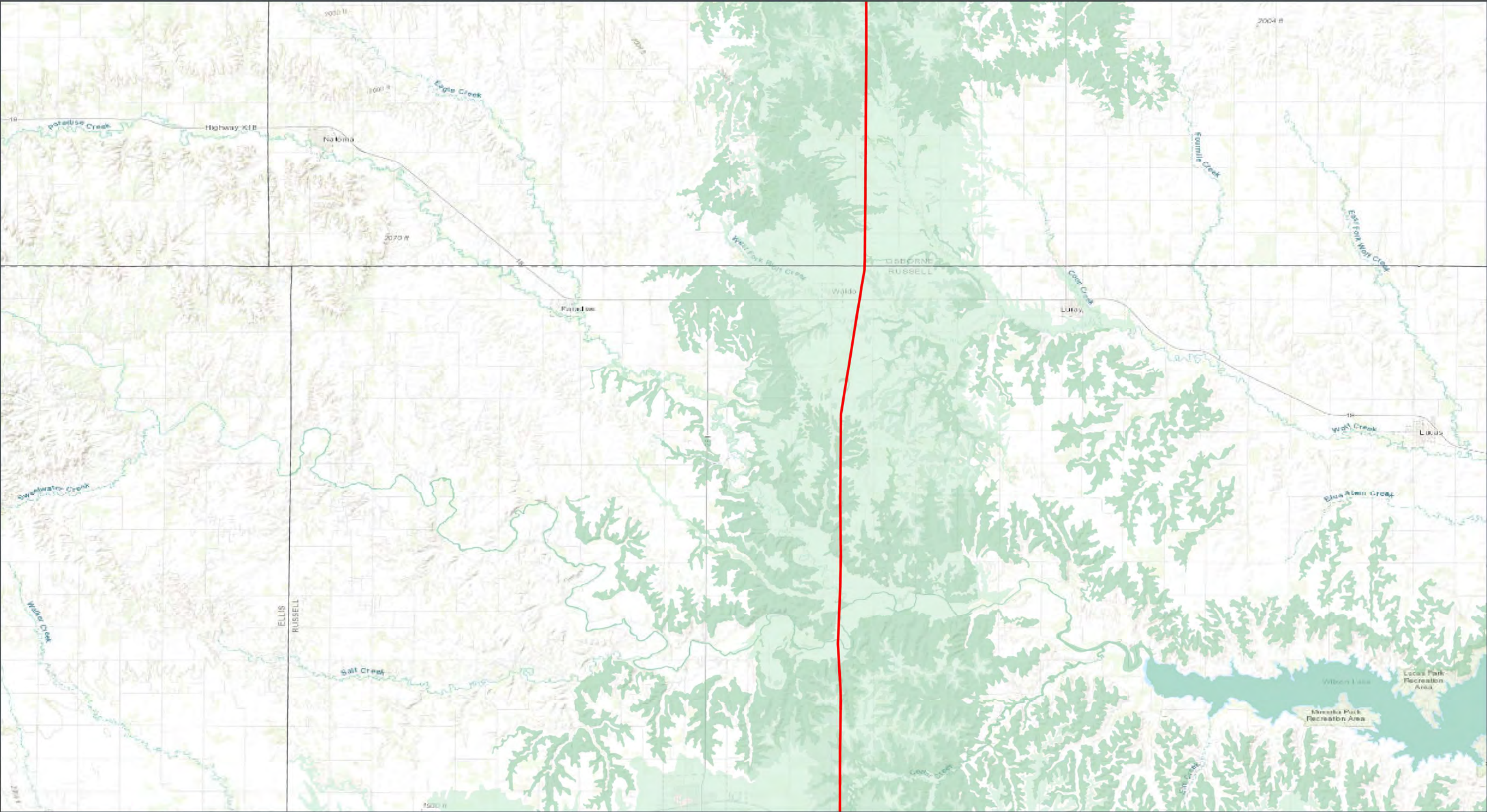


Kansas and Missouri

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694558
Layout: Soil_Farmland_Classification
Apri: Soil_Farmland_Classification

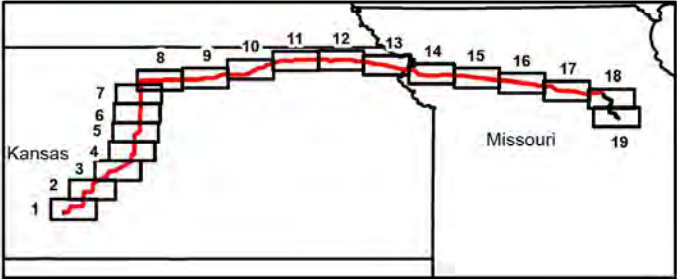
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GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
**FARMLAND
CLASSIFICATION**
Map 6 of 19

- Proposed Grain Belt Express Phase 1
HVDC Line ROW
- Farmland Classification**
- All areas are prime farmland
- Farmland of statewide importance
- Not prime farmland



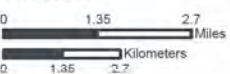
GCS North American 1983
39.0707°N 98.8374°W



Kansas and Missouri

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Farmland_Classification
Apix: Soil_Farmland_Classification

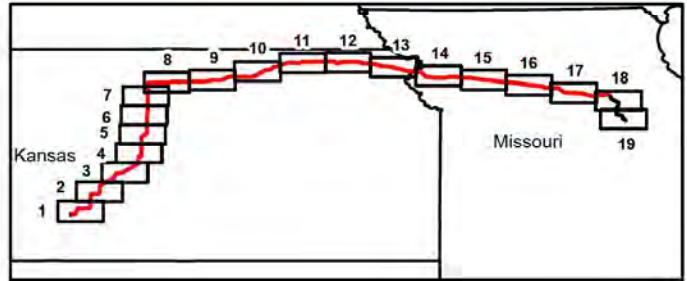
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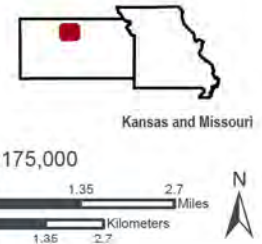
GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
**FARMLAND
CLASSIFICATION**
Map 7 of 19

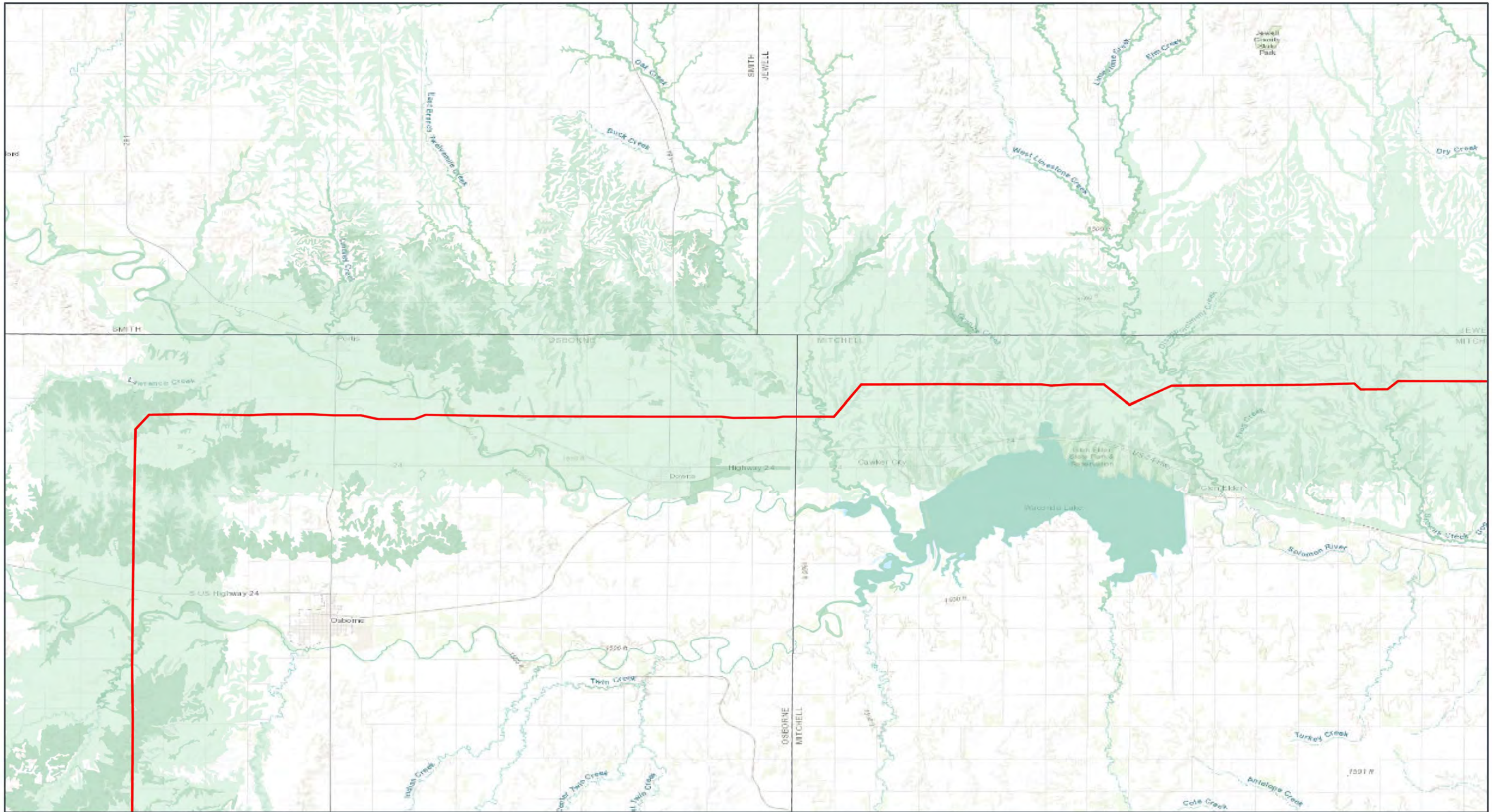
- Proposed Grain Belt Express Phase 1 HVDC Line ROW
- Farmland Classification**
- All areas are prime farmland
- Farmland of statewide importance
- Not prime farmland



GCS North American 1983
39.3414°N 98.8091°W

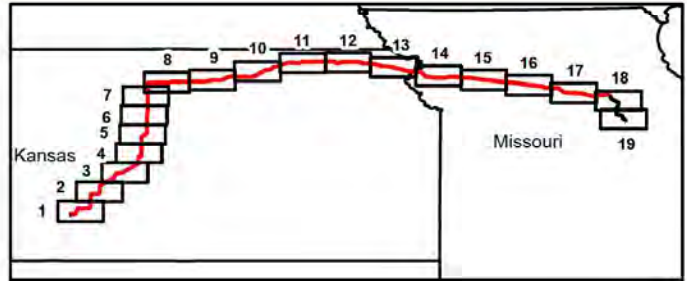
Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Farmland_Classification
Apri: Soil_Farmland_Classification





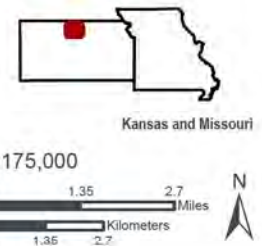
GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
**FARMLAND
CLASSIFICATION**
Map 8 of 19

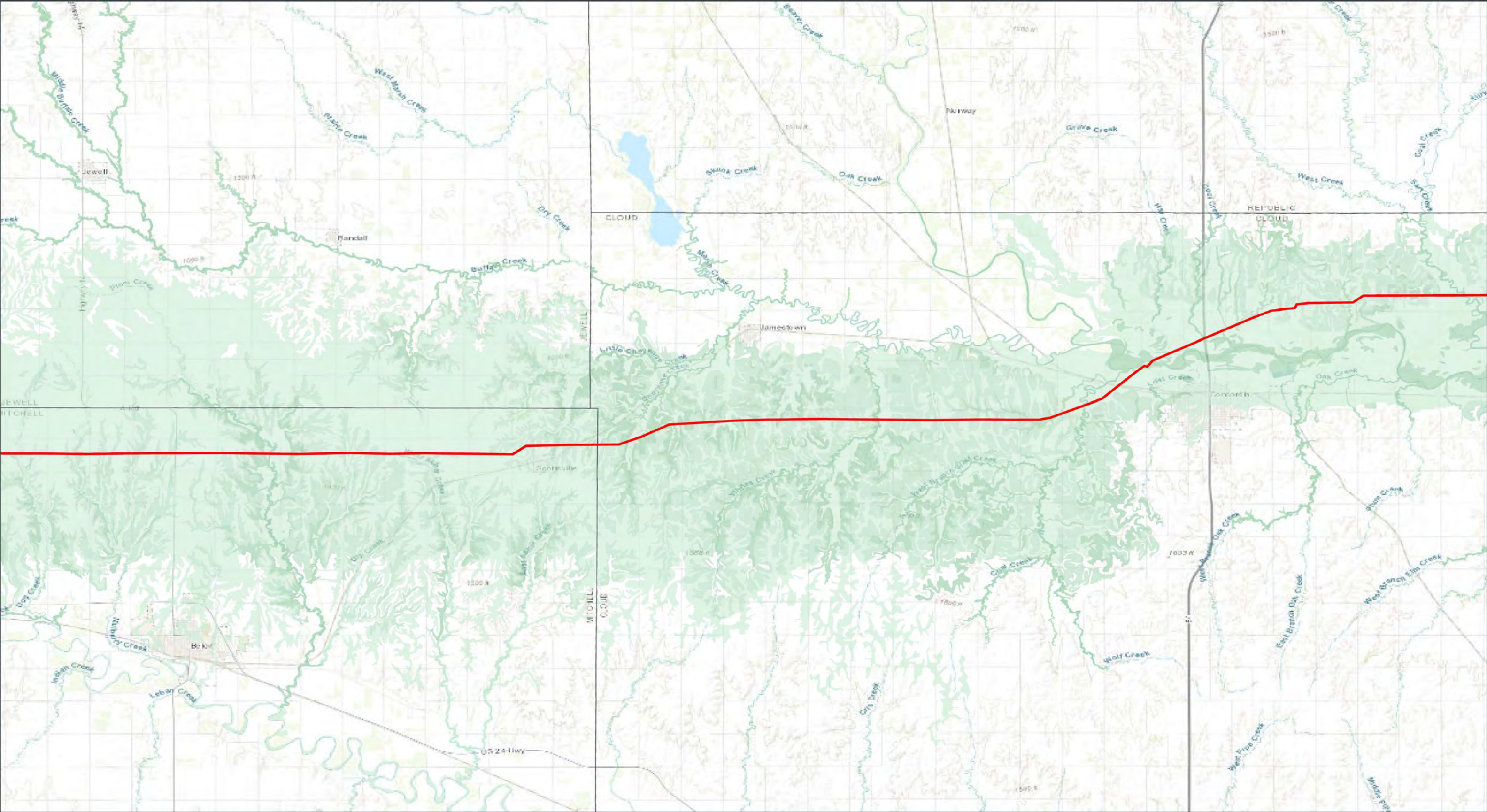
- Proposed Grain Belt Express Phase 1 HVDC Line ROW
- Farmland Classification**
- All areas are prime farmland
- Farmland of statewide importance
- Not prime farmland
- Prime farmland if drained



GCS North American 1983
39.5352°N 98.5101°W

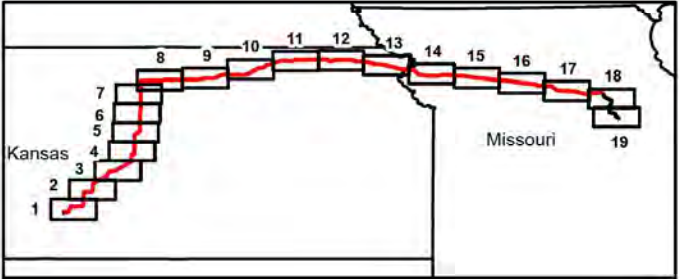
Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694558
Layout: Soil_Farmland_Classification
Apix: Soil_Farmland_Classification





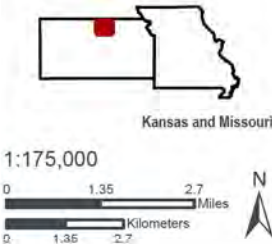
GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
**FARMLAND
CLASSIFICATION**
Map 9 of 19

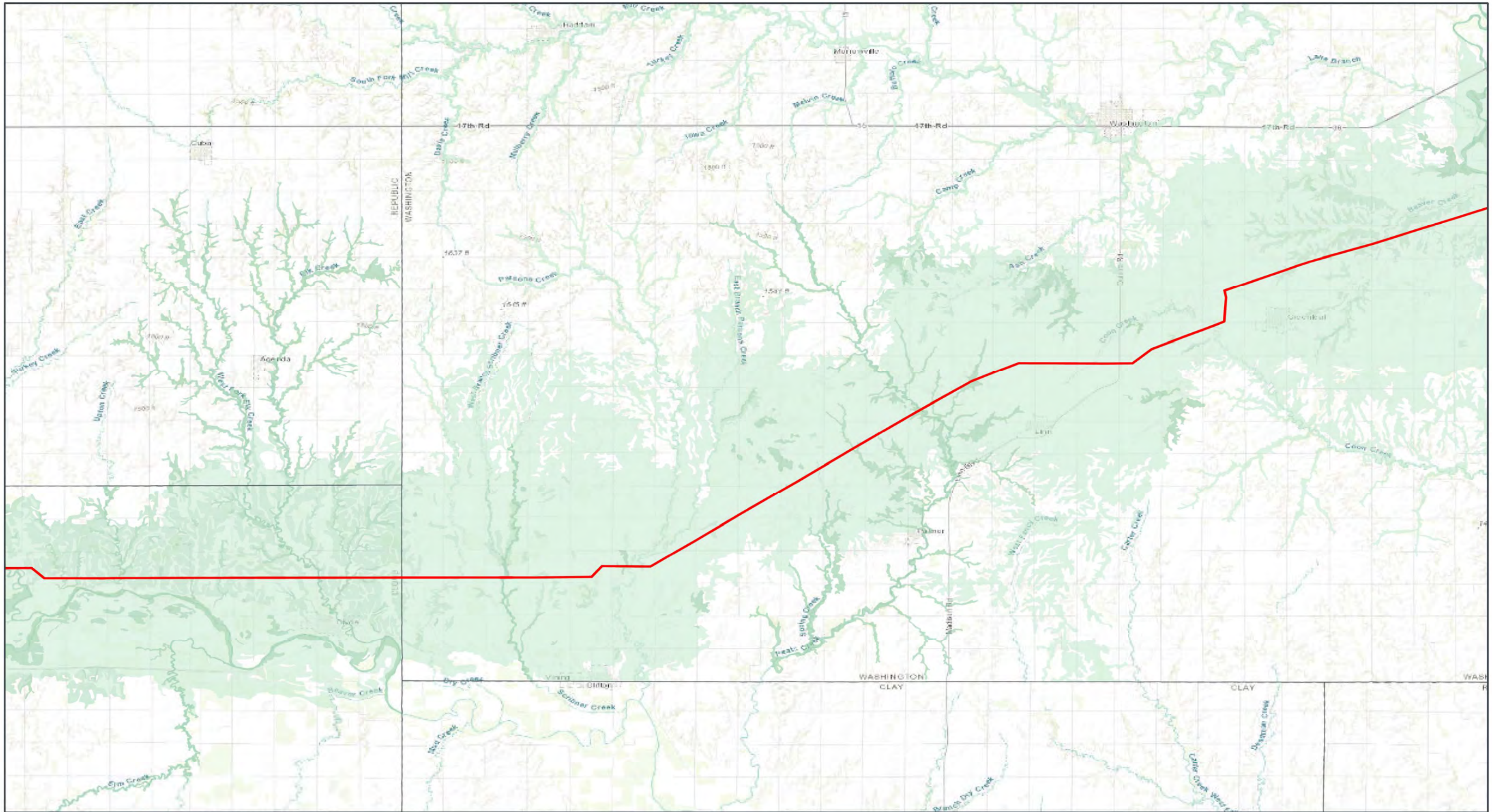
- Proposed Grain Belt Express Phase 1 HVDC Line ROW
- Farmland Classification**
- All areas are prime farmland
- Farmland of statewide importance
- Not prime farmland
- Prime farmland if drained



GCS North American 1983
39.5677°N 97.8639°W

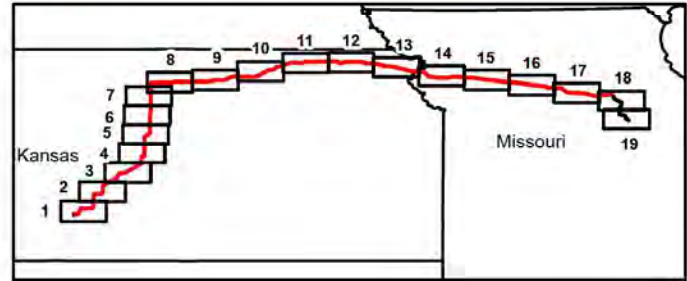
Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694558
Layout: Soil_Farmland_Classification
Apri: Soil_Farmland_Classification





GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
**FARMLAND
CLASSIFICATION**
Map 10 of 19

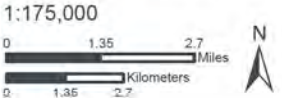
- Proposed Grain Belt Express Phase 1 HVDC Line ROW
- Farmland Classification**
- All areas are prime farmland
- Farmland of statewide importance
- Not prime farmland

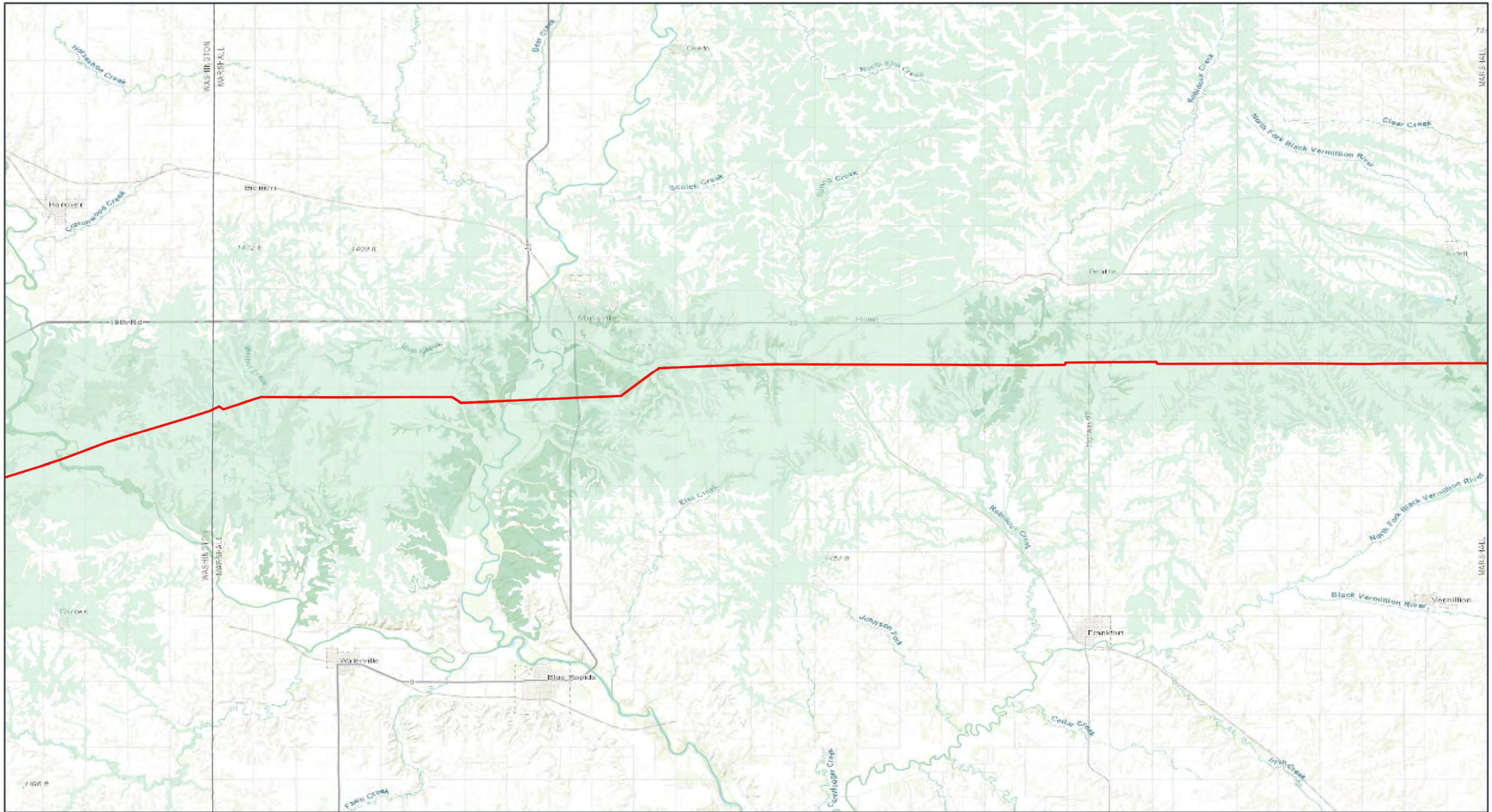


GCS North American 1983
39.6882°N 97.2156°W



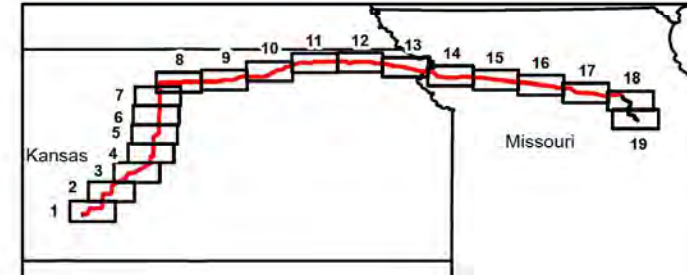
Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Farmland_Classification
Apix: Soil_Farmland_Classification





GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
**FARMLAND
CLASSIFICATION**
Map 11 of 19

- Proposed Grain Belt Express Phase 1 HVDC Line ROW
- Farmland Classification**
- All areas are prime farmland
- Farmland of statewide importance
- Not prime farmland
- Prime farmland if drained



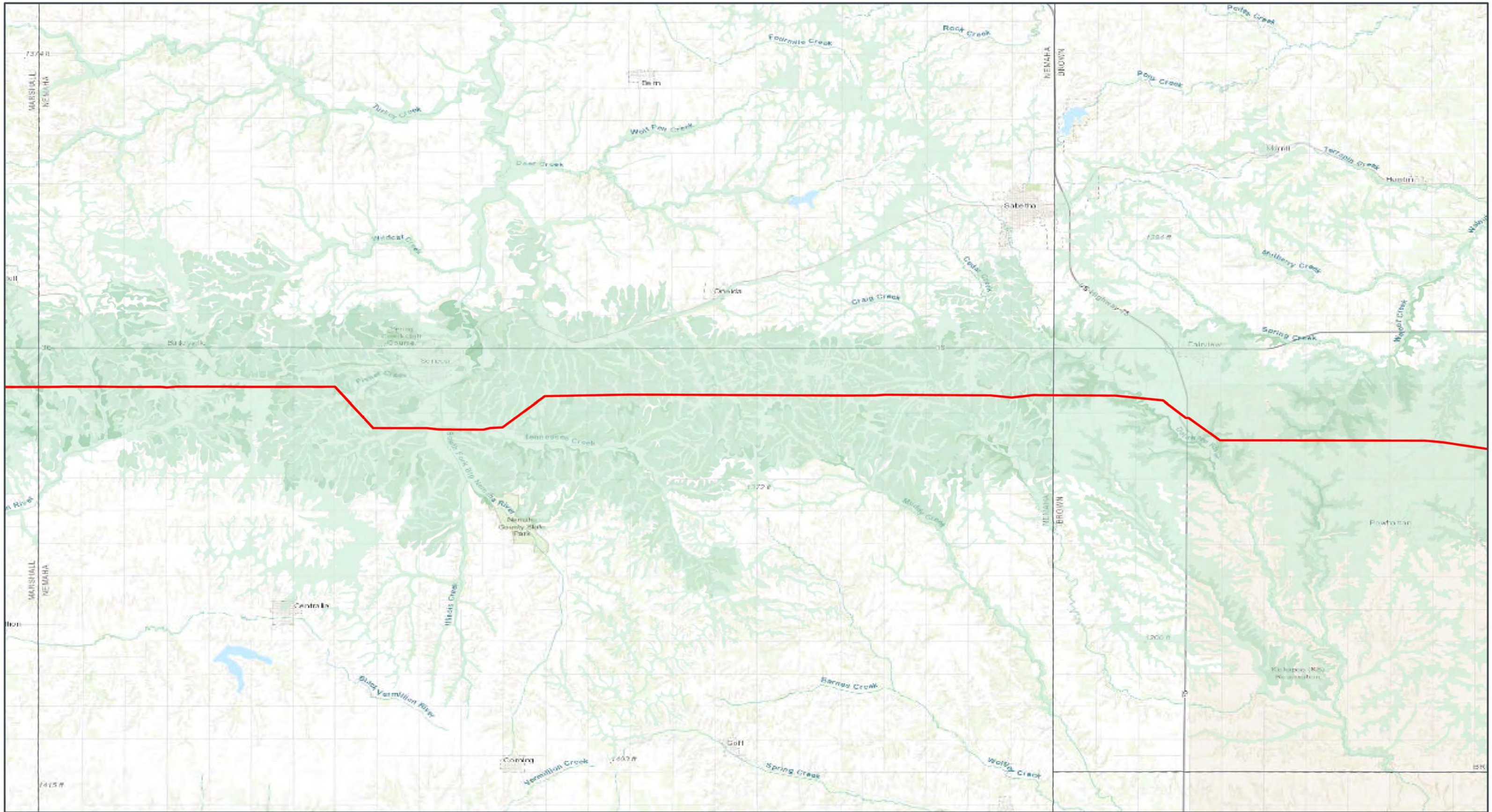
GCS North American 1983
39.8039°N 96.5694°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Farmland_Classification
App: Soil_Farmland_Classification

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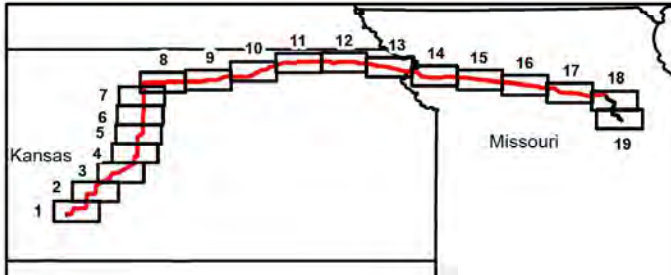
0 1.35 2.7 Miles
0 1.35 2.7 Kilometers

Kansas and Missouri



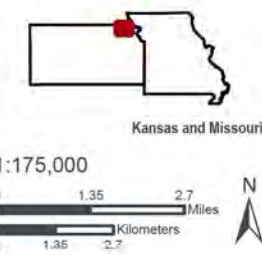
GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
**FARMLAND
CLASSIFICATION**
Map 12 of 19

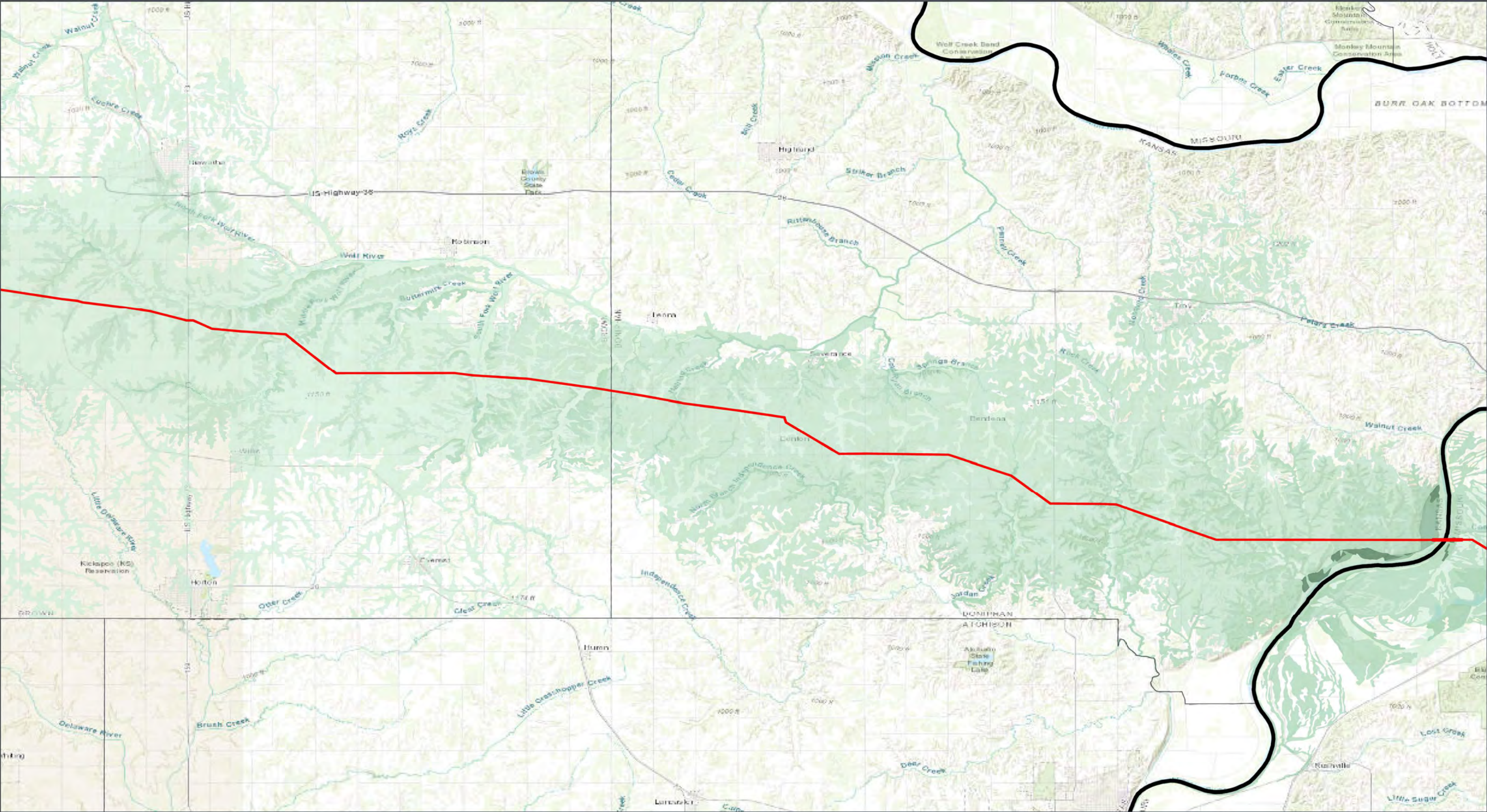
- Proposed Grain Belt Express Phase 1 HVDC Line ROW
- Farmland Classification**
- All areas are prime farmland
- Farmland of statewide importance
- Not prime farmland
- Prime farmland if drained



