

Red Lake Watershed District

President
Dale M. Nelson

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Secretary
LeRoy Ose

Managers
Les Torgerson
Allan Page
Brian Dwight

June 29, 2018

To Whom it may Concern:

Last summer SWCDs, located within the Red Lake Watershed District (RLWD), each adopted a summary of "other watercourses" for inclusion to the local water plan. According to Minn. Stat. 103F.48 subd 4., SWCDs were required to consult with the local water management authorities and provide these summaries for inclusion into the local water plan. Minn. Stat. 103F.48 subd. 4 further requires that the local water management authorities incorporate this summary into their water plan no later than July 1, 2018.

Given the statutes listed above, you are hereby given notice that on June 28, 2018, the RLWD passed a resolution which indicates that the District will add an addendum to the Districts 10 Year Comprehensive Plan dated May 2006, will adopt the summary submitted by each of the SWCD's and will provide notice to the agencies, organizations and individuals that are required to receive a copy of the plan changes (including BWSR).

As per Minnesota State Statute 103F.48, (Buffer Law) subd. 4, enclosed is a Resolution to Incorporate the Summary of Watercourses into the Red Lake Watershed District Watershed Management Plan as well as a copy of resolutions passed by the Red Lake County, Pennington, East Polk, West Polk, Beltrami, Clearwater, Marshall, Koochiching, Mahnomen, Roseau and Itasca SWCD Boards.

If you have questions or need additional information please contact the Red Lake Watershed District office at 218-681-5800.

Sincerely,



Myron Jesme
Administrator

MJ/tja

Enclosures

**Resolution to Incorporate the Summary of Watercourses
into the Red Lake Watershed District
Watershed Management Plan**

Whereas; Minnesota Statutes Chapter 103F.48 requires soil and water conservation districts (SWCDs) in consultation with local water management authorities, to develop, adopt, and submit to each local water management authority within its boundary a summary of watercourses.

Whereas; The Board of Water and Soil Resources has adopted Buffer Law implementation Policy #6 'Local Water Resources Riparian Protection ("Other Watercourses")' which identifies steps SWCDs are required to take in developing said inventory.

Whereas; Red Lake County, Pennington, East Polk, West Polk, Beltrami, Clearwater, Marshall, Koochiching, Mahnomen, Roseau and Itasca SWCD have all adopted a Descriptive or Map inventory of other watercourses and provided it to Red Lake Watershed District.

Whereas; Red Lake Watershed District recommends that implementation of buffers or other practices on these waters be voluntary in nature through the Comprehensive Local Water Management Plan.

Whereas; Minnesota Statutes Chapter 103F.48 requires a local water management authority that receives a summary of watercourses identified under this subdivision must incorporate an addendum to its comprehensive local water management plan or comprehensive watershed management plan to include the SWCD recommendations by July 1, 2018.

Whereas; Minnesota Statutes Chapter 103F.48 does not require a plan amendment as long as a copy of the included information is distributed to all agencies, organizations, and individuals required to receive a copy of the plan changes.

Therefore be it resolved that; The summary of watercourses or "other waters" for Red Lake Watershed District shall be incorporated as an addendum in its current local watershed management plan.

Be it further resolved that; Red Lake Watershed District Board of Managers authorizes staff to provide a copy of the addendum and any supporting information to be distributed to all agencies, organizations, and individuals required to receive a copy of the plan changes.

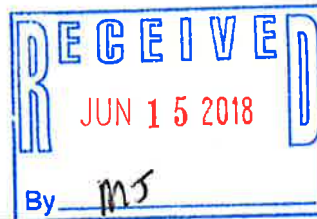
Dated 6-28-18



Dale M. Nelson
Chairman



LeRoy Ose
Secretary



502 7th Street Southwest
Suite 5
Roseau, MN 56751

Phone: 218-463-1903
Website: roseauswcd.org

June 14, 2018

Notice: Addendum added to Roseau County Comprehensive Local Water Management Plan

Last summer Roseau SWCD adopted a summary of "Other Watercourses" for inclusion to the local water plan. According to Minn. Stat. 103F.48 subd 4., each SWCD was required to consult with the local water management authorities and provide these summaries for inclusion into the local water plan. Minn. Stat. 103F.48 subd. 4 further requires that the local water management authorities incorporate this summary into the local water plan no later than July 1, 2018. As Roseau County is the local water management authority, the Roseau County Commissioners passed a resolution (Resolution No. 2018-05-01) on May 8, 2018 adopting the descriptive inventory summary of "Other Watercourses" as an addendum to the Roseau County Comprehensive Local Water Management Plan. The descriptive inventory summary has been enclosed. The summary may also be viewed at <https://www.roseauswcd.org/plans>. Click on Addendum – Other Watercourses.

Thank you,

A handwritten signature in blue ink, appearing to read "Janine Lovold".

Janine Lovold
Water Planner
Roseau County SWCD

Enclosure



502 7th Street Southwest
Suite 8
Roseau, MN 56751

Phone: 218-463-1903
Website: roseauswcd.org

Resolution # 2017-02

Other Waters - Roseau County

Whereas; Minnesota statues 103F.48 requires SWCDs in consultation with local water management authorities, to develop, adopt, and submit to each local water management authority within its boundary a summary of watercourses for inclusion in the local water management plan.

Whereas; The summary of watercourses has been commonly referred to as "other waters".

Whereas; The Roseau SWCD believes the purpose of identifying "other waters" is to be inclusive of all watercourses where water quality would benefit from the voluntary installation of a buffer or filter strip.

Whereas; Current state and federal programs exist to provide landowners with incentives to voluntarily install buffer or filter strips.

Whereas; Current State and Federal programs have eligibility criteria for watercourses where water quality would benefit from the installation of a buffer or filter strip.

Whereas; Producing a map of all the watercourses meeting the eligibility criteria would be time consuming and may not be inclusive of all watercourses where water quality would benefit from the installation of a buffer or filter strip.

Therefore be it resolved that; The summary of watercourses or "other waters" for Roseau County shall be descriptive in format instead of in map format.

Be it further resolved that; the description of watercourses to be included in the summary of watercourses or "other waters" **shall be;** All watercourses deemed eligible for the adjacent land to be voluntarily enrolled into a buffer or filter strip practice under the current eligibility criteria for state and federal programs. Excluding those watercourses depicted on the DNR buffer protection map.

A list of watercourses included in this descriptive inventory are;
Perennial streams, Seasonal streams depicted on USGS topographic maps,
Perennial streams, Seasonal streams depicted on soil survey maps,
Identified by onsite visits, and drainage ditches that are perennial or seasonal streams

Clearwater Soil & Water Conservation District
Resolution
To Adopt Summary of Watercourses
for inclusion in Local Water Management Plan

Whereas; Minnesota statutes 103F.48 requires SWCDs in consultation with local water management authorities, to develop, adopt, and submit to each local water management authority within its boundary a summary of watercourses for inclusion in the local water management plan.

Whereas; The Board of Water and Soil Resources has adopted Buffer Law implementation Policy #6 'Local Water Resources Riparian Protection ("Other Watercourses")' which identifies steps SWCDs are required to take in developing said inventory.

Whereas; Clearwater SWCD and the water management authorities within its jurisdiction discussed watershed data, water quality data and land use information as a criteria in development of this list.

Whereas; Clearwater SWCD has assessed the water quality benefits that buffers and alternative practices could provide and determined that current State and Federal programs have eligibility criteria for watercourses where water quality would benefit from the installation of a buffer or filter strip.

Whereas; Clearwater SWCD determined that the rationale for inclusion of "other watercourses" is to be inclusive of all watercourses, as identified in the attached maps, where water quality would benefit from the voluntary installation of a buffer or filter strip.

Whereas; it is the intent of the Clearwater SWCD that the watercourses identified in attachment A are not to be included in the list of waters required in statute to have a buffer, as per buffer maps maintained by the DNR or any other entity.

Therefore be it resolved that; The summary of watercourses or "other waters" for Clearwater SWCD shall be in the form of a descriptive report with accompanying maps.

Be it further resolved that; the summary report and map of watercourses to be included in the summary of watercourses or "other waters" can be found in attachment A.

Adopted this 22nd day of June, 2017.

By: 
Clearwater SWCD Board

Offered by Harlan Strandten, seconded by Alroy Lewis, adopted by a vote of 4 at the regular meeting of the SWCD Board of Clearwater County on June 22th, 2017.

Pennington Soil and Water Conservation District
"Other Watercourses"

Whereas; Minnesota statues 103F.48 requires SWCDs, in consultation with local water management authorities, to develop, adopt, and submit to each local water management authority, within its boundary, a summary of watercourses for inclusion in the local water management plan, and

Whereas; the summary of watercourses has been commonly referred to as "other waters", and

Whereas; other watercourses not included on the DNR buffer map exist that would benefit from buffers or other conservation practices, and

Whereas; criteria for the "Other Waters" map was developed using local knowledge, the Stream Power Index (SPI) rating of five, and a minimum drainage area of 2500 acres, and

Whereas; many of the watercourses identified using above criteria outlet into, or upstream, of impaired waters, and

Whereas; watercourses or "other waters" for the Pennington SWCD have been mapped and titled "Other Waters" 2015 Buffer Law, and

Therefore be it resolved that; watercourses included in the summary of watercourses or "other waters" **shall be;** identified on the "Other Waters" 2015 Buffer Law map developed by the Pennington SWCD.

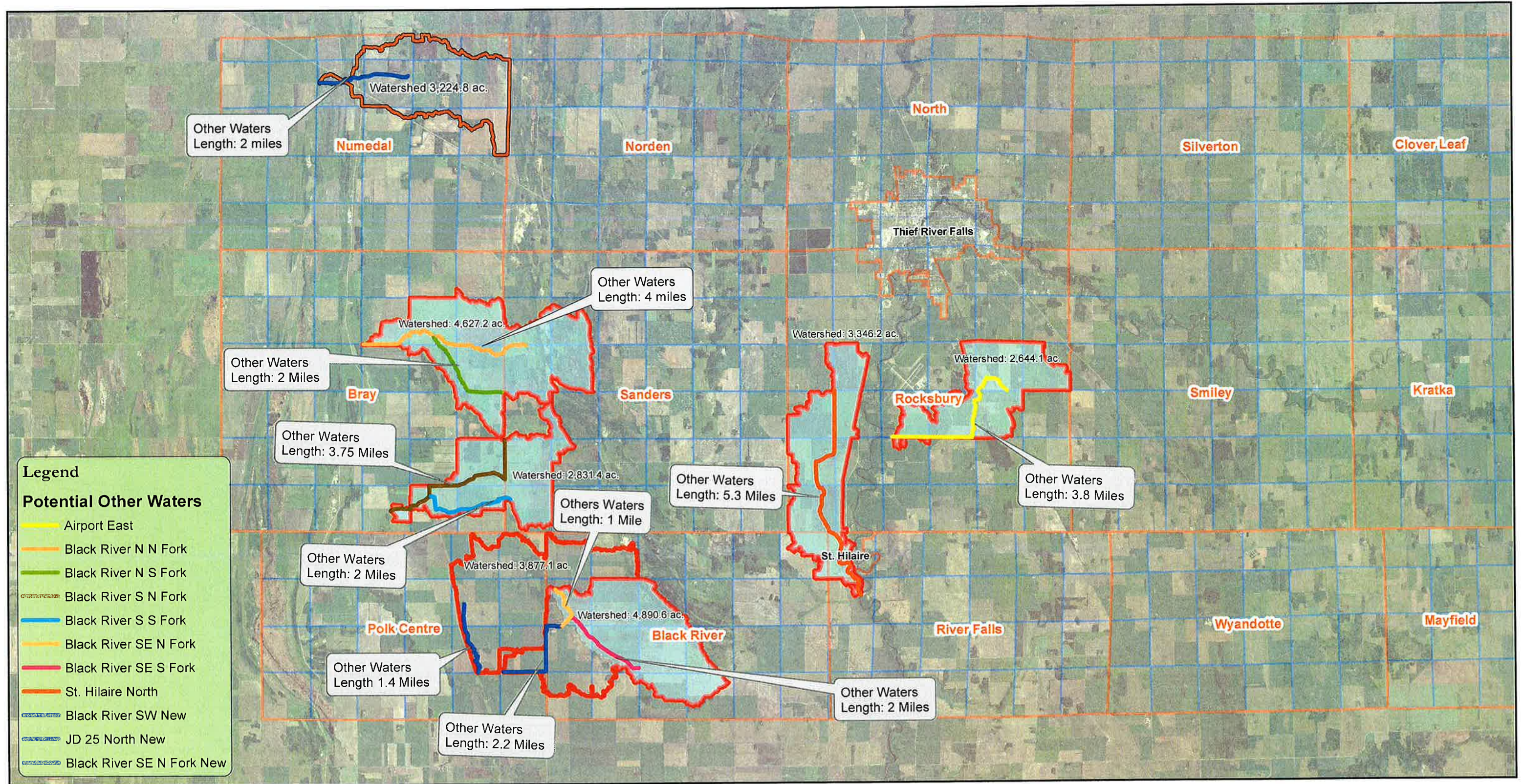
Be it further resolved that; the "Other Waters" 2015 Buffer Law map shall be incorporated by July 1, 2018 into the Red Lake River One Watershed One Plan and the Pennington County Comprehensive Local Water Management Plan.

Adopted this 15th day of June, 2017.

By: 
Greg Hilgeman, Chair

"Other Waters" 2015 Buffer Law

Pennington County



0 1 2 4 6 8 Miles

1:126,720
1 in = 2 miles

Maps are for graphical purposes only. They do not represent a legal survey.

"Other Waters" were included based on location and watershed size. Field ditches contributing to public waters that have a watershed greater than 2500 acres are included in this map. The length of the ditch is based on the "Stream Power Index Model". If it is ranked 5 it was including on the map. Included is the length of each segment and the size of each watershed.



Date: 5/31/2017

Resolution to Adopt the Local Water Resources Riparian Protection "Other Watercourses" of West Polk County.

Be it resolved that in accordance with Minnesota Statutes §103F.48, Subd. 4, in consultation with local water management authorities, on or before July 1, 2017, West Polk Soil and Water Conservation District shall develop, adopt, and submit to each local water management authority within its boundary a summary of watercourses not identified on the MN DNR Buffer Protection Map for inclusion in the local water management authority's plan.

WHEREAS, West Polk Soil and Water Conservation District utilized watershed data, water quality and land use information in the development of inclusion criteria.

WHEREAS, West Polk Soil and Water Conservation District has assessed the water quality benefits that buffers or alternative practices could provide to local water resources that were not included on the Buffer Protection Map.

WHEREAS, West Polk Soil and Water Conservation District prepared a rationale and criteria for inclusion or exclusion of waters that were not on the Buffer Protection Map prior to adoption of the summary of watercourses.

WHEREAS, West Polk Soil and Water Conservation District acknowledges that the development and identification of these summaries of watercourses are in no way subject to any State or local authority, including but not limited to Minnesota Statute §103F.48, or regulation and have been generated solely for potential future voluntary conservation efforts.

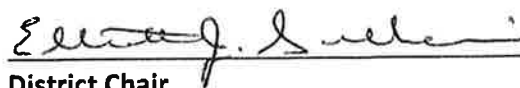
THEREFORE, Be it Resolved, West Polk Soil and Water Conservation District will adopt this resolution establishing the summary of watercourses in map, list, and electronic form and submit it to all local water management authorities within their jurisdiction and to BWSR by July 1, 2017.

CERTIFICATION

STATE OF MINNESOTA

West Polk Soil and Water Conservation District

I do hereby certify that the foregoing resolution is a true and correct copy of a resolution presented to and adopted by West Polk Soil and Water Conservation District at a duly authorized meeting thereof held on the 15th of June, 2017.



District Chair

6-15-17

Date

West Polk SWCD Other Waters

Inclusion Criteria

- 1) Watercourses identified on the DNR map as 1 dash and 3 dots.
- 2) All unidentified watercourses from DNR protected waters to the outlet of a county ditch system.
- 3) All dashed/arrow watercourses not designated as public drainage shown on the DNR map.
- 4) Watercourses removed by the DNR Commissioner's order issued 4-13-17.
- 5) On-site field verified watercourses not included on PWI or Buffer map.

