



United States
Department of
Agriculture

All WC Determinations Map

Farm: 19554

Tract: 12854

Owner: Koch Family Farm LLC

Geographic County: Dane, WI

Operator: James Koch T9N R9E S20,21



FSA Admin County: Dane, WI

The Army Corps clarified that PCC as defined by U.S. Department of Agriculture's (USDA's) Natural Resources Conservation Service (NRCS) in its 1988 National FSA Manual, is not subject to regulation under CWA Section 404. **The manual defines PCC as wetlands that "were both manipulated (drained or otherwise physically altered to remove excess water from the land) and cropped before 23 December 1985, to the extent that they no longer exhibit important wetland values."**

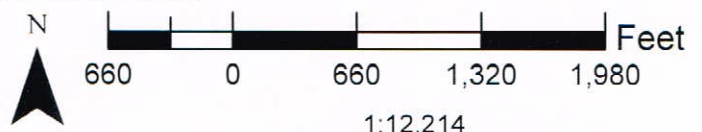


Base Map Image: 2017 NAIP
Map Prepared By: Carol Miller
Map Production Date: 7/22/2019

This map shows all completed WC determinations for the site. It is the responsibility of all program participants to not convert obvious wetlands regardless of map interpretation. Newly completed and previously certified areas are shown on this map. Other areas are marked as, "Not Evaluated."

-  Technical Determination Extents
-  Not Evaluated





Note: Acres shown on this map may not match official FSA CLU acres due to differences in rounding or the scale at which the work was completed. Previously certified areas retain their labels and certified status.





Study Area (44.95 ac)

NRCS Soil Survey Data

-  Hydric (100%)
-  Predominantly Hydric (85-99%)
-  Predominantly Non-Hydric (1-15%)
-  Non-Hydric (0%)



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Figure 3. NRCS
Hydric Soils
Maier Farm
Project #20200322
T9N, R9E, S21
T Vienna, Dane Co

2022 NAIP
NRCS LRR: NCNE

organic-matter content, and poor tilth. Some areas of Plano soils are included at the base of slopes and in drainageways.

If this soil is properly managed, it is suited to row crops, small grain, forage, pasture, and wildlife habitat. The major limitations are moderately steep slopes, low available water capacity, a very severe hazard of erosion, and limited thickness over bedrock. If this soil is cultivated, controlling erosion and conserving moisture are useful conservation practices. Capability unit IVe-2; not placed in a woodland suitability group.

Rodman Series

The Rodman series consists of excessively drained, moderately steep and steep soils on side slopes of benches in stream valleys. These soils are very shallow over sand and gravel. They formed in sand and gravel under thin stands of black oak and an understory of prairie grasses.

In a representative profile the surface layer is black sandy loam about 5 inches thick. The subsoil is dark yellowish-brown gravelly sandy loam about 8 inches thick. The underlying material is calcareous, yellowish-brown stratified sand and gravel.

These soils have very low fertility. The available water capacity is very low, and permeability is moderately rapid in the upper part and very rapid in the lower part. The seasonal high water table is below a depth of 5 feet.

Because Rodman soils are very droughty and have very low available water capacity and fertility, a good plant cover is difficult to maintain on them. The soils are better suited to limited pasture or wildlife habitat than to most other uses. Moisture conservation, pasture renovation, and fertilization help to increase forage production. The soils are generally a good source of sand and gravel.

Representative profile of Rodman sandy loam, 12 to 35 percent slopes, in undisturbed area, SE $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 32, T. 6 N., R. 11 E.:

- A—0 to 5 inches, black (10YR 2/1) sandy loam; moderate, fine, granular structure; very friable; few roots; neutral; clear, wavy boundary.
 B—5 to 13 inches, dark yellowish-brown (10YR 3/4) gravelly sandy loam; weak, fine, granular structure; very friable; neutral; clear, wavy boundary.
 C—13 to 60 inches, yellowish-brown (10YR 5/6) sand and gravel; single grained; strong effervescence; loose; mildly alkaline.

The solum ranges from 8 to 15 inches in thickness. The A horizon ranges from black (10YR 2/1) to dark brown (10YR 3/3). The B horizon is sandy loam or loamy sand.