GCS North American 1983
39.8147°N 95.9252°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Farmland_Classification
App: Soil_Farmland_Classification





GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT

**FARMLAND
CLASSIFICATION**

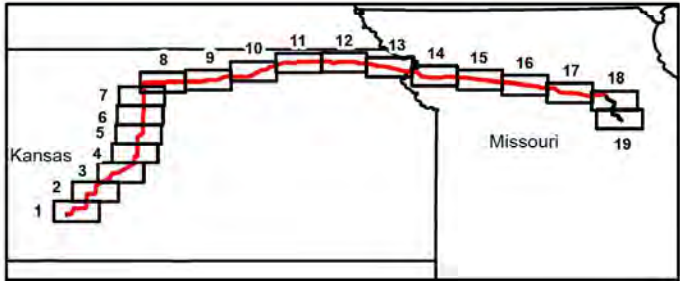
Map 13 of 19

Proposed Grain Belt Express Phase 1
HVDC Line ROW

Farmland Classification

- All areas are prime farmland
- Farmland of statewide importance
- Not prime farmland

- Prime farmland if drained
- Prime farmland if drained and either
protected from flooding or not frequently
flooded during the growing season
- Prime farmland if protected from
flooding or not frequently flooded during
the growing season



GCS North American 1983
39.7469°N 95.281°W

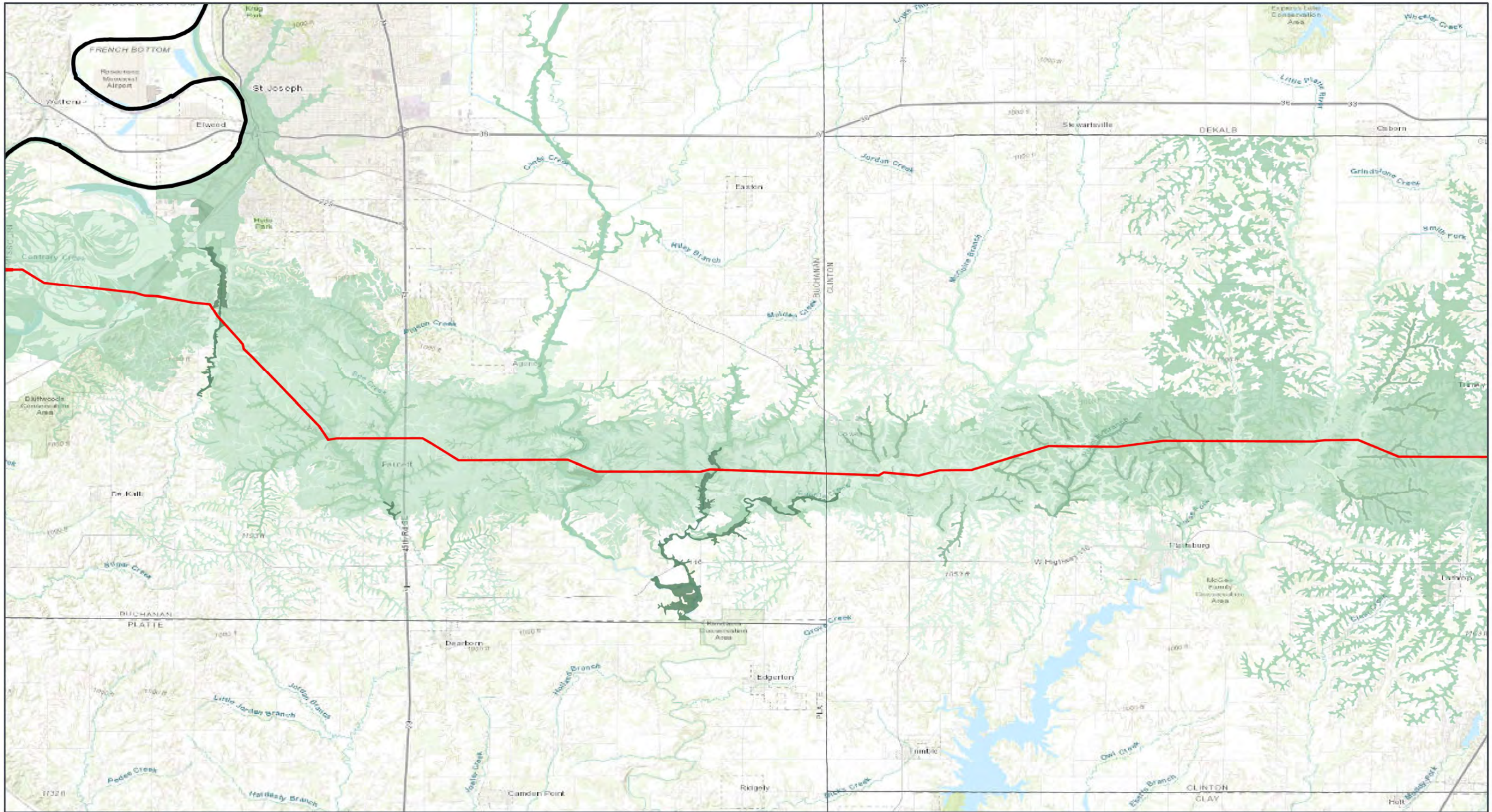
Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694558
Layout: Soil_Farmland_Classification
Apix: Soil_Farmland_Classification

1:175,000

0 1.35 2.7 Miles

0 1.35 2.7 Kilometers

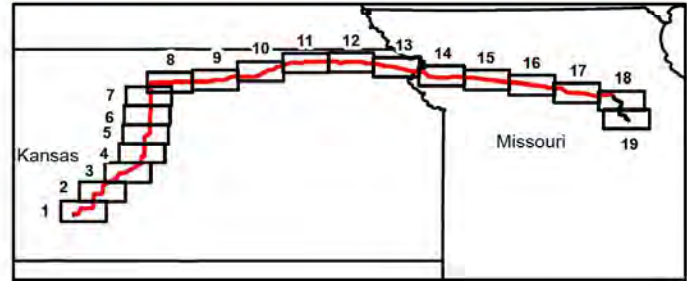
Kansas and Missouri



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
**FARMLAND
CLASSIFICATION**
Map 14 of 19

- Proposed Grain Belt Express Phase 1
HVDC Line ROW
Farmland Classification**
- All areas are prime farmland
 - Farmland of statewide importance
 - Not prime farmland

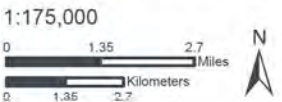
- Prime farmland if drained
- Prime farmland if drained and either
protected from flooding or not frequently
flooded during the growing season
- Prime farmland if protected from
flooding or not frequently flooded during
the growing season

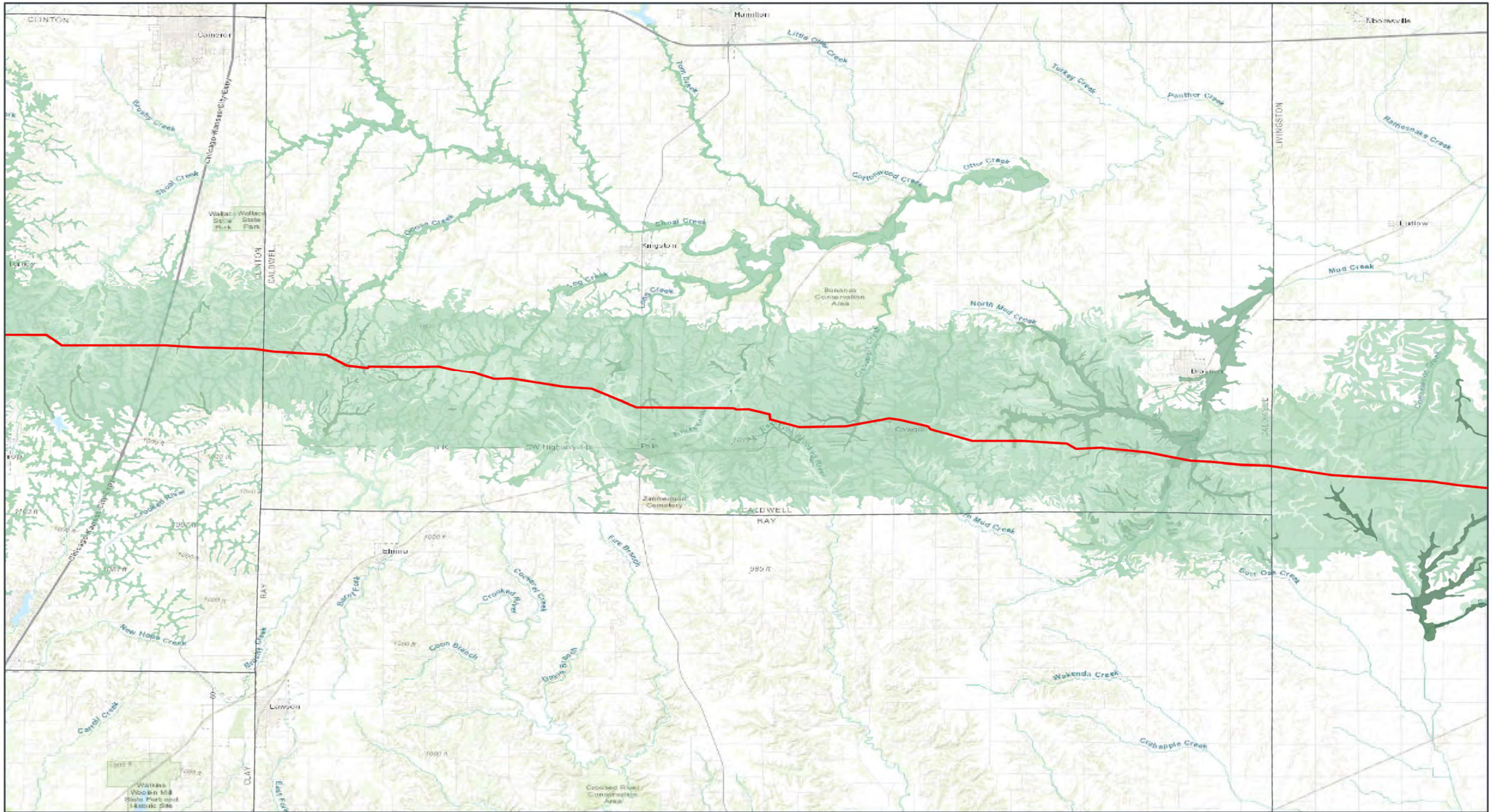


GCS North American 1983
39.6264°N 94.6368°W



Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Farmland_Classification
Apix: Soil_Farmland_Classification

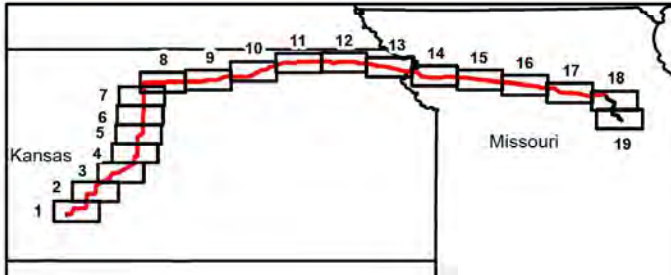




GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
**FARMLAND
CLASSIFICATION**
Map 15 of 19

- Proposed Grain Belt Express Phase 1
HVDC Line ROW
Farmland Classification**
- All areas are prime farmland
 - Farmland of statewide importance
 - Not prime farmland

- Prime farmland if drained
- Prime farmland if drained and either
protected from flooding or not frequently
flooded during the growing season
- Prime farmland if protected from
flooding or not frequently flooded during
the growing season



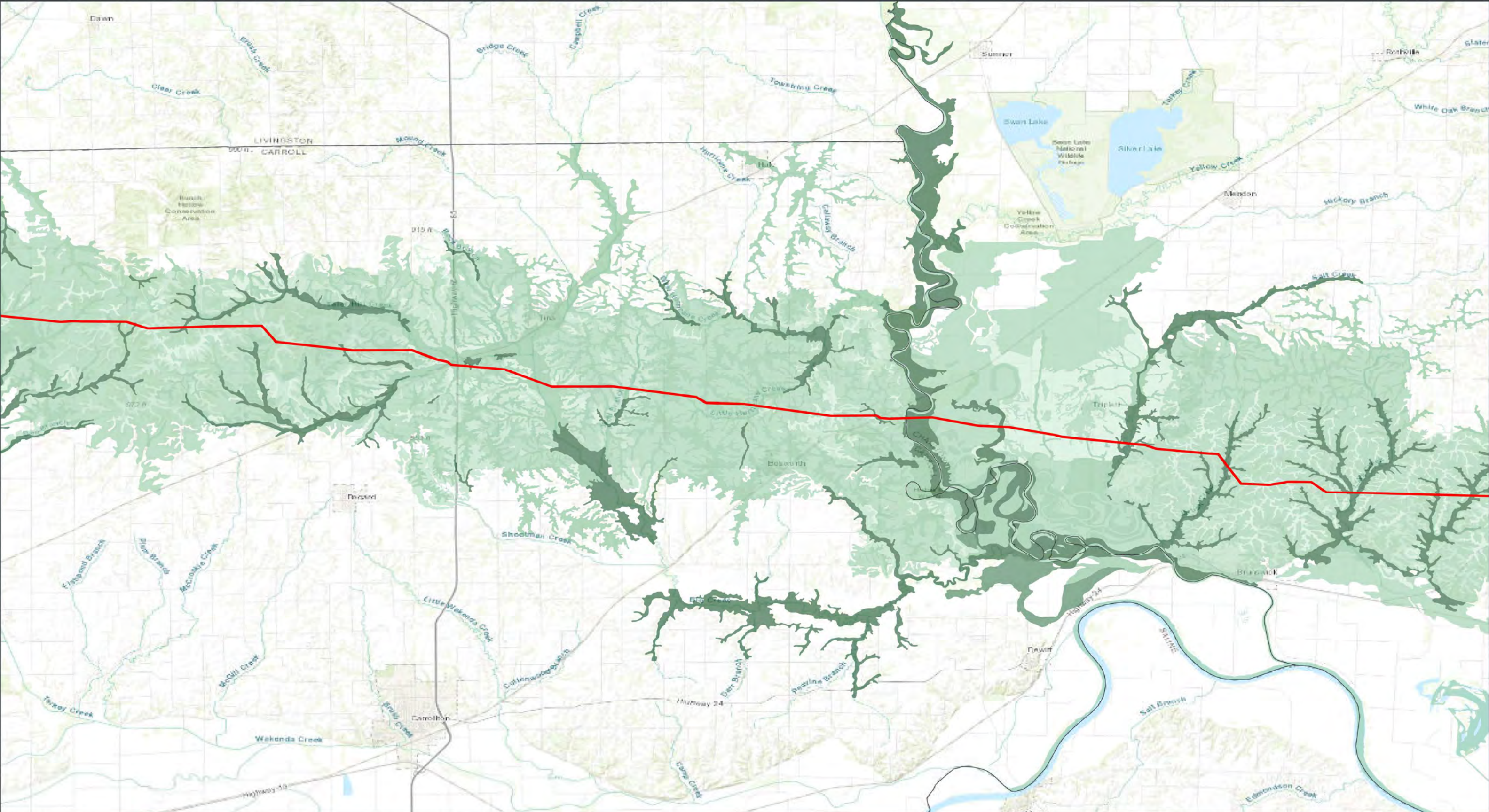
GCS North American 1983
39.5723°N 93.9926°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Farmland_Classification
Apri: Soil_Farmland_Classification

1:175,000

0 1.35 2.7 Miles
0 1.35 2.7 Kilometers

Kansas and Missouri



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
**FARMLAND
CLASSIFICATION**
Map 16 of 19

Proposed Grain Belt Express Phase 1
HVDC Line ROW

Farmland Classification

- All areas are prime farmland
- Farmland of statewide importance
- Not prime farmland
- Prime farmland if drained

Prime farmland if drained and either
protected from flooding or not frequently
flooded during the growing season

Prime farmland if irrigated and drained

Prime farmland if protected from
flooding or not frequently flooded during
the growing season

Kansas and Missouri

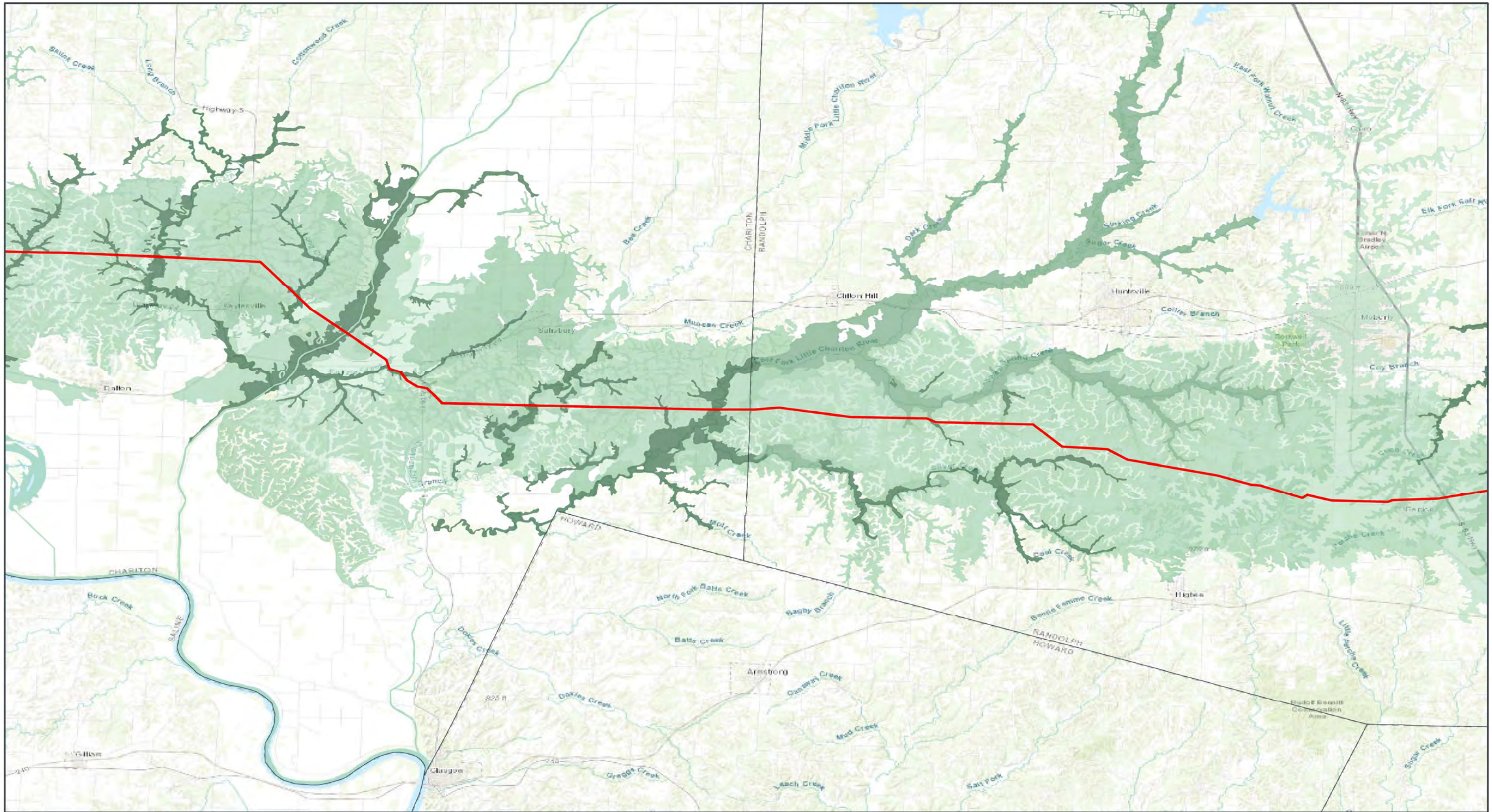
GCS North American 1983
39.498°N 93.3484°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Farmland_Classification
App: Soil_Farmland_Classification

1:175,000

0 1.35 2.7 Miles
0 1.35 2.7 Kilometers

Grain Belt Express
An Iovenergy Project



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT

**FARMLAND
CLASSIFICATION**

Map 17 of 19

Proposed Grain Belt Express Phase 1 HVDC Line ROW

Farmland Classification

- All areas are prime farmland
- Farmland of statewide importance
- Not prime farmland

Prime farmland if drained

Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season

Prime farmland if protected from flooding or not frequently flooded during the growing season

GCS North American 1983
39.3895°N 92.7062°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694558
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App: Soil_Farmland_Classification

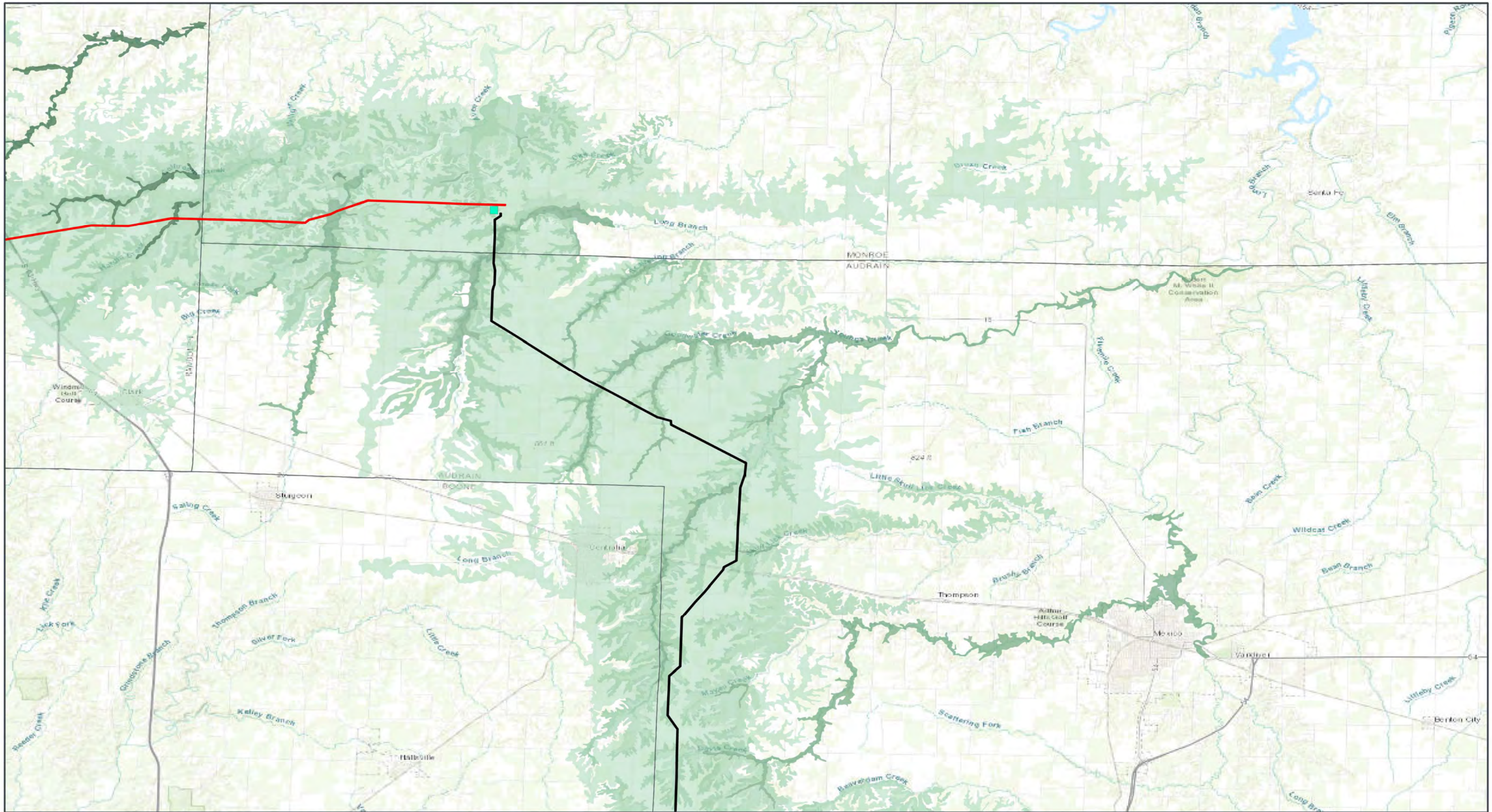
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0 1.35 2.7 Miles

0 1.35 2.7 Kilometers

Kansas and Missouri

Grain Belt Express
An Iovenergy Project

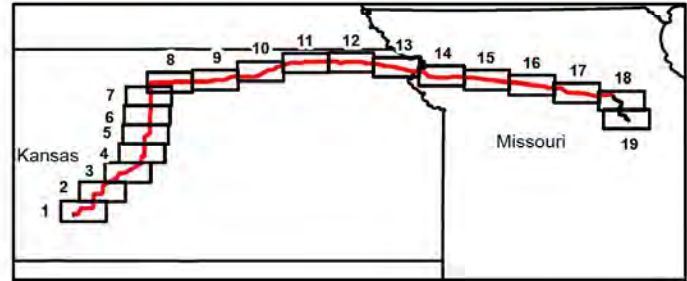


GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
**FARMLAND
CLASSIFICATION**
Map 18 of 19

- Proposed Grain Belt Express Phase 1 Converter Station
- Proposed Grain Belt Express Phase 1 HVDC Line ROW
- Proposed Grain Belt Express Phase 1 Tiger Connector ROW

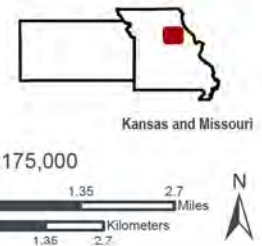
- Farmland Classification**
- All areas are prime farmland
 - Farmland of statewide importance
 - Not prime farmland
 - Prime farmland if drained

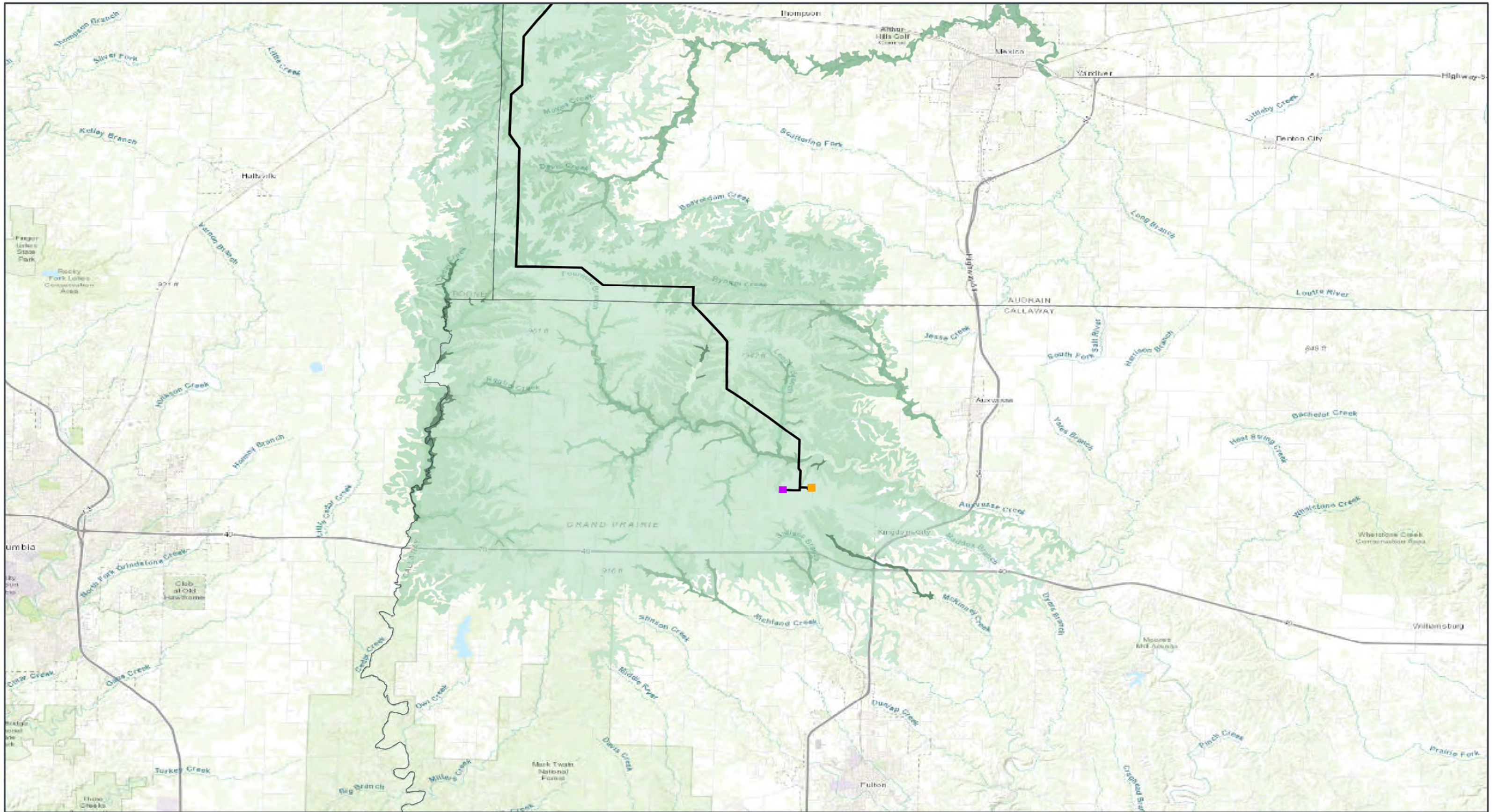
- Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
- Prime farmland if irrigated and drained
- Prime farmland if protected from flooding or not frequently flooded during the growing season



GCS North American 1983
39.2746°N 92.068°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Farmland_Classification
Apri: Soil_Farmland_Classification



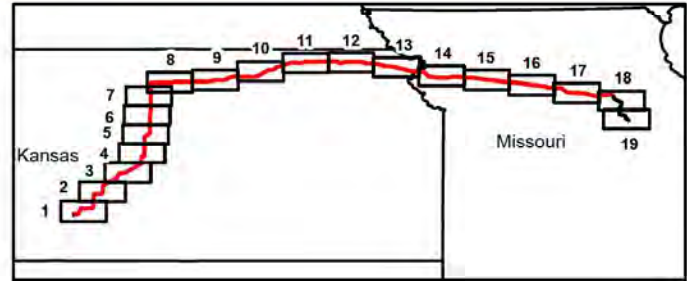


GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
**FARMLAND
CLASSIFICATION**
Map 19 of 19

- Proposed Grain Belt Express Phase 1
Tiger Connector ROW
- Existing McCredie Substation
- Existing Burns Substation

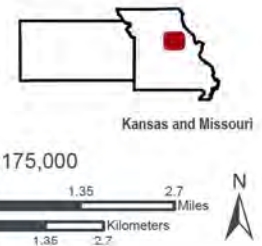
- Farmland Classification**
- All areas are prime farmland
 - Farmland of statewide importance
 - Not prime farmland
 - Prime farmland if drained

- Prime farmland if drained and either
protected from flooding or not frequently
flooded during the growing season
- Prime farmland if protected from
flooding or not frequently flooded during
the growing season

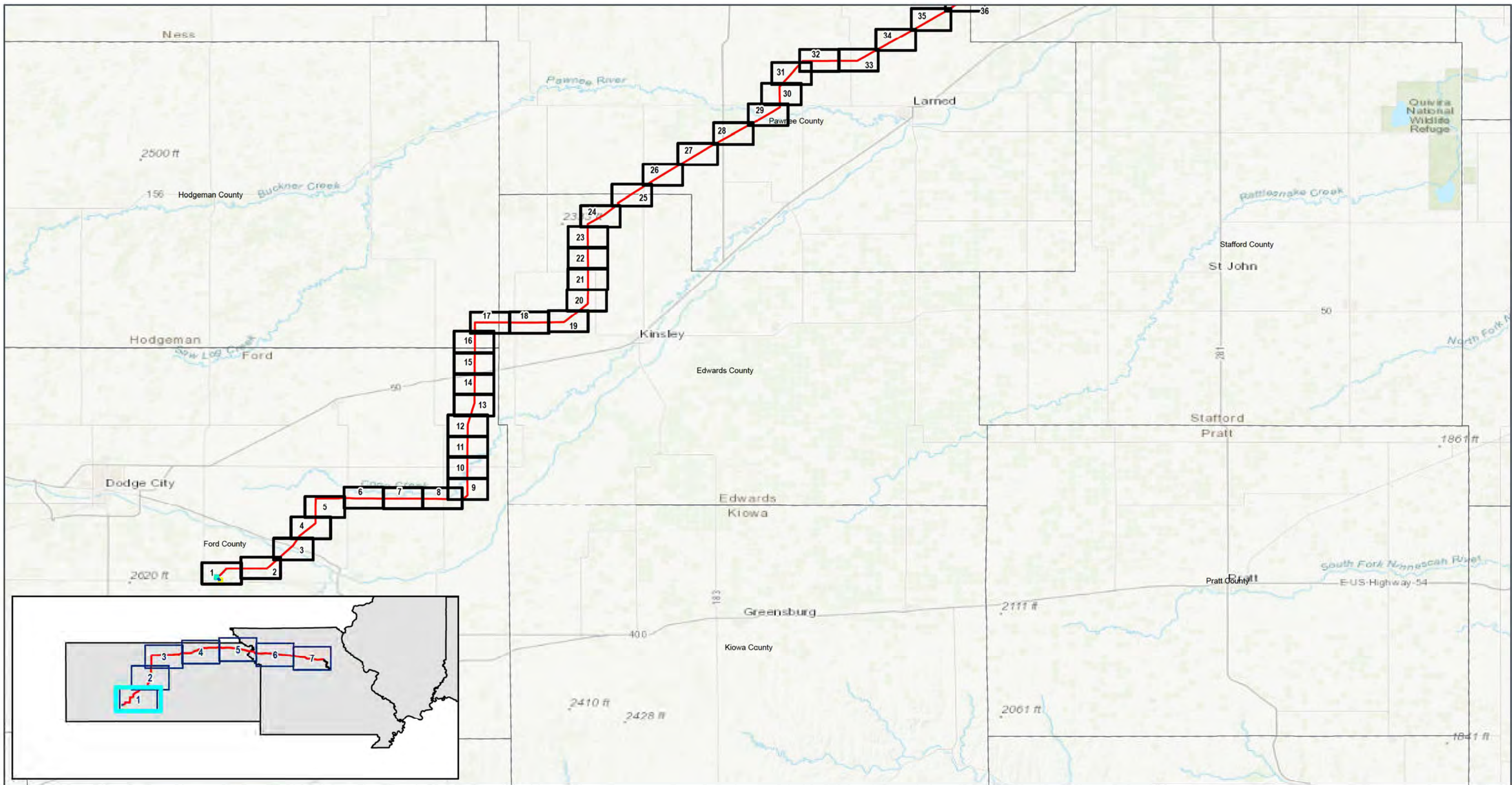


GCS North American 1983
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Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/25/2024
Project No. 60694559
Layout: Soil_Farmland_Classification
Apn: Soil_Farmland_Classification