Data:

1996 revised DNR PWI Map

DNR Commissioners order

DNR Buffer Map

Stream Power Index tool

FSA aerial imagery

West_Polk_other_waters

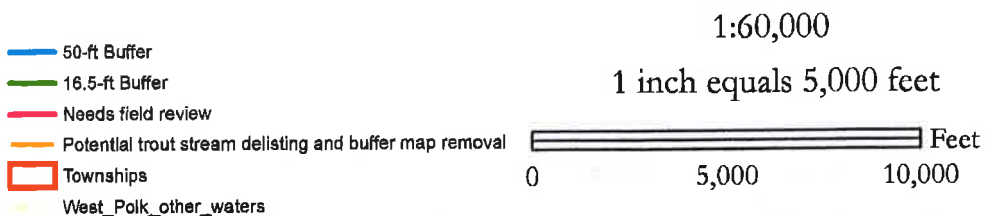
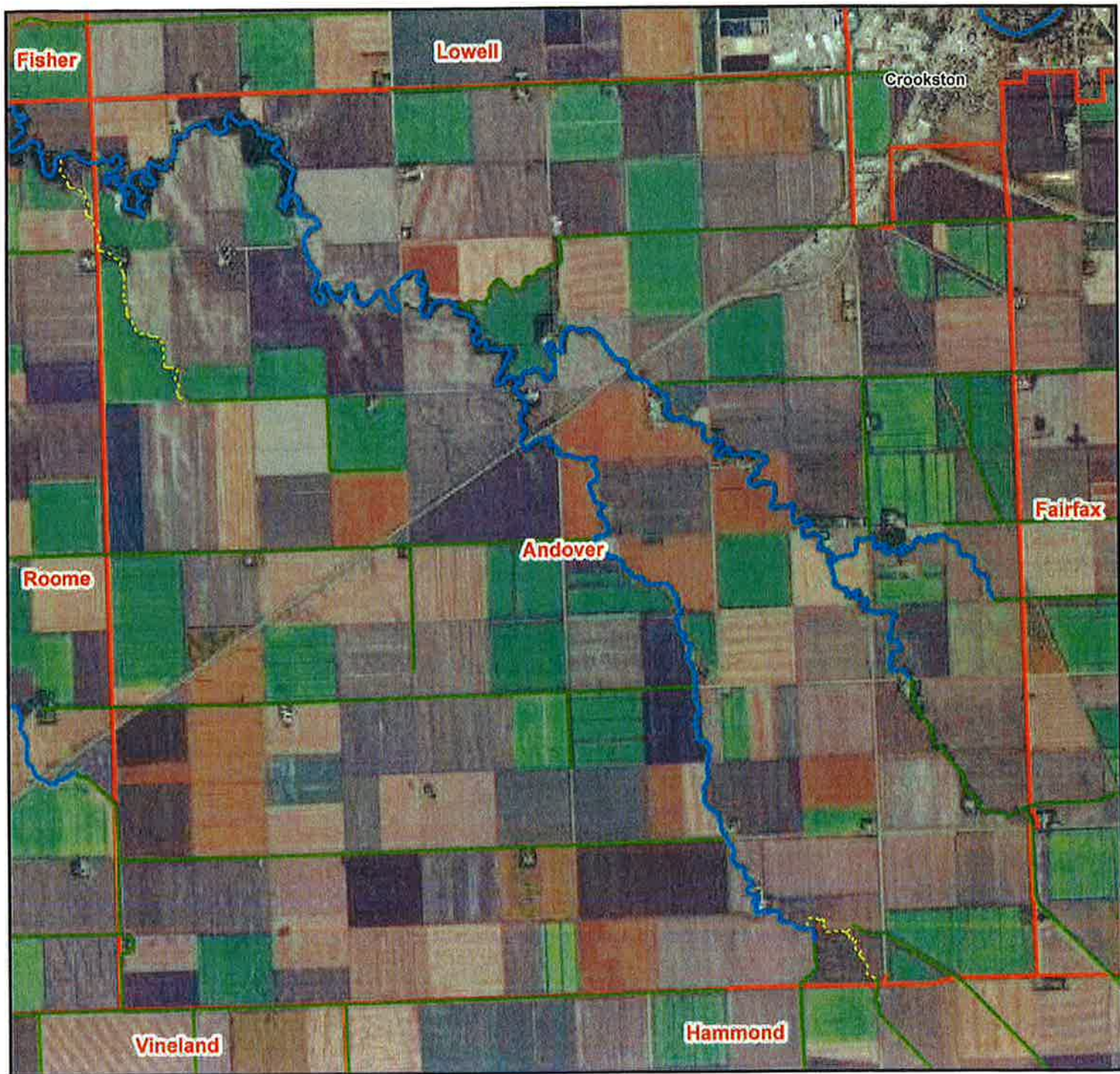
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2	outlet / other	-96.6113	47.8215	-96.6325	47.8187	6232.4202	PWI 60013a - PCD 1 Br 3	high	9020303	T150 R47 S12
3	outlet / other	-96.6865	47.7677	-96.6914	47.7764	4115.3045	PCD 78 - unknown slough	medium	9020303	T150 R47
4	outlet / other	-96.7551	47.769	-96.7496	47.7677	1453.5861	PCD 132 - coulee PWI 60014a	medium	9020303	T150 R48 S36
5	outlet / other	-96.9206	47.9201	-96.9217	47.9199	294.0241	PCD 32 - PWI 60005a	medium	9020306	T151 R49 S10
6	outlet / other	-96.9556	47.9738	-96.9556	47.9713	936.1925	PCD 38 - PWI 60005a	high	9020306	T152 R49
7	outlet / other	-96.9323	47.8765	-96.9373	47.8754	1848.5164	PCD 58 - PWI 60009a	medium	9020303	T151 R49
8	outlet / other	-96.8953	47.904	-96.8948	47.905	408.2576	PCD 25 - PWI 60005a	high	9020306	T151 R49
9	outlet / other	-96.8651	47.8766	-96.8657	47.8763	213.5725	PCD 31 - PWI 60006a	high	9020306	T151 R48 S30
10	outlet / other	-96.8567	47.8621	-96.8576	47.862	225.8414	PCD 30 - PWI 60005a	high	9020306	T151 R48
11	outlet / other	-96.8181	47.8339	-96.8179	47.8332	268.3517	PCD 34 - PWI 60005a	high	9020306	T150 R48 S04
12	outlet / other	-96.8199	47.8185	-96.8139	47.8184	1487.4436	RLWD 34 - unnamed creek	high	9020303	T150 R48
13	outlet / other	-96.9411	47.8152	-96.9329	47.7699	18978.6657	USACE dike - PWI 60023a	medium	9020303	T150 R49
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28	outlet / other	-96.5898	47.9343	-96.5474	47.9151	18538.5735	unkown	medium	9020306 T151 R46	
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Andover

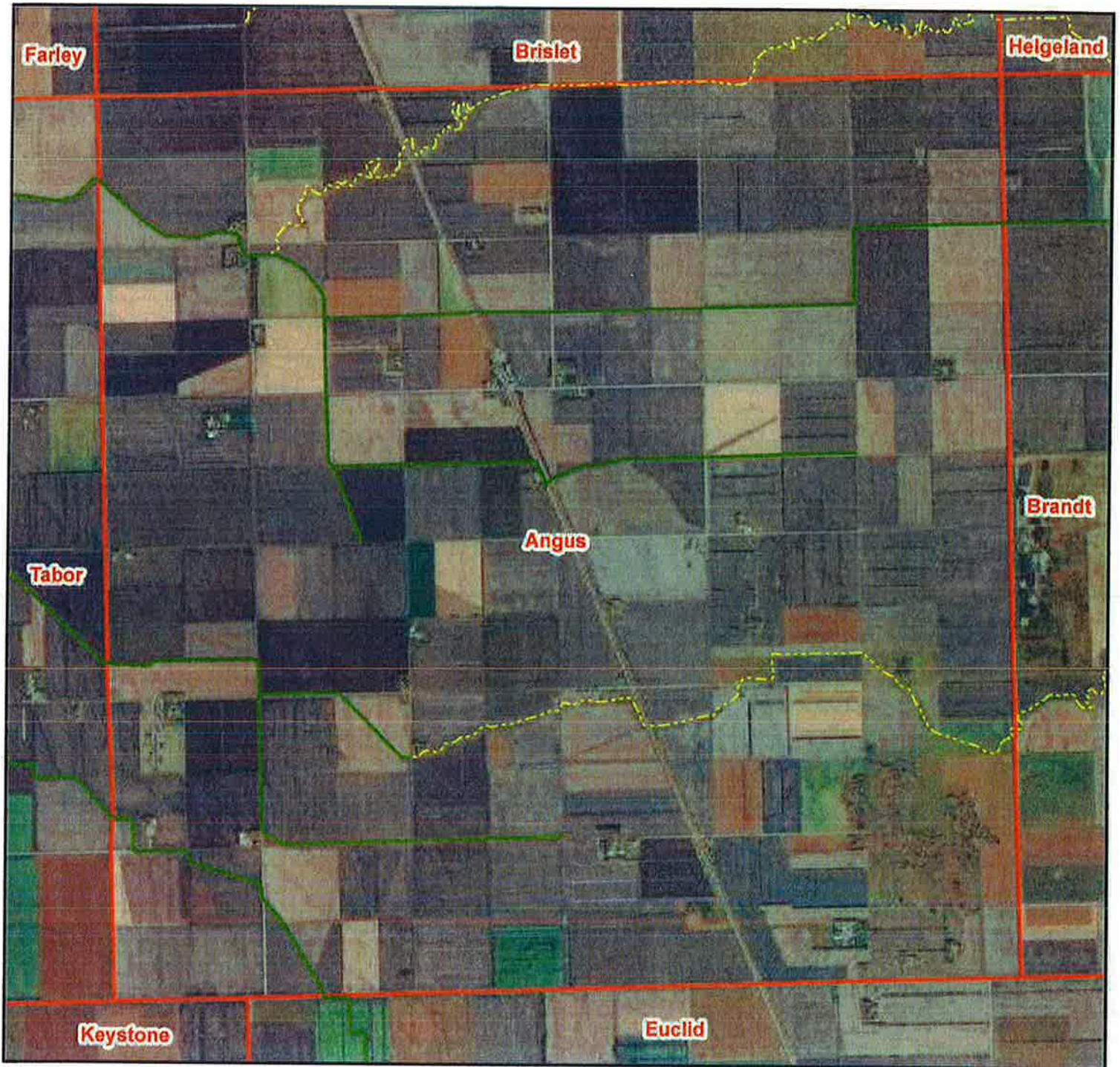
Polk County



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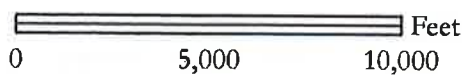
Date: 6/19/2017

Angus Polk County



- 50-ft Buffer
- - - 16.5-ft Buffer
- Needs field review
- Potential trout stream delisting and buffer map removal
- Townships
- - - West_Polk_other_waters