Rodman soils are near Dresden, Boyer, and Kegonsa soils. They lack the subsoil development of Dresden, Boyer, and Kegonsa soils.

Rodman sandy loam, 12 to 35 percent slopes (R_{DP}).—This soil is on side slopes and knobs of outwash plains. Areas of this soil are 10 to 30 acres in size. These areas are characterized by a few drainageways.

Included with this soil in mapping are a few small areas of Boyer soils. Also included are eroded areas in which the surface layer is very dark grayish brown.

This soil is better suited to wildlife habitat than to most other uses. It is very droughty and has a very severe hazard of erosion. It has a very low level of

fertility. The main concerns in management are conservation of moisture, control of erosion, and maintenance of a good soil. Capability unit VIIc-5; woodland suitability group 4f2.

Sable Series

The Sable series consists of deep, nearly level and gently sloping, poorly drained soils on low benches in stream valleys. These soils formed under sedges in deep silty material more than 4 feet thick. Neutral sandy outwash underlies the silt in most places.

In a representative profile the surface layer is black silty clay loam about 19 inches thick. The subsoil is about 23 inches thick. The upper part is dark-gray silty clay loam that has strong-brown mottles, and the lower part is gray silty clay loam that has strong-brown mottles. The underlying material is massive, gray silt loam.

Sable soils have high fertility. The available water capacity is high, and permeability is moderate. The seasonal high water table is between the surface and a depth of 1 foot.

If these soils are drained, they are suited to row crops, small grain, and clover hay. If not drained, they provide good wildlife habitat and limited pasture. Open-ditch and tile drains are suited to removing excess water on these soils. These soils are slow to warm in spring and quick to cool in fall. The surface layer puddles easily if filled when wet.







Representative profile of Sable silty clay loam in cultivated area, 25 yards south of road, NW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 17, T. 9 N., R. 11 E.:

- Ap—0 to 6 inches, black (N 2/0) silty clay loam; weak, medium, granular structure; very friable; many roots; slightly acid; abrupt, smooth boundary.
 A12—6 to 13 inches, black (N 2/0) silty clay loam; weak, medium, subangular blocky structure parting to moderate, medium, granular; friable; many roots; medium acid; clear, smooth boundary.
 A13—13 to 18 inches, black (N 2/0) silty clay loam; moderate, very fine, subangular blocky structure; friable; many roots; medium acid; clear, smooth boundary.
 B1g—19 to 26 inches, dark-gray (5Y 4/1) silty clay loam; few, fine, prominent, strong-brown (7.5YR 5/6) mottles; moderate, fine, subangular blocky structure; firm; few roots; very dark gray (N 3/0) organic stains on all faces of peels and in root channels; slightly acid; clear, smooth boundary.
 B2g—26 to 32 inches, gray (5Y 5/1) silty clay loam; few, medium, prominent, strong-brown (7.5YR 5/6) mottles; weak, medium, prismatic structure parting to weak, medium, subangular blocky; firm; few roots; very dark gray (N 3/0) organic stains on vertical faces of peels and in root channels; mildly alkaline; gradual, wavy boundary.
 B3g—32 to 42 inches, gray (5Y 5/1) silty clay loam; common, medium, prominent, strong-brown (7.5YR 5/6) mottles; weak, medium, prismatic structure; firm; very few roots; very dark gray (N 3/0) organic stains in root channels; mildly alkaline; diffuse, wavy boundary.
 Cg—42 to 60 inches, gray (5Y 5/1) silt loam; common, medium, prominent, strong-brown (7.5YR 5/6) mottles; massive; firm; very dark gray (N 2/0) organic stains in root channels; mildly alkaline.

The solum ranges from 36 to 50 inches in thickness. The A horizon is black (N 2/0) or very dark brown (10YR 2/2). The B horizon ranges from brown (10YR 5/2) to olive gray (5Y 5/2).