Grain Belt Express Transmission Line
Environmental Impact Statement
Appendix 3.4: Wetlands and Waters Maps



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
WETLAND SHEET MAP INDEX
Sheet 1 of 7

- Proposed Grain Belt Express Phase 1 HVDC Line
- Proposed Grain Belt Express Phase 1 Tiger Connector
- Proposed Grain Belt Express Phase 1 Ford County Interconnect
- Proposed Grain Belt Express Phase 1 Converter Station
- Existing McCredie Substation
- Existing Burns Substation
- Existing Saddle Substation
- Mapbook Index

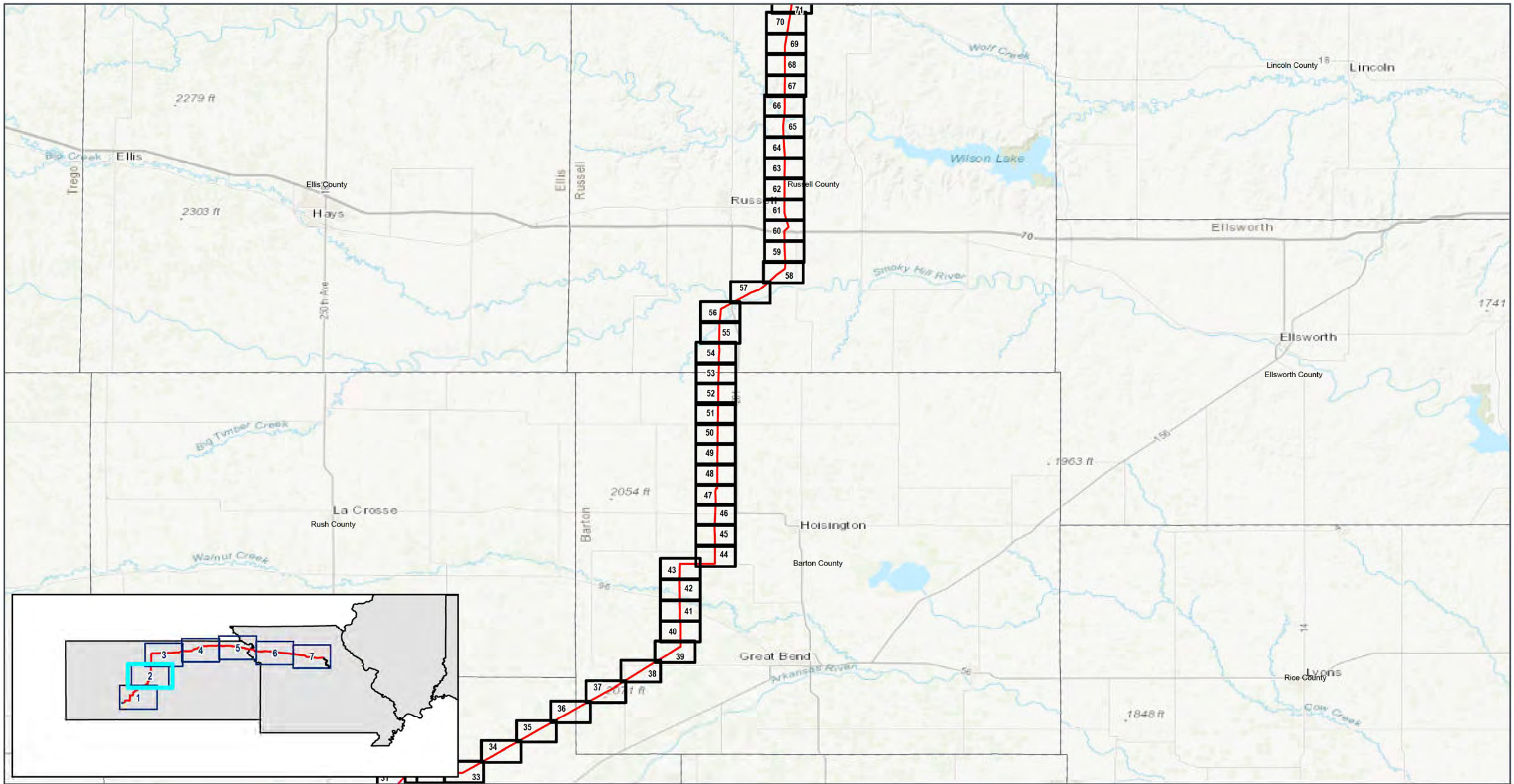
Kansas and Missouri
GCS North American 1983
37.8587°N 99.275°W

Base Map: Esri ArcGIS Online,
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Updated: 11/25/2024
Project No. 60694559
Layout: GBX_Mapbook_Index_Wetland
Aprx: GBX_Mapbook_Index

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0 5 10
Miles
0 5 10
Kilometers



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
WETLAND SHEET MAP INDEX
Sheet 2 of 7

- Proposed Grain Belt Express Phase 1 HVDC Line
- Proposed Grain Belt Express Phase 1 Tiger Connector
- Proposed Grain Belt Express Phase 1 Ford County Interconnect
- Proposed Grain Belt Express Phase 1 Converter Station
- Existing McCredie Substation
- Existing Burns Substation
- Existing Saddle Substation
- Mapbook Index

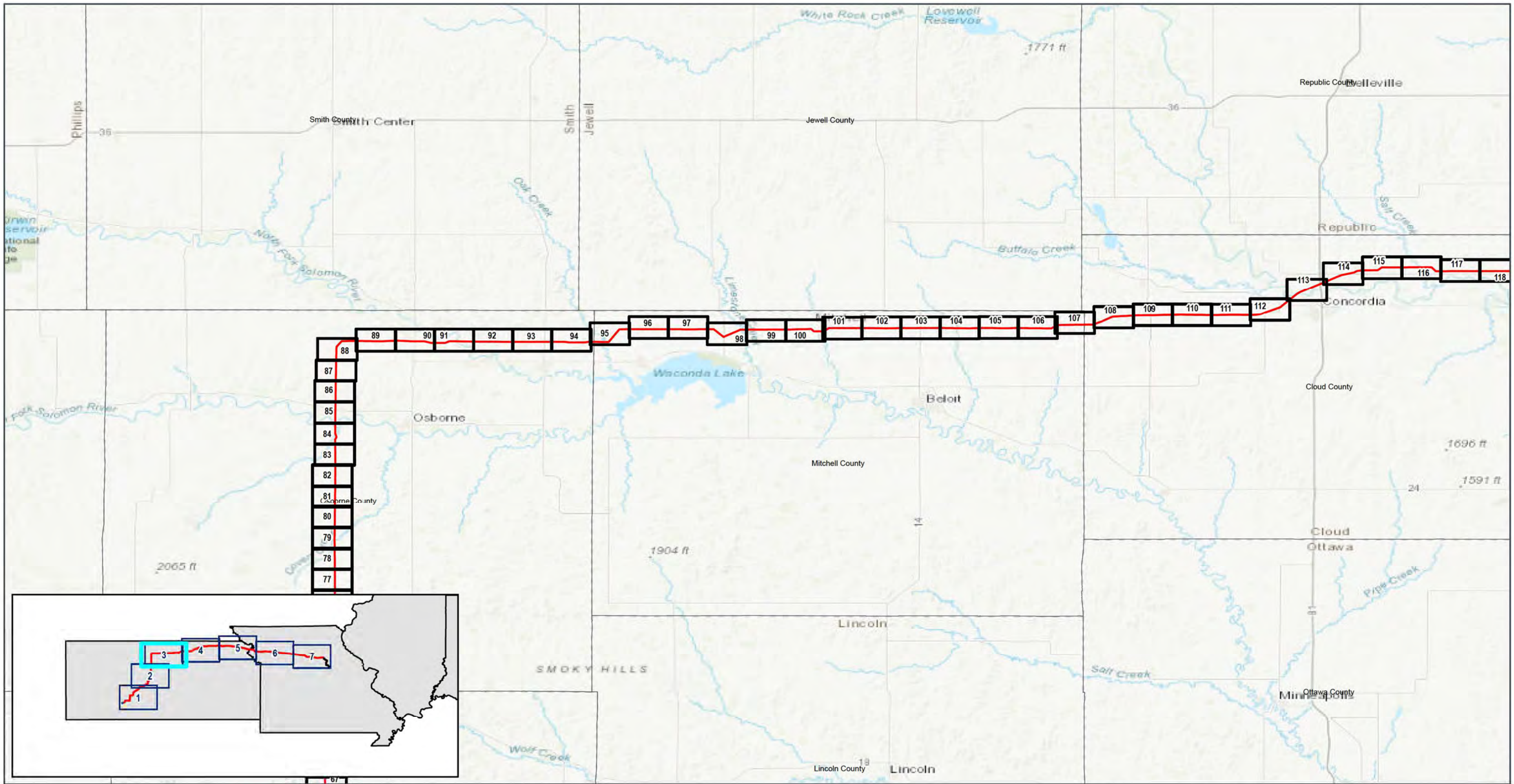
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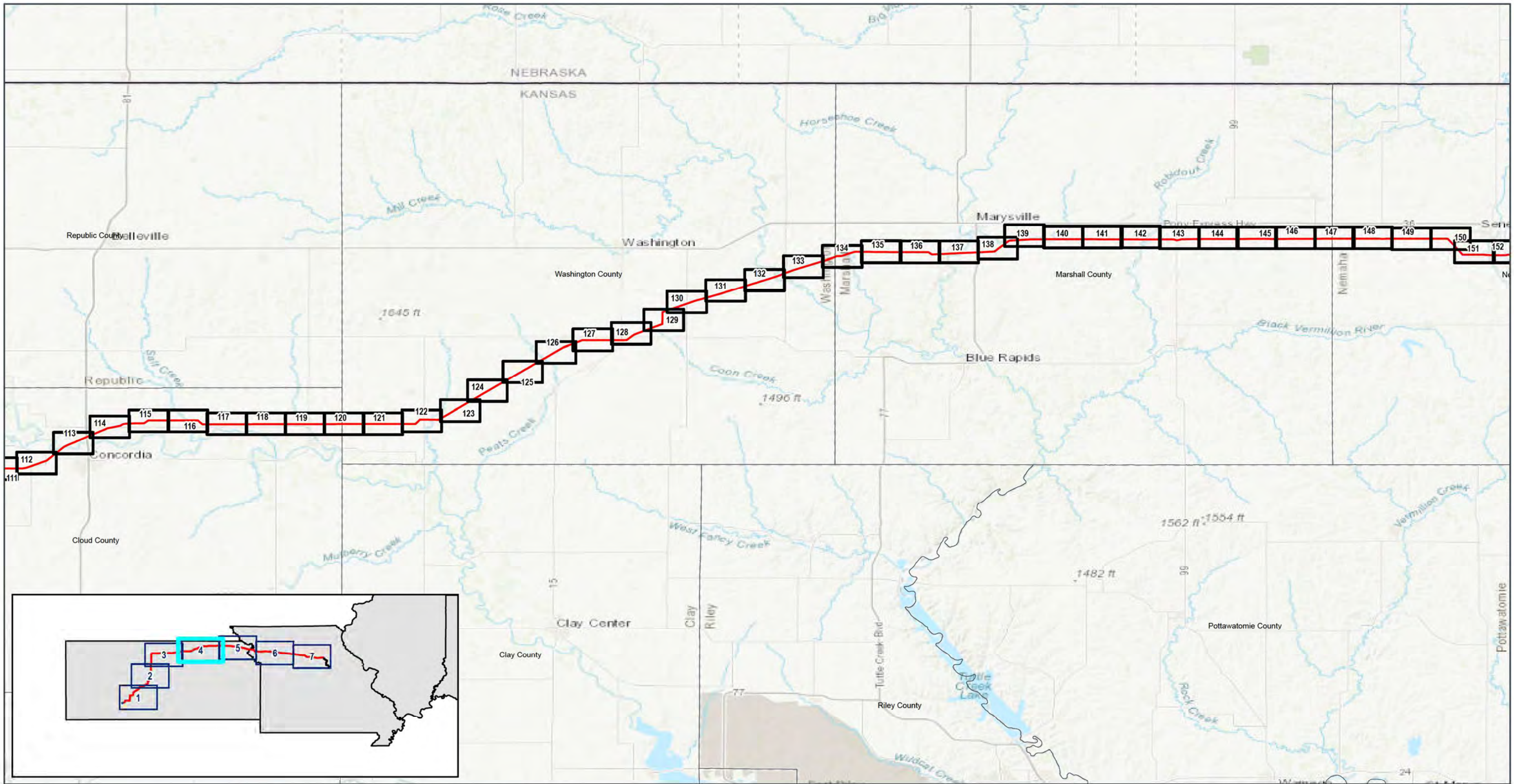


0 5 10 Miles
0 5 10 Kilometers



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
WETLAND SHEET MAP INDEX
Sheet 3 of 7

- Proposed Grain Belt Express Phase 1 HVDC Line
- Proposed Grain Belt Express Phase 1 Tiger Connector
- Proposed Grain Belt Express Phase 1 Ford County Interconnect
- Proposed Grain Belt Express Phase 1 Converter Station
- Existing McCredie Substation
- Existing Burns Substation
- Existing Saddle Substation
- Mapbook Index



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
WETLAND SHEET MAP INDEX
Sheet 4 of 7

- Proposed Grain Belt Express Phase 1 HVDC Line
- Proposed Grain Belt Express Phase 1 Tiger Connector
- Proposed Grain Belt Express Phase 1 Ford County Interconnect
- Proposed Grain Belt Express Phase 1 Converter Station
- Existing McCredie Substation
- Existing Burns Substation
- Existing Saddle Substation
- Mapbook Index

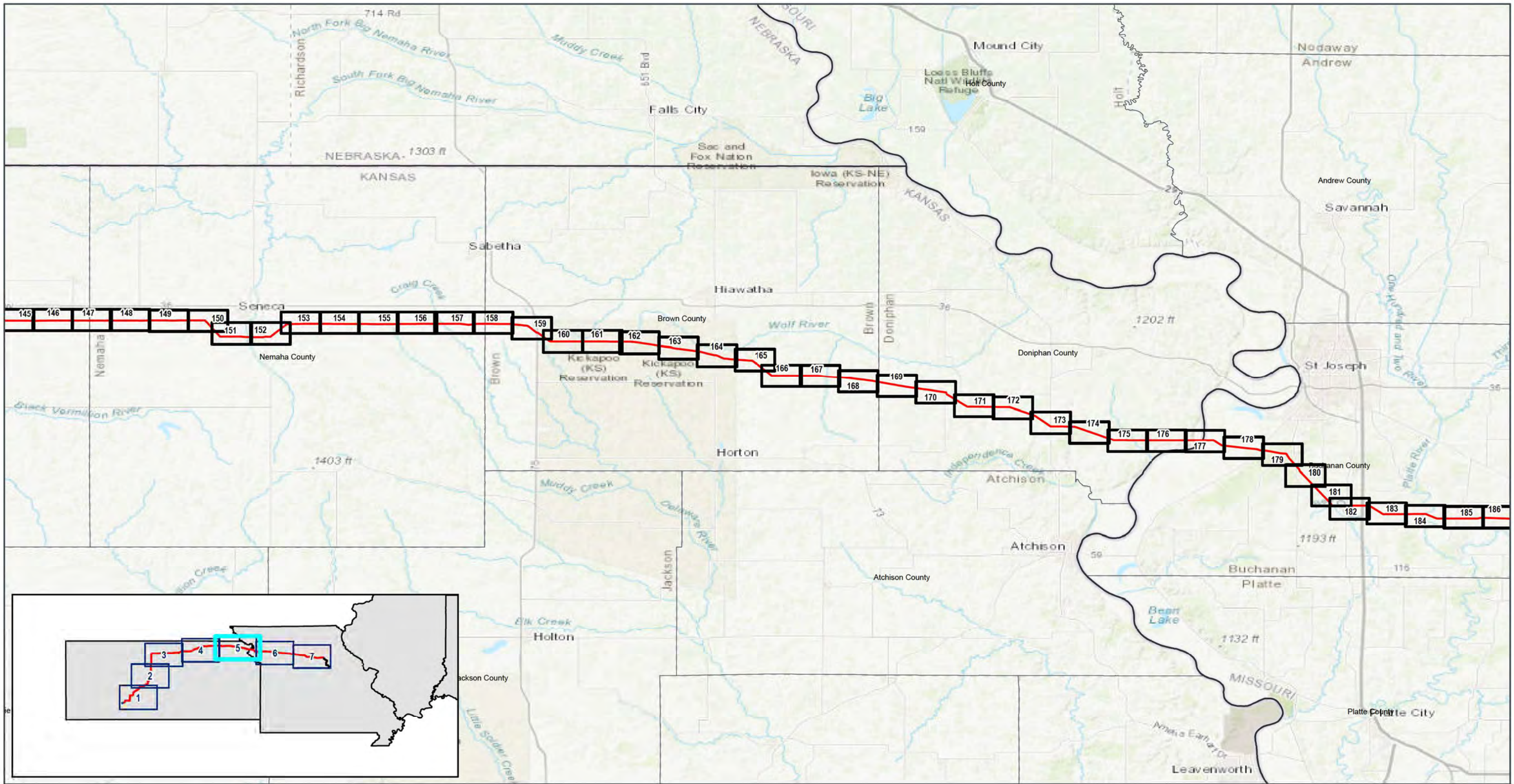
Kansas and Missouri
GCS North American 1983
39.6467°N 96.8952°W

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Project No. 60694559
Layout: GBX_Mapbook_Index_Wetland
Aprx: GBX_Mapbook_Index

N
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0 5 10
0 5 10
Miles
Kilometers



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
WETLAND SHEET MAP INDEX
Sheet 5 of 7

- Proposed Grain Belt Express Phase 1 HVDC Line
- Proposed Grain Belt Express Phase 1 Tiger Connector
- Proposed Grain Belt Express Phase 1 Ford County Interconnect
- Proposed Grain Belt Express Phase 1 Converter Station
- Existing McCredie Substation
- Existing Burns Substation
- Existing Saddle Substation
- Mapbook Index

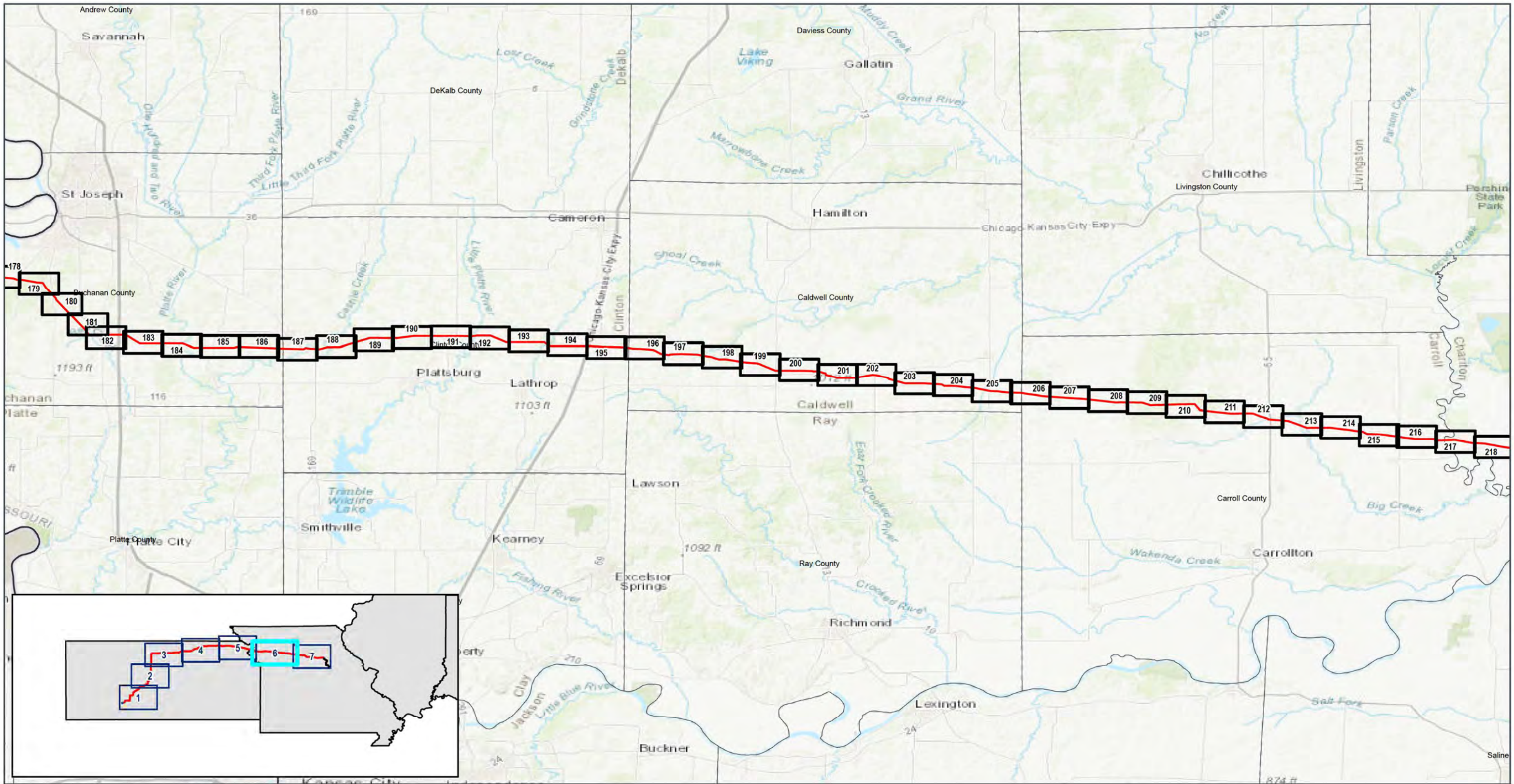
Kansas and Missouri
GCS North American 1983
39.7404°N 95.4784°W

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Base Map: Esri ArcGIS Online,
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Project No. 60694559
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Aprx: GBX_Mapbook_Index

0 5 10
Miles
0 5 10
Kilometers



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
WETLAND SHEET MAP INDEX
Sheet 6 of 7

- Proposed Grain Belt Express Phase 1 HVDC Line
- Proposed Grain Belt Express Phase 1 Tiger Connector
- Proposed Grain Belt Express Phase 1 Ford County Interconnect
- Proposed Grain Belt Express Phase 1 Converter Station
- Existing McCredie Substation
- Existing Burns Substation
- Existing Saddle Substation
- Mapbook Index

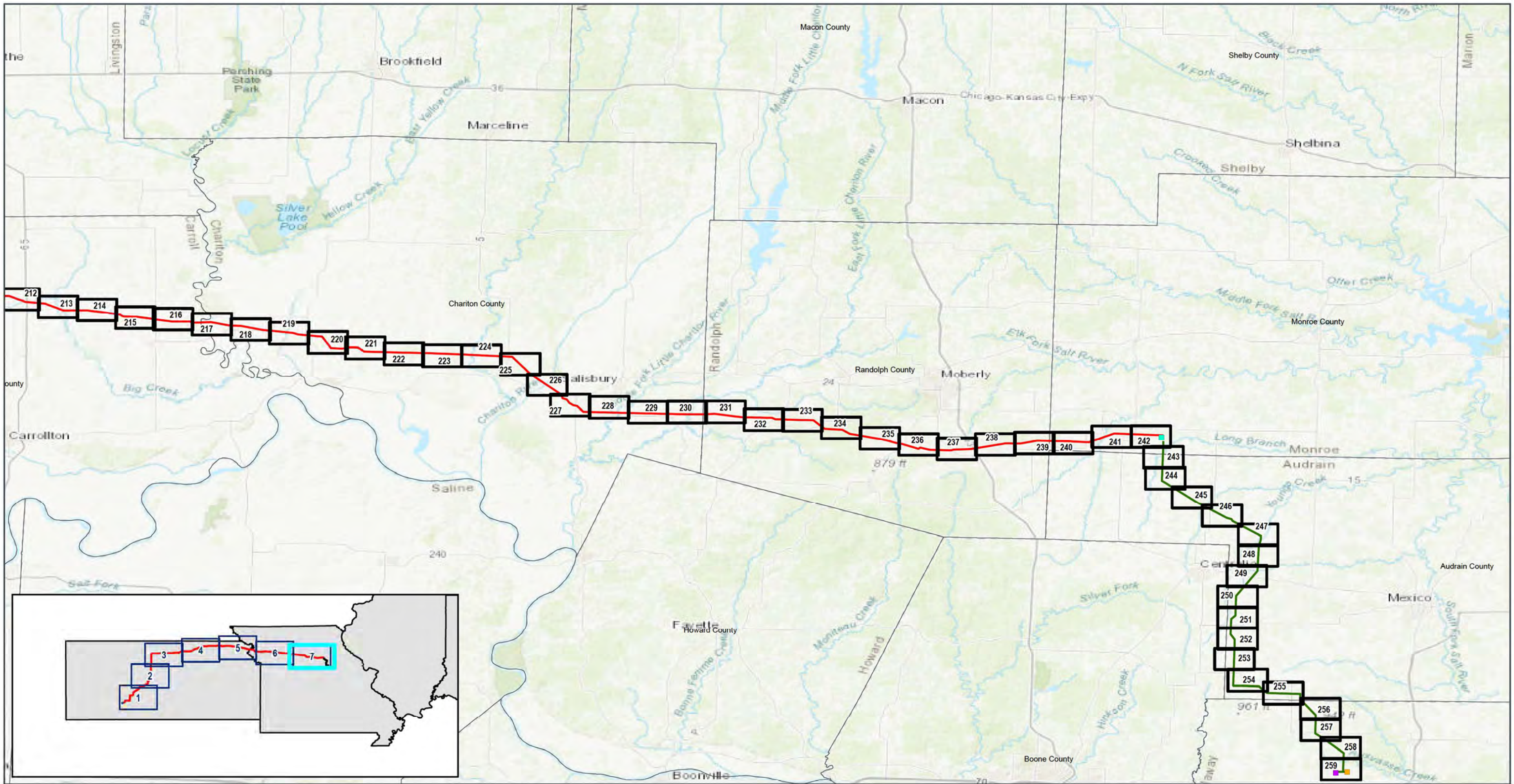
Kansas and Missouri
GCS North American 1983
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0 5 10
0 5 10
Miles
Kilometers



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
WETLAND SHEET MAP INDEX
Sheet 7 of 7

- Proposed Grain Belt Express Phase 1 HVDC Line
- Proposed Grain Belt Express Phase 1 Tiger Connector
- Proposed Grain Belt Express Phase 1 Ford County Interconnect
- Proposed Grain Belt Express Phase 1 Converter Station
- Existing McCredie Substation
- Existing Burns Substation
- Existing Saddle Substation
- Mapbook Index

Kansas and Missouri
GCS North American 1983
39.4117°N 92.6427°W

Base Map: Esri ArcGIS Online,
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0 5 10
0 5 10
Miles
Kilometers



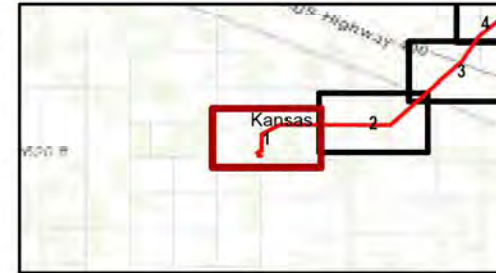
GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
Wetlands Map Book
Map 1 of 259

- Existing Saddle Substation
- ROW
- Permanent Project Component**
- Transmission Structure
- Converter Station

- Habitat Conversion**
- Vegetation Clearing
- Temporary Project Component**
- Access Road
- Converter Station
- Pull Site/Tension Site

- Hydrology**
- Delineated Stream
- PLJV Playa
- Delineated Wetland**
- Palustrine Emergent (PEM)

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented



Kansas and Missouri

GCS North American 1983
38.3365°N 95.5783°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/26/2024
Project No. 60694559
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Kansas and Missouri

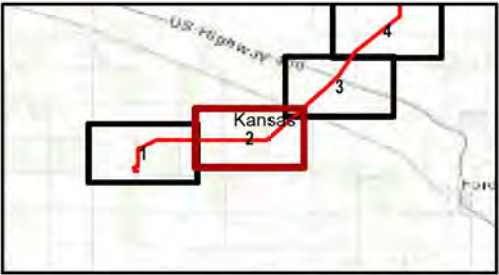


GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
Wetlands Map Book
Map 2 of 259

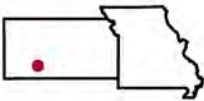
Permanent Project Component
■ Transmission Structure
Habitat Conversion
■ Vegetation Clearing

Temporary Project Component
■ Access Road
□ Pull Site/Tension Site

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented



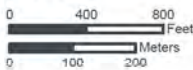
Kansas and Missouri
GCS North American 1983
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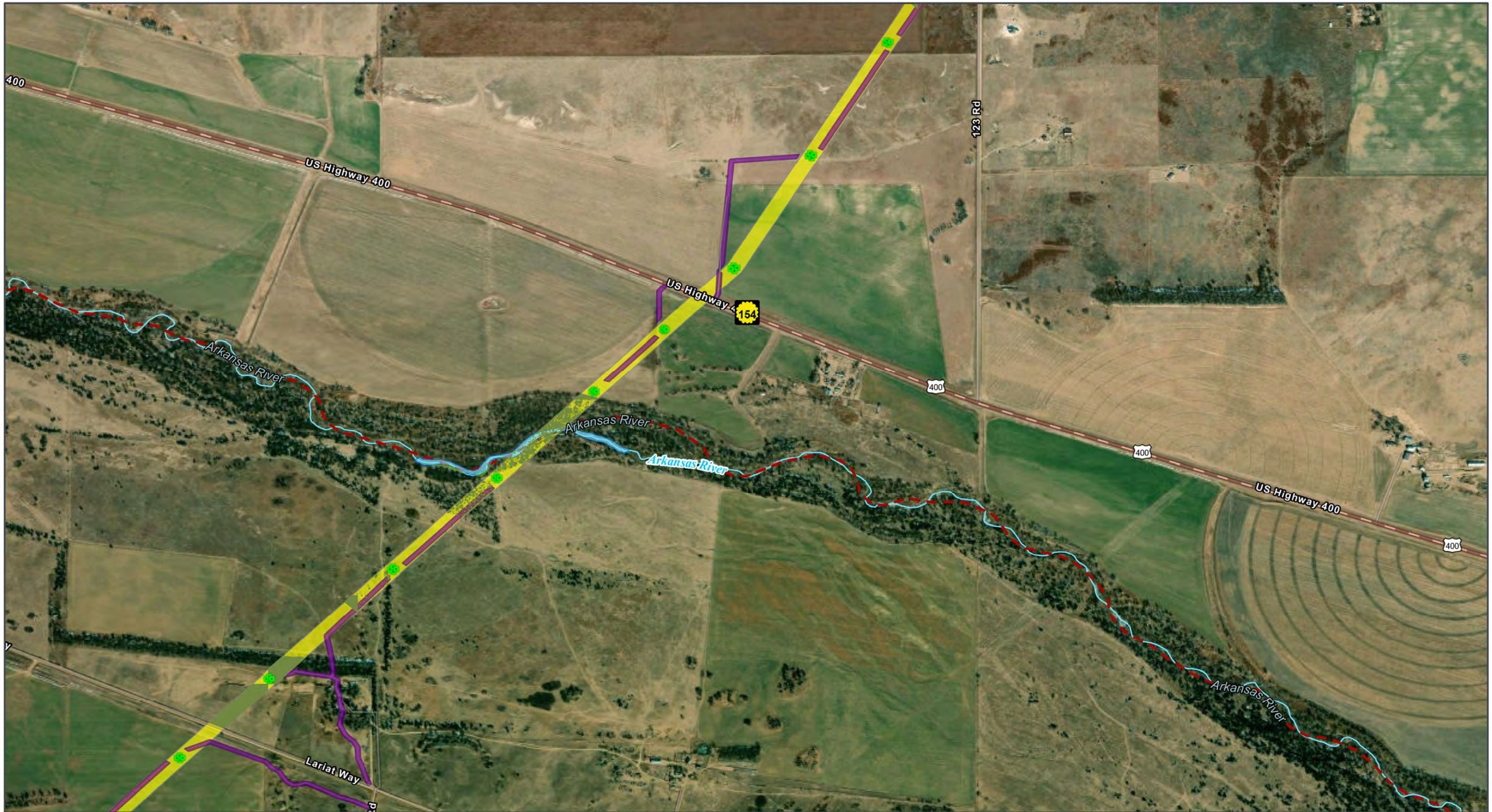


Kansas and Missouri

Base Map: Esri ArcGIS Online,
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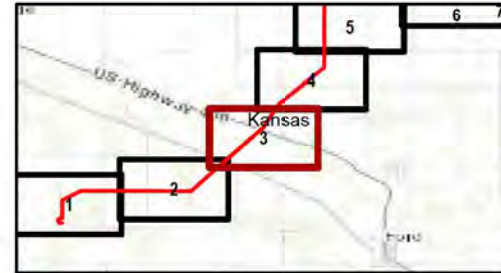
GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
Wetlands Map Book
Map 3 of 259

- ROW
- Permanent Project Component**
 - Transmission Structure
- Habitat Conversion**
 - Vegetation Clearing

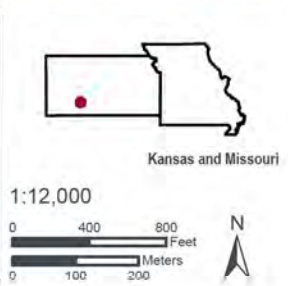
- Temporary Project Component**
 - Access Road
- Hydrology**
 - NHD Stream/River
 - Impaired Waterway (303d)