1:60,000
1 inch equals 5,000 feet

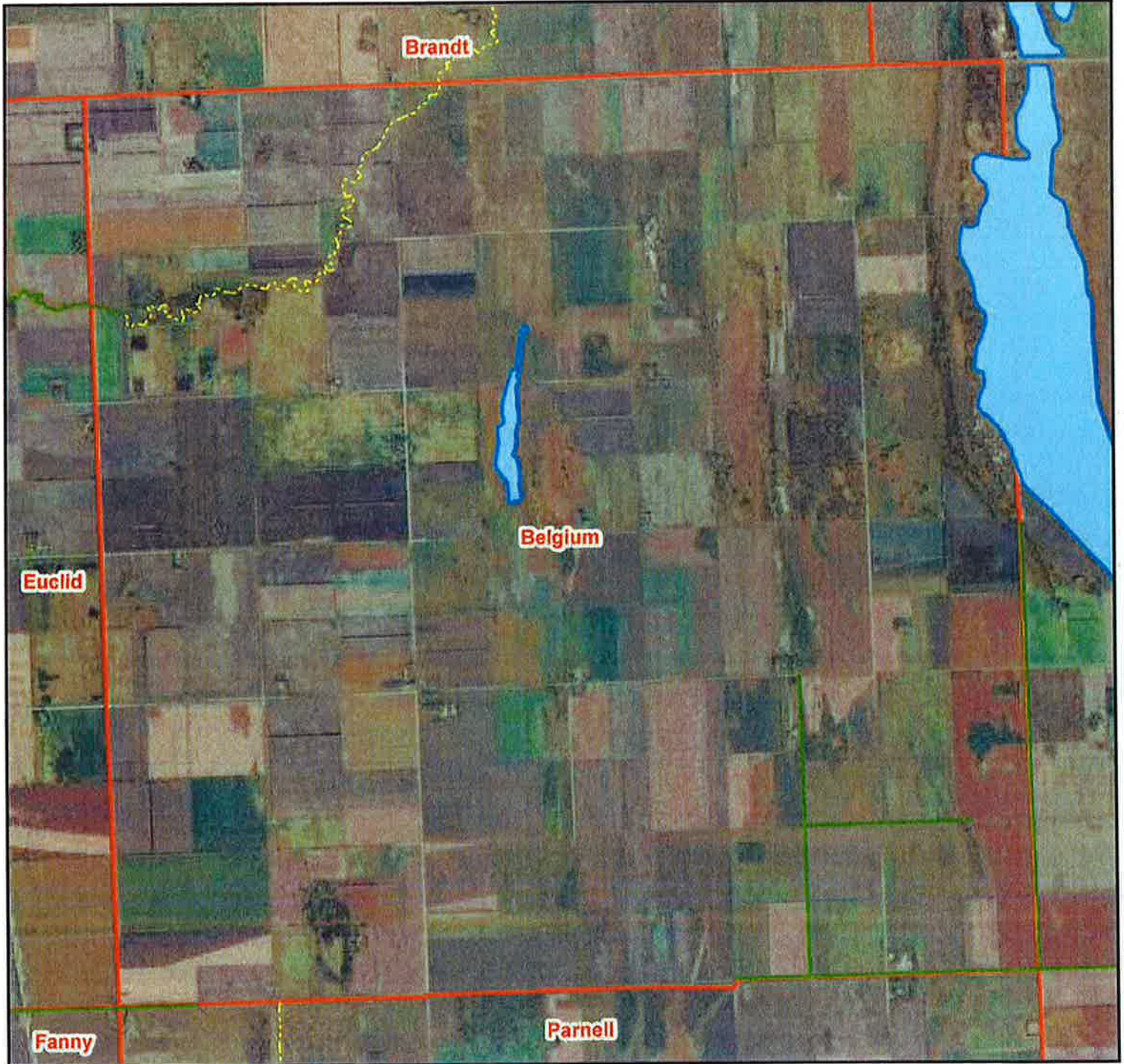


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Date: 6/19/2017

Belgium

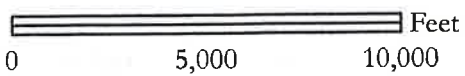
Polk County



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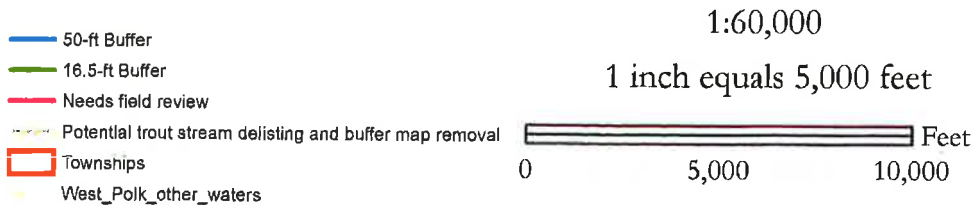
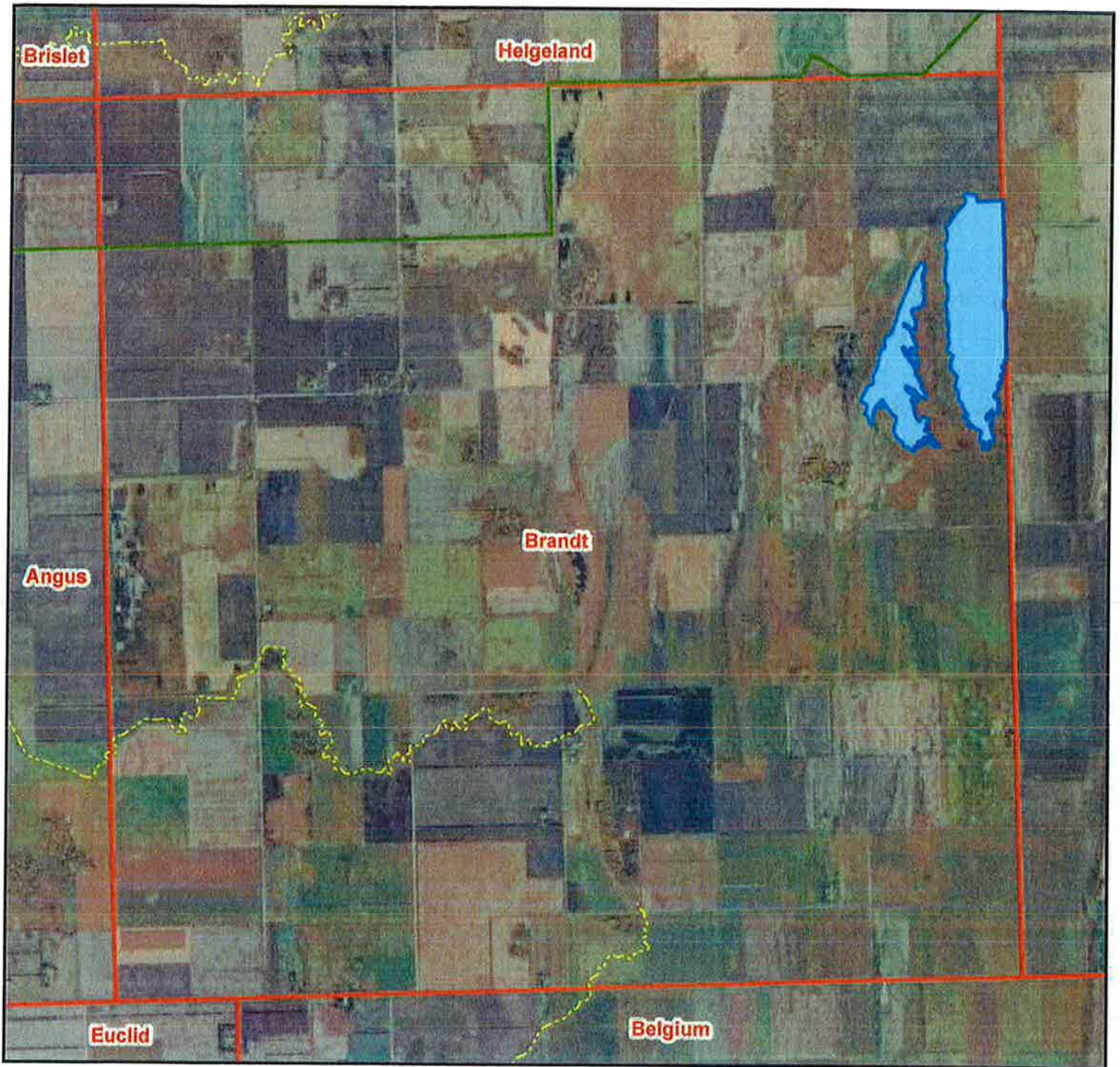


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Date: 6/19/2017

Brandt

Polk County

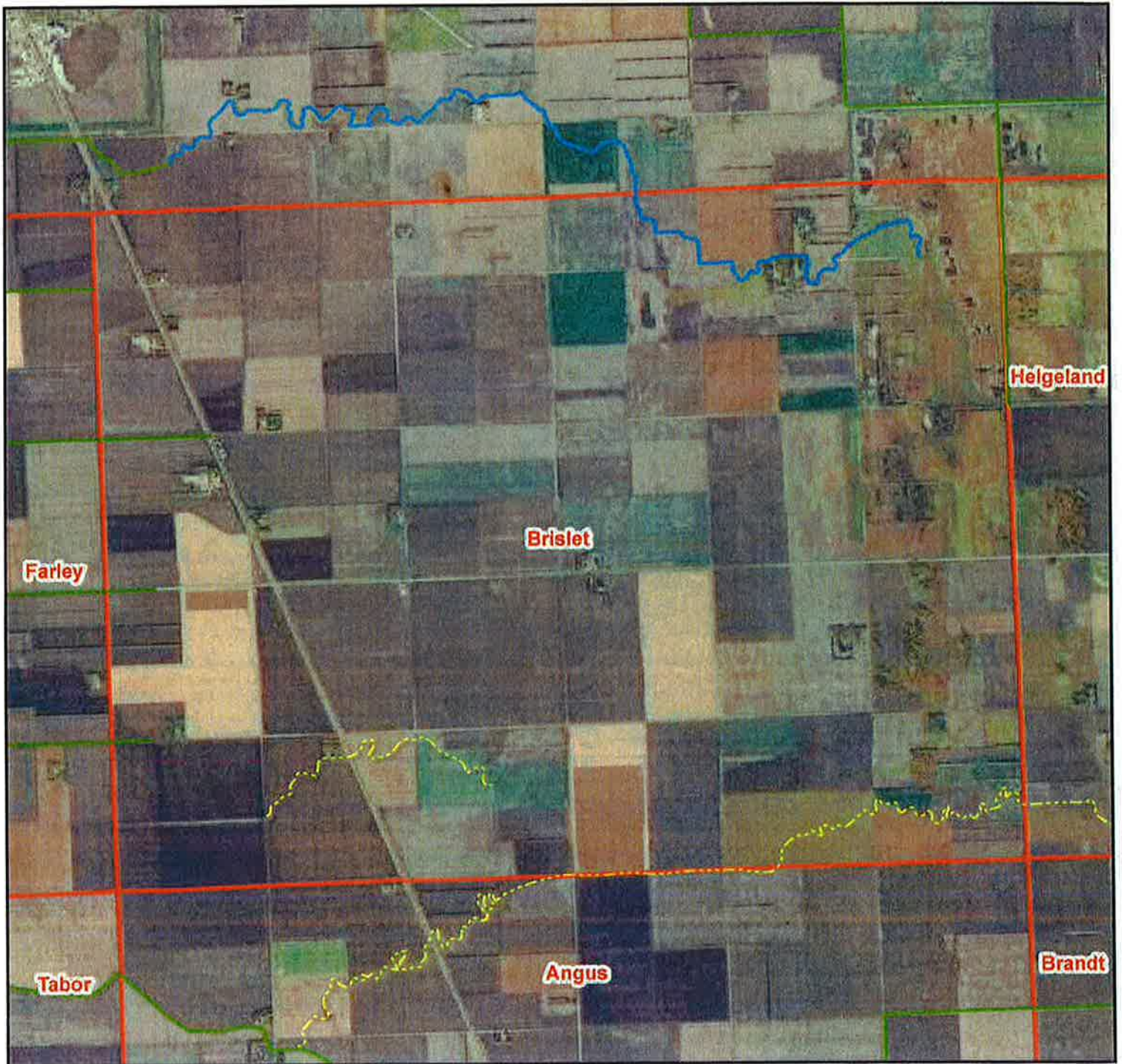
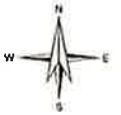


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Date: 6/19/2017

Brislet

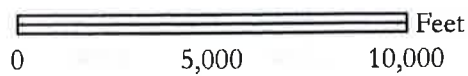
Polk County



1:60,000

1 inch equals 5,000 feet

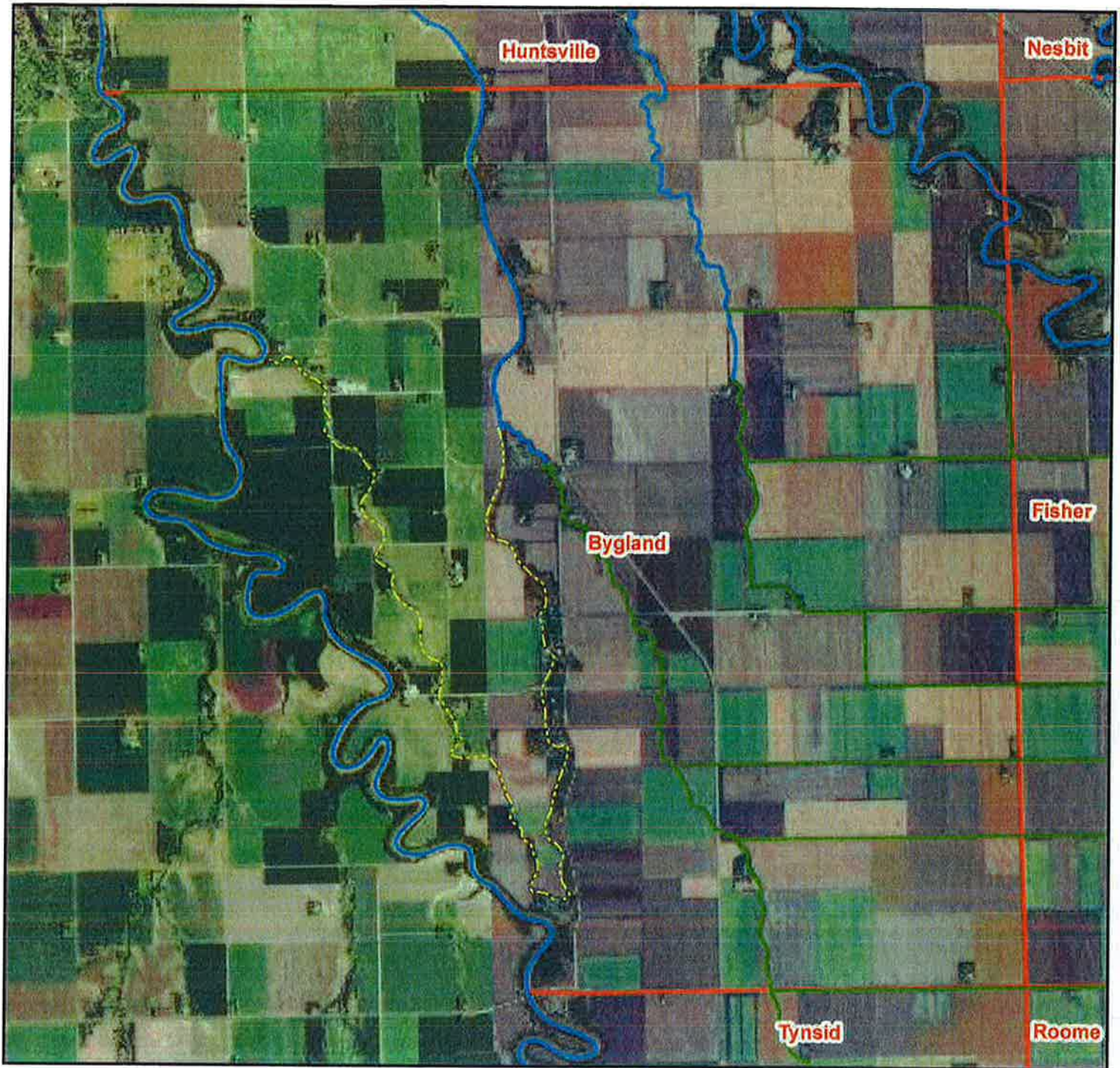
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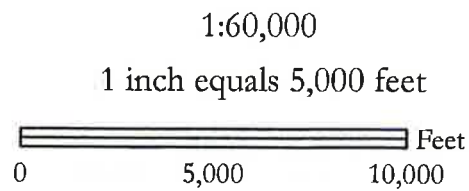
Maps are for graphical purposes only. They do not represent a legal survey.

Date: 6/19/2017

Bygland Polk County



- 50-ft Buffer
- 16.5-ft Buffer
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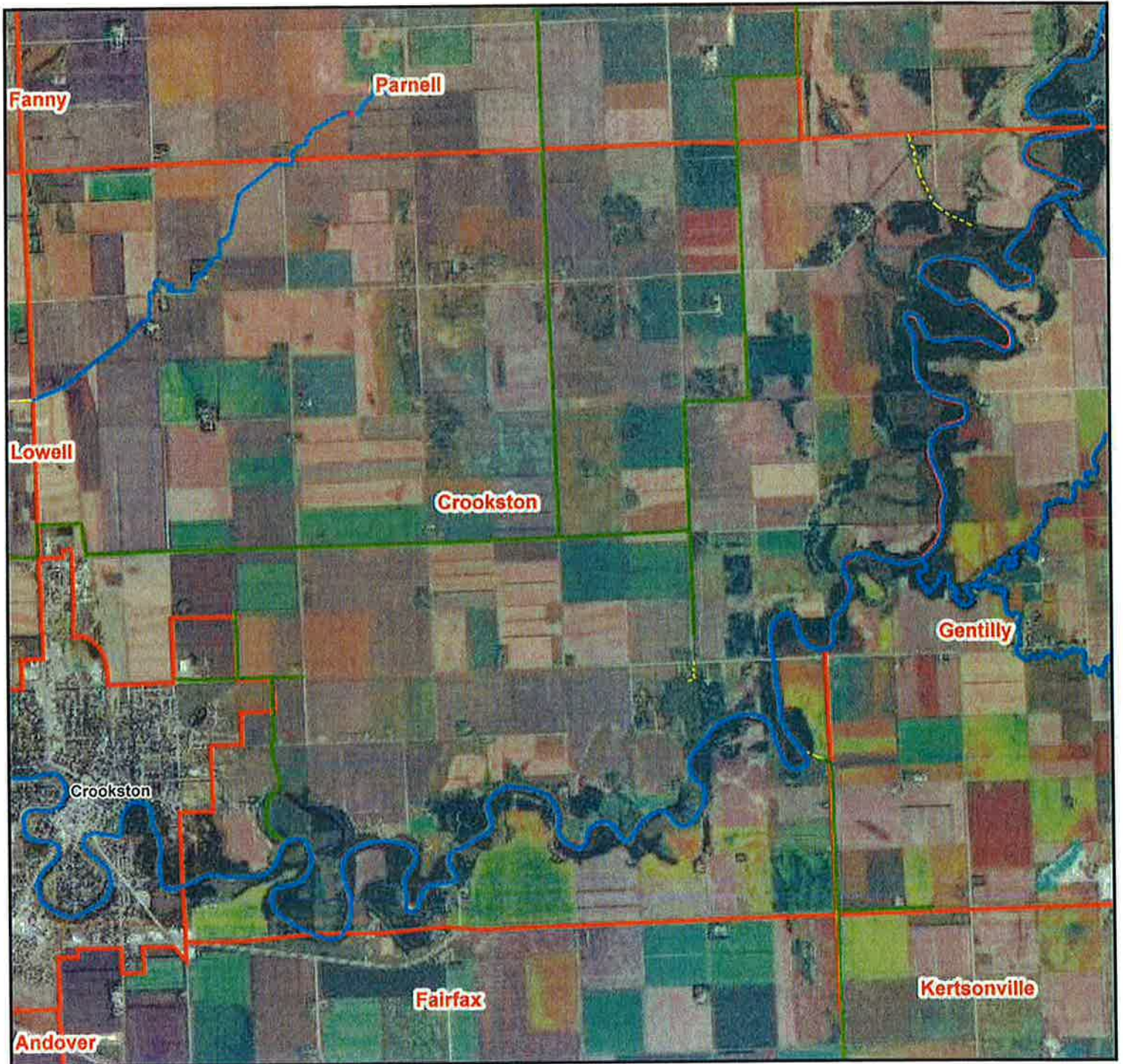


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Date: 6/19/2017

Crookston

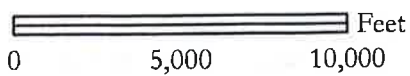
Polk County



1:70,000

1 inch equals 5,833 feet

- 50-ft Buffer
- 16.5-ft Buffer
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- Townships
- West_Polk_other_waters