Sable soils are near Elburn, Virgil, Hayfield, Wacousta,



-  Study Area (44.95 ac)
-  WWI Polygons
-  WWI Points
-  Perennial Streams (None in Map Extent)
-  Intermittent Streams (None in Map Extent)
-  Waterbodies (None in Map Extent)



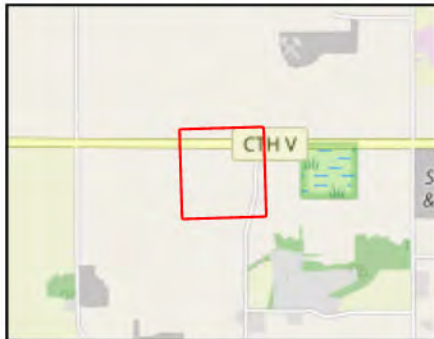
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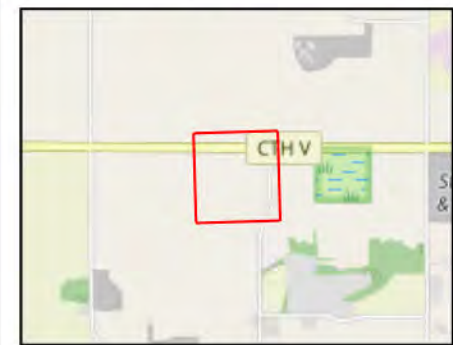
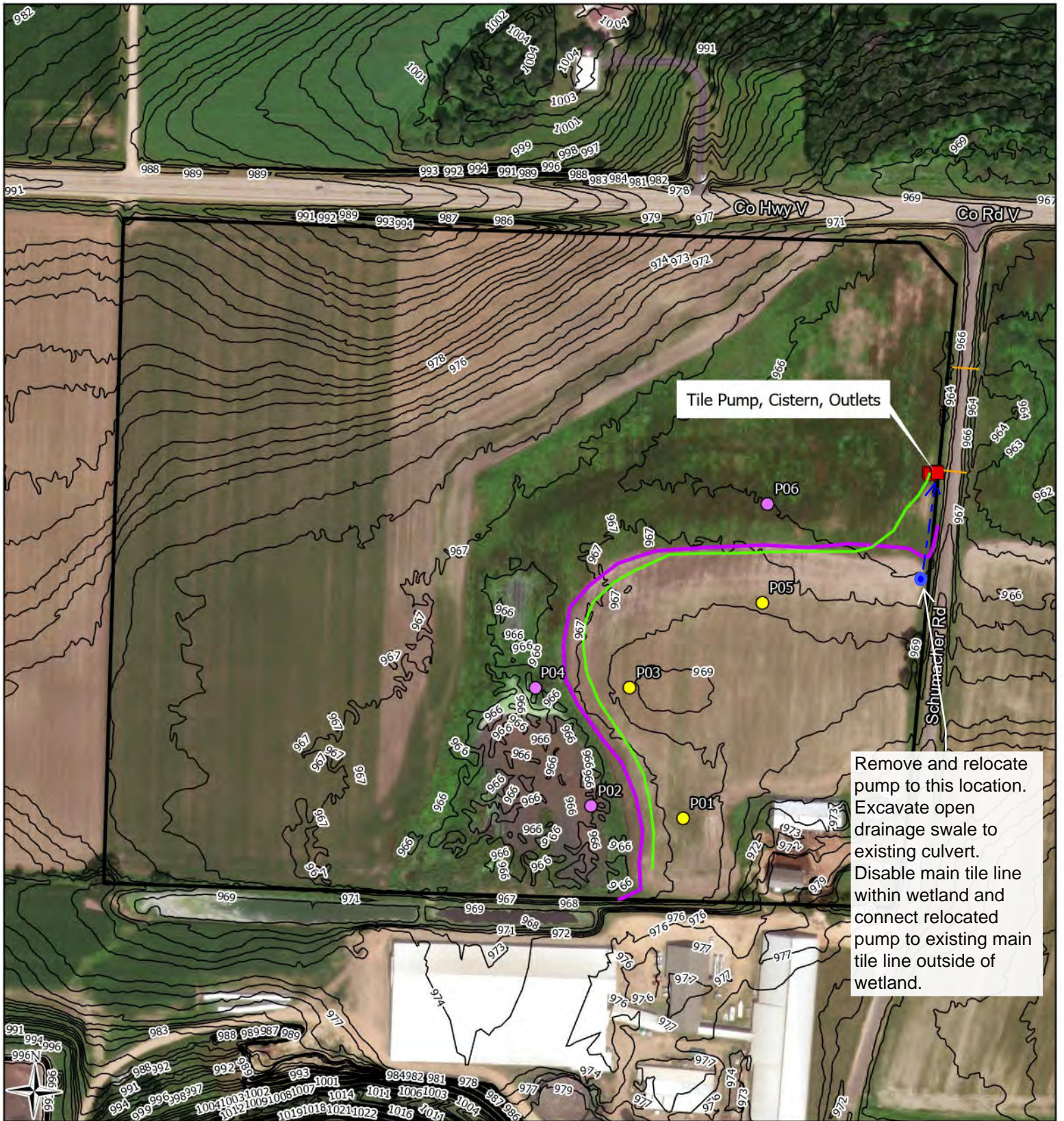
Figure 5. Wisconsin Wetland Inventory