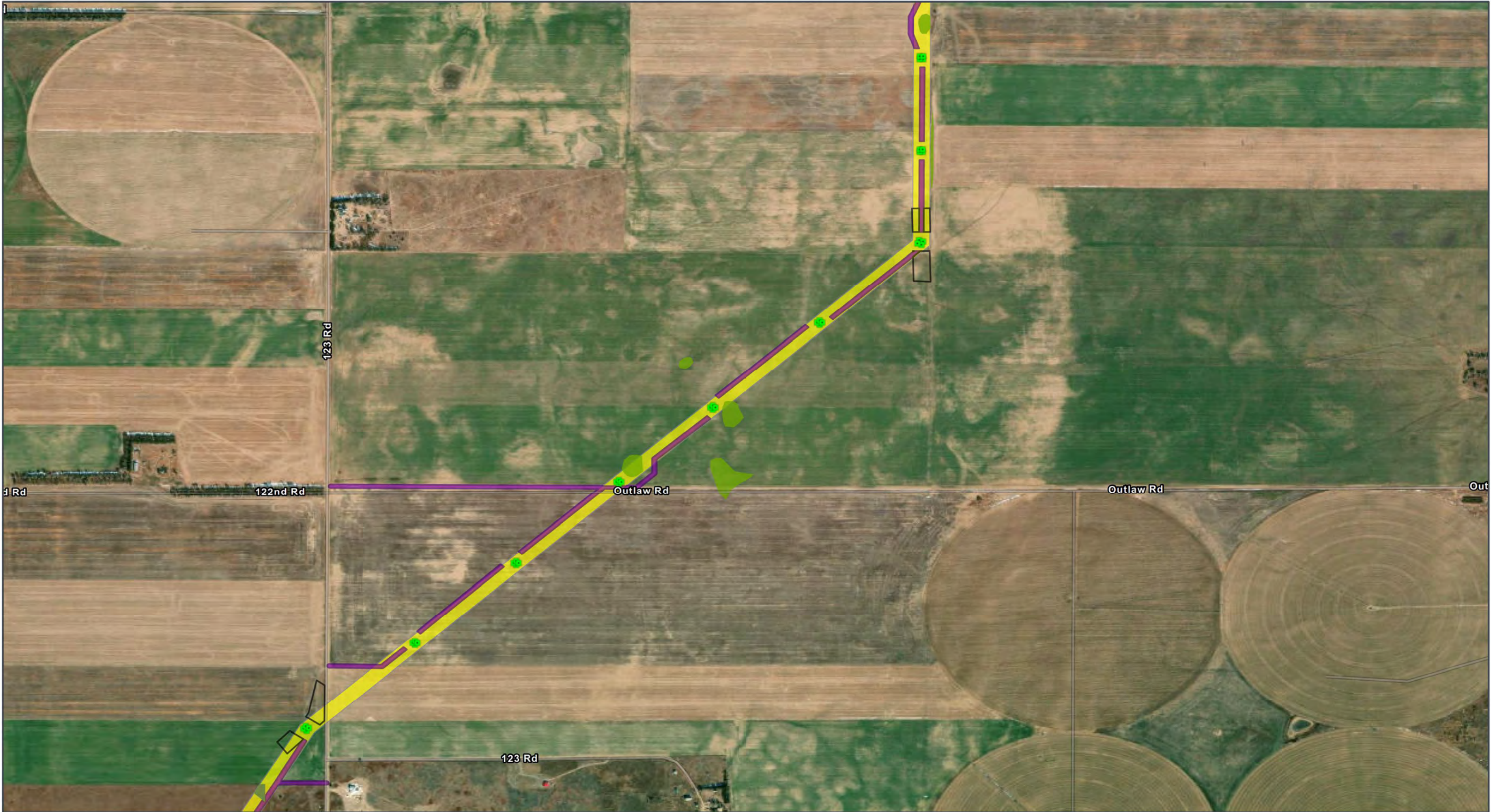
- Delineated Wetland**
 - Palustrine Emergent (PEM)
 - Delineated Waterbody
- Transportation**
 - State Highway

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented



Kansas and Missouri
GCS North American 1983
38.3365°N 95.5783°W
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accessed November 2024
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Project No. 60694559
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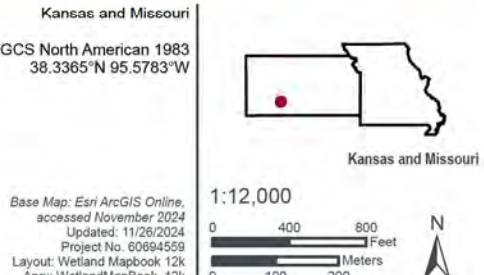
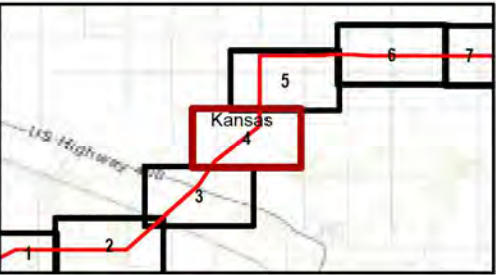


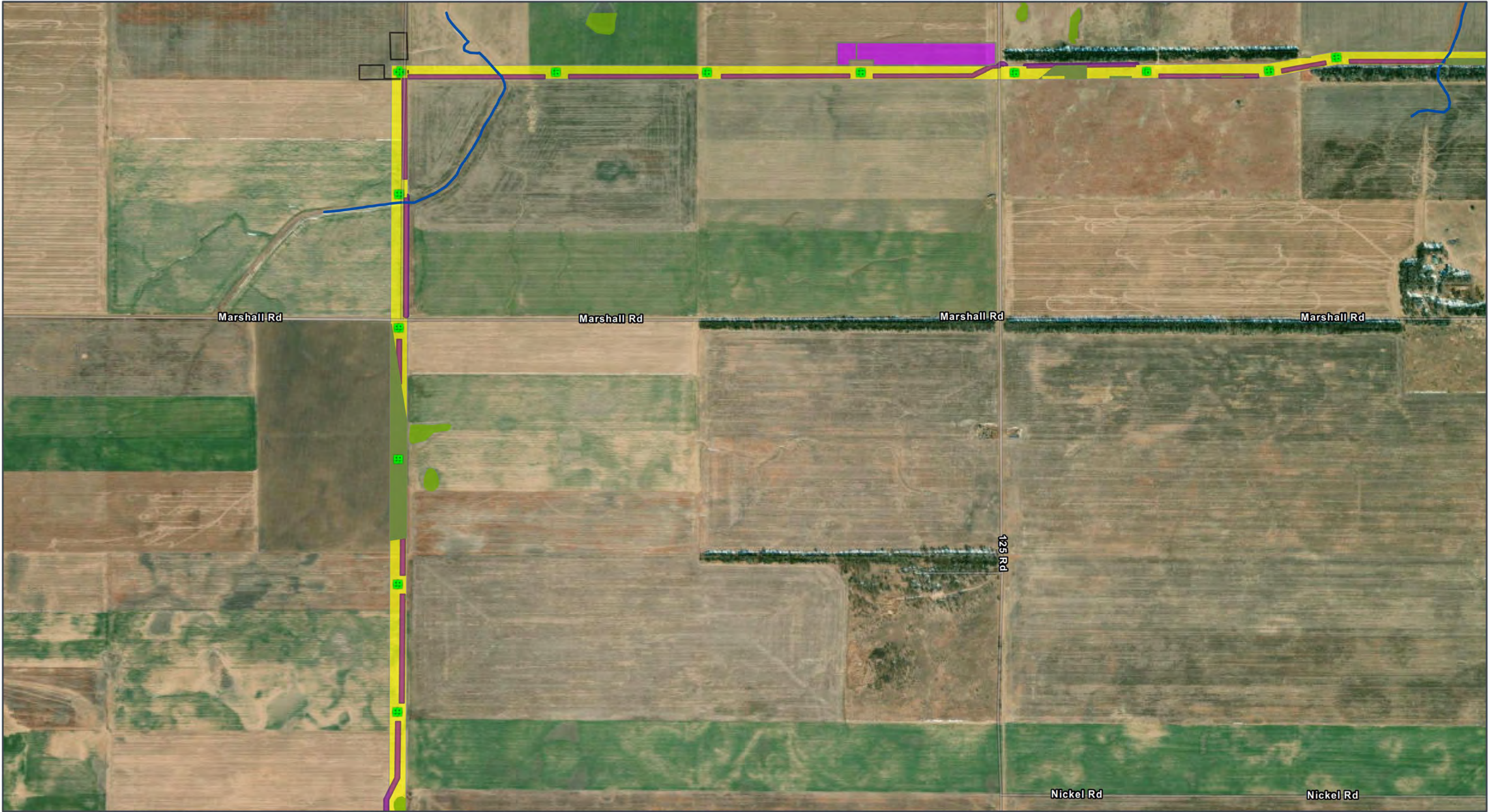


GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
Wetlands Map Book
Map 4 of 259

- | | | |
|---------------------------|------------------------------------|------------------------------------|
| ROW | Permanent Project Component | Temporary Project Component |
| ROW | Transmission Structure | Access Road |
| Habitat Conversion | Vegetation Clearing | Pull Site/Tension Site |
| | | Delineated Wetland |
| | | Palustrine Emergent (PEM) |

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented





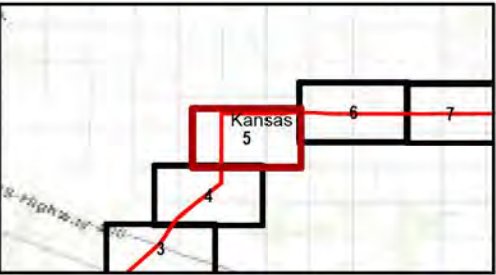
GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
Wetlands Map Book
Map 5 of 259

- ROW
- Permanent Project Component**
- Transmission Structure
- Habitat Conversion**
- Vegetation Clearing

- Temporary Project Component**
- Access Road
- Helipad / Fly Yard
- Pull Site/Tension Site

- Hydrology**
- Delineated Stream
- Delineated Wetland**
- Palustrine Emergent (PEM)

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented



Kansas and Missouri
GCS North American 1983
38.3365°N 95.5783°W

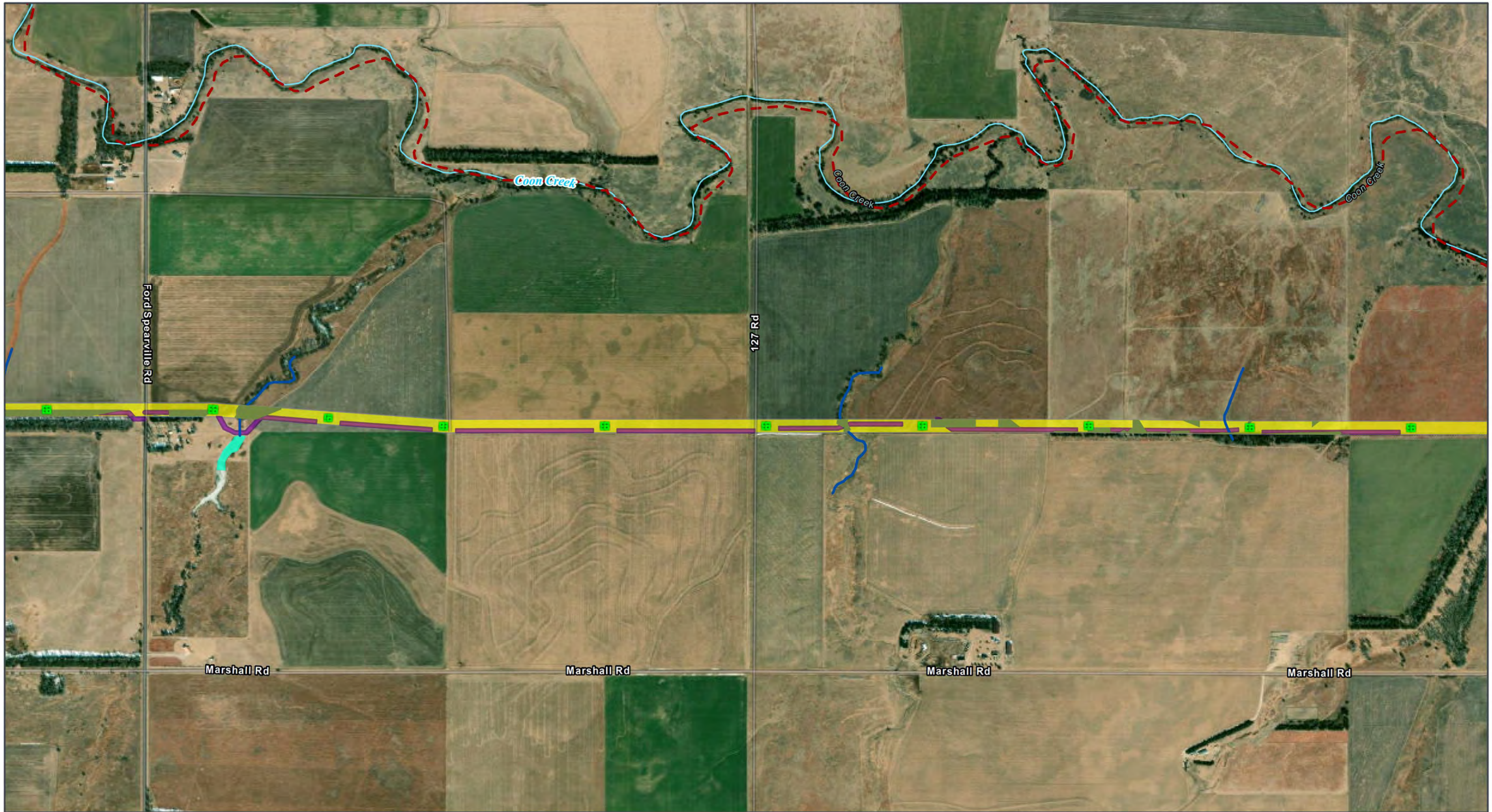
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Kansas and Missouri



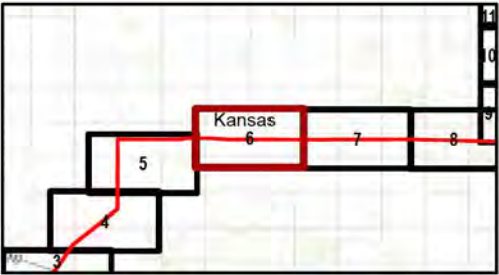
GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
Wetlands Map Book
Map 6 of 259

- ROW
- Permanent Project Component**
- Transmission Structure
- Habitat Conversion**
- Vegetation Clearing

- Temporary Project Component**
- Access Road
- Hydrology**
- Delineated Stream
- NHD Stream/River

- Impaired Waterway (303d)
- Delineated Wetland**
- Palustrine Aquatic Bed (PAB)

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented



Kansas and Missouri
GCS North American 1983
38.3365°N 95.5783°W

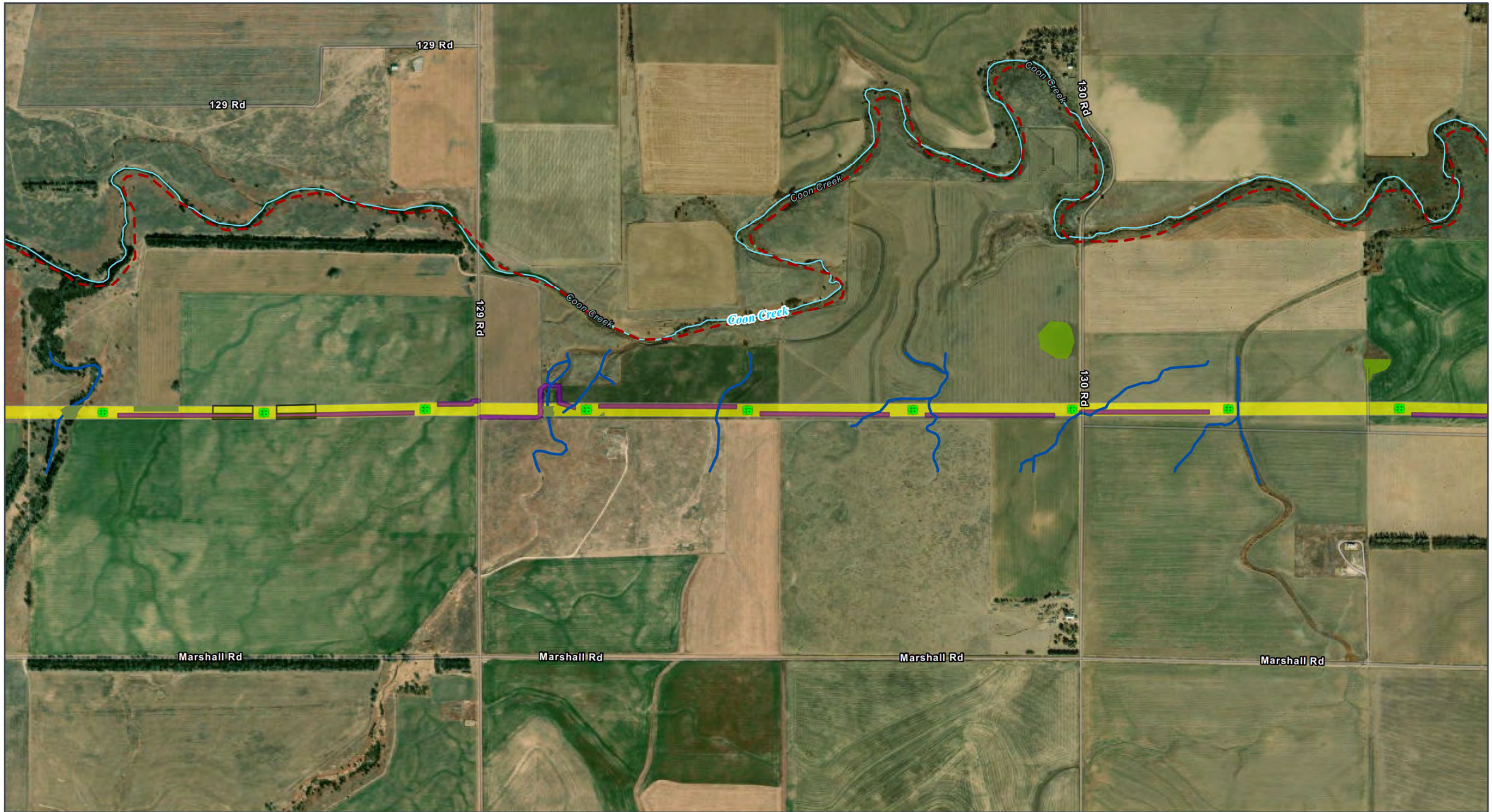
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Kansas and Missouri



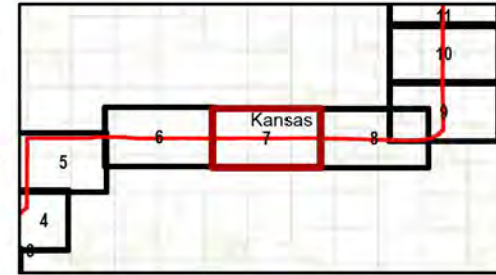
GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
Wetlands Map Book
Map 7 of 259

- ROW
- Permanent Project Component**
- Transmission Structure
- Habitat Conversion**
- Vegetation Clearing

- Temporary Project Component**
- Access Road
- Pull Site/Tension Site
- Hydrology**
- Delineated Stream

- NHD Stream/River
- Impaired Waterway (303d)
- Delineated Wetland**
- Palustrine Emergent (PEM)

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented



Kansas and Missouri
GCS North American 1983
38.3365°N 95.5783°W

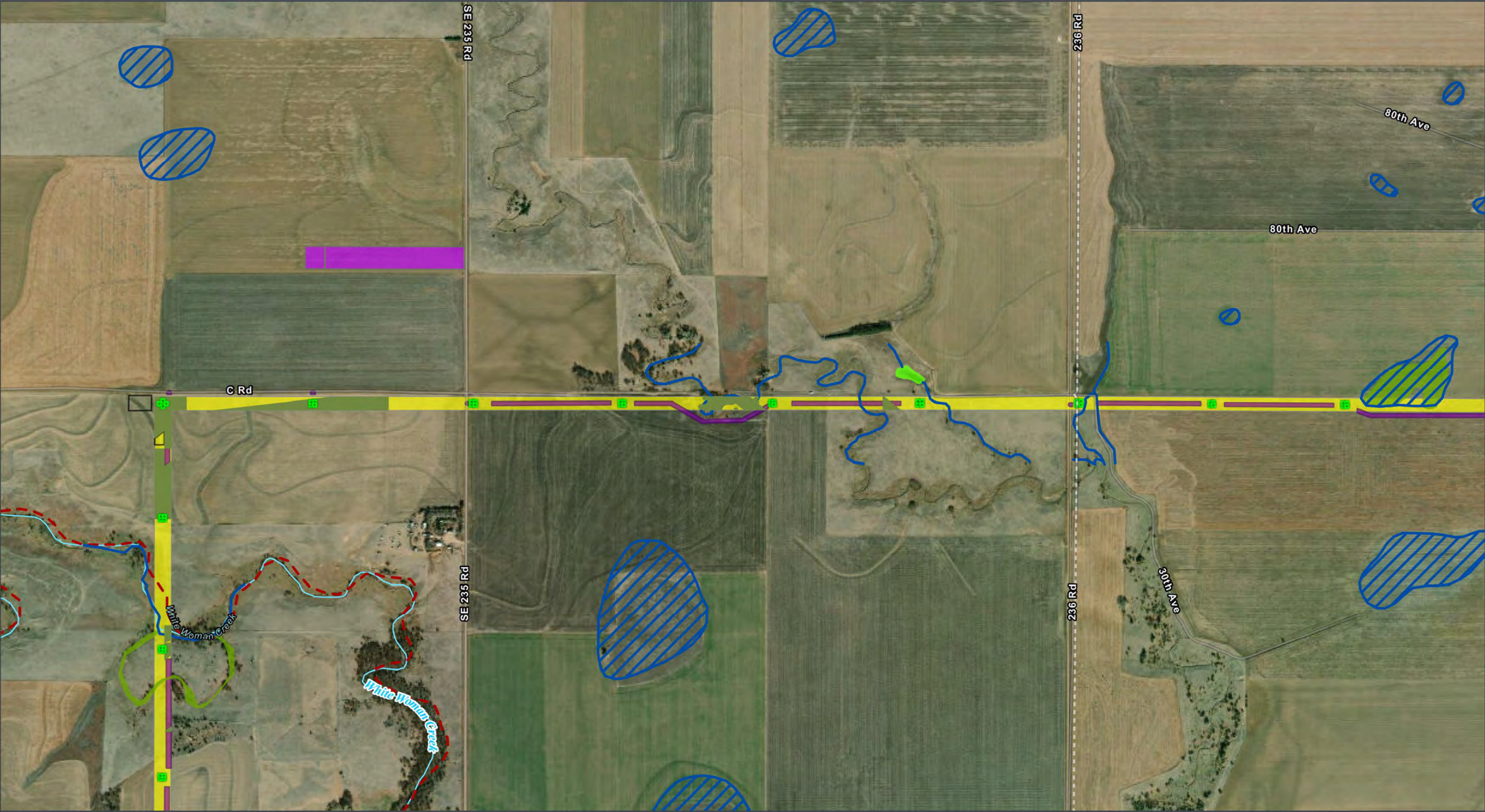
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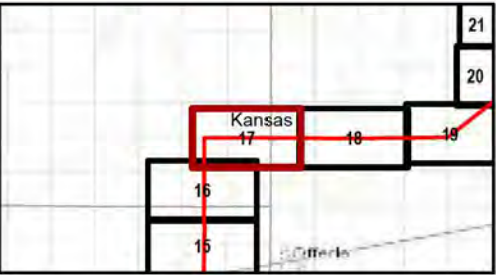
Kansas and Missouri



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
Wetlands Map Book
Map 8 of 259

- | | | |
|--|--|--|
| ROW
Transmission Structure
Habitat Conversion
Vegetation Clearing | Temporary Project Component
Access Road
Helipad / Fly Yard
Pull Site/Tension Site
Hydrology
Delineated Stream | Delineated Wetland
PLJV Playa
NHD Stream/River
Impaired Waterway (303d)
Palustrine Emergent (PEM)
Palustrine Unconsolidated Bottom (PUB) |
|--|--|--|

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented



Kansas and Missouri
GCS North American 1983
38.3365°N 95.5783°W

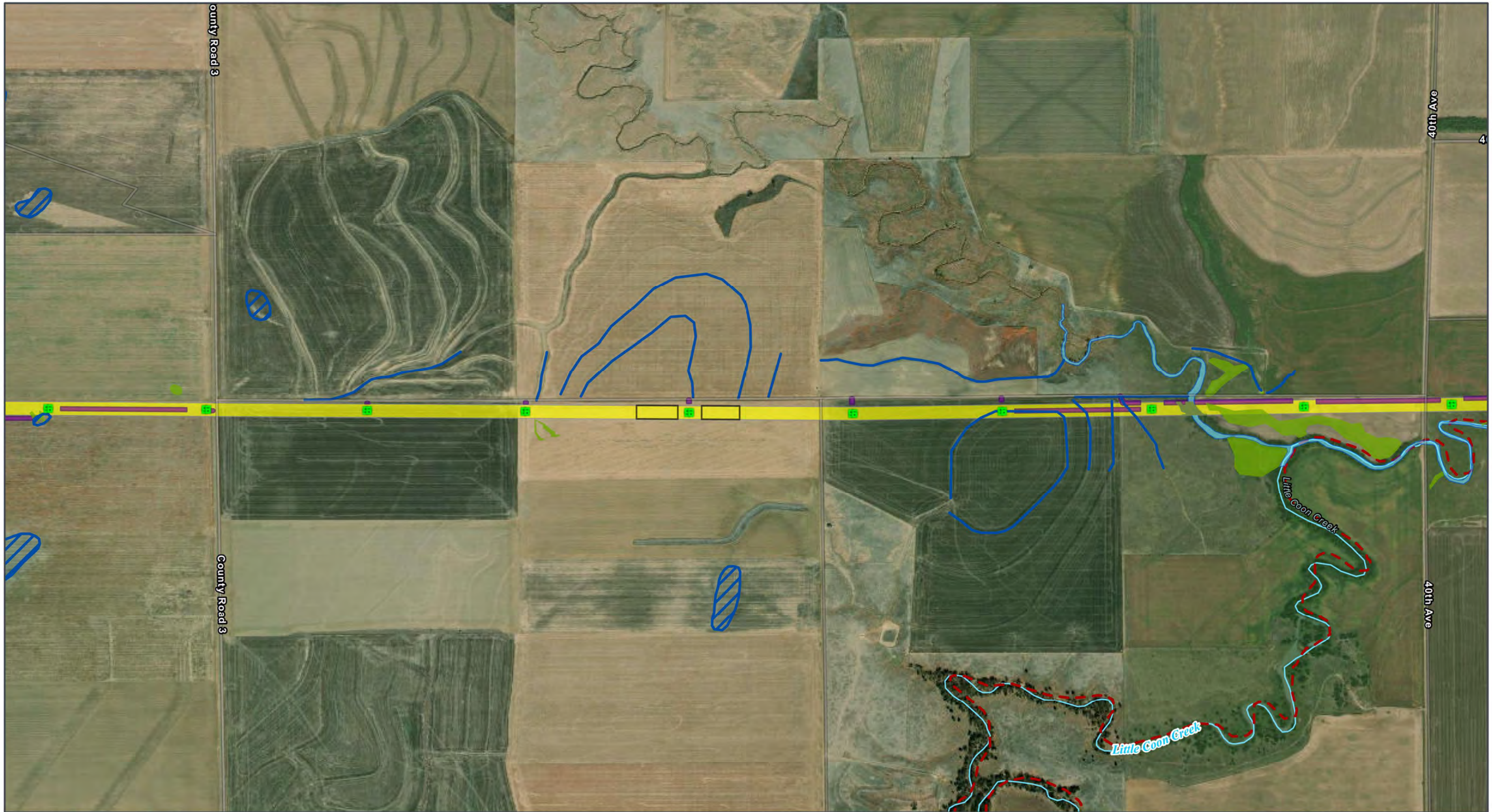
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Kansas and Missouri



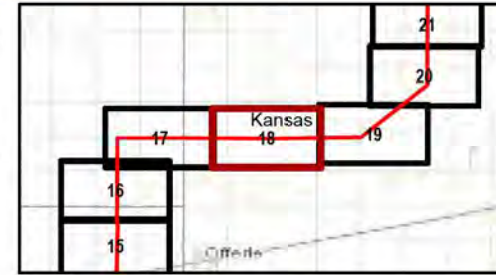
GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
Wetlands Map Book
Map 9 of 259

- ROW
- Permanent Project Component**
- Transmission Structure
- Habitat Conversion**
- Vegetation Clearing

- Temporary Project Component**
- Access Road
- Pull Site/Tension Site
- Hydrology**
- Delineated Stream
- PLJV Plays

- NHD Stream/River
- Impaired Waterway (303d)
- Delineated Wetland**
- Palustrine Emergent (PEM)
- Delineated Waterbody

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented



Kansas and Missouri
GCS North American 1983
38.3365°N 95.5783°W

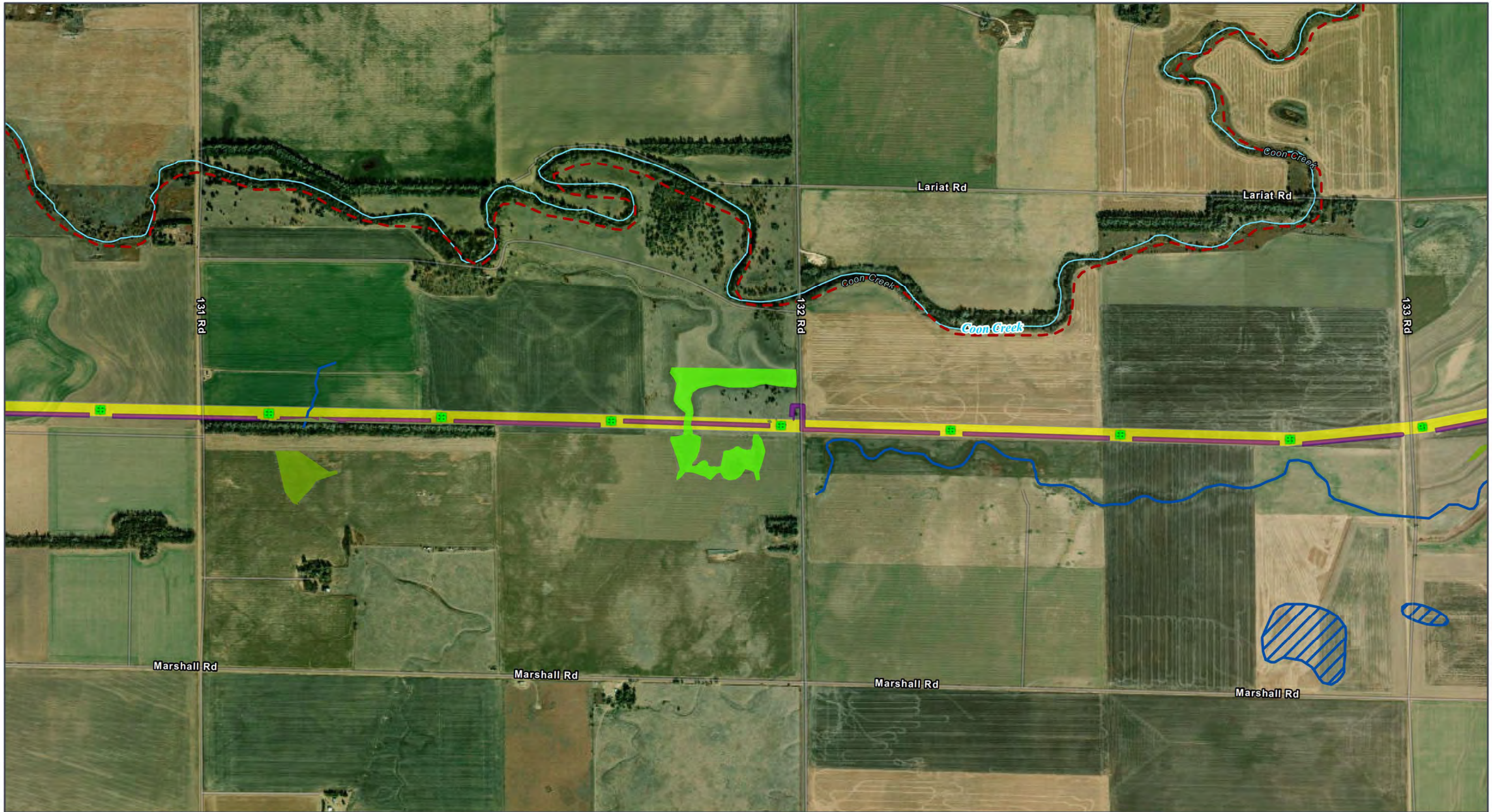
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Kansas and Missouri



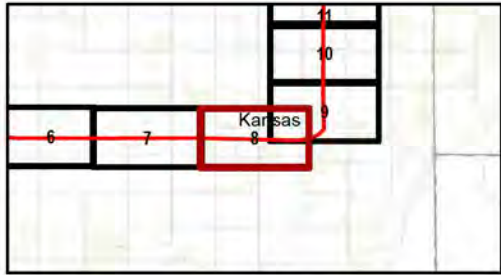
GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
Wetlands Map Book
Map 10 of 259

- Permanent Project Component**
- Transmission Structure
 - Habitat Conversion**
 - Vegetation Clearing

- Temporary Project Component**
- Access Road
 - Hydrology**
 - Delineated Stream
 - PLJV Playa

- NHD Stream/River
- Impaired Waterway (303d)
- Delineated Wetland**
- Palustrine Emergent (PEM)
- Palustrine Unconsolidated Bottom (PUB)

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented



Kansas and Missouri
GCS North American 1983
38.3365°N 95.5783°W

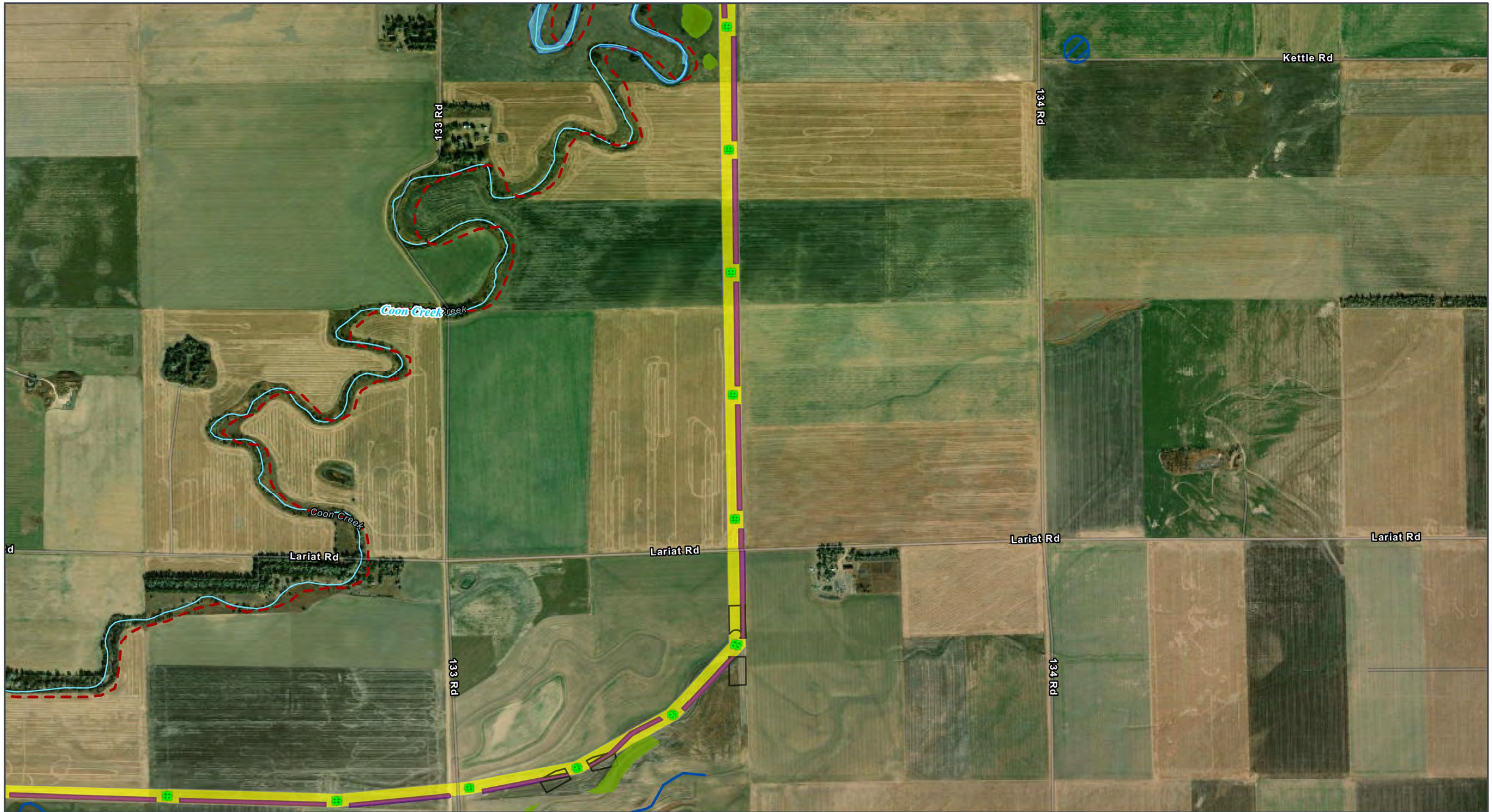
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Project No. 60694559
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0 400 800 Feet
0 100 200 Meters