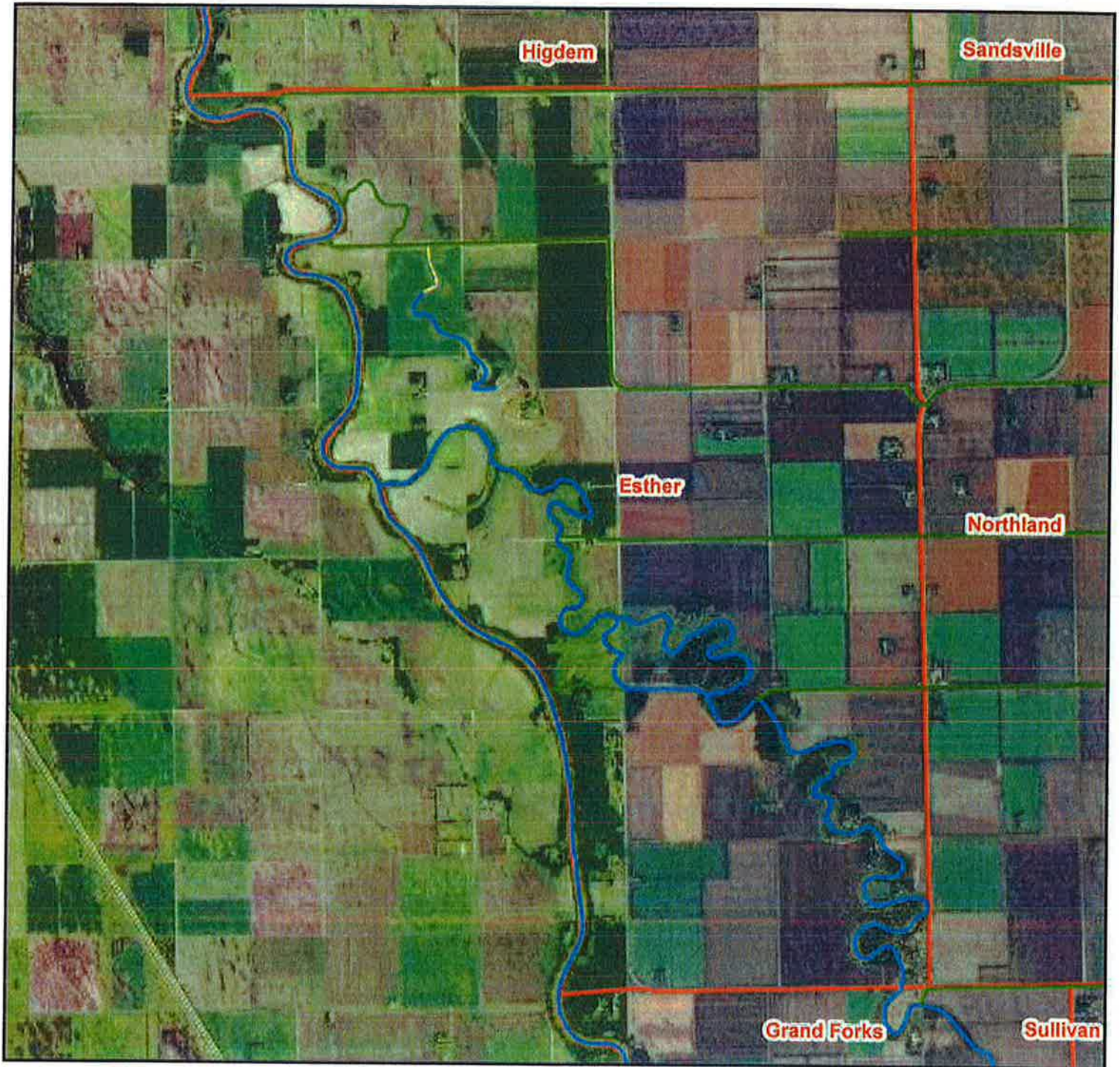


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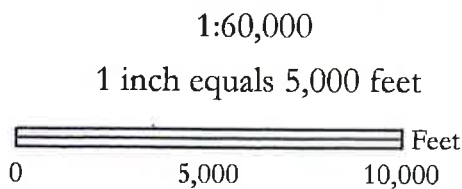
Date: 6/19/2017

Esther

Polk County



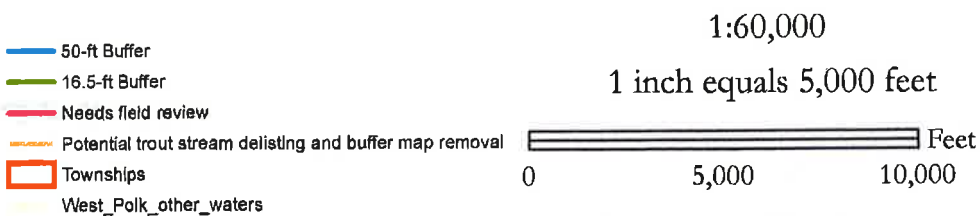
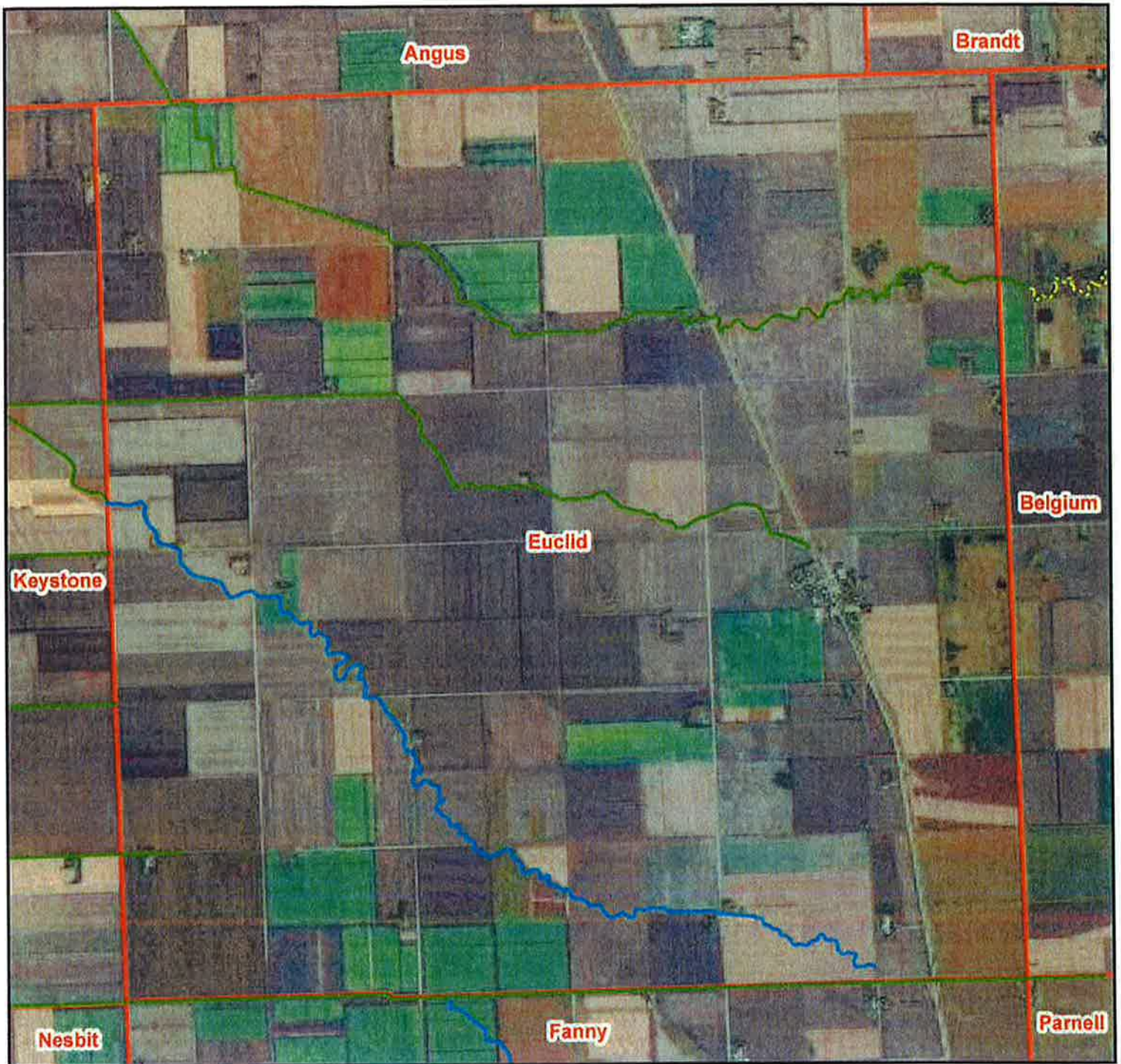
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Euclid Polk County

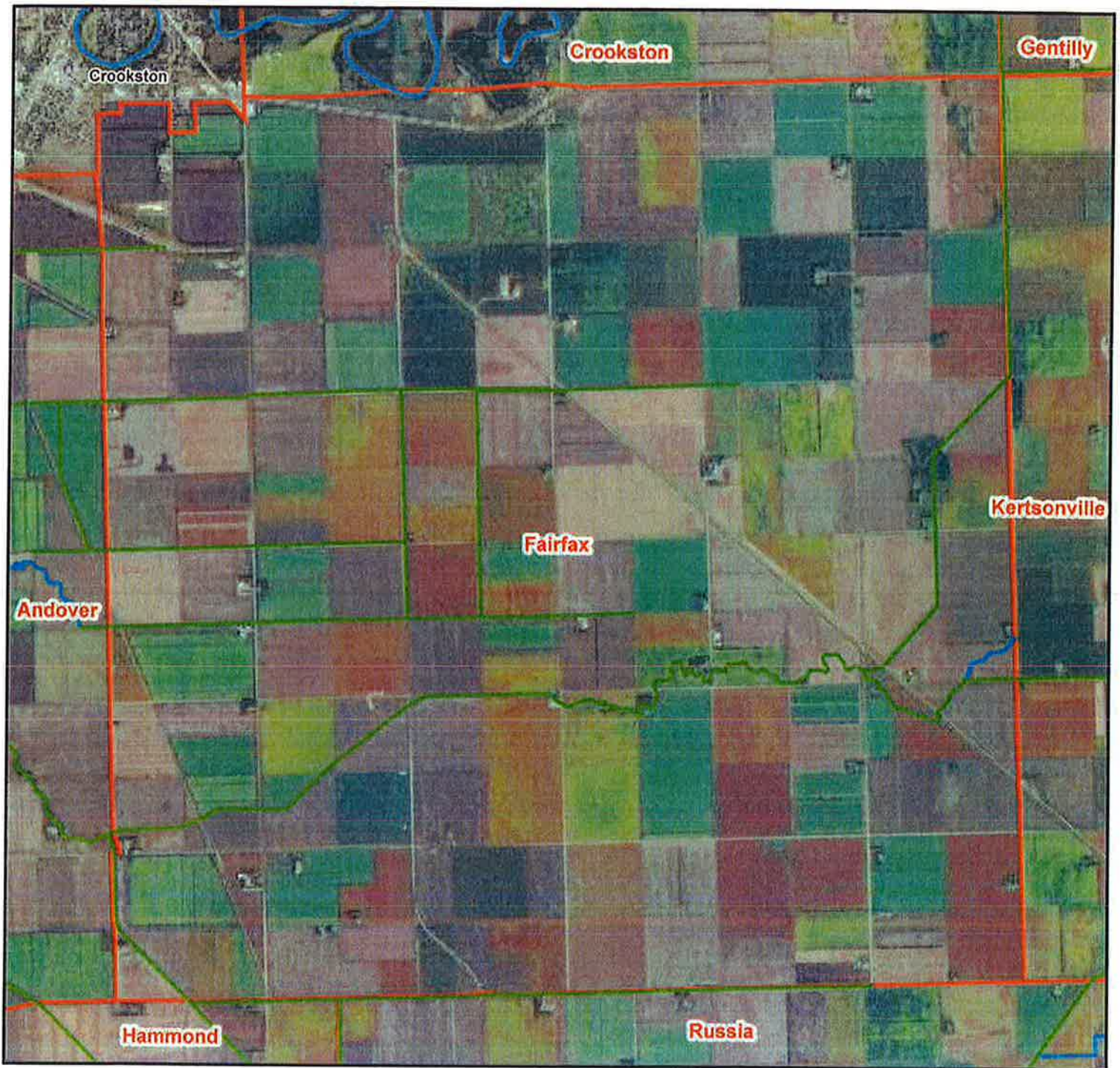


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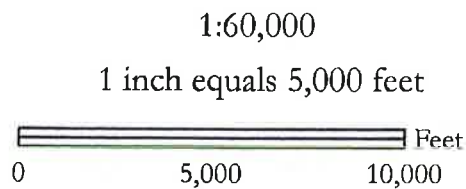
Date: 6/19/2017

Fairfax

Polk County



- 50-ft Buffer
- 16.5-ft Buffer
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- Townships
- West_Polk_other_waters

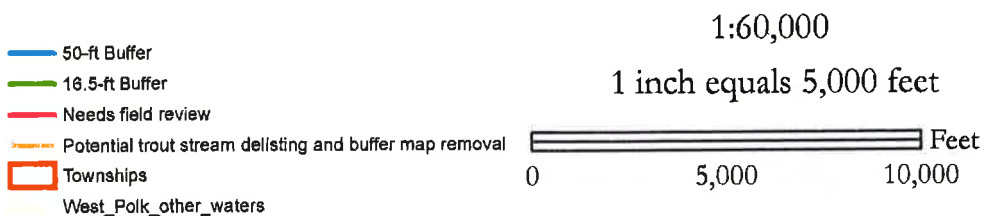


Maps are for graphical purposes only. They do not represent a legal survey.

Date: 6/19/2017

Fanny

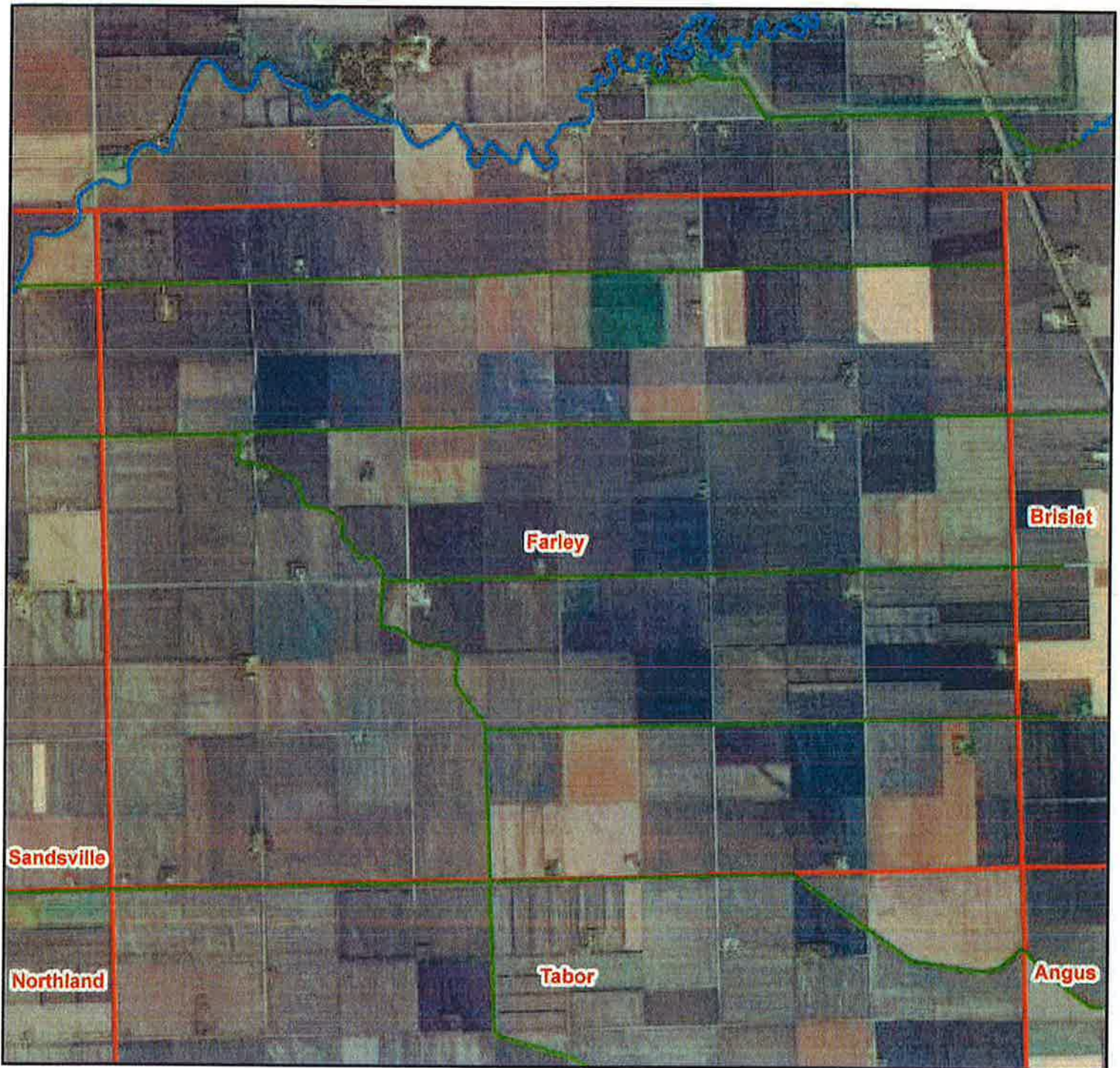
Polk County



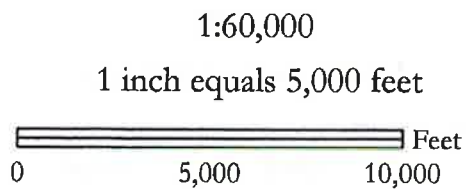
Maps are for graphical purposes only. They do not represent a legal survey.