Maier Farm
Project #20200322
T9N, R9E, S21
T Vienna, Dane Co

2022 NAIP
WDNR, USGS LRR: NCNE

Figure Created: 2/26/2024





- Study Area (44.95 ac)
 - Dane Co 1' Contours
 - Culverts
 - Wetland Boundary
 - Approx. Tile Main Location
 - Drain Tile Features
- Sample Points**
- Upland
 - Wetland

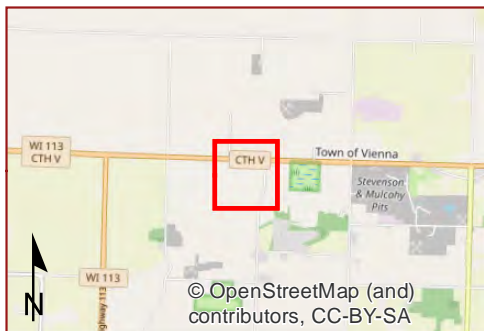


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Figure 7. Field Map

Maier Farm
Project #20200322
T9N, R9E, S21
T Vienna, Dane Co

2018 Orthophoto
Dane Co, HEG
LRR: NCNE
Figure Created: 3/5/2024



 Study Area (45.19 ac)

0 175 350
Ft

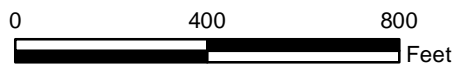
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**Appendix: 1937
Orthophoto**

Maier Farms
Project #20200322
T9N, R9E, S21
T Vienna, Dane Co, WI

1937 Orthophoto
Data: WI St. Cart. Office 5/29/2020

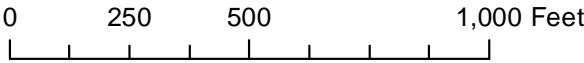
NW 1/4 sec. 21 T9N, R9 E (Vienna)
1955 Photo