N

Kansas and Missouri



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT

Wetlands Map Book

Map 11 of 259

Permanent Project Component

- Transmission Structure

Temporary Project Component

- Access Road

Hydrology

- Pull Site/Tension Site
- Delineated Stream
- PLJV Playa
- NHD Stream/River

Delineated Wetland

- Impaired Waterway (303d)
- Palustrine Emergent (PEM)
- Delineated Waterbody

ROW

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented

Kansas and Missouri

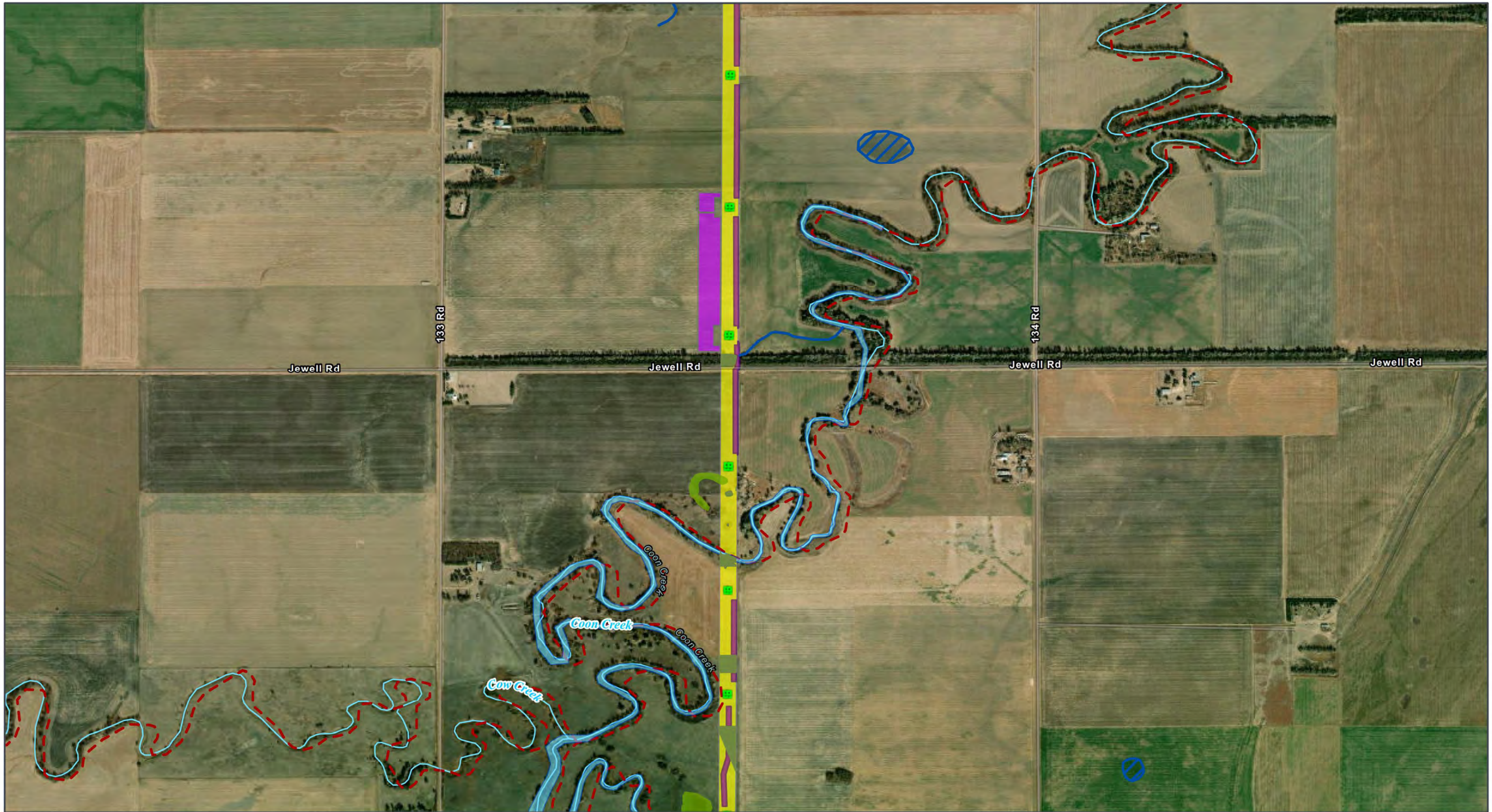
GCS North American 1983
38.3365°N 95.5783°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/26/2024
Project No. 60694559
Layout: Wetland Mapbook 12k
From: WetlandMapBook_12k

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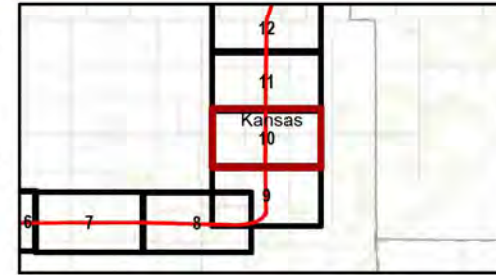
GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
Wetlands Map Book
Map 12 of 259

- ROW
- Permanent Project Component**
- Transmission Structure
- Habitat Conversion**
- Vegetation Clearing

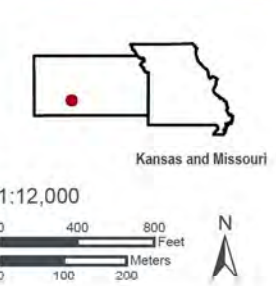
- Temporary Project Component**
- Access Road
- Helipad / Fly Yard
- Hydrology**
- Delineated Stream
- PLJV Playa

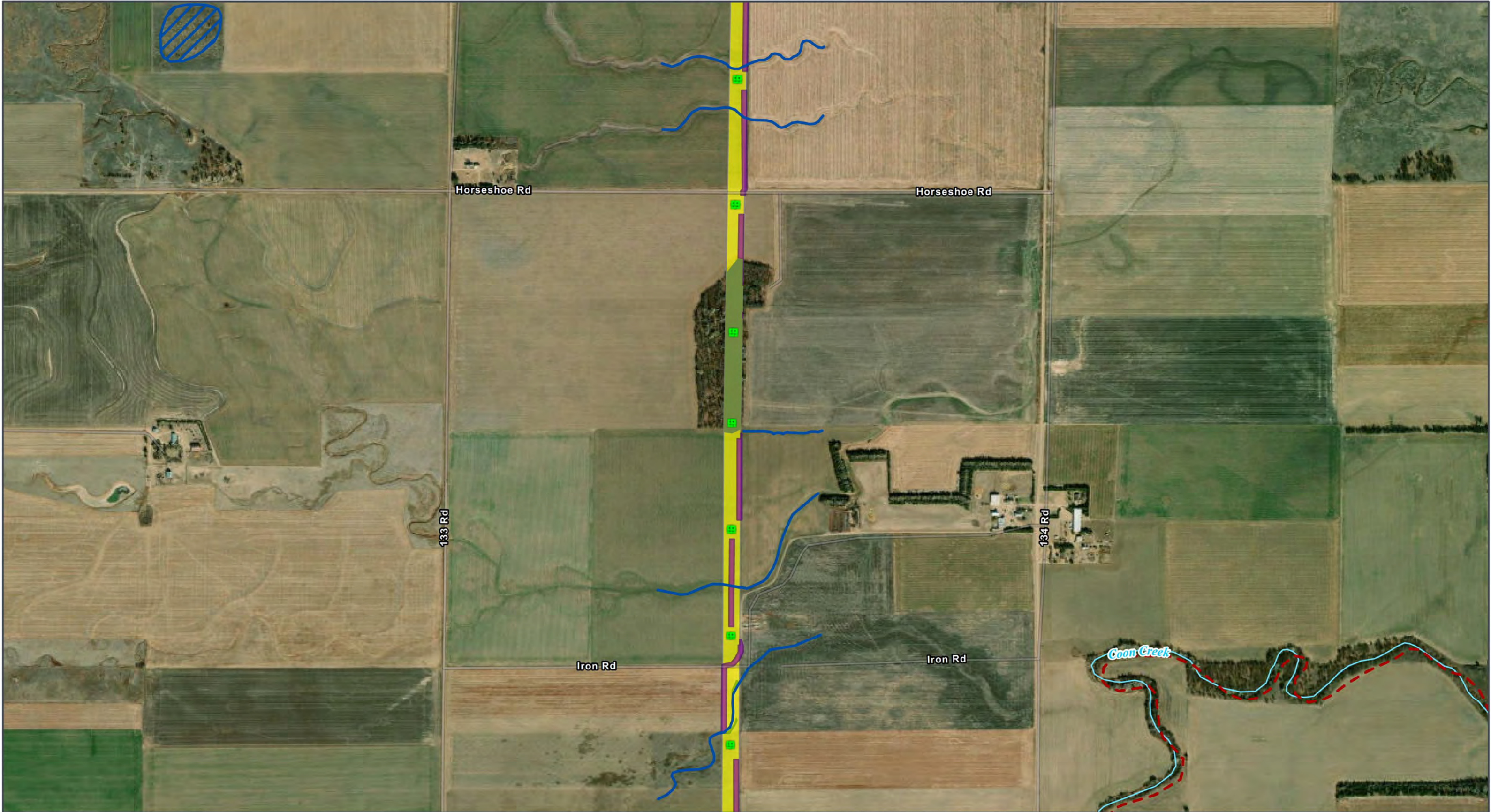
- NHD Stream/River
- Impaired Waterway (303d)
- Delineated Wetland**
- Palustrine Emergent (PEM)
- Delineated Waterbody

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented



Kansas and Missouri
GCS North American 1983
38.3365°N 95.5783°W
Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/26/2024
Project No. 60694559
Layout: Wetland Mapbook 12k
Aero: WetlandMapBook_12k





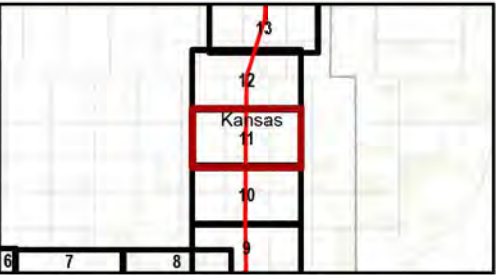
GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
Wetlands Map Book
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Permanent Project Component
Transmission Structure
Habitat Conversion
Vegetation Clearing

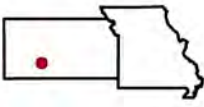
Temporary Project Component
Access Road
Hydrology
Delineated Stream
PLJV Playa

NHD Stream/River
Impaired Waterway (303d)
Delineated Wetland
Palustrine Emergent (PEM)

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented



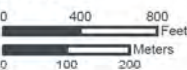
Kansas and Missouri
GCS North American 1983
38.3365°N 95.5783°W



Kansas and Missouri

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/26/2024
Project No. 60694559
Layout: Wetland Mapbook 12k
From: WetlandMapBook_12k

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GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
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- ROW

Permanent Project Component

Transmission Structure

Temporary Project Component

Access Road
- Pull Site/Tension Site

Hydrology

Delineated Stream

PLJV Playa

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented



Kansas and Missouri

GCS North American 1983
38.3365°N 95.5783°W

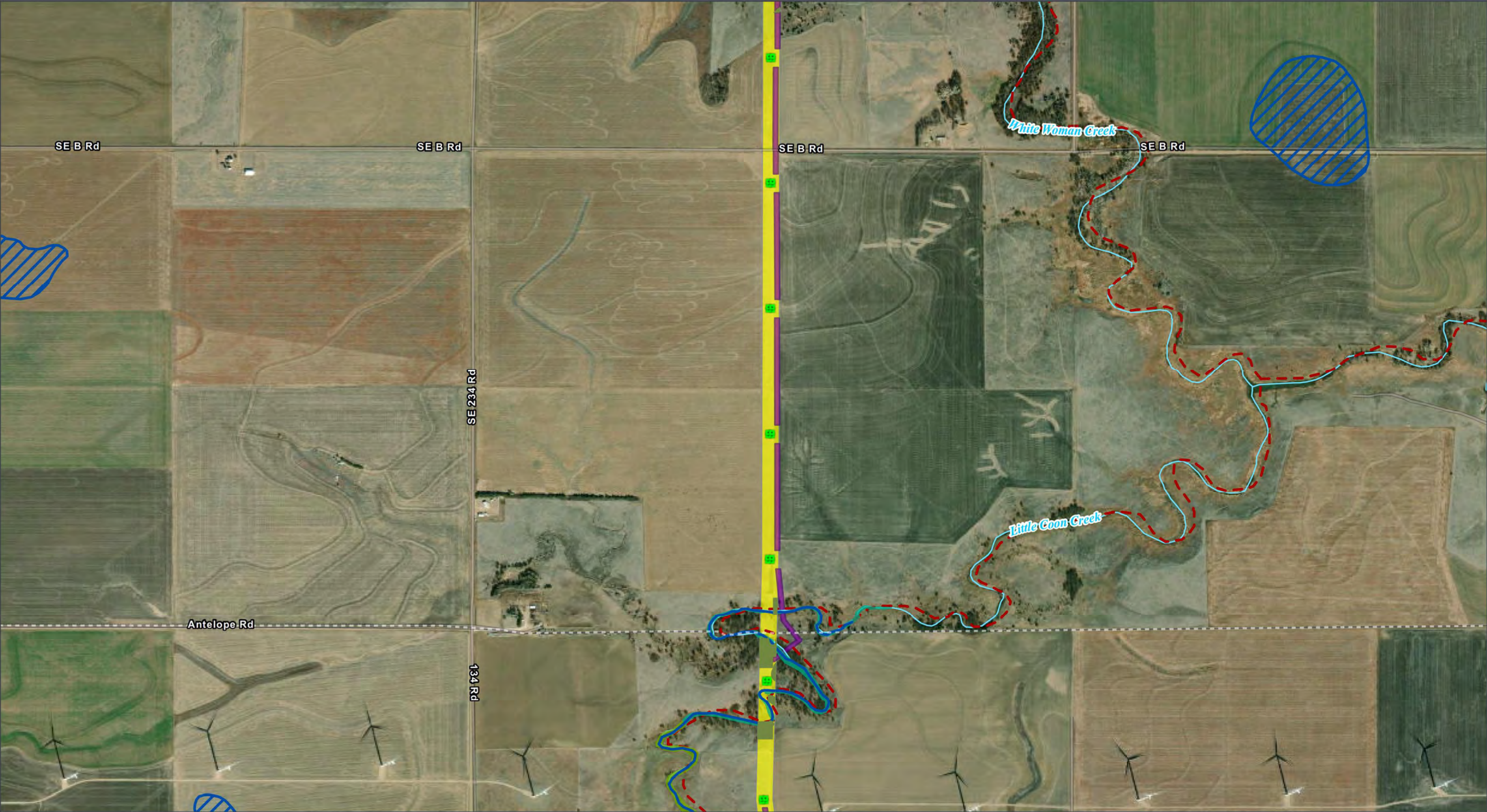
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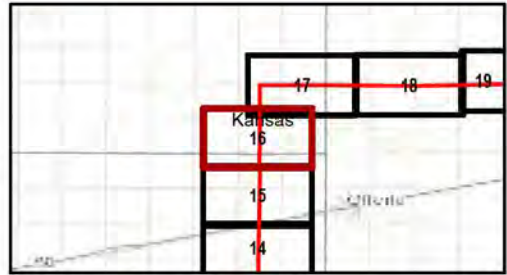
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GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
Wetlands Map Book
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- | | | |
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| ROW
Permanent Project Component
Transmission Structure
Habitat Conversion
Vegetation Clearing | Temporary Project Component
Access Road
Hydrology
Delineated Stream
PLJV Playa | NHD Stream/River
Impaired Waterway (303d)
Delineated Wetland
Palustrine Emergent (PEM)
Palustrine Forested (PFO) |
|--|--|--|

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented



Kansas and Missouri
GCS North American 1983
38.3365°N 95.5783°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/26/2024
Project No. 60694559
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Aron: WetlandMapBook_12k

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0 100 200 Meters

Kansas and Missouri

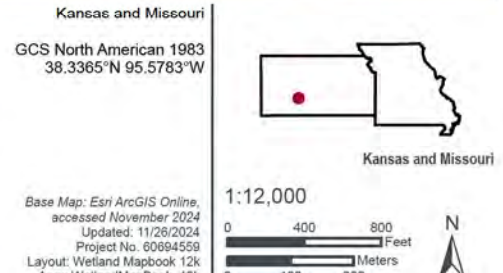
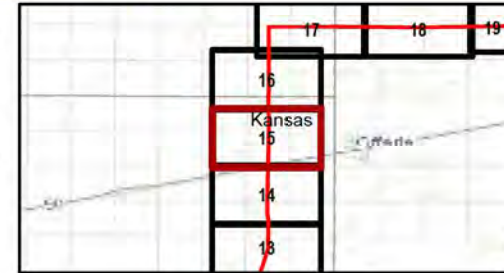


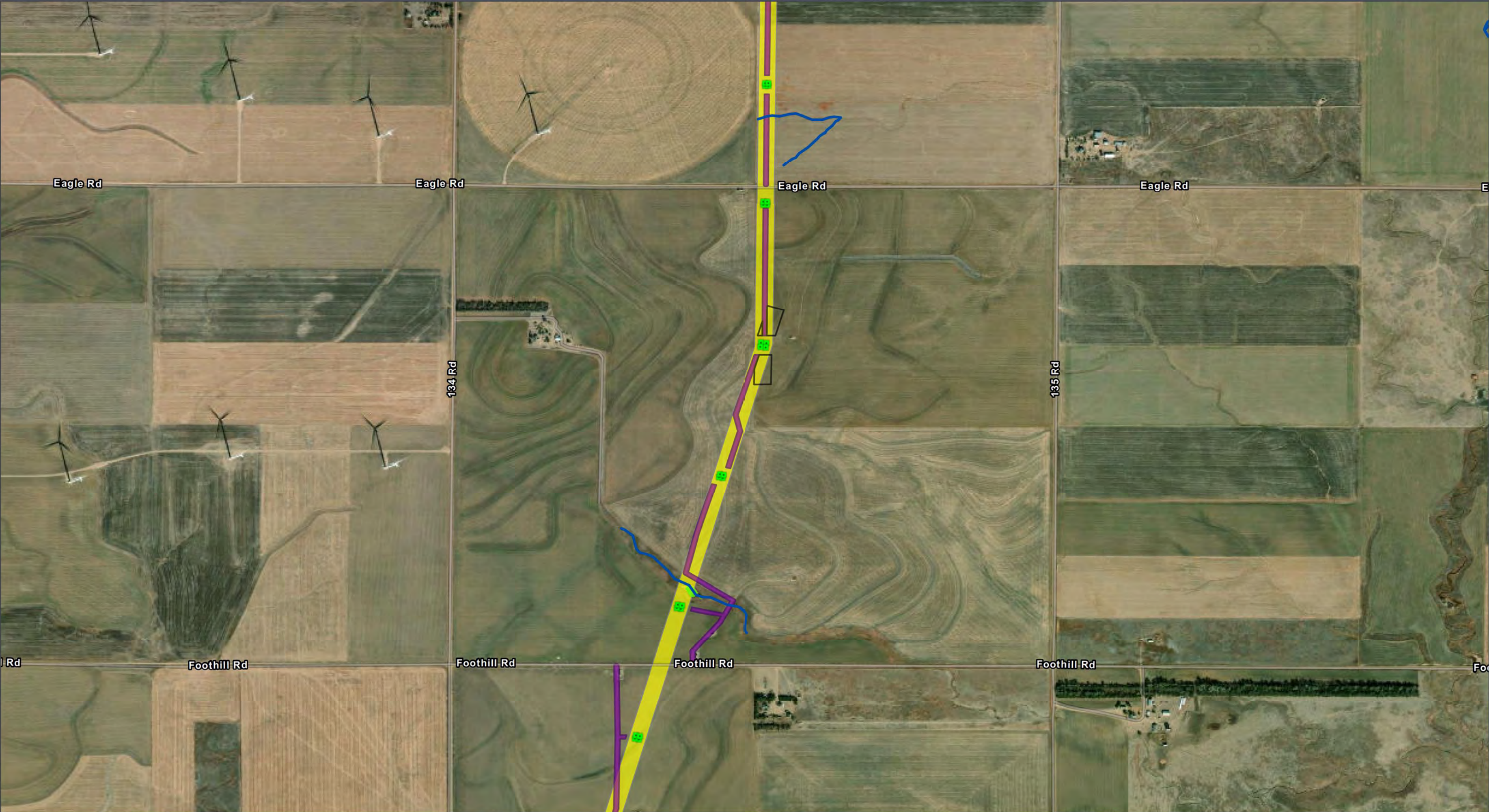
GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
Wetlands Map Book
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- | | | |
|------------------------------------|-----|--------------------------|
| Permanent Project Component | ROW | Pull Site/Tension Site |
| Transmission Structure | | Hydrology |
| Habitat Conversion | | Delineated Stream |
| Vegetation Clearing | | PLJV Playa |
| Temporary Project Component | | NHD Stream/River |
| Access Road | | Impaired Waterway (303d) |

- Delineated Wetland**
- Palustrine Emergent (PEM)
- Transportation**
- U.S. Highway
- Railroad

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented





GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT

Wetlands Map Book

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Permanent Project Component

- Transmission Structure

Temporary Project Component

- Access Road
- Pull Site/Tension Site

Hydrology

- Delineated Stream

Delineated Wetland

- PLJV Playa
- Palustrine Emergent (PEM)
- Palustrine Unconsolidated Bottom (PUB)

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented

Kansas and Missouri

GCS North American 1983
38.3365°N 95.5783°W

Base Map: Esri ArcGIS Online, accessed November 2024
Updated: 11/26/2024
Project No. 60694559
Layout: Wetland Mapbook 12k
Acrs: WetlandMapBook_12k

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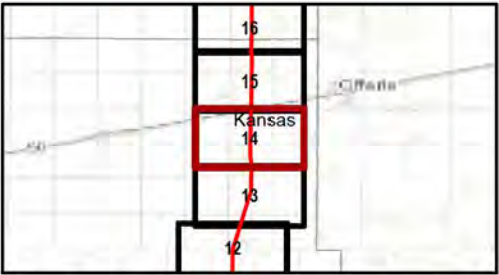
GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
Wetlands Map Book
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- Permanent Project Component**
- Transmission Structure
 - Habitat Conversion**
 - Vegetation Clearing

- Temporary Project Component**
- Access Road
 - Hydrology**
 - Delineated Stream
 - PLJV Playa
 - Delineated Wetland**
 - Palustrine Emergent (PEM)

- Palustrine Unconsolidated Bottom (PUB)
- Transportation**
- U.S. Highway
- Railroad

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented



Kansas and Missouri
GCS North American 1983
38.3365°N 95.5783°W

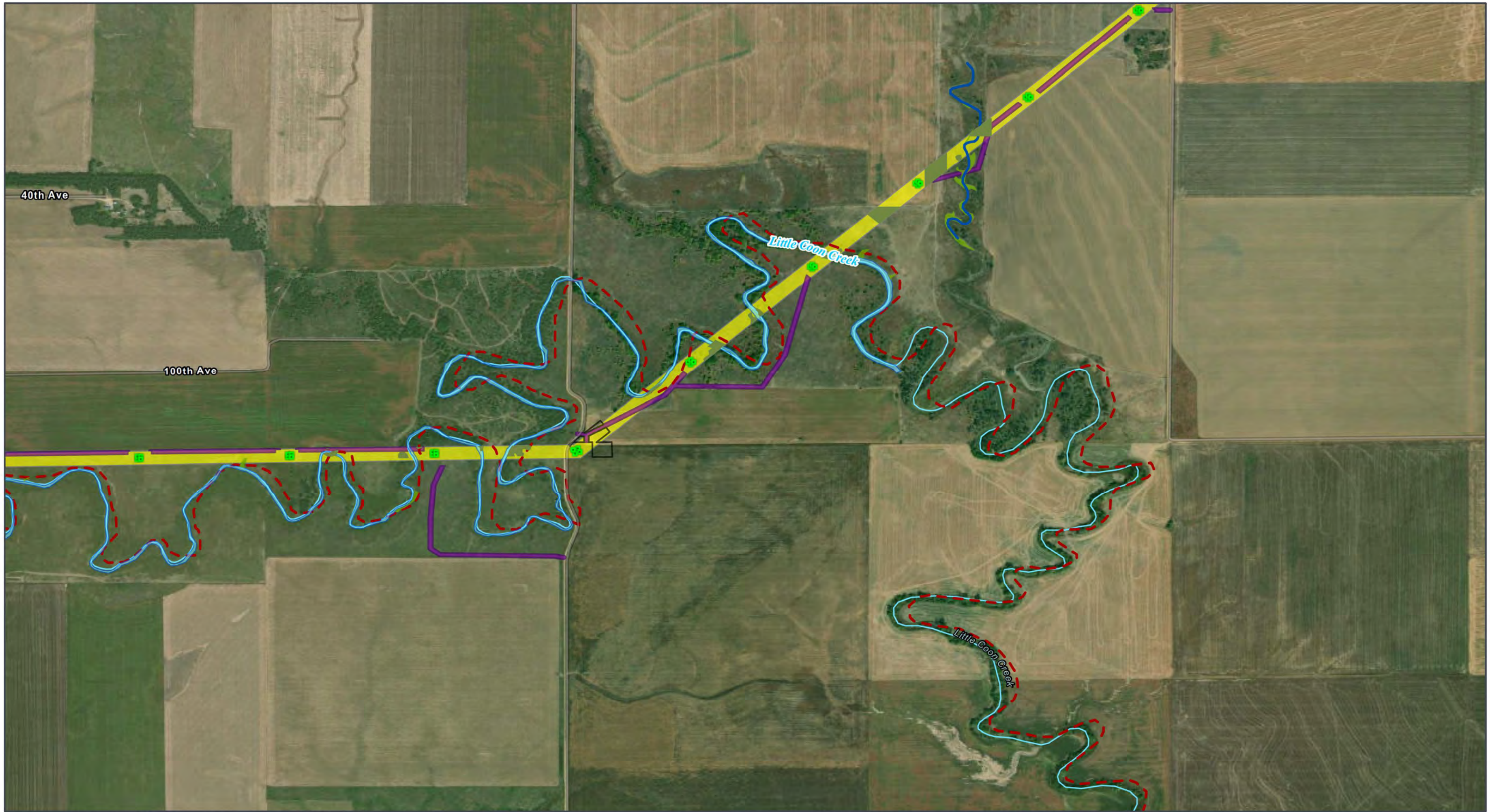
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Updated: 11/26/2024
Project No. 60694559
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Aero: WetlandMapBook_12k

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Kansas and Missouri



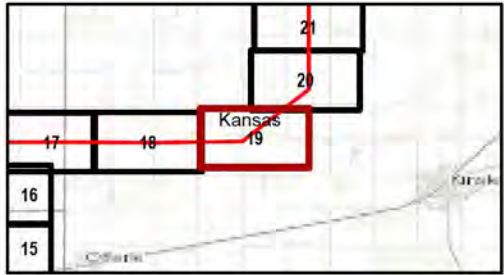
GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
Wetlands Map Book
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- ROW
- Permanent Project Component**
- Transmission Structure
- Habitat Conversion**
- Vegetation Clearing

- Temporary Project Component**
- Access Road
- Pull Site/Tension Site
- Hydrology**
- Delineated Stream

- NHD Stream/River
- Impaired Waterway (303d)
- Delineated Wetland**
- Palustrine Emergent (PEM)
- Delineated Waterbody

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented



Kansas and Missouri
GCS North American 1983
38.3365°N 95.5783°W

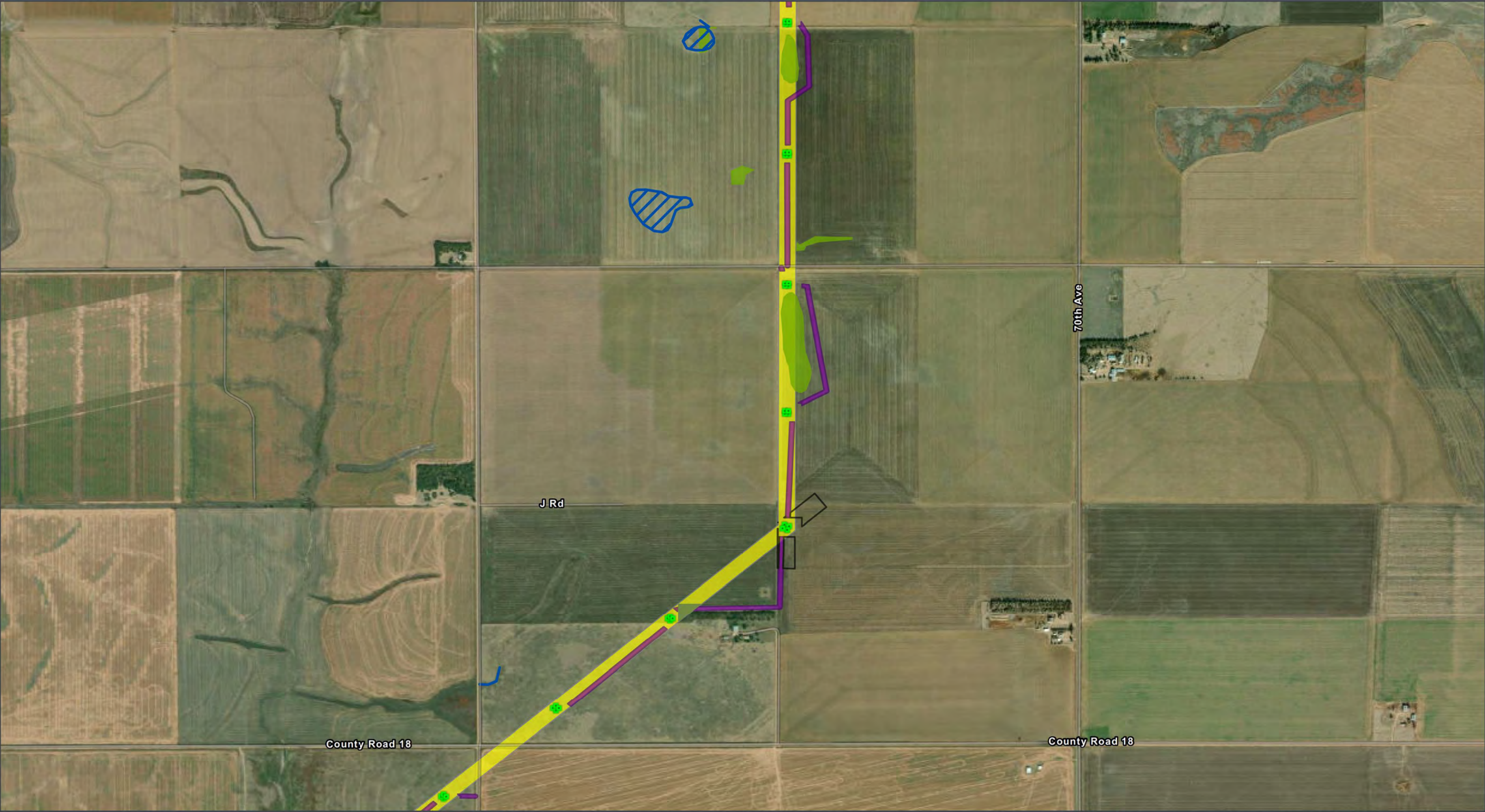
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Updated: 11/26/2024
Project No. 60694559
Layout: Wetland Mapbook 12k
Aero: WetlandMapBook_12k

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0 400 800 Feet
0 100 200 Meters

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Kansas and Missouri



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT

Wetlands Map Book

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Permanent Project Component

- Transmission Structure
- Habitat Conversion**
- Vegetation Clearing

Temporary Project Component

- Access Road
- Pull Site/Tension Site
- Hydrology**
- Delineated Stream

Delineated Wetland

- PLJV Playa
- Palustrine Emergent (PEM)

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented

Kansas and Missouri

GCS North American 1983
38.3365°N 95.5783°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/26/2024
Project No. 60694559
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Aero: WetlandMapBook_12k

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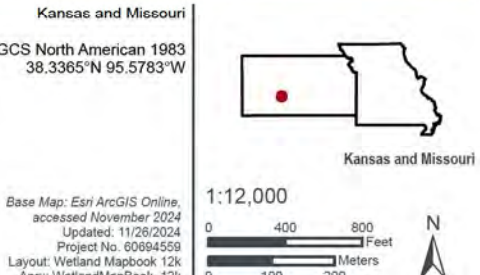
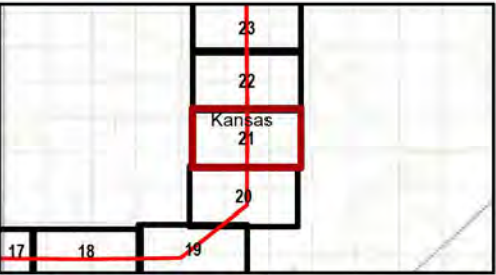


ROW
Permanent Project Component
Transmission Structure
Habitat Conversion
Vegetation Clearing

Temporary Project Component
Access Road
Hydrology
Delineated Stream

Delineated Wetland
Palustrine Emergent (PEM)
Palustrine Unconsolidated Bottom (PUB)