Date: 6/19/2017

Farley Polk County



- 50-ft Buffer
- 16.5-ft Buffer
- Needs field review
- Potential trout stream delisting and buffer map removal
- Townships
- West_Polk_other_waters

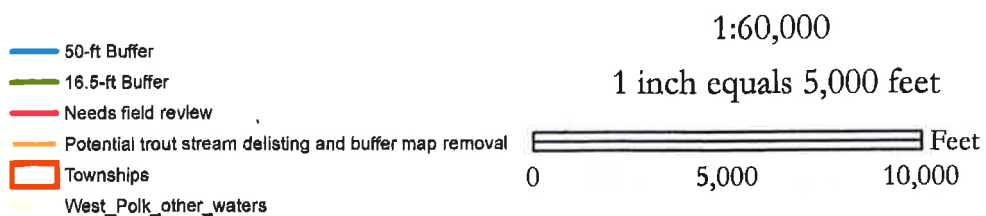
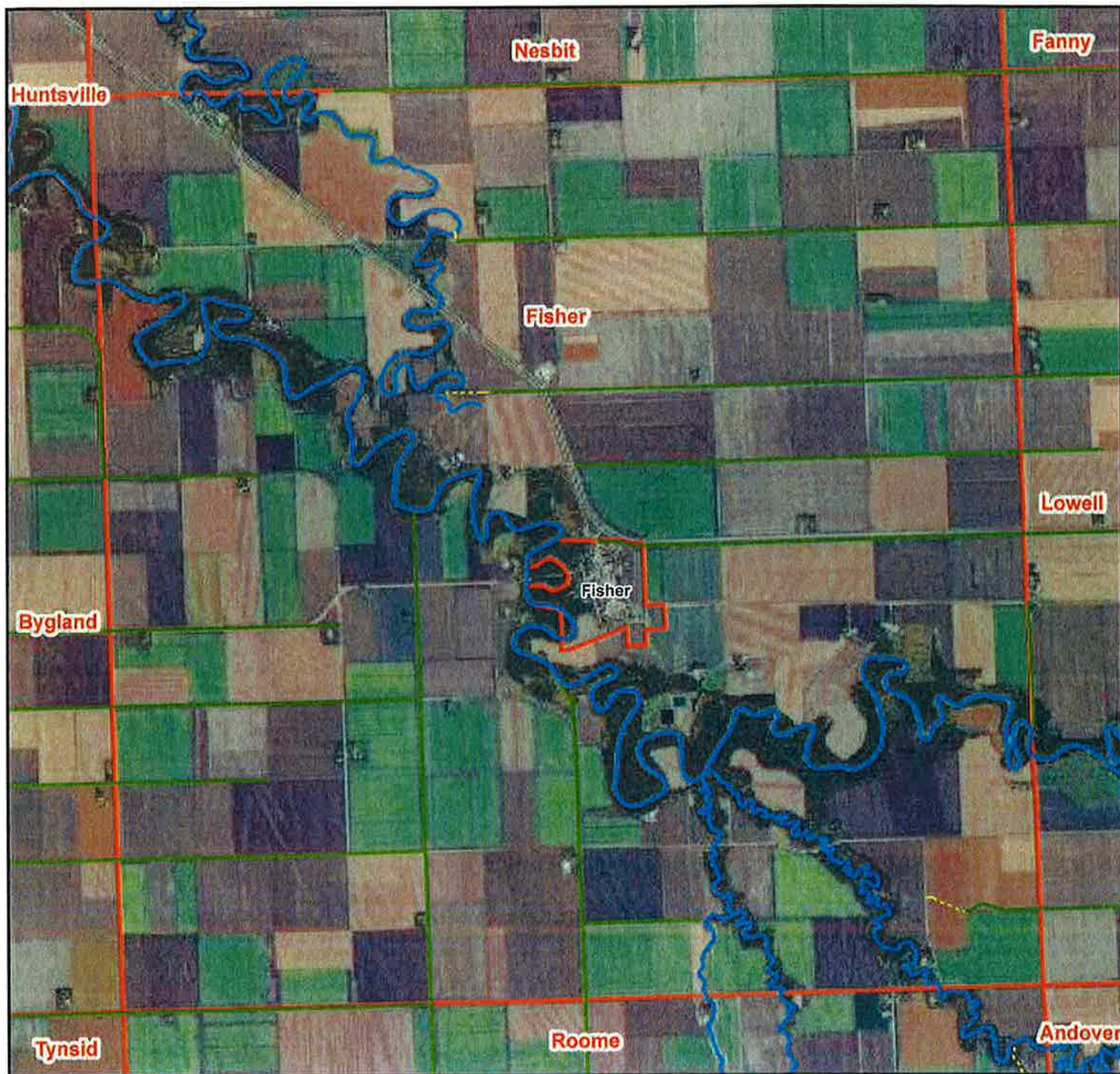


Maps are for graphical purposes only. They do not represent a legal survey.

Date: 6/19/2017

Fisher

Polk County

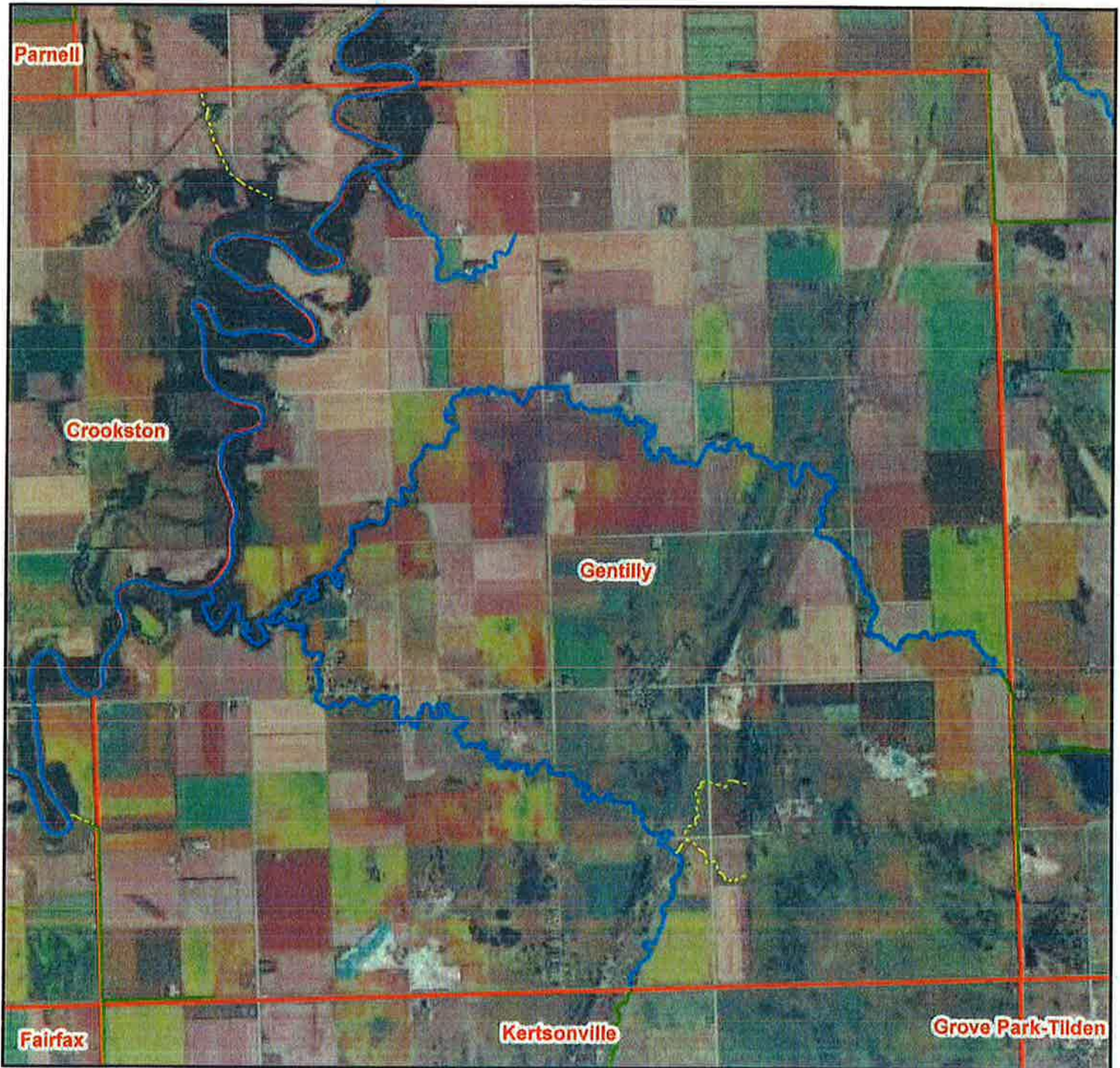


Maps are for graphical purposes only. They do not represent a legal survey.

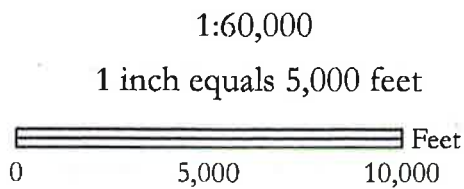
Date: 6/19/2017

Gentilly

Polk County



- 50-ft Buffer
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- Needs field review
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- Townships
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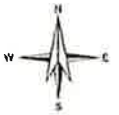


Maps are for graphical purposes only. They do not represent a legal survey.

Date: 6/19/2017

Grand Forks

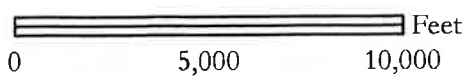
Polk County



- 50-ft Buffer
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1:60,000

1 inch equals 5,000 feet



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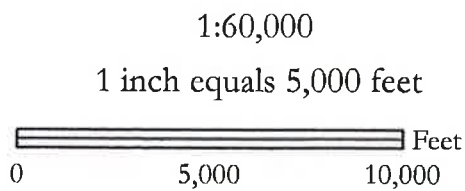
Date: 6/19/2017

Hammond

Polk County



- 50-ft Buffer
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- Townships
- West_Polk_other_waters

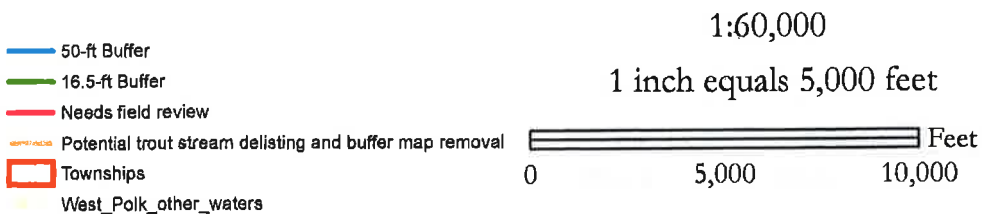
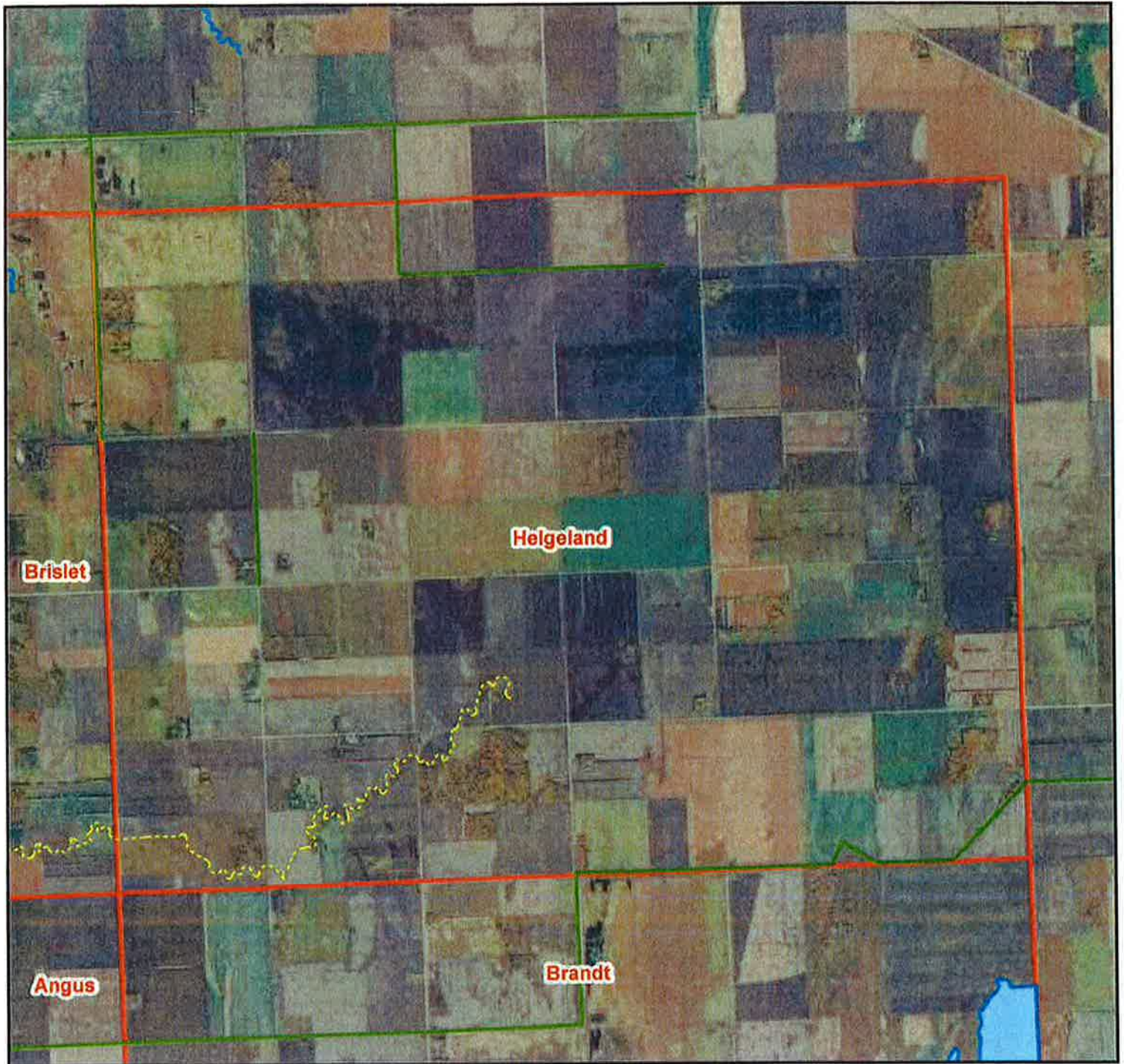


Maps are for graphical purposes only. They do not represent a legal survey.