1968 Dane County Aerial Imagery



May 29, 2020



Dane County Mask

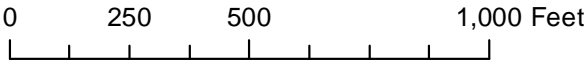
-  Dane County Mask
-  Parcels





1974 Dane County Aerial Imagery



May 29, 2020



Dane County Mask

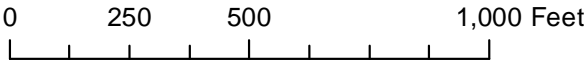
-  Dane County Mask
-  Parcels





1976 Dane County Aerial Imagery



May 29, 2020



Dane County Mask

-  Dane County Mask
-  Parcels



1979 FSA Slide



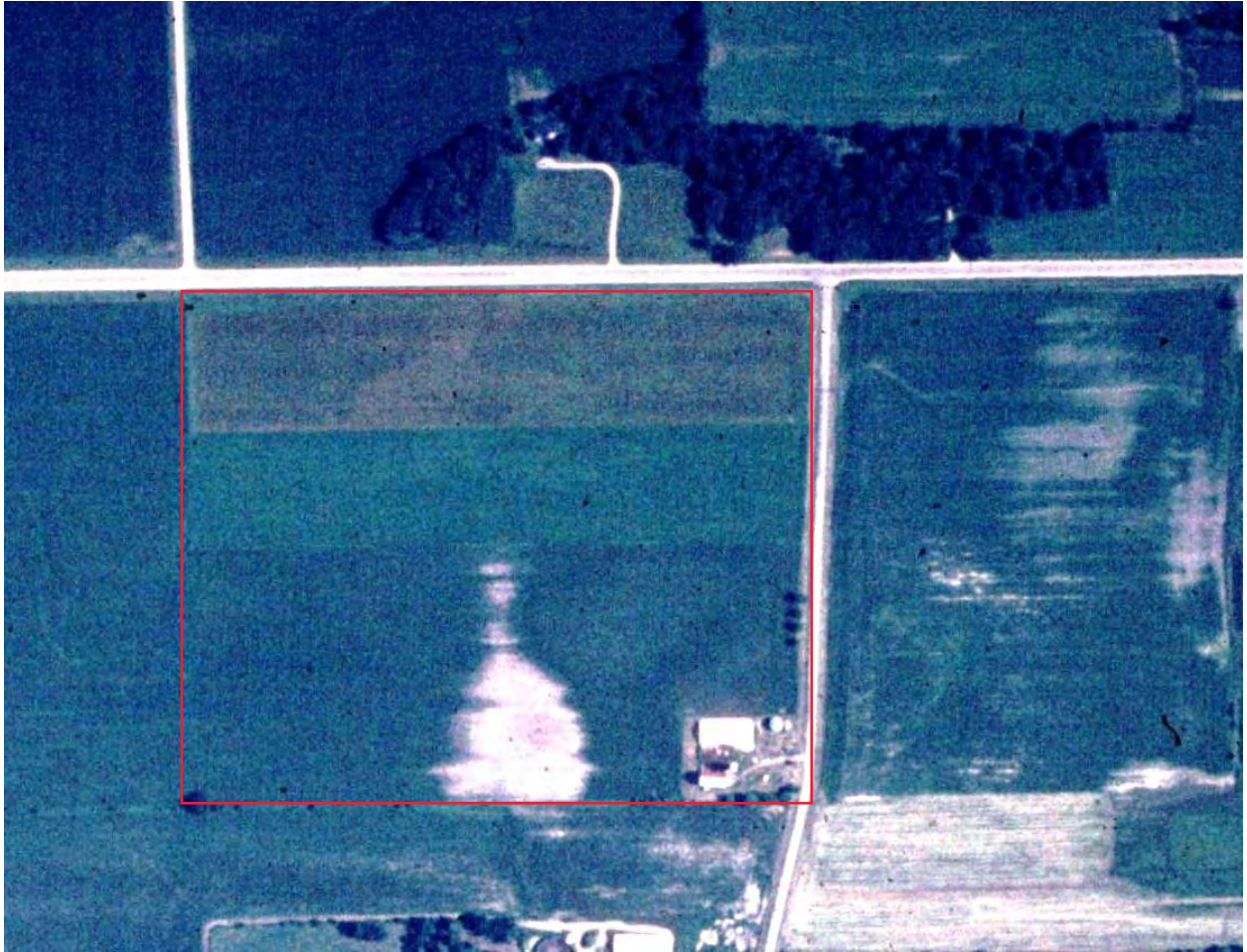
1982 FSA Slide



1983 FSA Slide



1984 FSA Slide



1985 FSA Slide



1994 FSA Slide



1995 FSA Slide



1996 FSA Slide



1997 FSA Slide



1998 FSA Slide



1999 FSA Slide



2000 FSA Slide



2001 FSA Slide

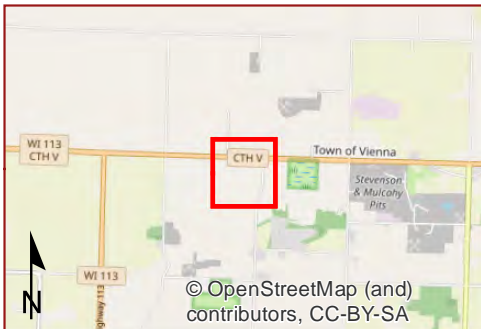


2002 FSA Slide



2003 FSA Slide





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 Study Area (45.19 ac)