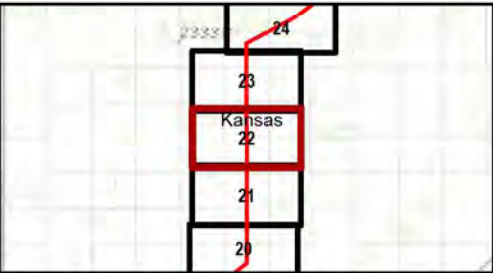
All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented





- | | |
|-----------------------------|---------------------------|
| ROW | Hydrology |
| Permanent Project Component | Delineated Stream |
| Temporary Project Component | PLJV Playa |
| Access Road | Delineated Wetland |
| Pull Site/Tension Site | Palustrine Emergent (PEM) |

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented



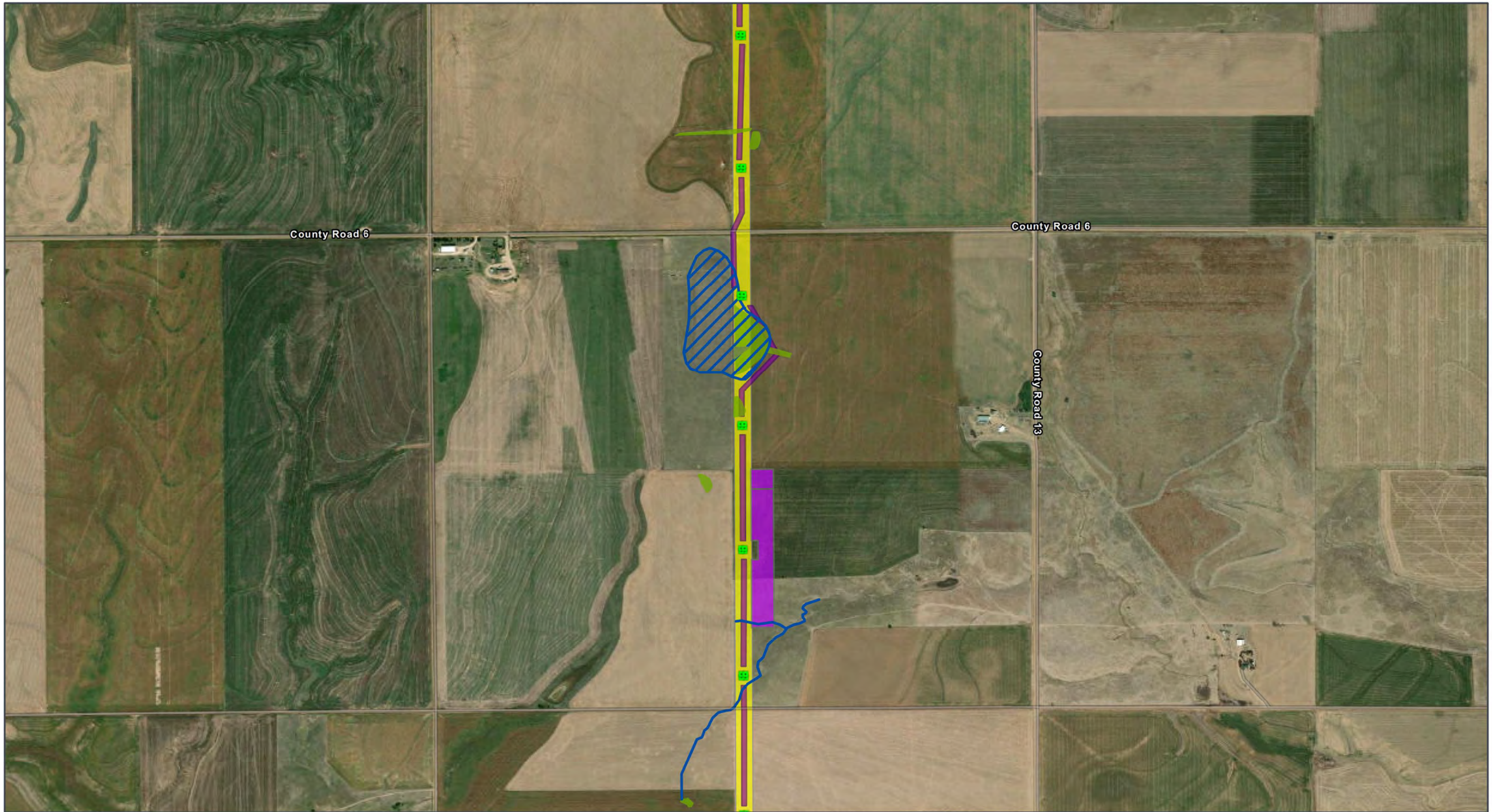
Kansas and Missouri
GCS North American 1983
38.3365°N 95.5783°W

Base Map: Esri ArcGIS Online,
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Acrs: WetlandMapBook_12k

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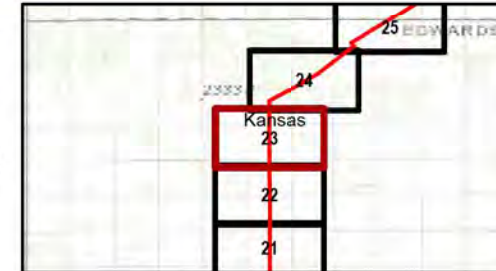
GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
Wetlands Map Book
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Permanent Project Component
Transmission Structure
Habitat Conversion
Vegetation Clearing

Temporary Project Component
Access Road
Helipad / Fly Yard
Hydrology
Delineated Stream

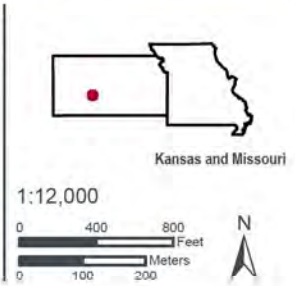
PLJV Playa
Delineated Wetland
Palustrine Emergent (PEM)

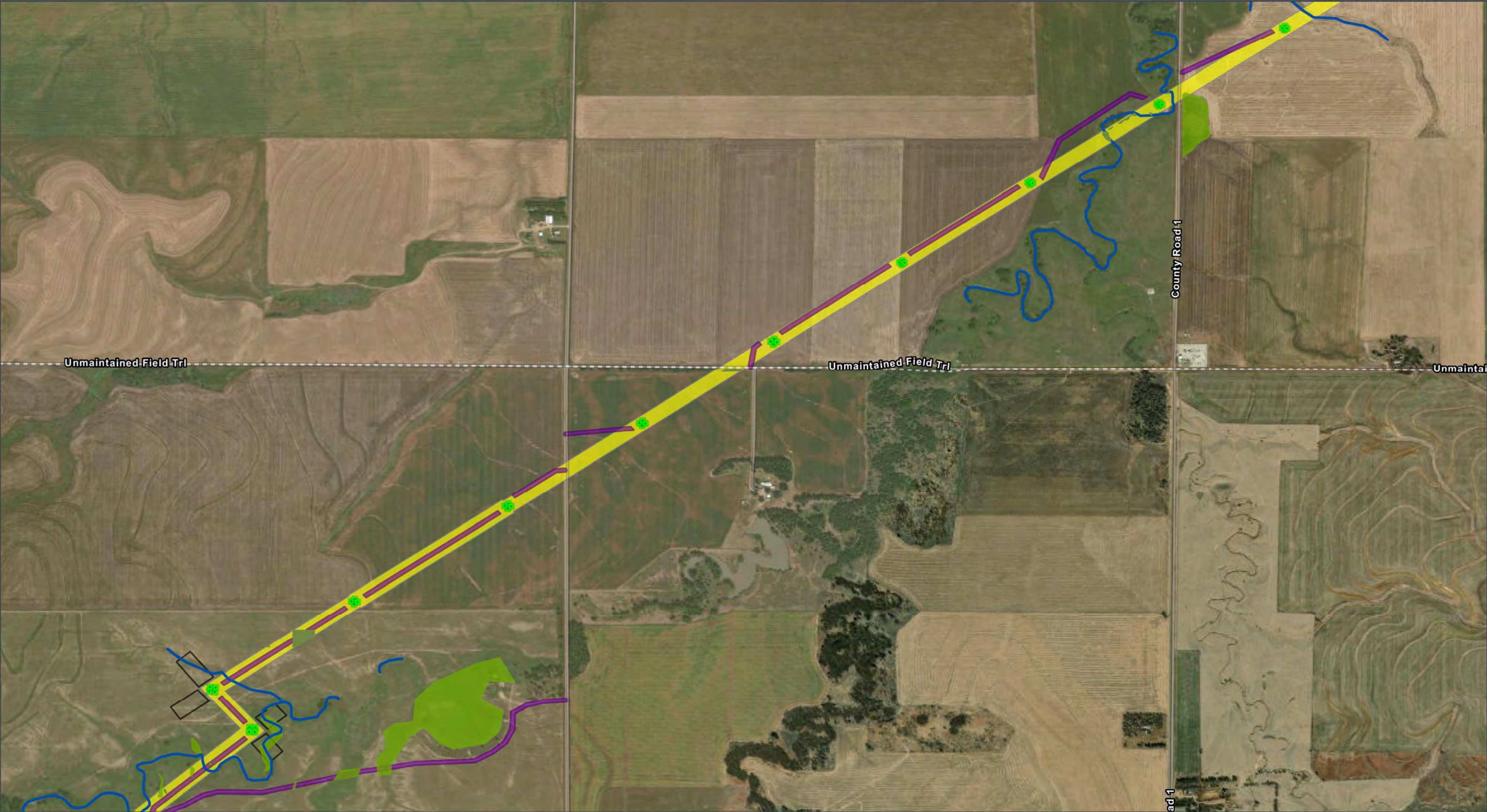
All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented



Kansas and Missouri
GCS North American 1983
38.3365°N 95.5783°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/26/2024
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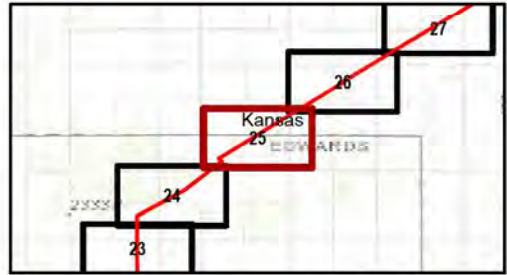




GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
Wetlands Map Book
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- | | | |
|------------------------------------|------------------------------------|---------------------------|
| Permanent Project Component | Temporary Project Component | Delineated Wetland |
| Transmission Structure | Access Road | Palustrine Emergent (PEM) |
| Habitat Conversion | Pull Site/Tension Site | |
| Vegetation Clearing | Hydrology | |
| | Delineated Stream | |

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented



Kansas and Missouri
GCS North American 1983
38.3365°N 95.5783°W

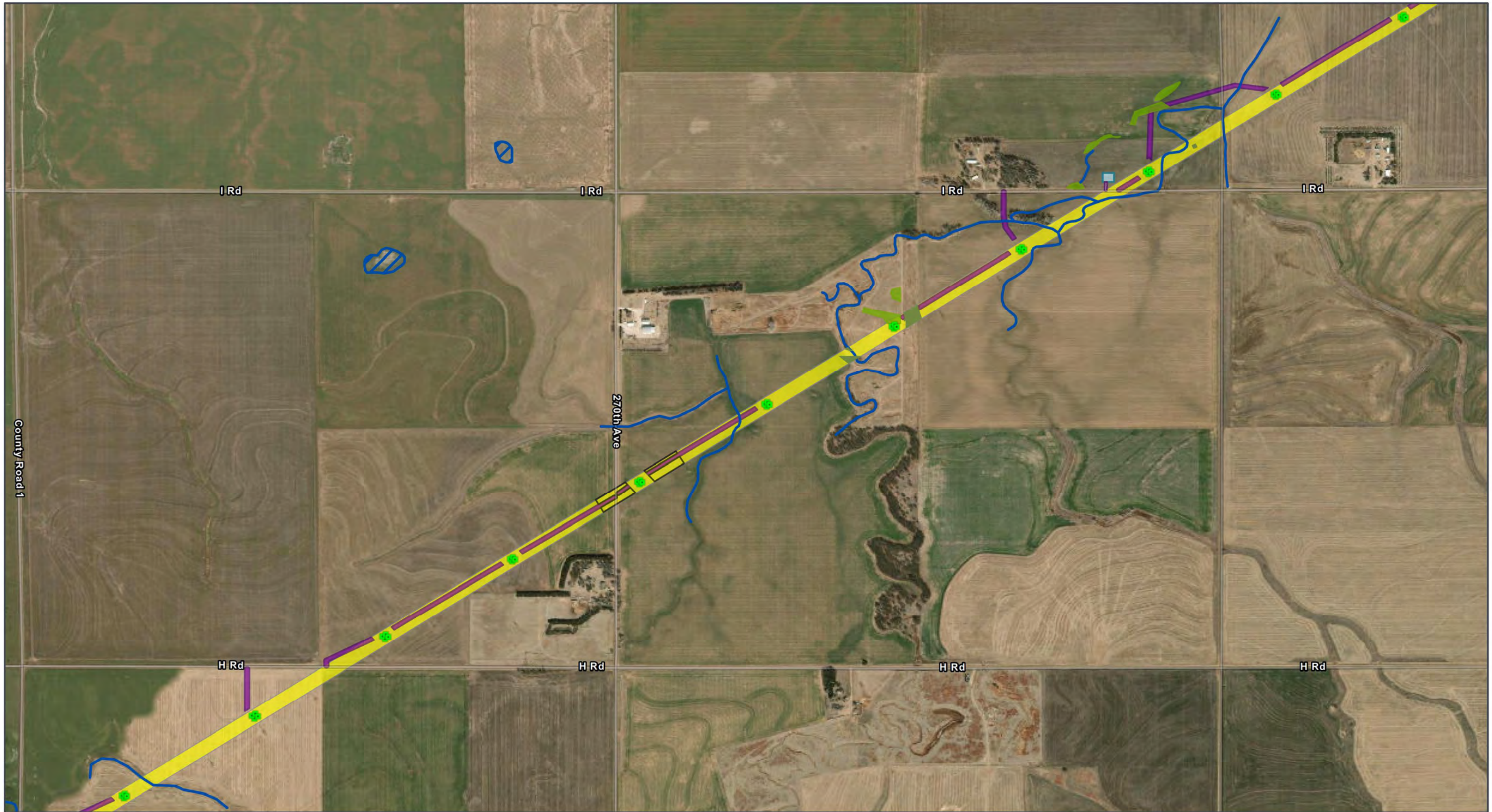
Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/26/2024
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Kansas and Missouri



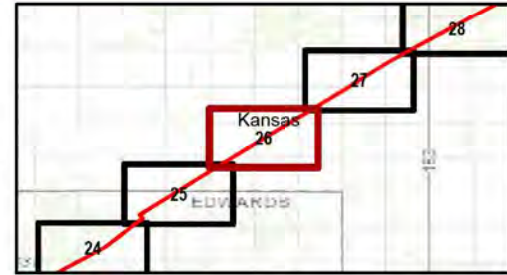
GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
Wetlands Map Book
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- Permanent Project Component**
- Transmission Structure
 - Optical Regeneration
 - OPGW Access

- Habitat Conversion**
- Vegetation Clearing
- Temporary Project Component**
- Access Road
 - Pull Site/Tension Site

- Hydrology**
- Delineated Stream
 - PLJV Playa
- Delineated Wetland**
- Palustrine Emergent (PEM)

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented



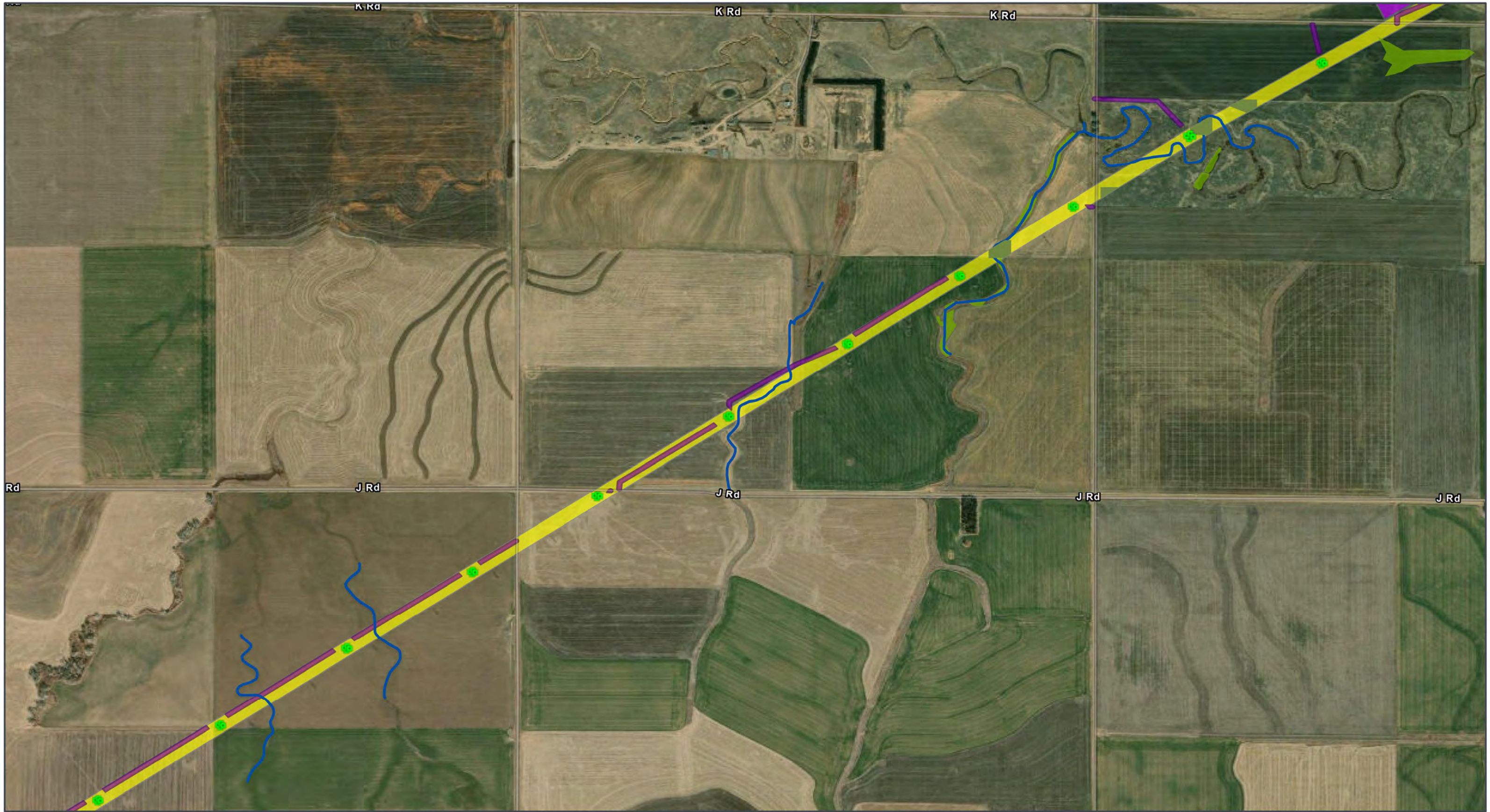
Kansas and Missouri
GCS North American 1983
38.3365°N 95.5783°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/26/2024
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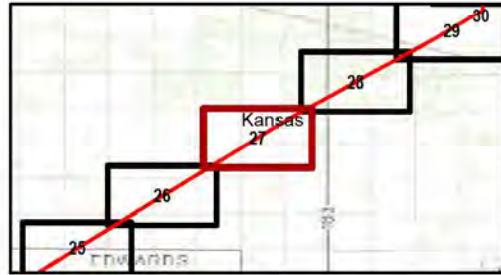
GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
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- ROW
- Permanent Project Component**
 - Transmission Structure
- Habitat Conversion**
 - Vegetation Clearing

- Temporary Project Component**
 - Access Road
 - Helipad / Fly Yard
- Hydrology**
 - Delineated Stream

- Delineated Wetland**
 - Palustrine Emergent (PEM)

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented



Kansas and Missouri
GCS North American 1983
38.3365°N 95.5783°W

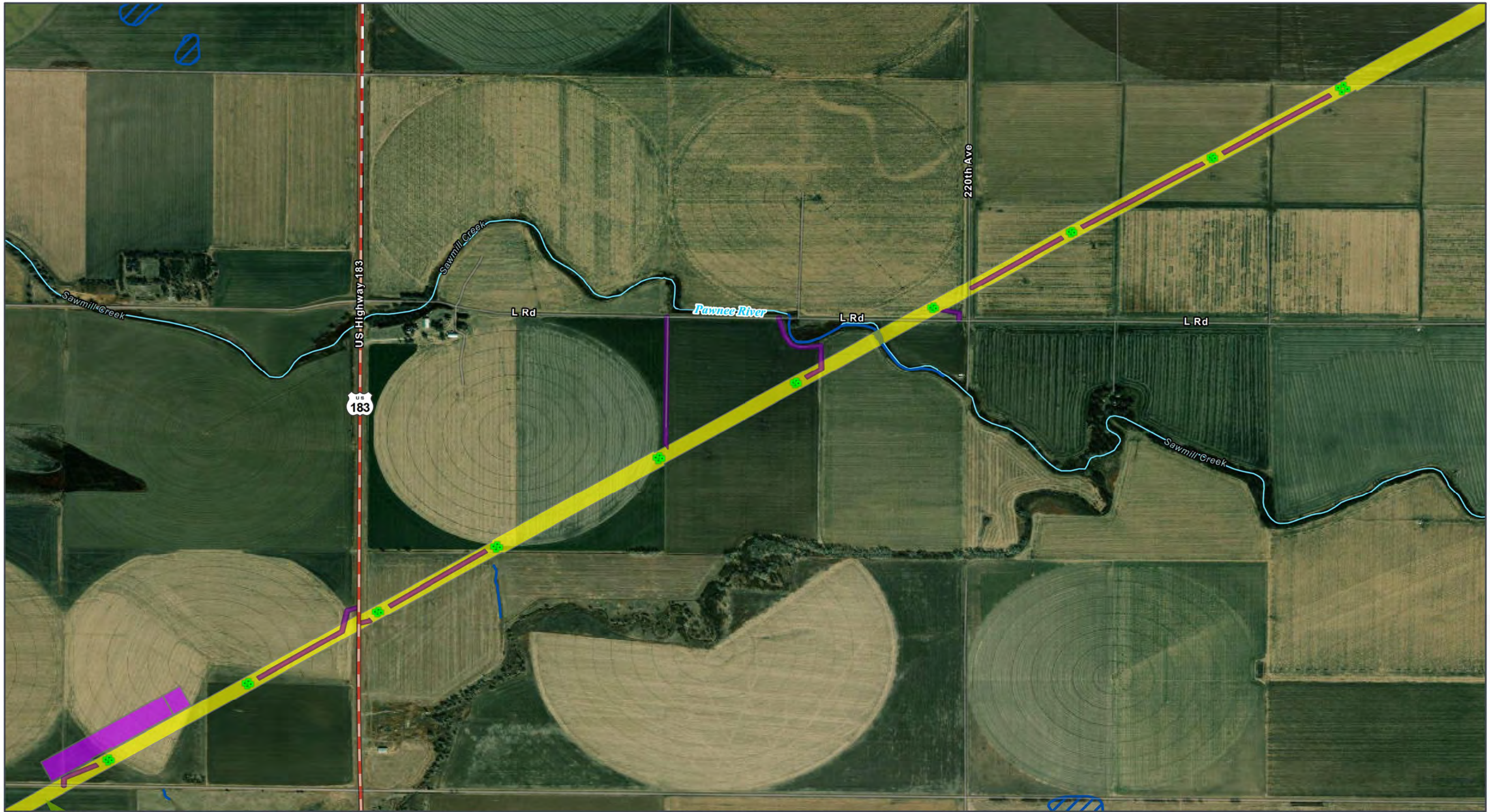
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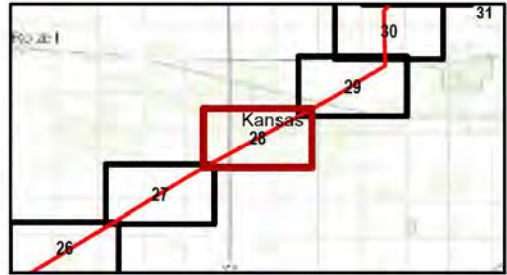
N



GRAIN BELT EXPRESS
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- | | | |
|--|---|--|
| ROW
Permanent Project Component
Transmission Structure
Habitat Conversion
Vegetation Clearing | Temporary Project Component
Access Road
Helipad / Fly Yard
Hydrology
Delineated Stream
PLJV Playa | NHD Stream/River
Delineated Wetland
Palustrine Emergent (PEM)
Transportation
U.S. Highway |
|--|---|--|

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented

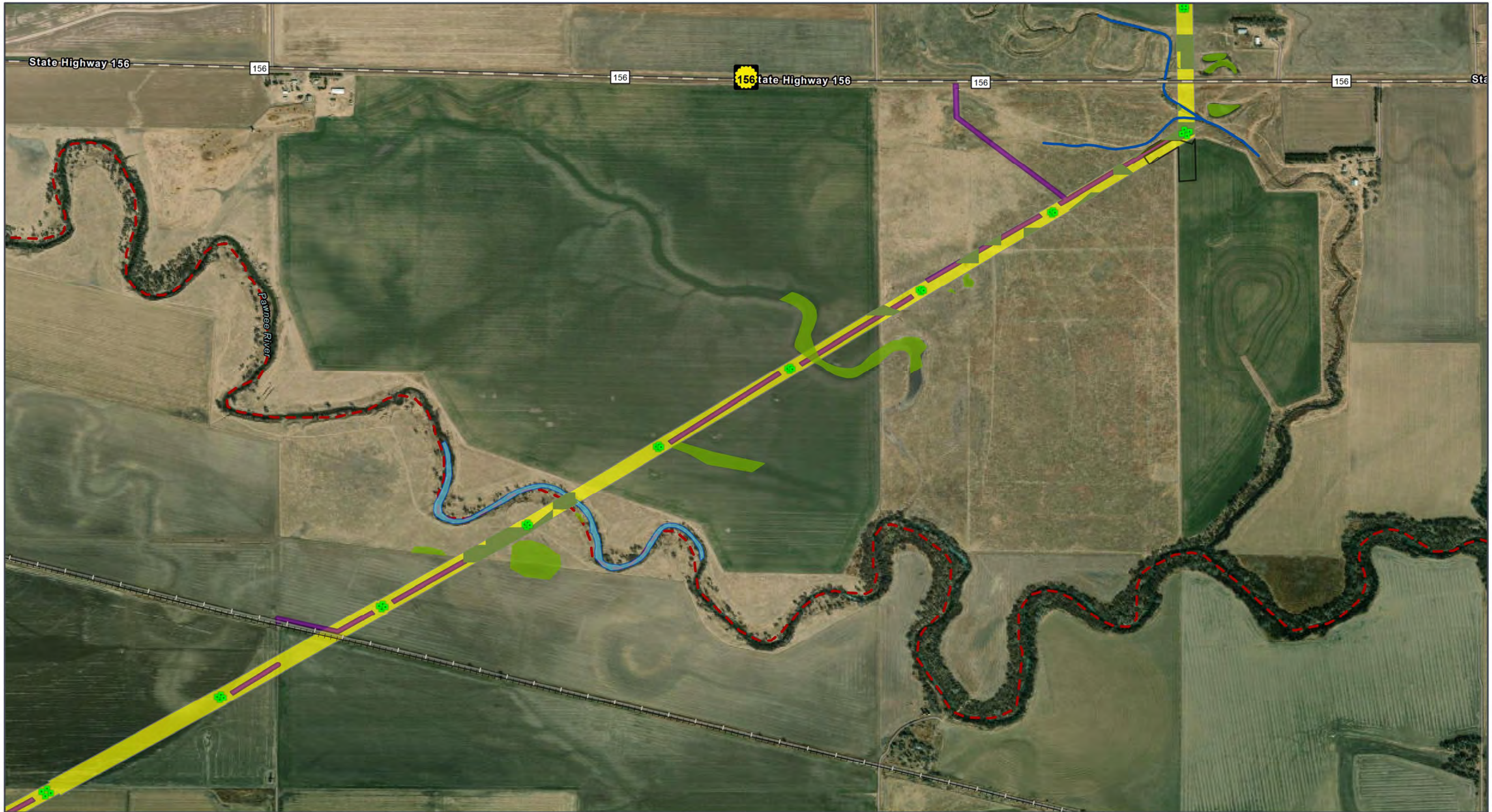


Kansas and Missouri
GCS North American 1983
38.3365°N 95.5783°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/26/2024
Project No. 60694559
Layout: Wetland Mapbook 12k
Acrs: WetlandMapBook_12k

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Kansas and Missouri



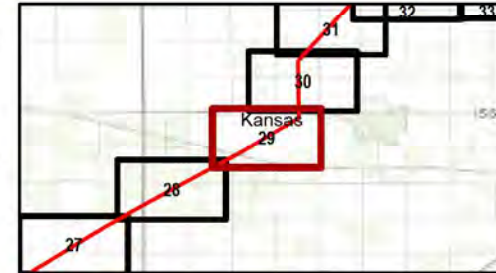
GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
Wetlands Map Book
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- ROW
- Permanent Project Component**
- Transmission Structure
- Habitat Conversion**
- Vegetation Clearing

- Temporary Project Component**
- Access Road
- Pull Site/Tension Site
- Hydrology**
- Delineated Stream
- Impaired Waterway (303d)

- Delineated Wetland**
- Palustrine Emergent (PEM)
- Delineated Waterbody
- Transportation**
- State Highway
- Railroad

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented



Kansas and Missouri
GCS North American 1983
38.3365°N 95.5783°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/26/2024
Project No. 60694559
Layout: Wetland Mapbook 12k
Aron: WetlandMapBook_12k

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0 400 800 Feet
0 100 200 Meters

N

Kansas and Missouri



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT

Wetlands Map Book

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Permanent Project Component

- Transmission Structure

Habitat Conversion

- Vegetation Clearing

Temporary Project Component

- Access Road
- Pull Site/Tension Site

Hydrology

- Delineated Stream

Delineated Wetland

- PLJV Playa
- Palustrine Emergent (PEM)

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented

Kansas and Missouri

GCS North American 1983
38.3365°N 95.5783°W

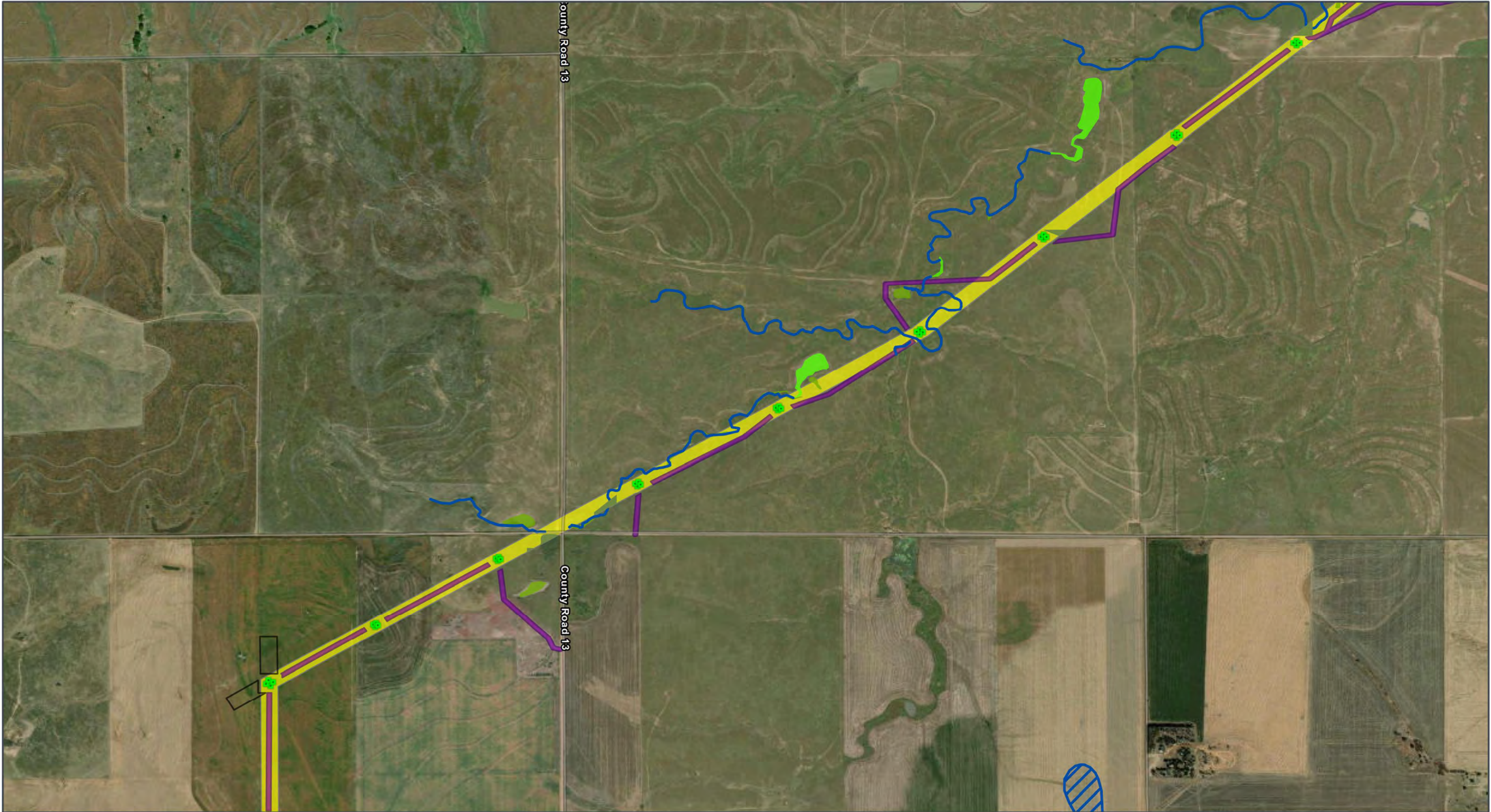
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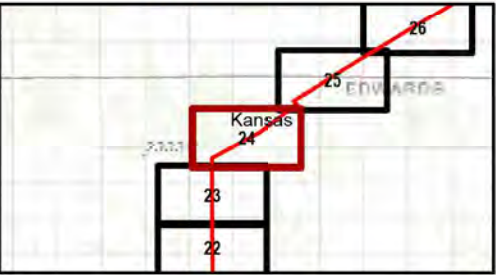
GRAIN BELT EXPRESS
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Permanent Project Component
Transmission Structure
Habitat Conversion
Vegetation Clearing

Temporary Project Component
Access Road
Pull Site/Tension Site
Hydrology
Delineated Stream

Delineated Wetland
PLJV Playa
Palustrine Emergent (PEM)
Palustrine Unconsolidated Bottom (PUB)