Date: 6/19/2017

Helgeland

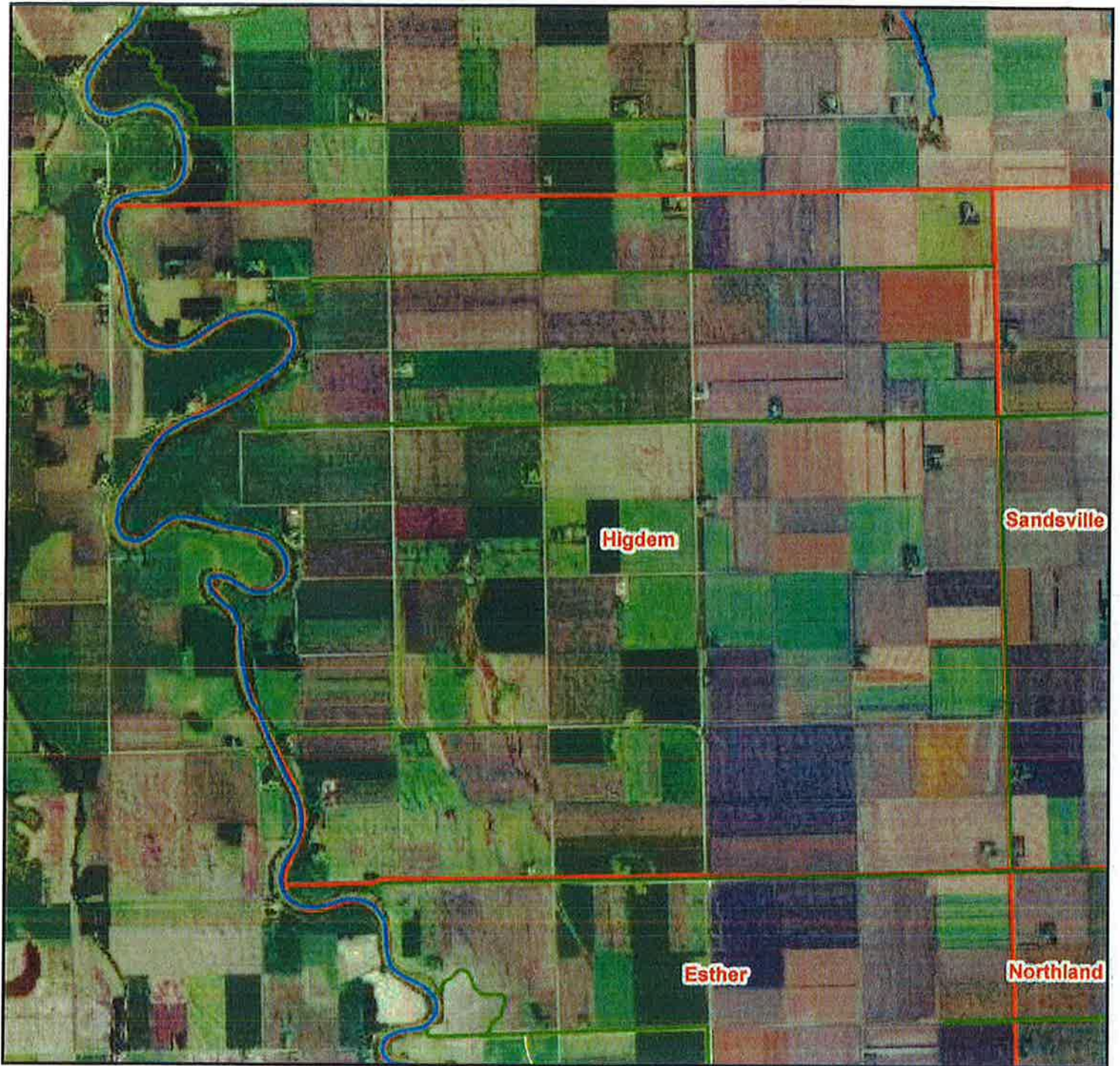
Polk County



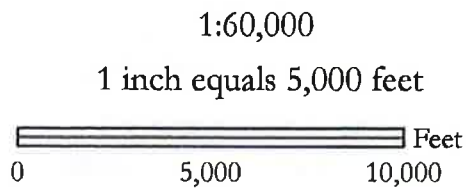
Maps are for graphical purposes only. They do not represent a legal survey.

Date: 6/19/2017

Higdem Polk County



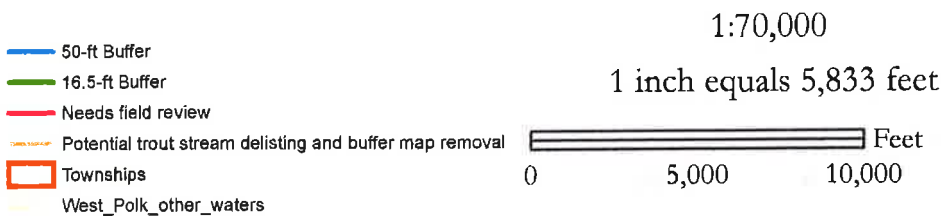
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- West_Polk_other_waters



Maps are for graphical purposes only. They do not represent a legal survey.

Date: 6/19/2017

Hubbard Polk County

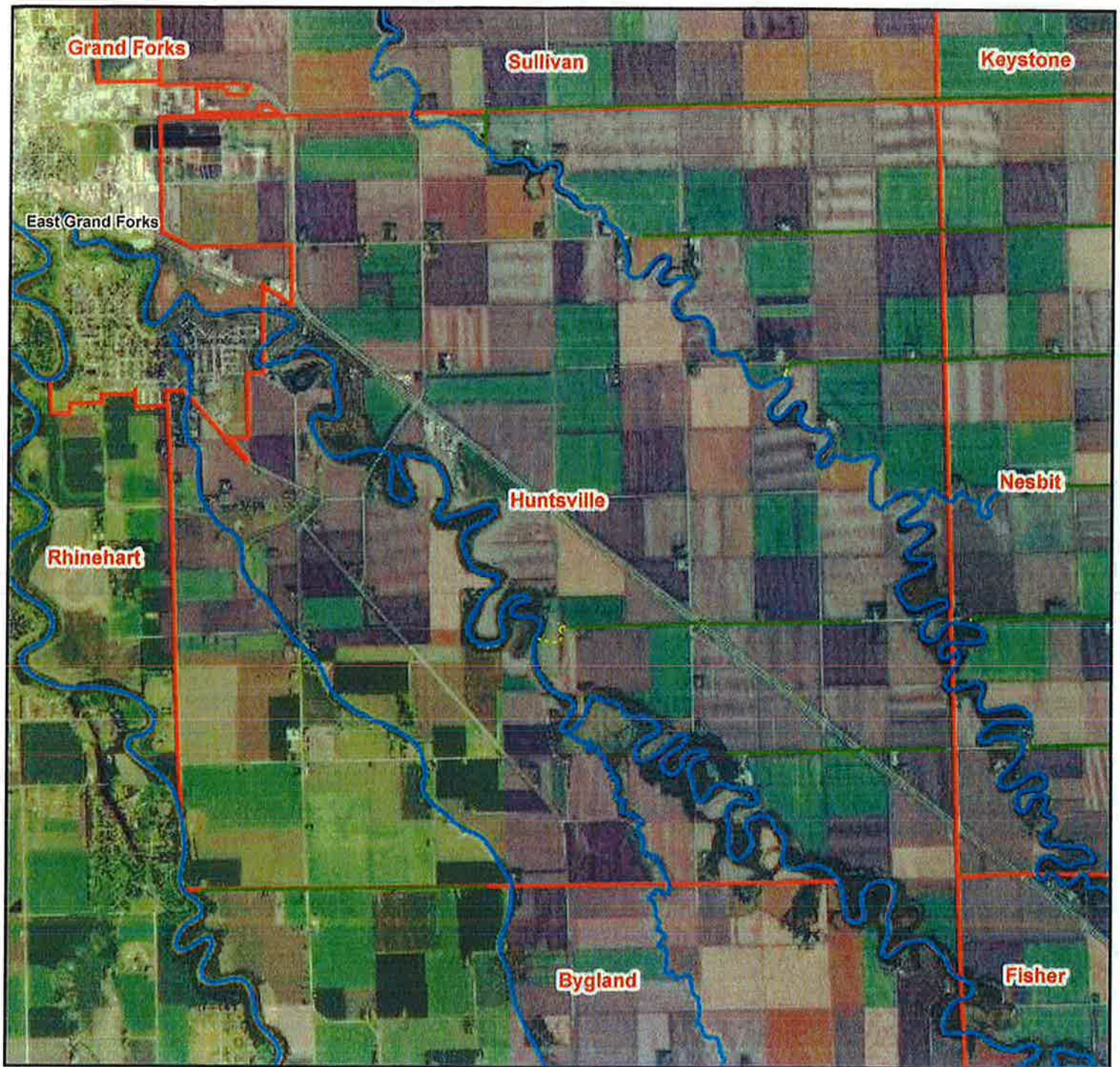


Maps are for graphical purposes only. They do not represent a legal survey.

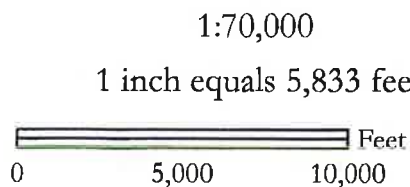
Date: 6/19/2017

Huntsville

Polk County



- 50-ft Buffer
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- West_Polk_other_waters

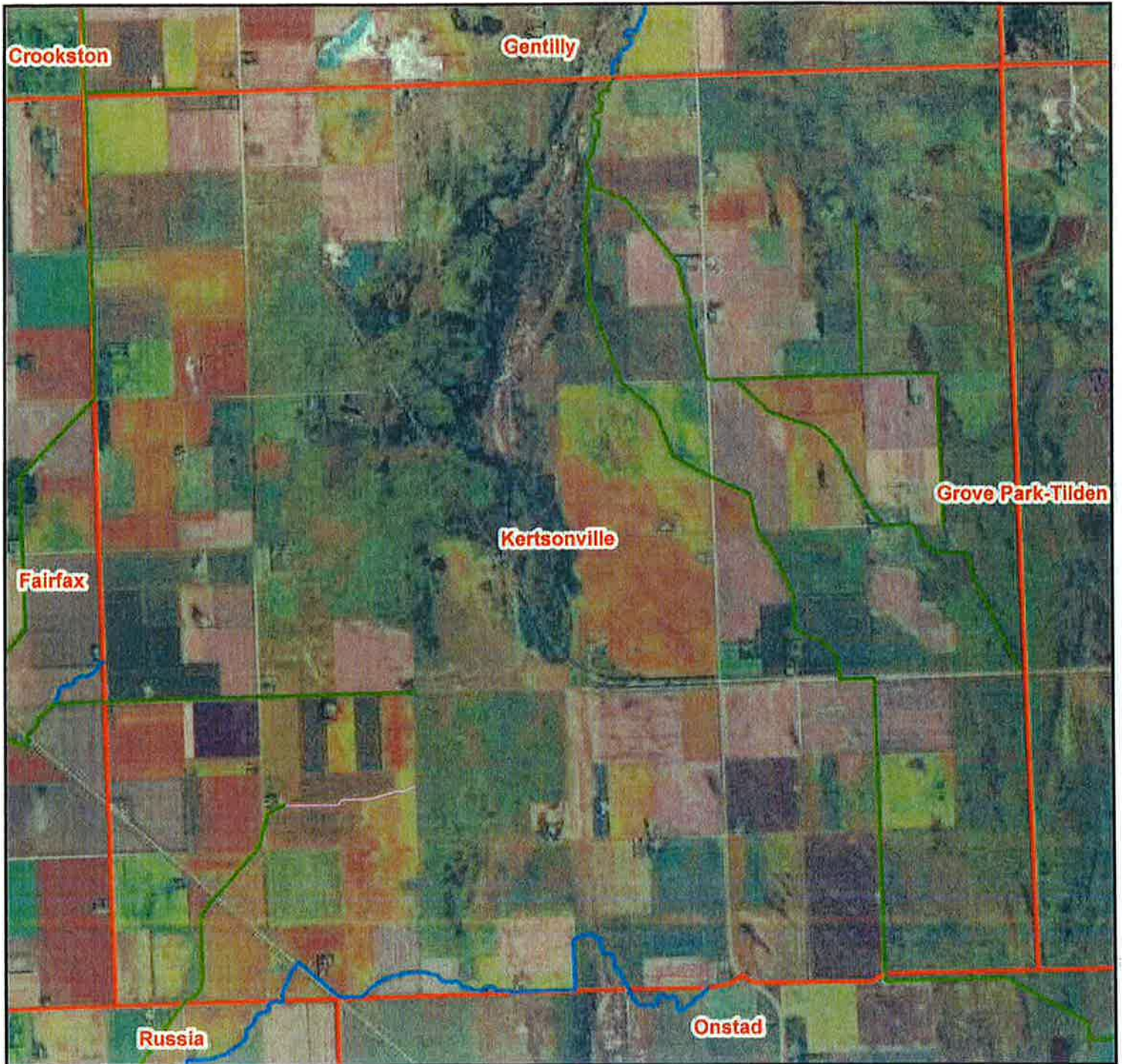


Maps are for graphical purposes only. They do not represent a legal survey.

Date: 6/19/2017

Kertsonville

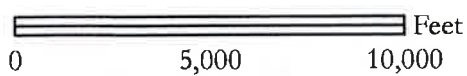
Polk County



- 50-ft Buffer
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1:60,000

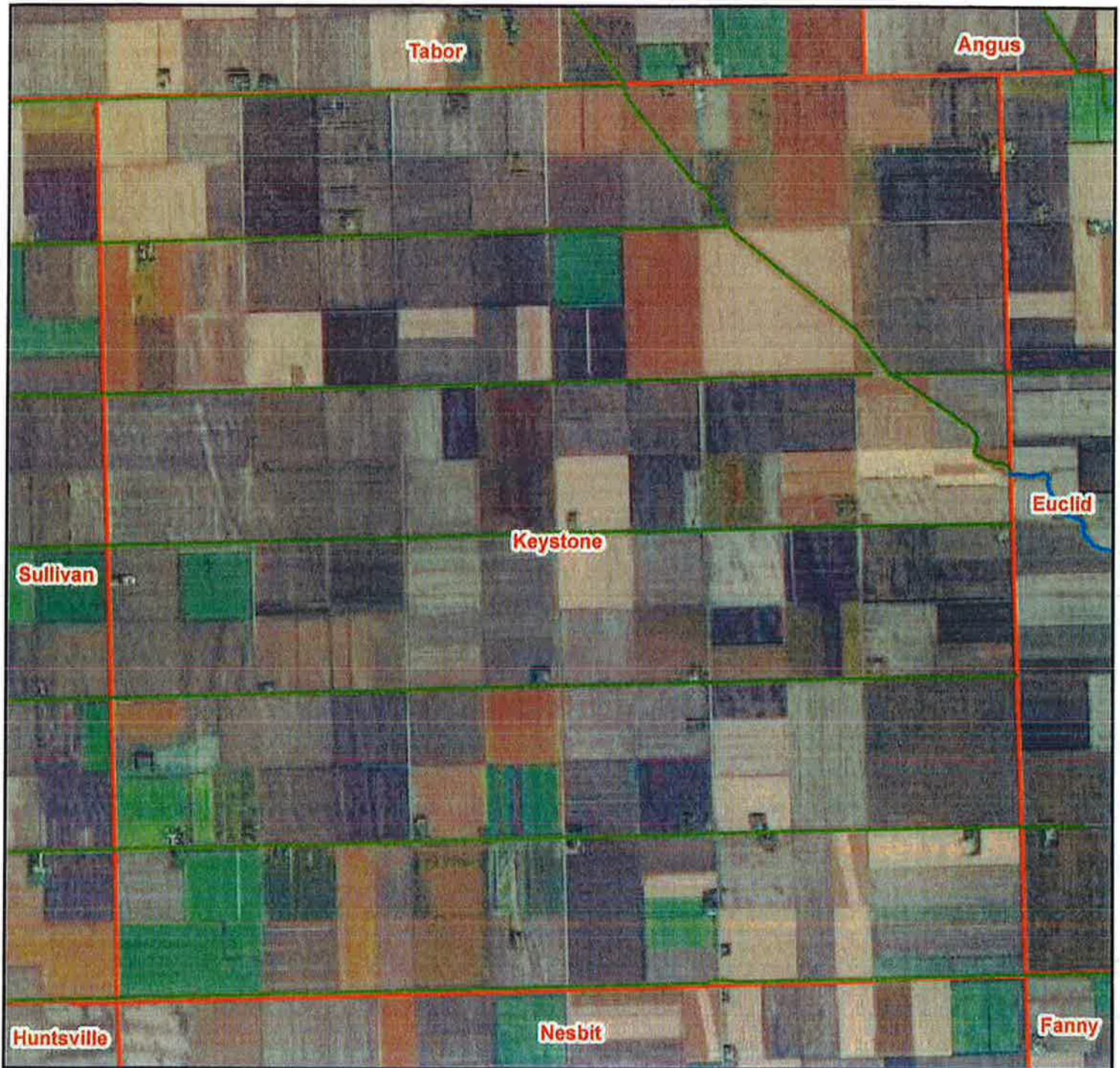
1 inch equals 5,000 feet



Maps are for graphical purposes only. They do not represent a legal survey.