0 175 350
Ft

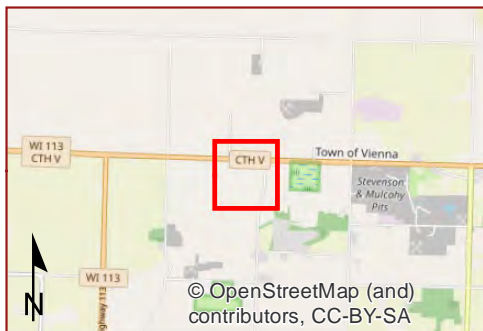
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**Appendix: 2004-07-15
NAIP Aerial Imagery**

Maier Farms
Project #20200322
T9N, R9E, S21
T Vienna, Dane Co, WI

2004 NAIP
Data: USDA

5/29/2020



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 Study Area (45.19 ac)

0 175 350
Ft

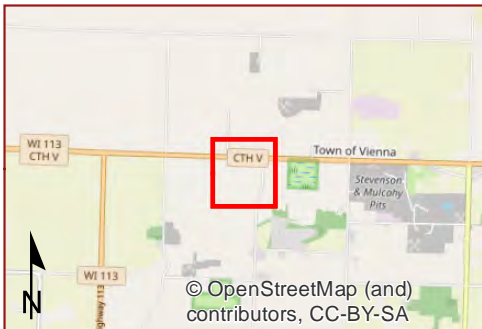
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**Appendix: 2005-07-08
NAIP Aerial Imagery**

Maier Farms
Project #20200322
T9N, R9E, S21
T Vienna, Dane Co, WI

2005 NAIP
Data: USDA

5/29/2020



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 Study Area (45.19 ac)

0 175 350
Ft

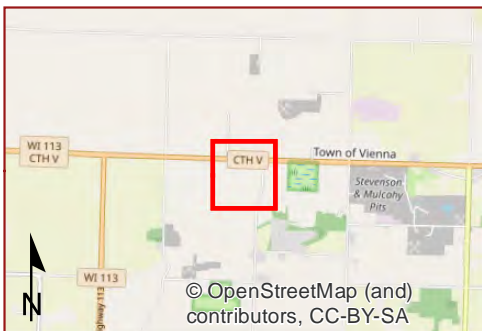
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**Appendix: 2006-07-15
NAIP Aerial Imagery**

Maier Farms
Project #20200322
T9N, R9E, S21
T Vienna, Dane Co, WI

2006 NAIP
Data: USDA

5/29/2020



 Study Area (45.19 ac)

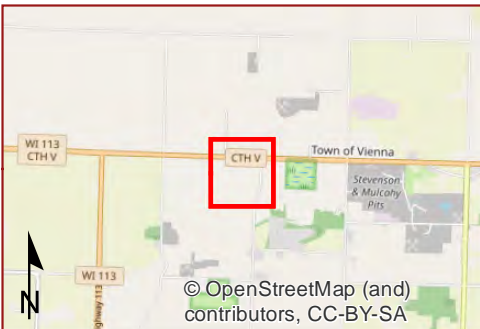
0 175 350
Ft

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**Appendix: 2008-07-09
NAIP Aerial Imagery**

Maier Farms
Project #20200322
T9N, R9E, S21
T Vienna, Dane Co, WI

2008 NAIP
Data: USDA 5/29/2020



 Study Area (45.19 ac)

0 175 350
Ft

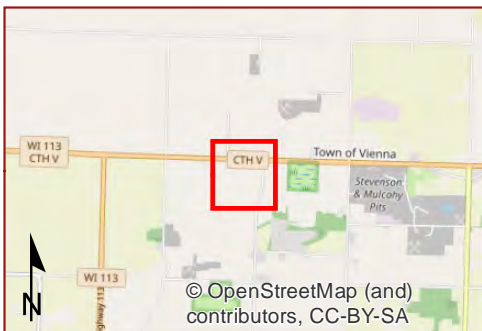
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**Appendix: 2010-07-02
NAIP Aerial Imagery**

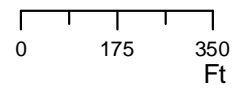
Maier Farms
Project #20200322
T9N, R9E, S21
T Vienna, Dane Co, WI