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented



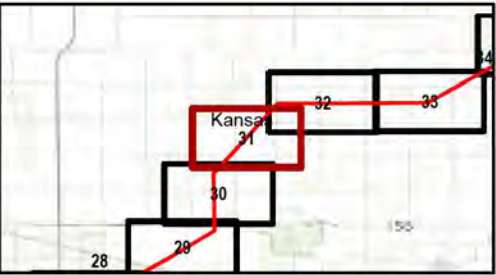
Kansas and Missouri
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38.3365°N 95.5783°W
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Updated: 11/26/2024
Project No. 60694559
Layout: Wetland Mapbook 12k
From: WetlandMapBook_12k
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GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
Wetlands Map Book
Map 31 of 259

- | | |
|---|---|
| <div style="display: inline-block; width: 15px; height: 10px; background-color: yellow; border: 1px solid black; margin-right: 5px;"></div> ROW | Hydrology |
| <div style="display: inline-block; width: 15px; height: 10px; background-color: green; border: 1px solid black; margin-right: 5px;"></div> Permanent Project Component | <div style="display: inline-block; width: 15px; height: 1px; background-color: blue; margin-right: 5px;"></div> Delineated Stream |
| <div style="display: inline-block; width: 15px; height: 10px; background-color: purple; border: 1px solid black; margin-right: 5px;"></div> Temporary Project Component | <div style="display: inline-block; width: 15px; height: 10px; background-color: lightgreen; border: 1px solid black; margin-right: 5px;"></div> Delineated Wetland |
| <div style="display: inline-block; width: 15px; height: 10px; background-color: purple; border: 1px solid black; margin-right: 5px;"></div> Access Road | <div style="display: inline-block; width: 15px; height: 10px; background-color: lightgreen; border: 1px solid black; margin-right: 5px;"></div> Palustrine Emergent (PEM) |

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented



Kansas and Missouri

GCS North American 1983
38.3365°N 95.5783°W

Base Map: Esri ArcGIS Online,
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Project No. 60694559
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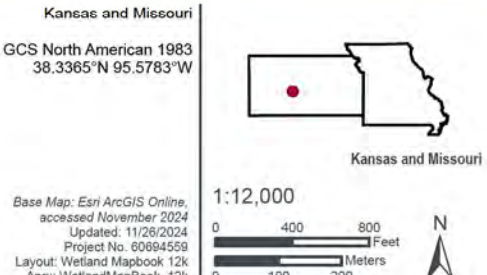
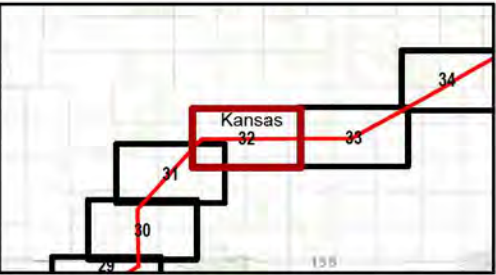
GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
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ROW
Permanent Project Component
Transmission Structure
Habitat Conversion
Vegetation Clearing

Temporary Project Component
Access Road
Helipad / Fly Yard
Pull Site/Tension Site

Hydrology
Delineated Stream
PLJV Playa
Delineated Wetland
Palustrine Emergent (PEM)

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented





GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT

Wetlands Map Book

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Permanent Project Component

- Transmission Structure
- Habitat Conversion
- Vegetation Clearing

Temporary Project Component

- Access Road
- Pull Site/Tension Site

Hydrology

- Delineated Stream

PLJV Playa

- NHD Stream/River
- Impaired Waterway (303d)

Delineated Wetland

- Palustrine Emergent (PEM)

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented

Kansas and Missouri

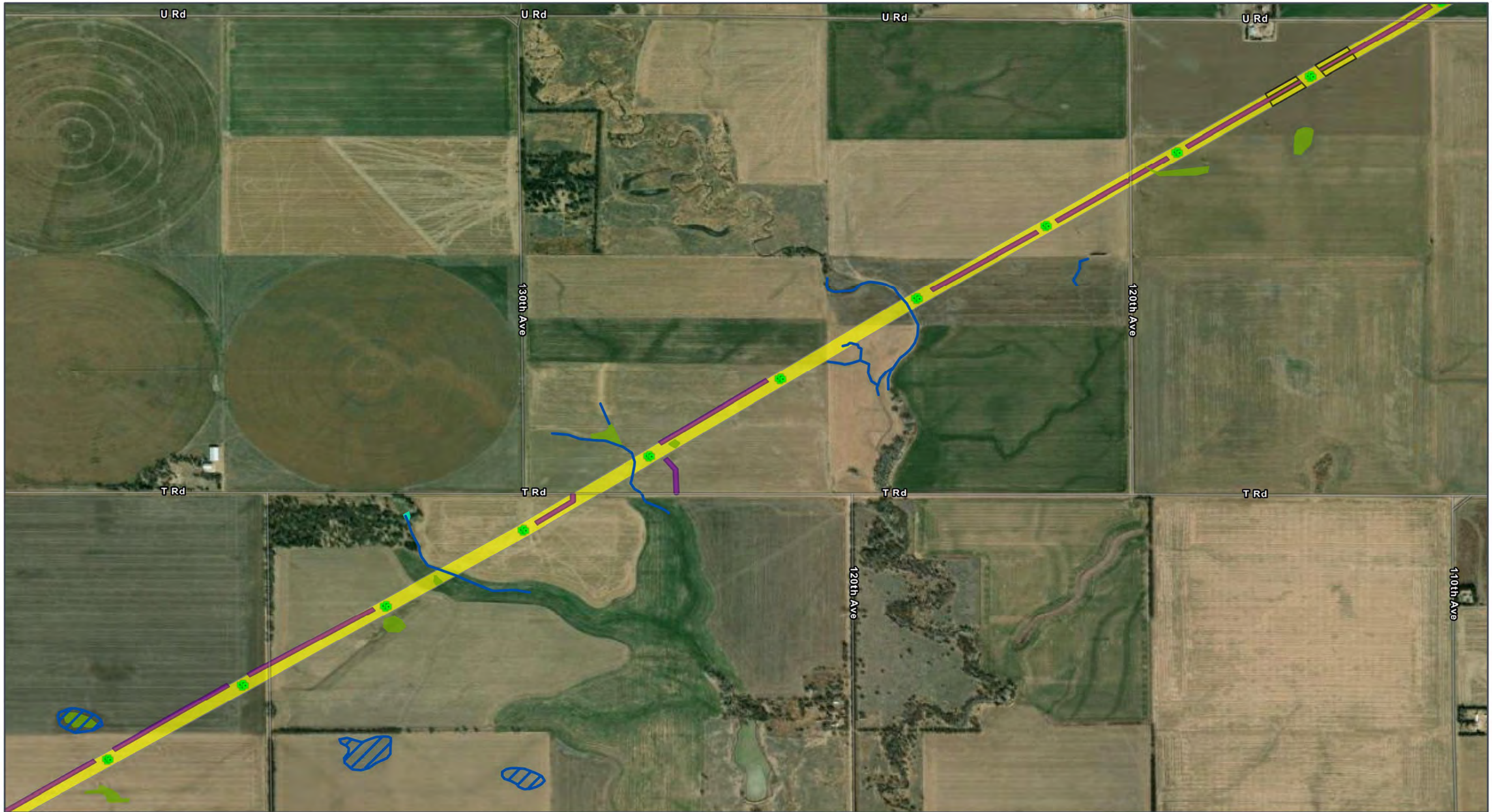
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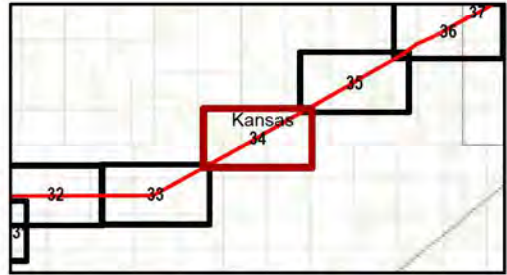
GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
Wetlands Map Book
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- ROW
- Permanent Project Component**
- Transmission Structure
- Temporary Project Component**
- Access Road

- Pull Site/Tension Site
- Hydrology**
- Delineated Stream
- PLJV Playa

- Delineated Wetland**
- Palustrine Aquatic Bed (PAB)
- Palustrine Emergent (PEM)

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented



Kansas and Missouri
GCS North American 1983
38.3365°N 95.5783°W

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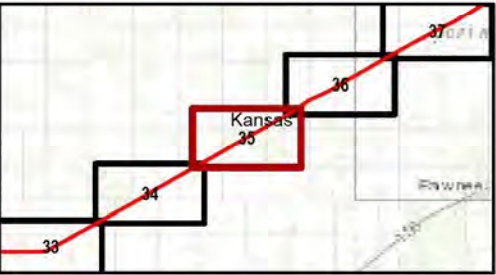
Kansas and Missouri



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
Wetlands Map Book
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- | | |
|------------------------------------|---------------------------|
| ROW | Pull Site/Tension Site |
| Permanent Project Component | Hydrology |
| Transmission Structure | Delineated Stream |
| Temporary Project Component | Delineated Wetland |
| Access Road | Palustrine Emergent (PEM) |

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented



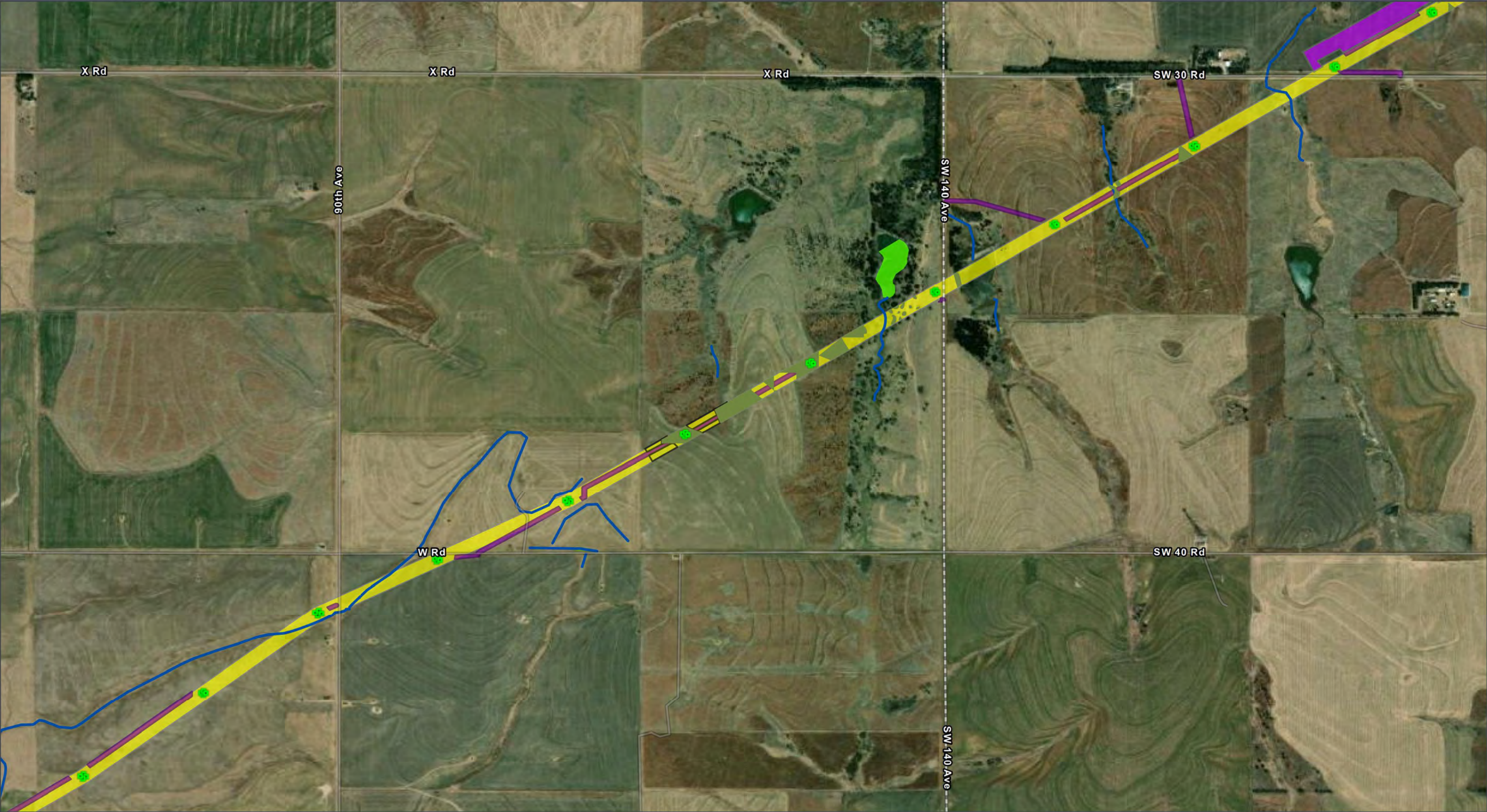
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Aron: WetlandMapBook_12k

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GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT

Wetlands Map Book

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Permanent Project Component

- Transmission Structure
- Habitat Conversion**
- Vegetation Clearing

Temporary Project Component

- Access Road
- Helipad / Fly Yard
- Pull Site/Tension Site

Hydrology

- Delineated Stream

Delineated Wetland

- Palustrine Emergent (PEM)
- Palustrine Unconsolidated Bottom (PUB)

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented



Kansas and Missouri

GCS North American 1983
38.3365°N 95.5783°W

Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/26/2024
Project No. 60694559
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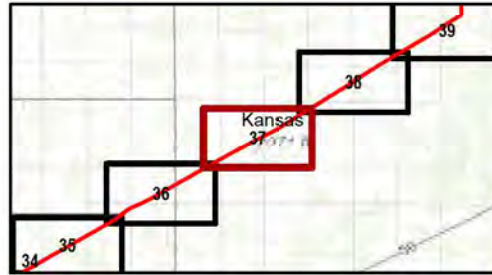
GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
Wetlands Map Book
Map 37 of 259

ROW
Permanent Project Component
Transmission Structure
Habitat Conversion
Vegetation Clearing

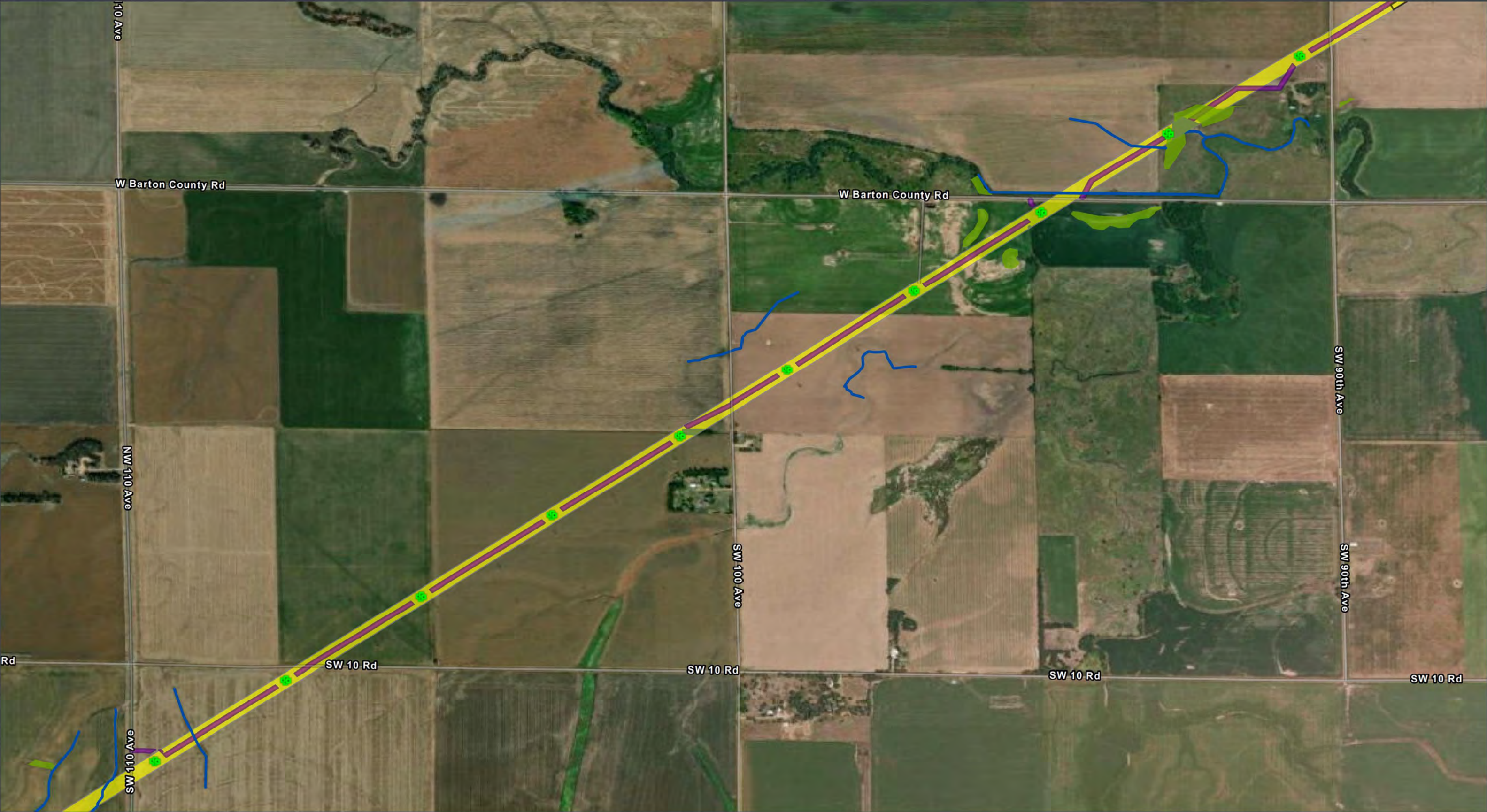
Temporary Project Component
Access Road
Helipad / Fly Yard
Pull Site/Tension Site

Hydrology
Delineated Stream
Delineated Wetland
Palustrine Emergent (PEM)
Palustrine Unconsolidated Bottom (PUB)

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented



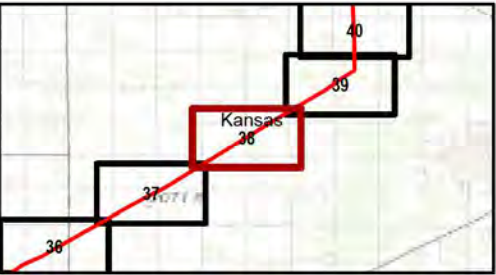
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GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
Wetlands Map Book
Map 38 of 259

- | | | |
|---|--|---|
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|---|--|---|

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented



Kansas and Missouri
GCS North American 1983
38.3365°N 95.5783°W

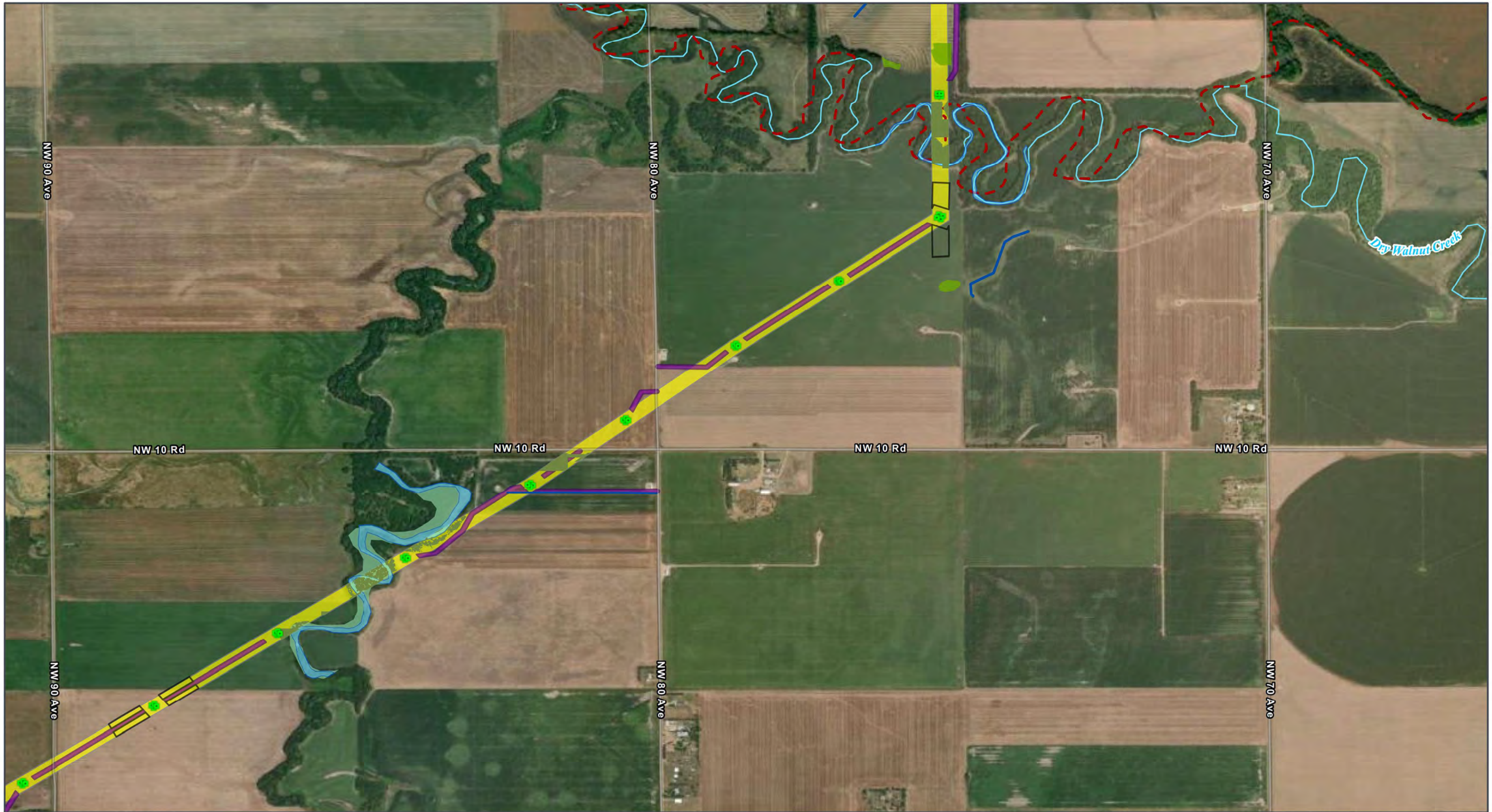
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Kansas and Missouri



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TRANSMISSION LINE PROJECT
Wetlands Map Book
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ROW

Permanent Project Component

Transmission Structure

Habitat Conversion

Vegetation Clearing

Temporary Project Component

Access Road

Pull Site/Tension Site

Hydrology

Delineated Stream

NHD Stream/River

Impaired Waterway (303d)

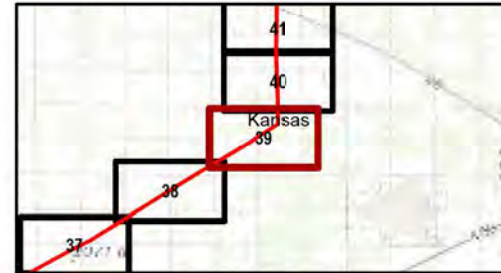
Delineated Wetland

Palustrine Emergent (PEM)

Palustrine Scrub-Shrub (PSS)

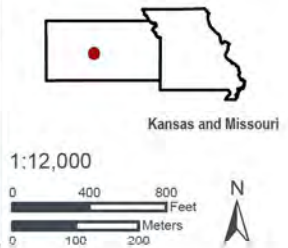
Delineated Waterbody

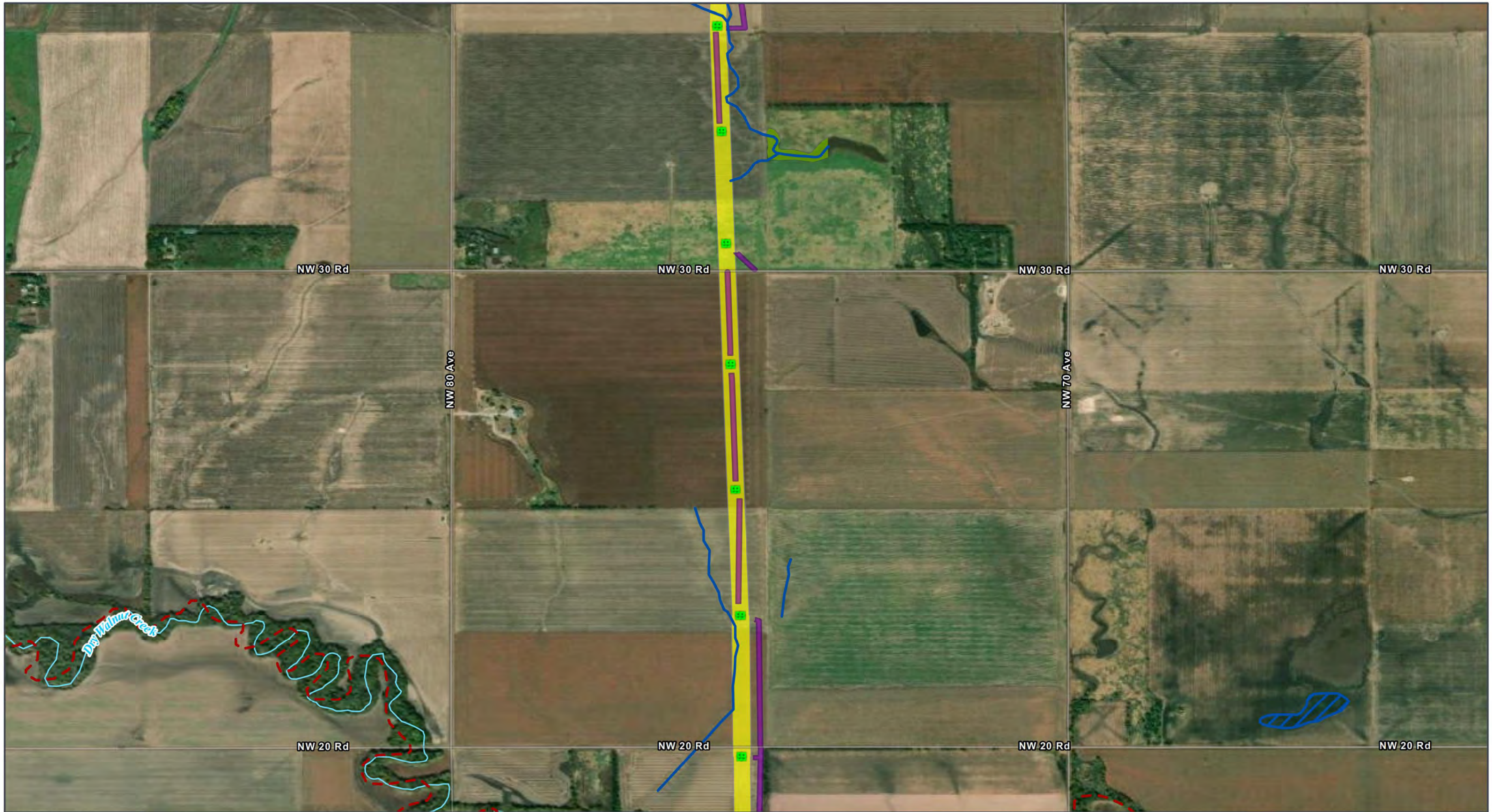
All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented



Kansas and Missouri
GCS North American 1983
38.3365°N 95.5783°W

Base Map: Esri ArcGIS Online,
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TRANSMISSION LINE PROJECT
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ROW

Permanent Project Component

Transmission Structure

Temporary Project Component

Access Road

Hydrology

Delineated Stream

PLJV Playa

NHD Stream/River

Impaired Waterway (303d)

Delineated Wetland

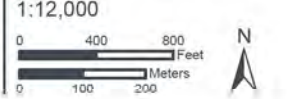
Palustrine Emergent (PEM)

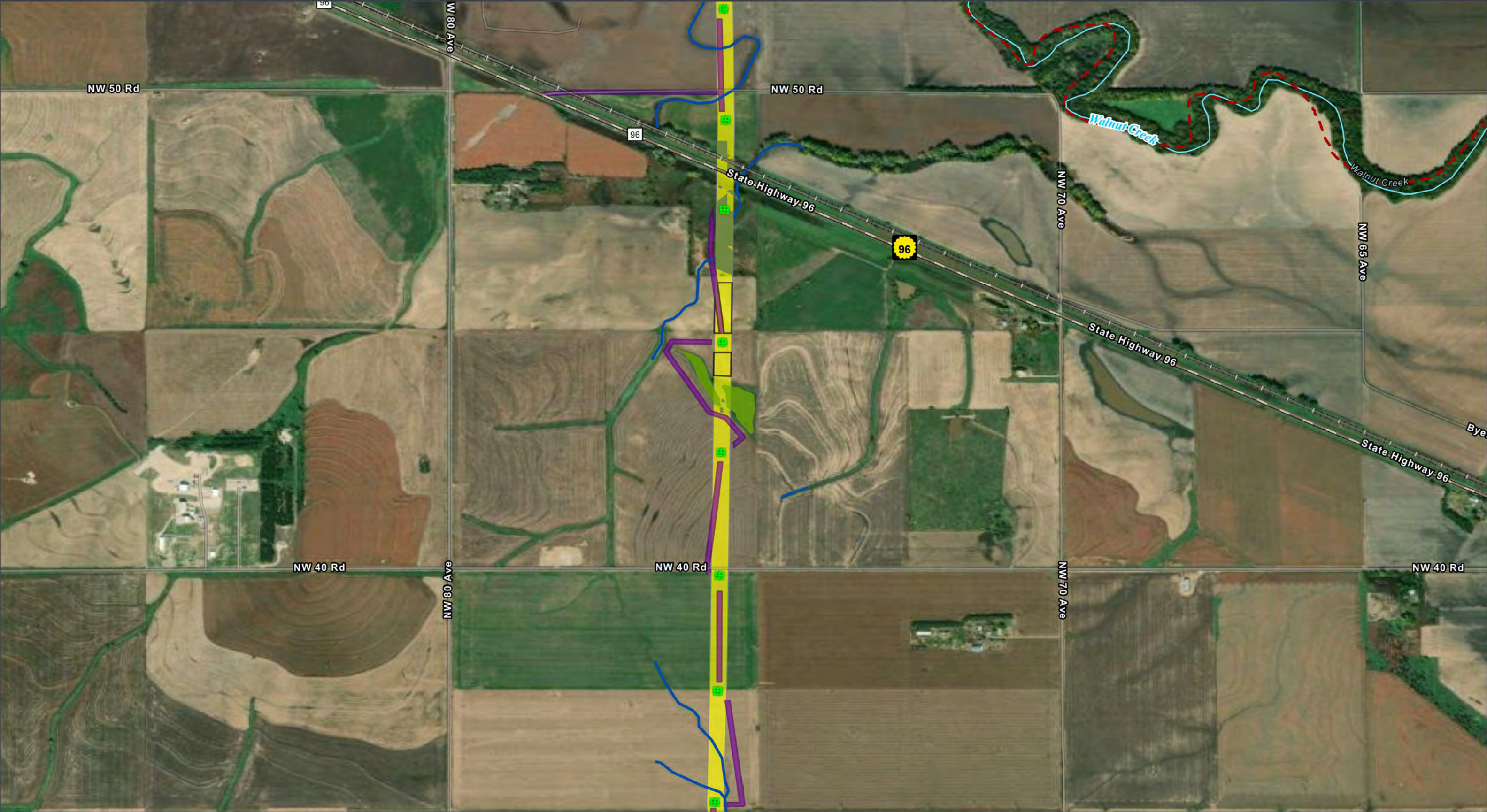
All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented



Kansas and Missouri
GCS North American 1983
38.3365°N 95.5783°W

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Updated: 11/26/2024
Project No. 60694559
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TRANSMISSION LINE PROJECT

Wetlands Map Book

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Permanent Project Component

- Transmission Structure
- Habitat Conversion
- Vegetation Clearing

Temporary Project Component

- Access Road
- Pull Site/Tension Site

Hydrology

- Delineated Stream
- NHD Stream/River

Delineated Wetland

- Palustrine Emergent (PEM)

Transportation

- State Highway
- Railroad

Impaired Waterway (303d)

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented

Kansas and Missouri

GCS North American 1983
38.3365°N 95.5783°W

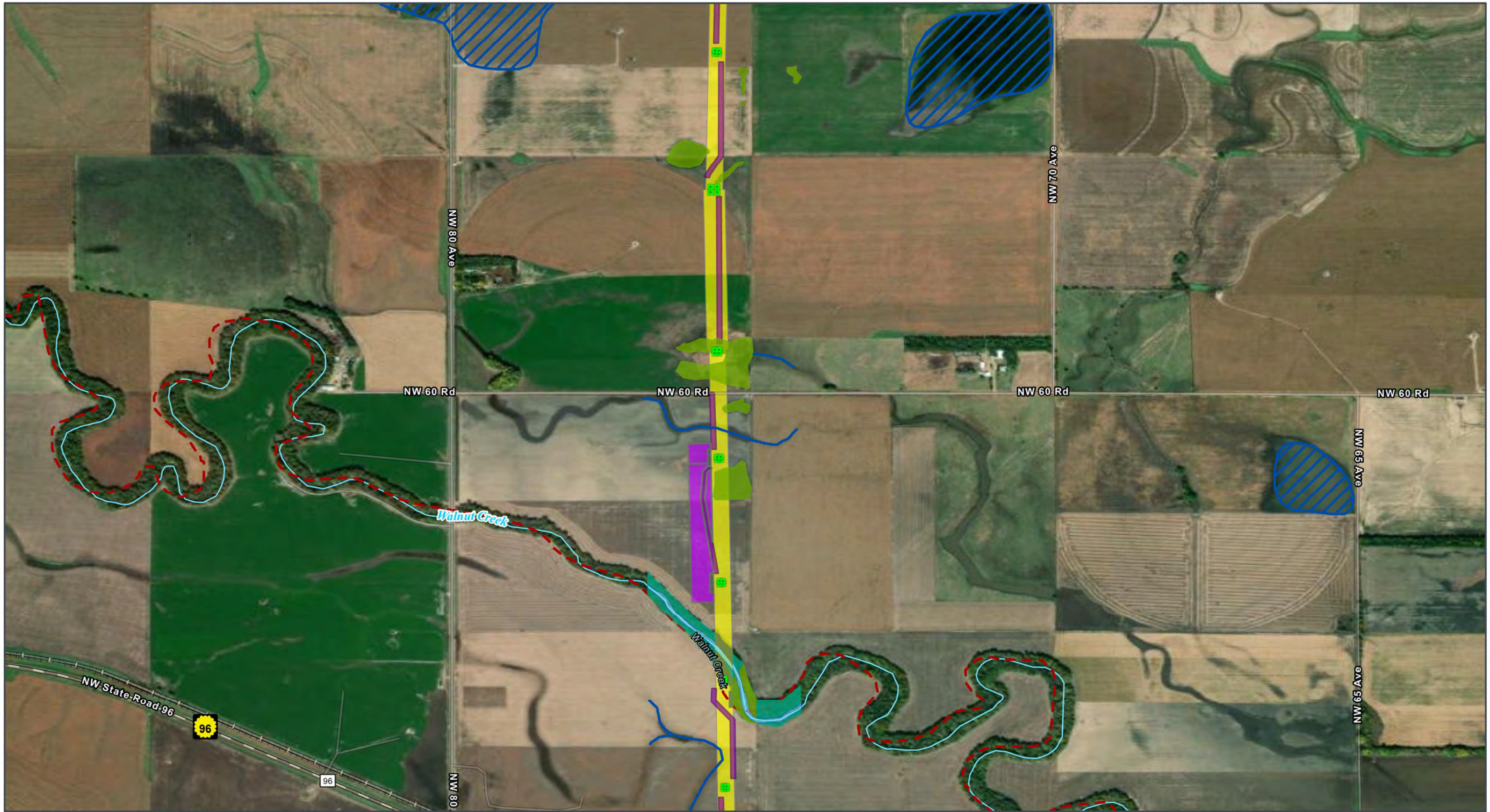
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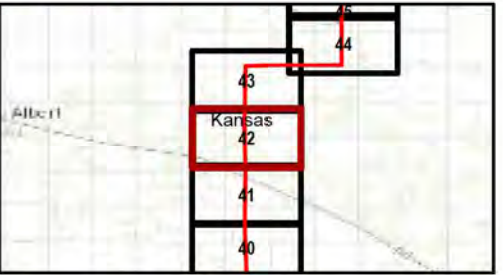


GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
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- | | |
|------------------------------------|---------------------------|
| ROW | Helipad / Fly Yard |
| Permanent Project Component | Hydrology |
| Transmission Structure | Delineated Stream |
| Habitat Conversion | PLJV Playa |
| Vegetation Clearing | NHD Stream/River |
| Temporary Project Component | Impaired Waterway (303d) |
| Access Road | |

- | |
|---------------------------|
| Delineated Wetland |
| Palustrine Emergent (PEM) |
| Palustrine Forested (PFO) |
| Delineated Waterbody |
| Transportation |
| State Highway |
| Railroad |

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Kansas and Missouri
GCS North American 1983
38.3365°N 95.5783°W

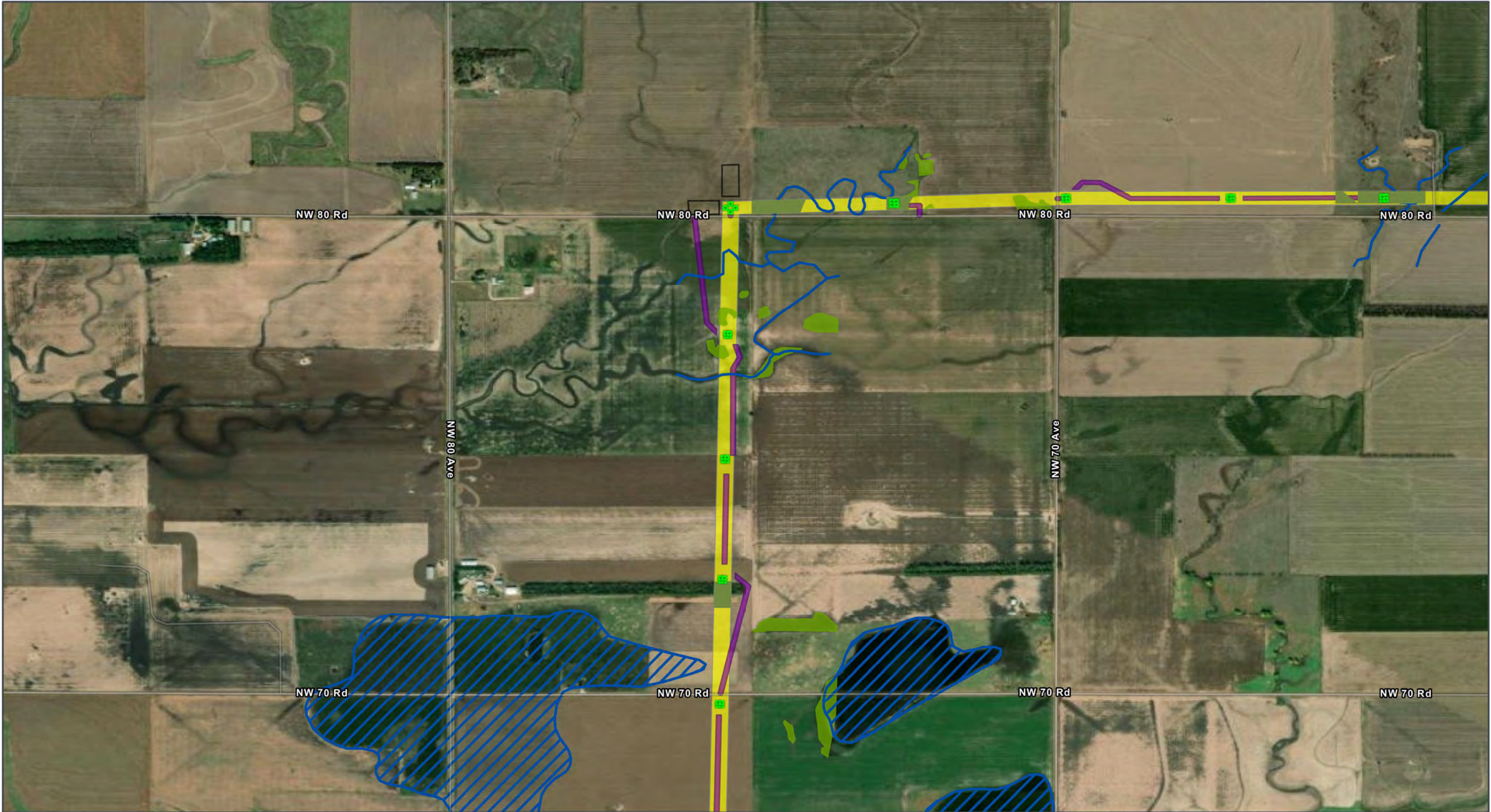
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Kansas and Missouri



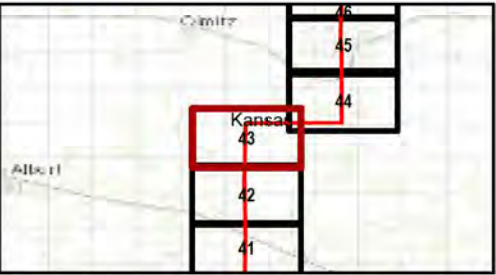
GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
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Permanent Project Component
Transmission Structure
Habitat Conversion
Vegetation Clearing

Temporary Project Component
Access Road
Pull Site/Tension Site
Hydrology
Delineated Stream

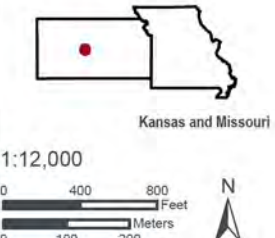
Delineated Wetland
PLJV Playa
Palustrine Emergent (PEM)

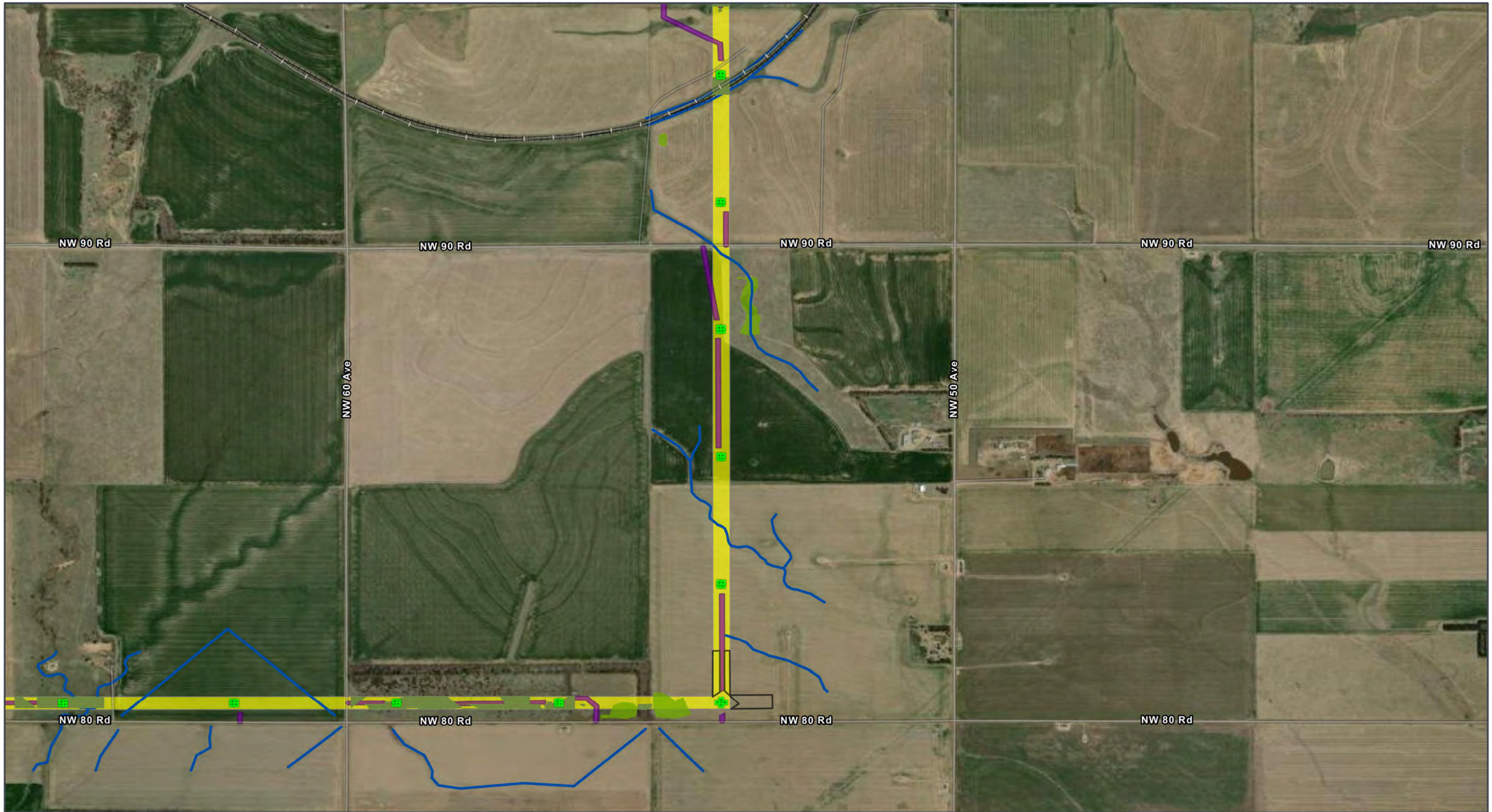
All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented



Kansas and Missouri
GCS North American 1983
38.3365°N 95.5783°W

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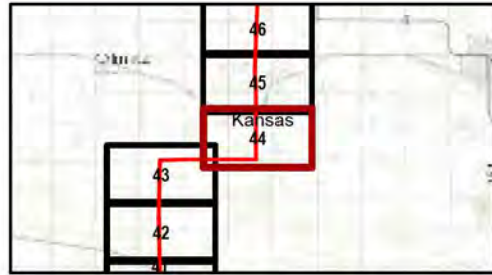
GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
Wetlands Map Book
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- ROW
- Permanent Project Component**
 - Transmission Structure
- Habitat Conversion**
 - Vegetation Clearing

- Temporary Project Component**
 - Access Road
 - Pull Site/Tension Site
- Hydrology**
 - Delineated Stream

- Delineated Wetland**
 - Palustrine Emergent (PEM)
- Transportation**
 - Railroad

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented



Kansas and Missouri
GCS North American 1983
38.3365°N 95.5783°W

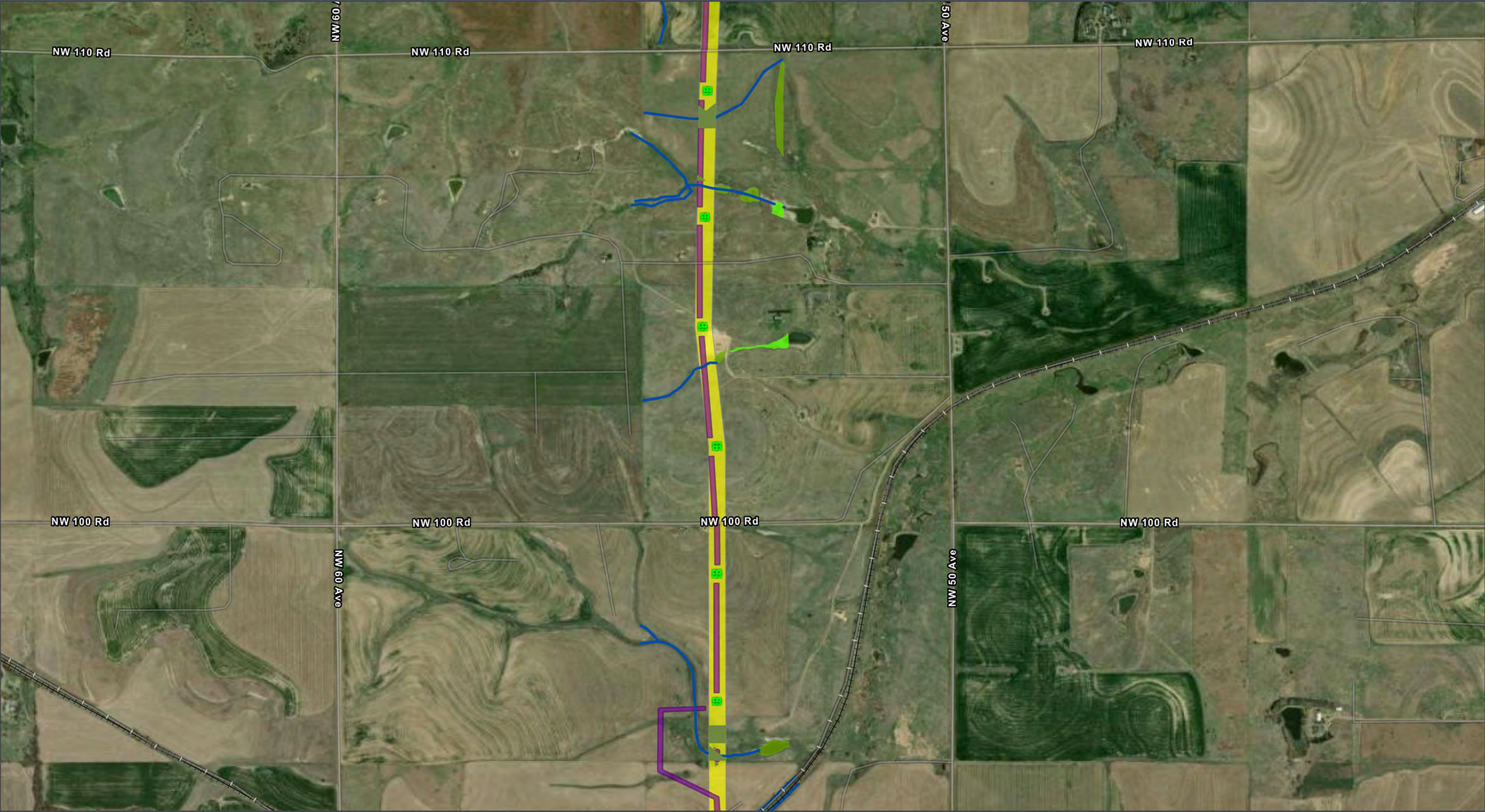
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Kansas and Missouri



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TRANSMISSION LINE PROJECT

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Grain Belt Express
An Invenex Project

Permanent Project Component

- Transmission Structure
- Habitat Conversion
 - Vegetation Clearing

Temporary Project Component

- Access Road
- Hydrology
 - Delineated Stream
- Delineated Wetland
 - Palustrine Emergent (PEM)

Palustrine Unconsolidated Bottom (PUB)

Transportation

- Railroad

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented

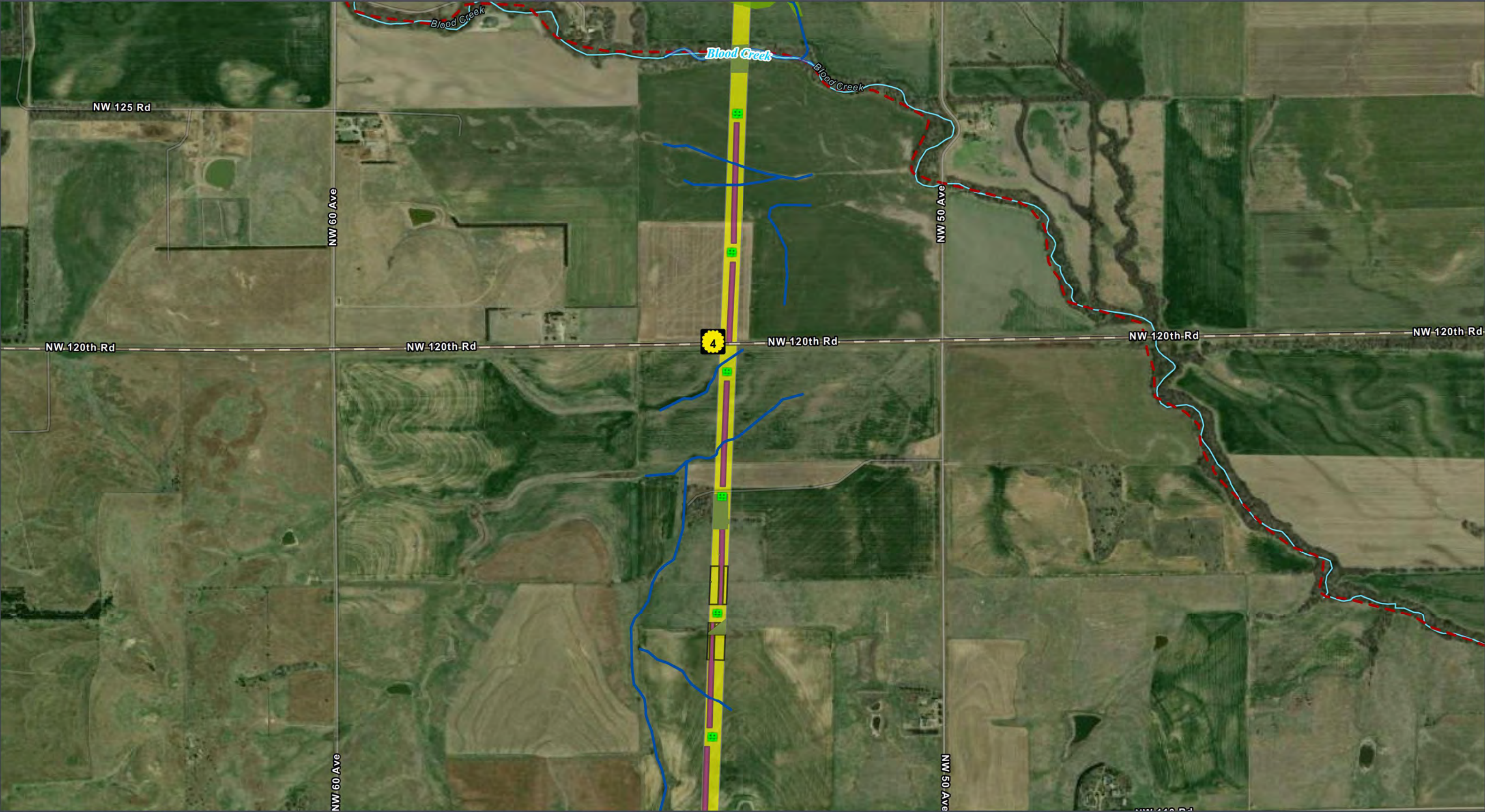
Kansas and Missouri
GCS North American 1983
38.3365°N 95.5783°W

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Acrs: WetlandMapBook_12K

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GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
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|---|--|--|
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|---|--|--|

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented



Kansas and Missouri
GCS North American 1983
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Updated: 11/26/2024
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Kansas and Missouri



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TRANSMISSION LINE PROJECT
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- Permanent Project Component**
- Transmission Structure
 - Optical Regeneration
 - OPGW Access
 - Habitat Conversion**
 - Vegetation Clearing

- Temporary Project Component**
- Access Road
 - Pull Site/Tension Site
 - Hydrology**
 - Delineated Stream
 - PLJV Playa
 - NHD Stream/River

- Delineated Wetland**
- Palustrine Emergent (PEM)
 - Palustrine Unconsolidated Bottom (PUB)
 - Delineated Waterbody

Impaired Waterway (303d)

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented



Kansas and Missouri
GCS North American 1983
38.3365°N 95.5783°W

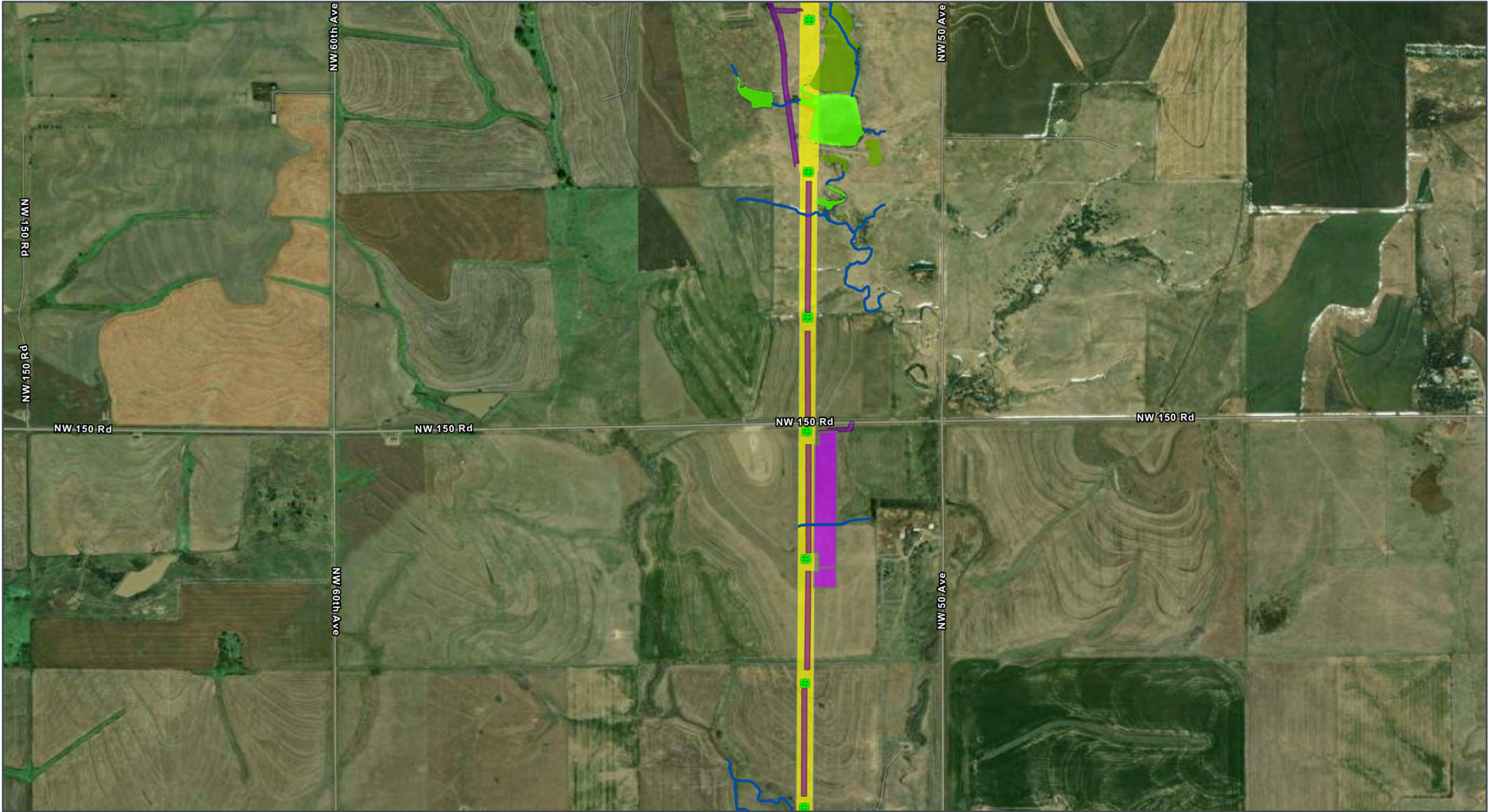
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Kansas and Missouri



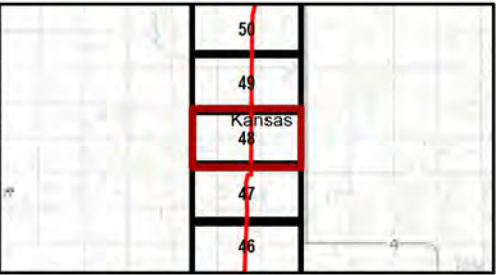
GRAIN BELT EXPRESS
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- ROW
- Permanent Project Component**
- Transmission Structure
- Habitat Conversion**
- Vegetation Clearing

- Temporary Project Component**
- Access Road
- Helipad / Fly Yard
- Hydrology**
- Delineated Stream

- Delineated Wetland**
- Palustrine Emergent (PEM)
- Palustrine Unconsolidated Bottom (PUB)

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented



Kansas and Missouri
GCS North American 1983
38.3365°N 95.5783°W

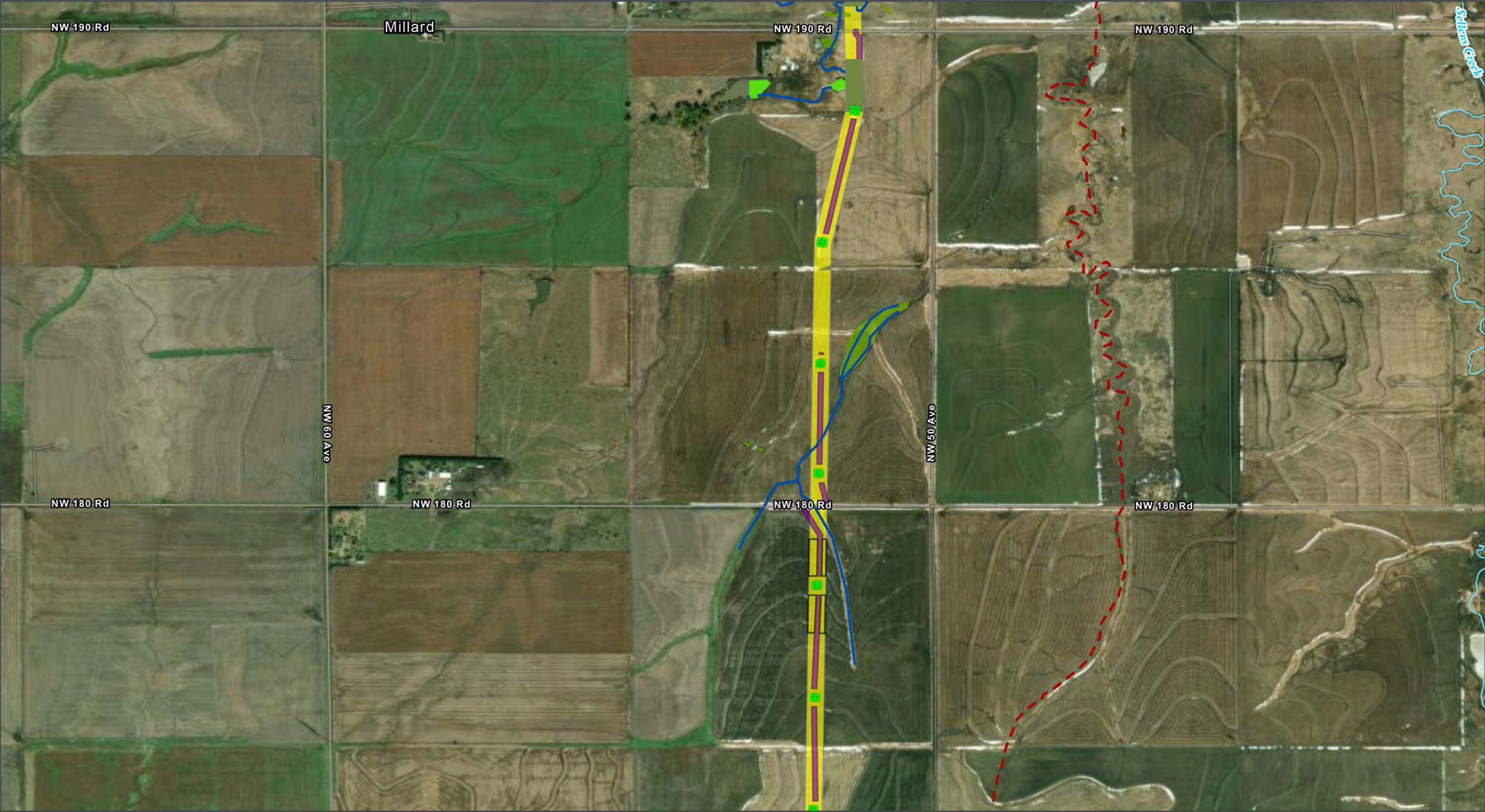
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0 400 800 Feet
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Kansas and Missouri



GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT

Wetlands Map Book

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Permanent Project Component

- Transmission Structure
- Habitat Conversion**
- Vegetation Clearing

Temporary Project Component

- Access Road
- Pull Site/Tension Site
- Hydrology**
- Delineated Stream

NHD Stream/River

Impaired Waterway (303d)

Delineated Wetland

- Palustrine Emergent (PEM)
- Palustrine Unconsolidated Bottom (PUB)

All disturbance areas are likely an over-estimation of direct impacts and based on assumptions presented in the Chapter 2 disturbance model (Table 2-1). These impact areas will be refined and finalized once field surveys are complete and avoidance and/or mitigation measures are implemented

Kansas and Missouri

GCS North American 1983
38.3365°N 95.5783°W

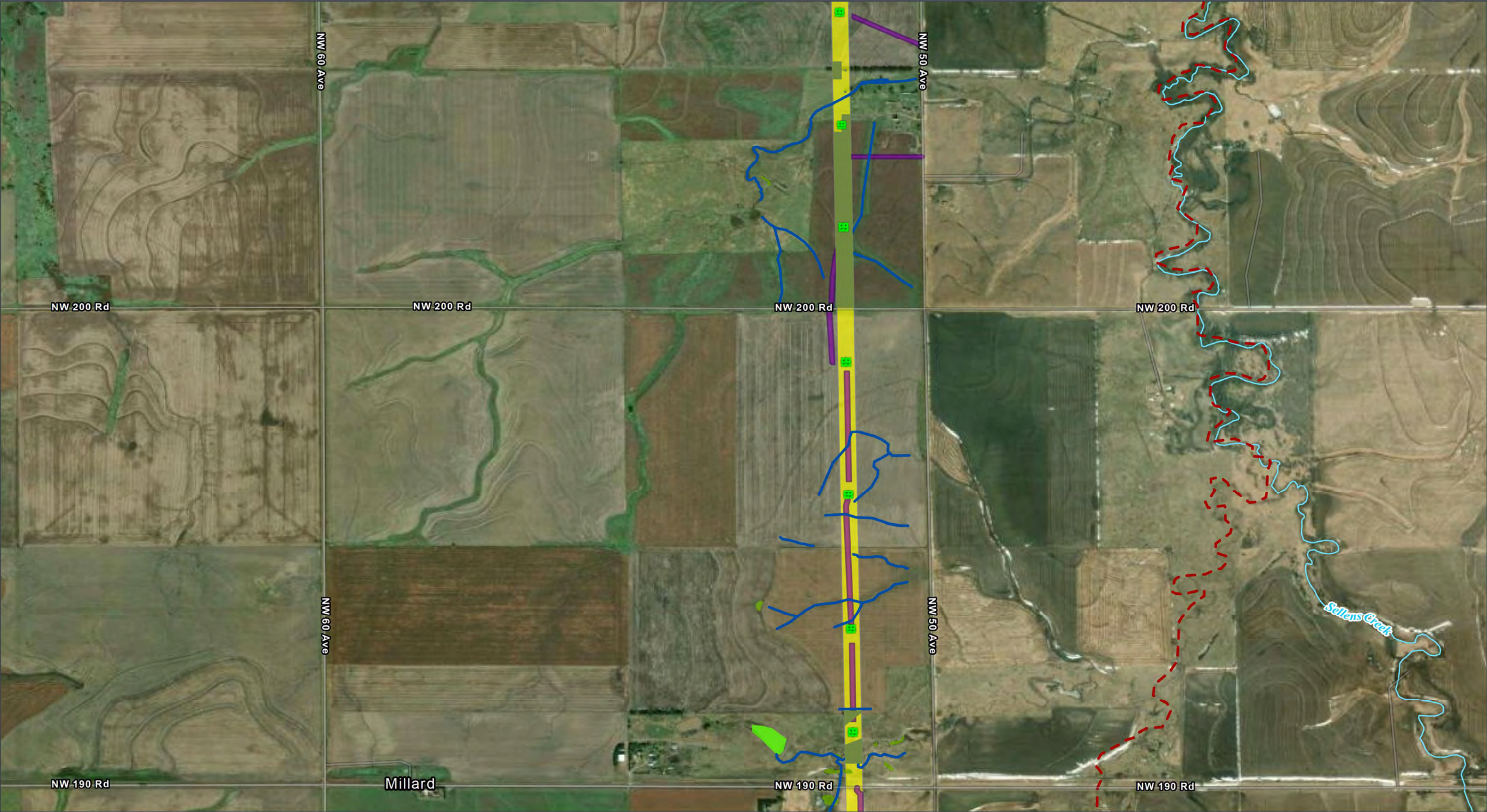
Base Map: Esri ArcGIS Online,
accessed November 2024
Updated: 11/26/2024
Project No. 60694559
Layout: Wetland Mapbook 12k
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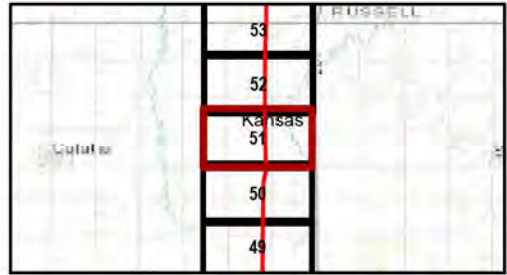
GRAIN BELT EXPRESS
TRANSMISSION LINE PROJECT
Wetlands Map Book
Map 51 of 259

- ROW
- Permanent Project Component**
- Transmission Structure
- Habitat Conversion**
- Vegetation Clearing

- Temporary Project Component**
- Access Road
- Hydrology**
- Delineated Stream
- NHD Stream/River

- Impaired Waterway (303d)
- Delineated Wetland**
- Palustrine Emergent (PEM)
- Palustrine Unconsolidated Bottom (PUB)

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