Date: 6/19/2017

Keystone Polk County



1:60,000

1 inch equals 5,000 feet

- 50-ft Buffer
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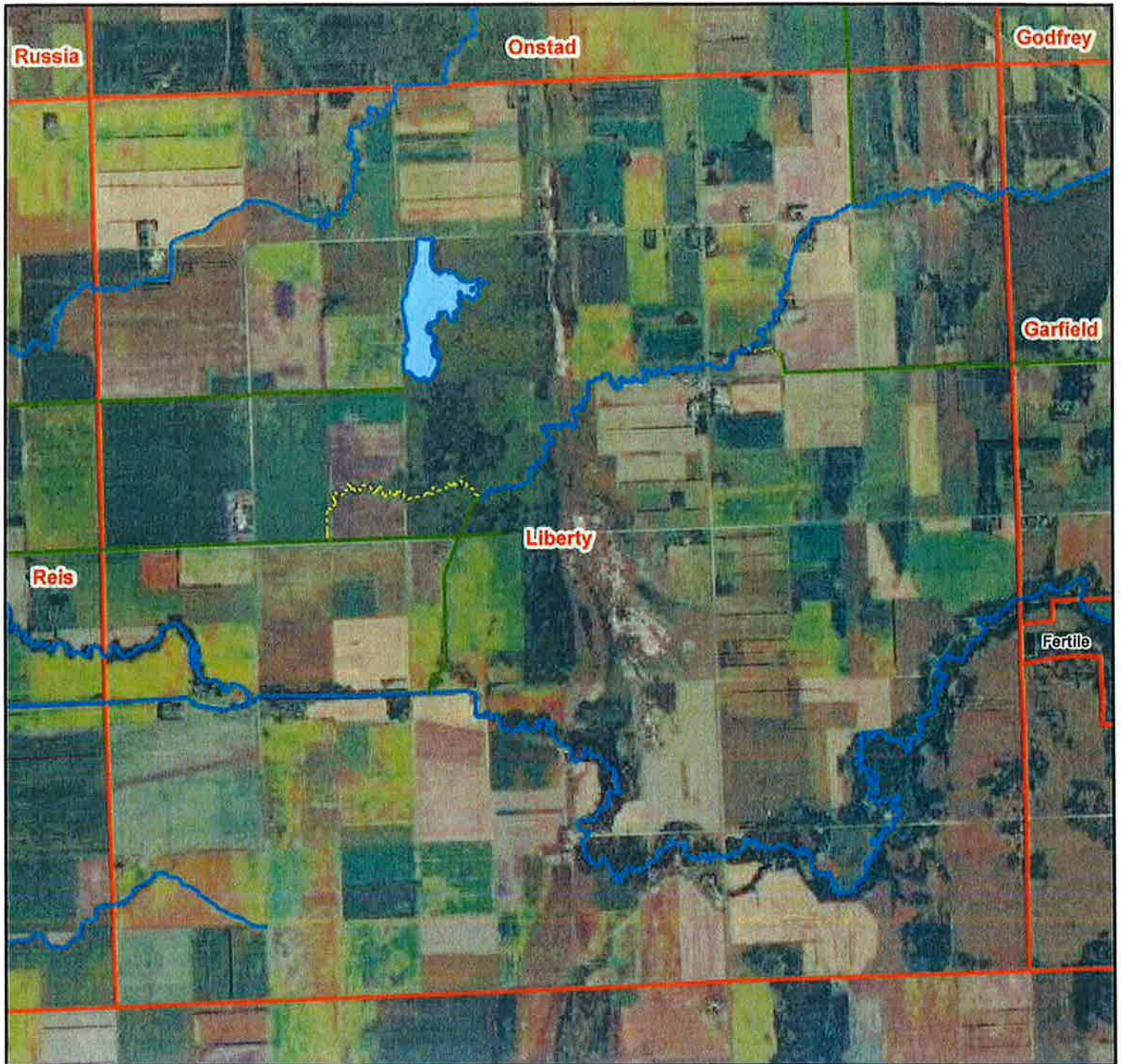
0 5,000 10,000 Feet

Maps are for graphical purposes only. They do not represent a legal survey.

Date: 6/19/2017

Liberty

Polk County



- 50-ft Buffer
- 16.5-ft Buffer
- Needs field review
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- Townships
- West_Polk_other_waters

1:60,000

1 inch equals 5,000 feet

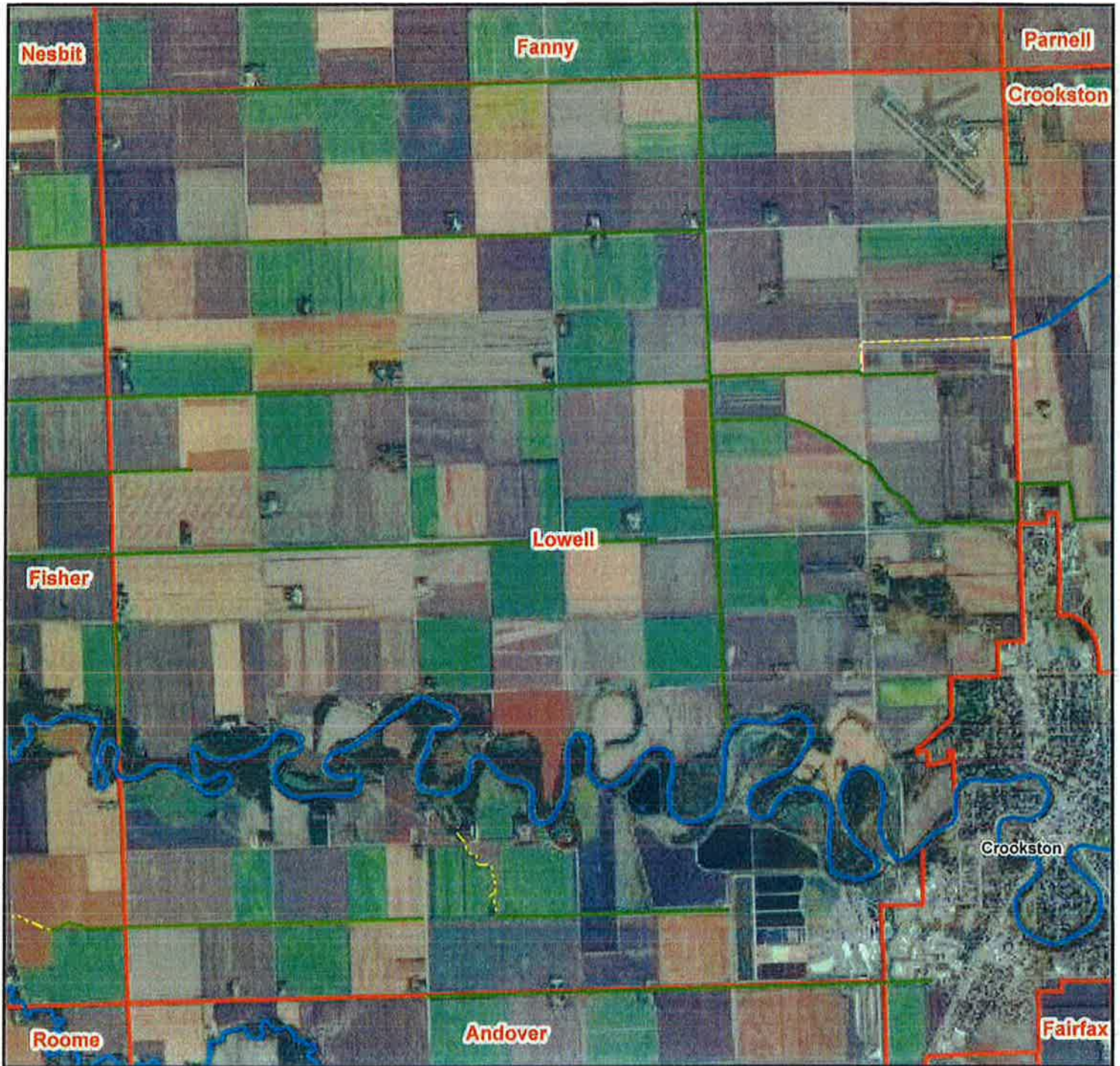
0 5,000 10,000 Feet

Maps are for graphical purposes only. They do not represent a legal survey.

Date: 6/19/2017

Lowell

Polk County



- 50-ft Buffer
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- Townships
- West_Polk_other_waters

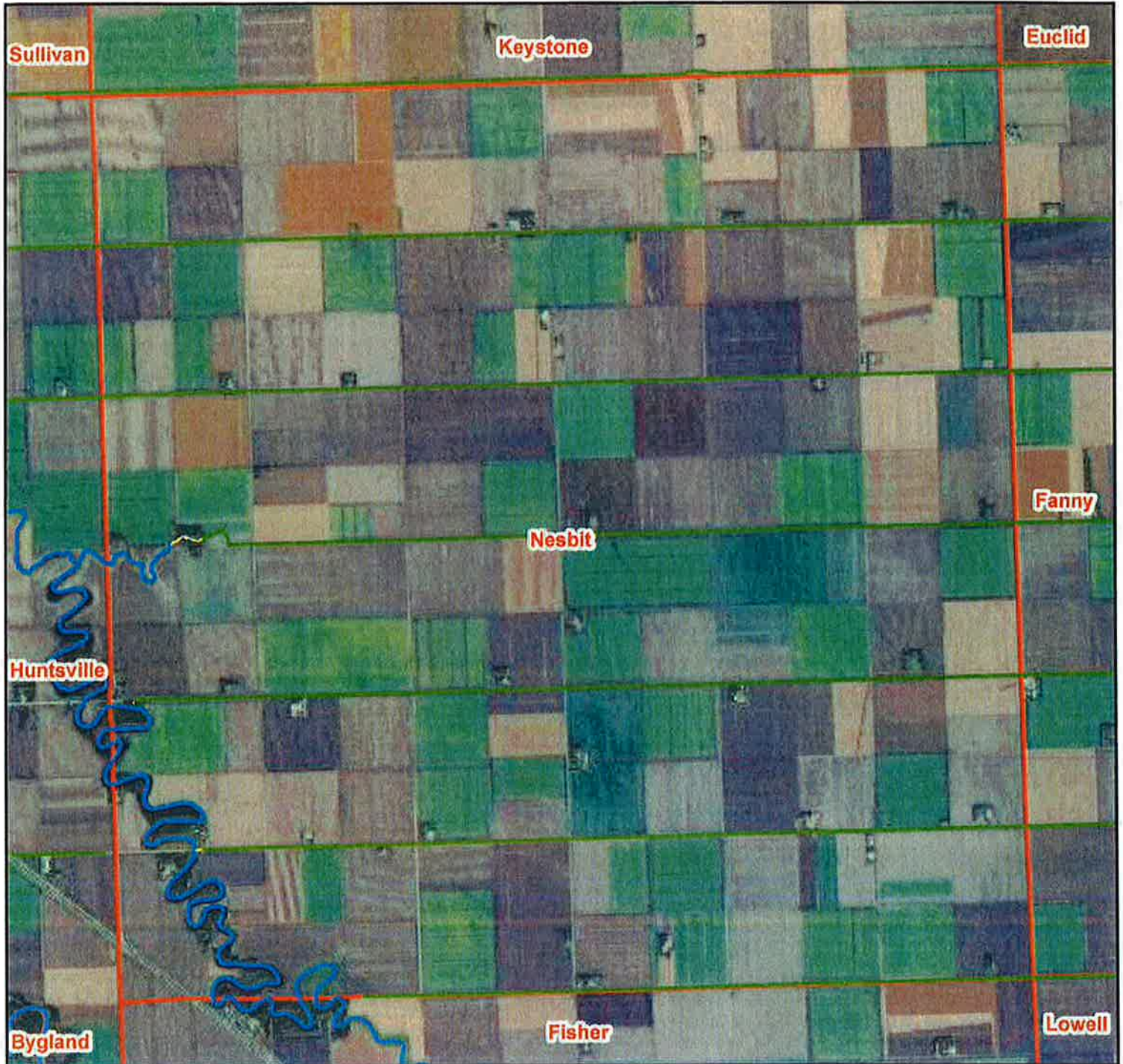
0 5,000 10,000 Feet

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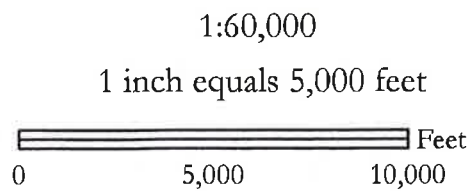
Date: 6/19/2017

Nesbit

Polk County



- 50-ft Buffer
- 16.5-ft Buffer
- Needs field review
- Potential trout stream delisting and buffer map removal
- Townships
- West_Polk_other_waters

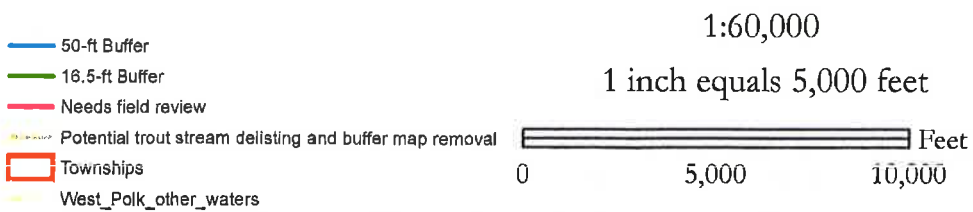


Maps are for graphical purposes only. They do not represent a legal survey.