2010 NAIP
Data: USDA

5/29/2020



 Study Area (45.19 ac)

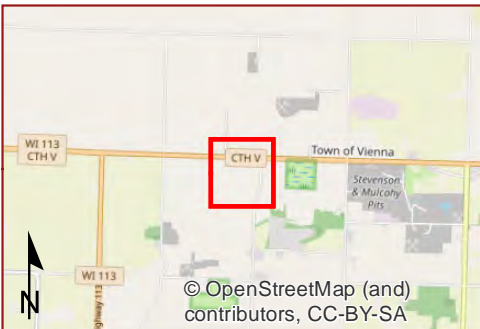


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**Appendix: 2013-07-04
NAIP Aerial Imagery**

Maier Farms
Project #20200322
T9N, R9E, S21
T Vienna, Dane Co, WI

2013 NAIP
Data: USDA 5/29/2020



 Study Area (45.19 ac)

0 175 350
Ft

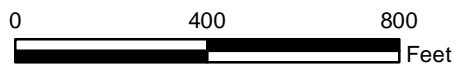
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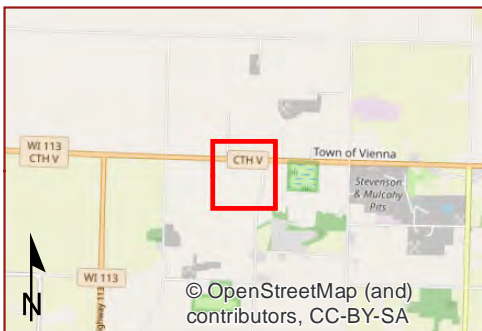
**Appendix: 2015-10-11
NAIP Aerial Imagery**

Maier Farms
Project #20200322
T9N, R9E, S21
T Vienna, Dane Co, WI

2015 NAIP
Data: USDA 5/29/2020

NW 1/4 sec. 21 T9N, R9 E (Vienna)
2017 Photo





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 Study Area (45.19 ac)

0 175 350
Ft

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**Appendix: 2017-09-03
NAIP Aerial Imagery**

Maier Farms
Project #20200322
T9N, R9E, S21
T Vienna, Dane Co, WI

2017 NAIP
Data: USDA

5/29/2020



 Study Area (44.95 ac)

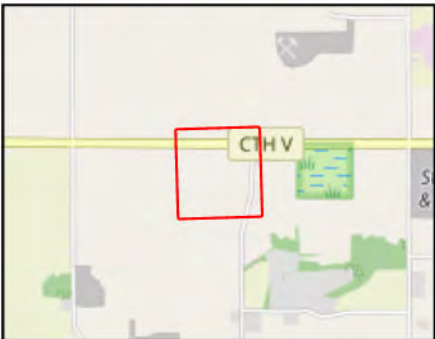
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Appendix: 2018-10-04
NAIP Aerial Imagery

Maier Farm
Project #20200322
T9N, R9E, S21
T Vienna, Dane Co

2018 NAIP
USDA





 Study Area (44.95 ac)

0 250
Ft

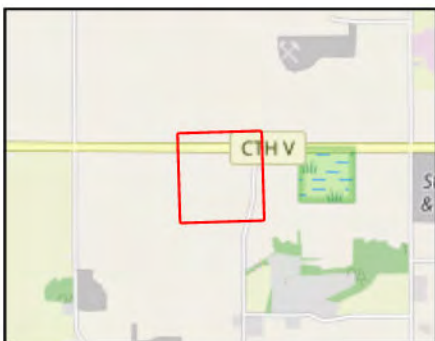
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Appendix: 2020-08-30
NAIP Aerial Imagery

Maier Farm
Project #20200322
T9N, R9E, S21
T Vienna, Dane Co

2020 NAIP
USDA

Figure Created: 2/26/2024





 Study Area (44.95 ac)

0 250
Ft

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Appendix: 2022-06-26
NAIP Aerial Imagery

Maier Farm
Project #20200322
T9N, R9E, S21
T Vienna, Dane Co

2020 NAIP
USDA

Figure Created: 2/26/2024