Date: 6/19/2017

Northland

Polk County

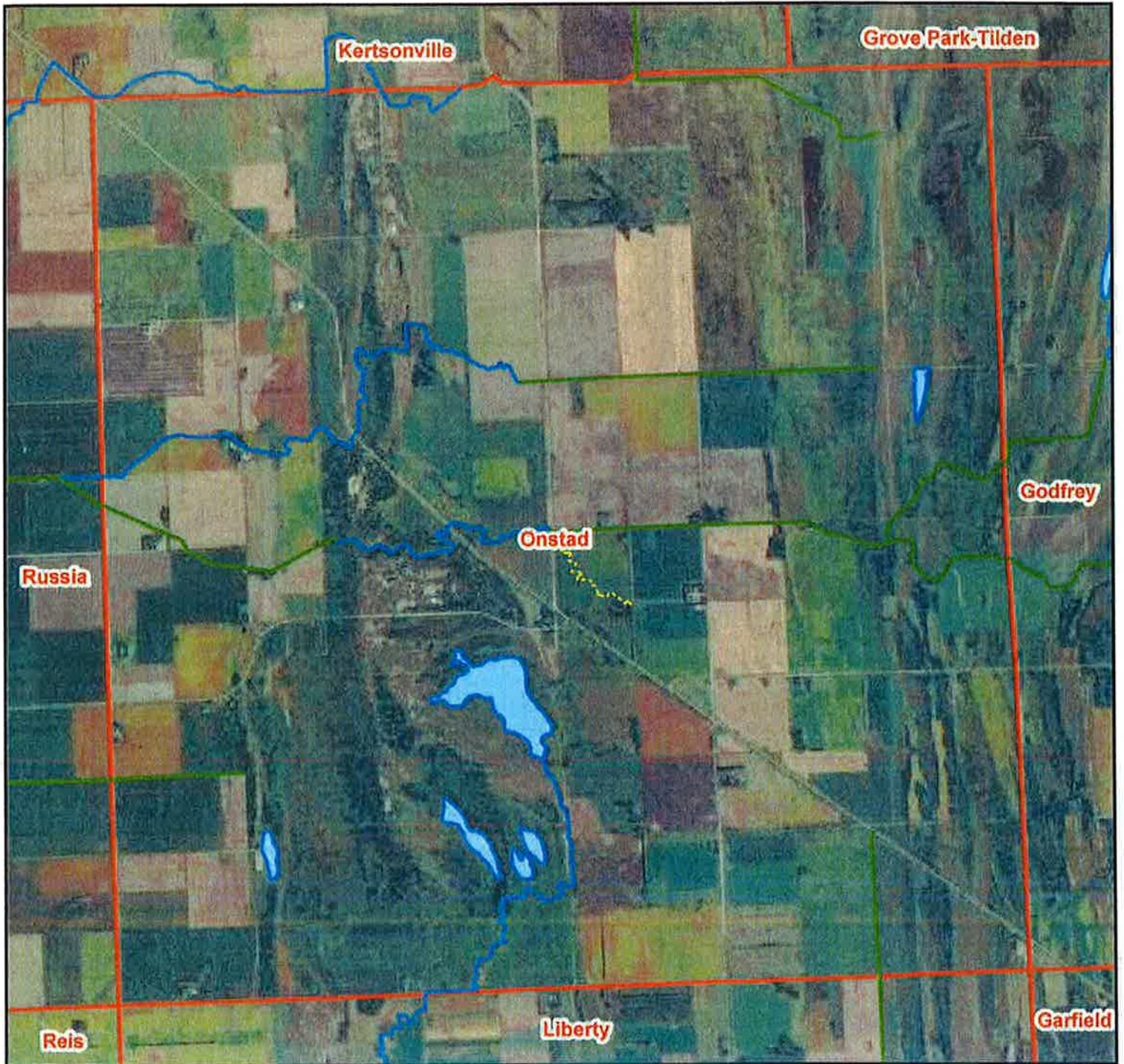


Maps are for graphical purposes only. They do not represent a legal survey.

Date: 6/19/2017

Onstad

Polk County



- 50-ft Buffer
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1:60,000

1 inch equals 5,000 feet

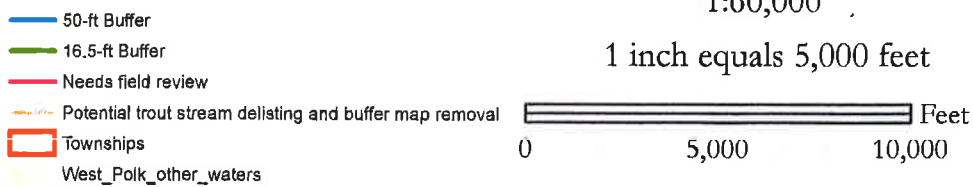
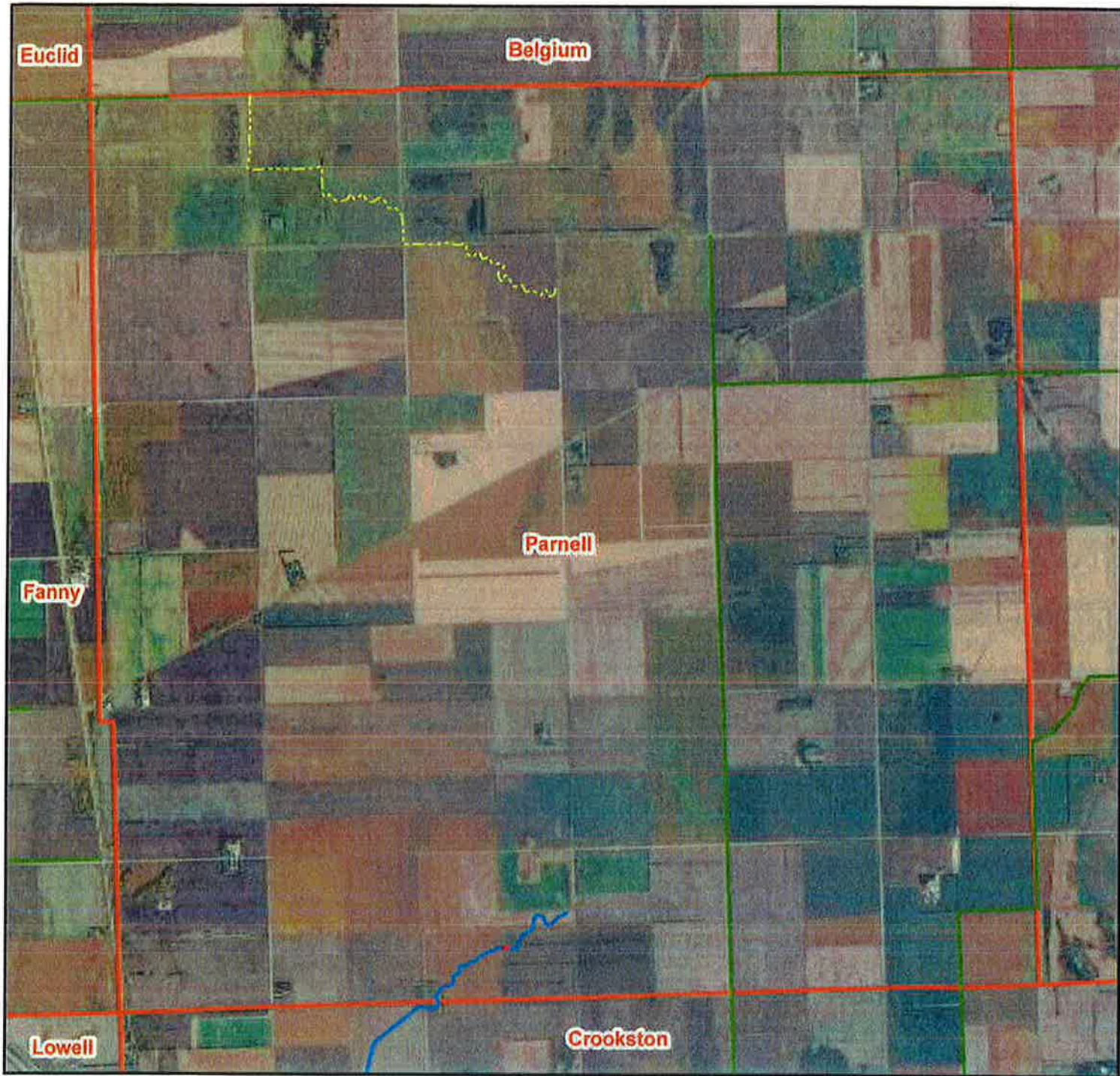
0 5,000 10,000 Feet

Maps are for graphical purposes only. They do not represent a legal survey.

Date: 6/19/2017

Parnell

Polk County

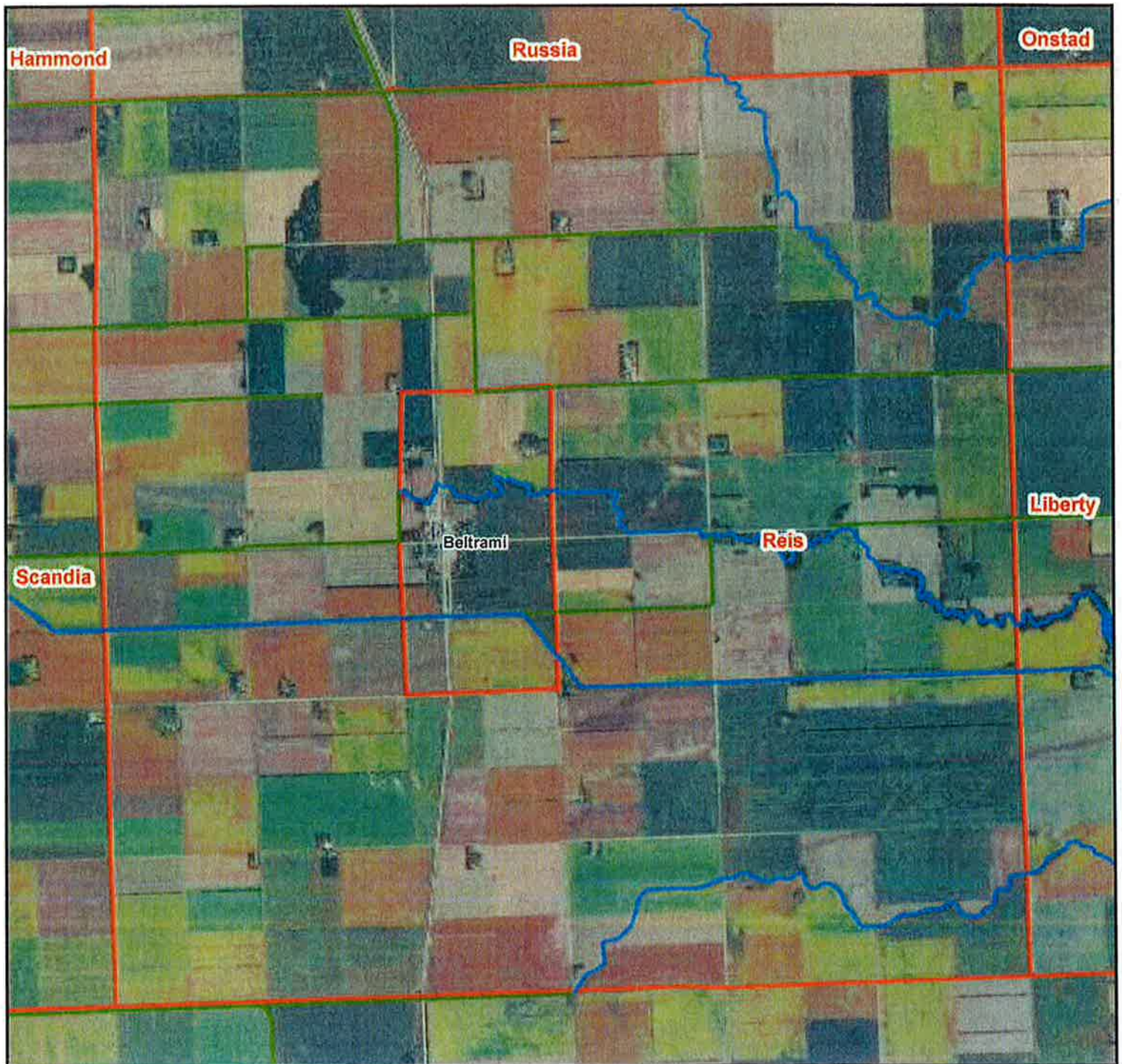


Maps are for graphical purposes only. They do not represent a legal survey.

Date: 6/19/2017

Reis

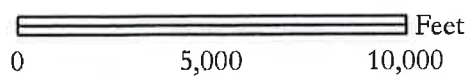
Polk County



- 50-ft Buffer
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- Needs field review
- Potential trout stream delisting and buffer map removal
- Townships
- West_Polk_other_waters

1:60,000

1 inch equals 5,000 feet

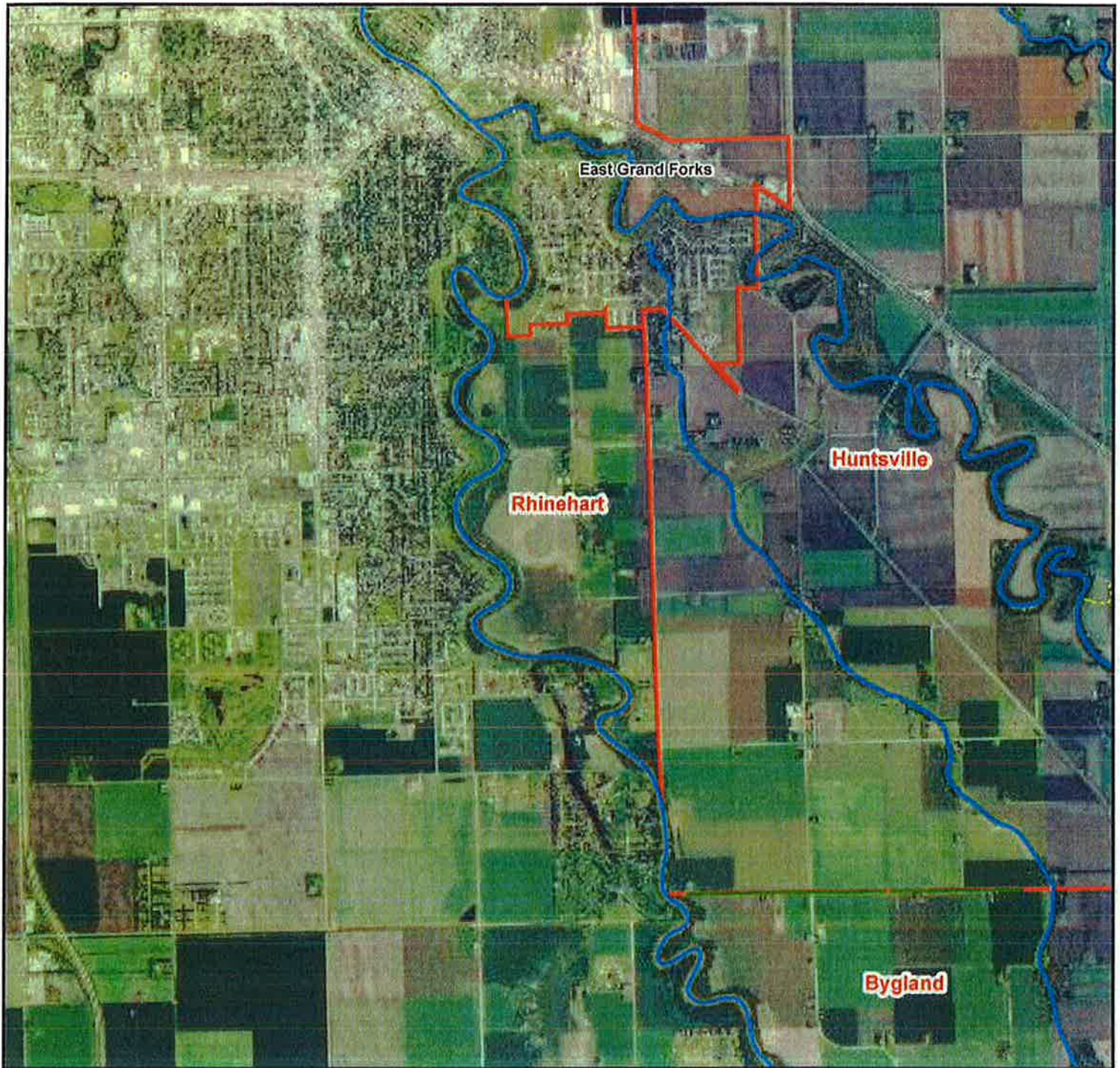


Maps are for graphical purposes only. They do not represent a legal survey.

Date: 6/19/2017

Rhinehart

Polk County



1:60,000

1 inch equals 5,000 feet

- 50-ft Buffer
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- Needs field review
- Potential trout stream delisting and buffer map removal
- Townships
- West_Polk_other_waters

0 5,000 10,000 Feet

Maps are for graphical purposes only. They do not represent a legal survey.

Date: 6/19/2017

Roome

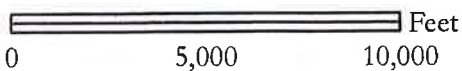
Polk County



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- Needs field review
- Potential trout stream delisting and buffer map removal
- Townships
- West_Polk_other_waters

1:60,000

1 inch equals 5,000 feet

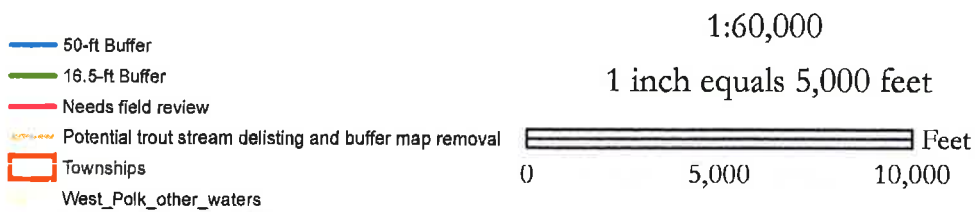
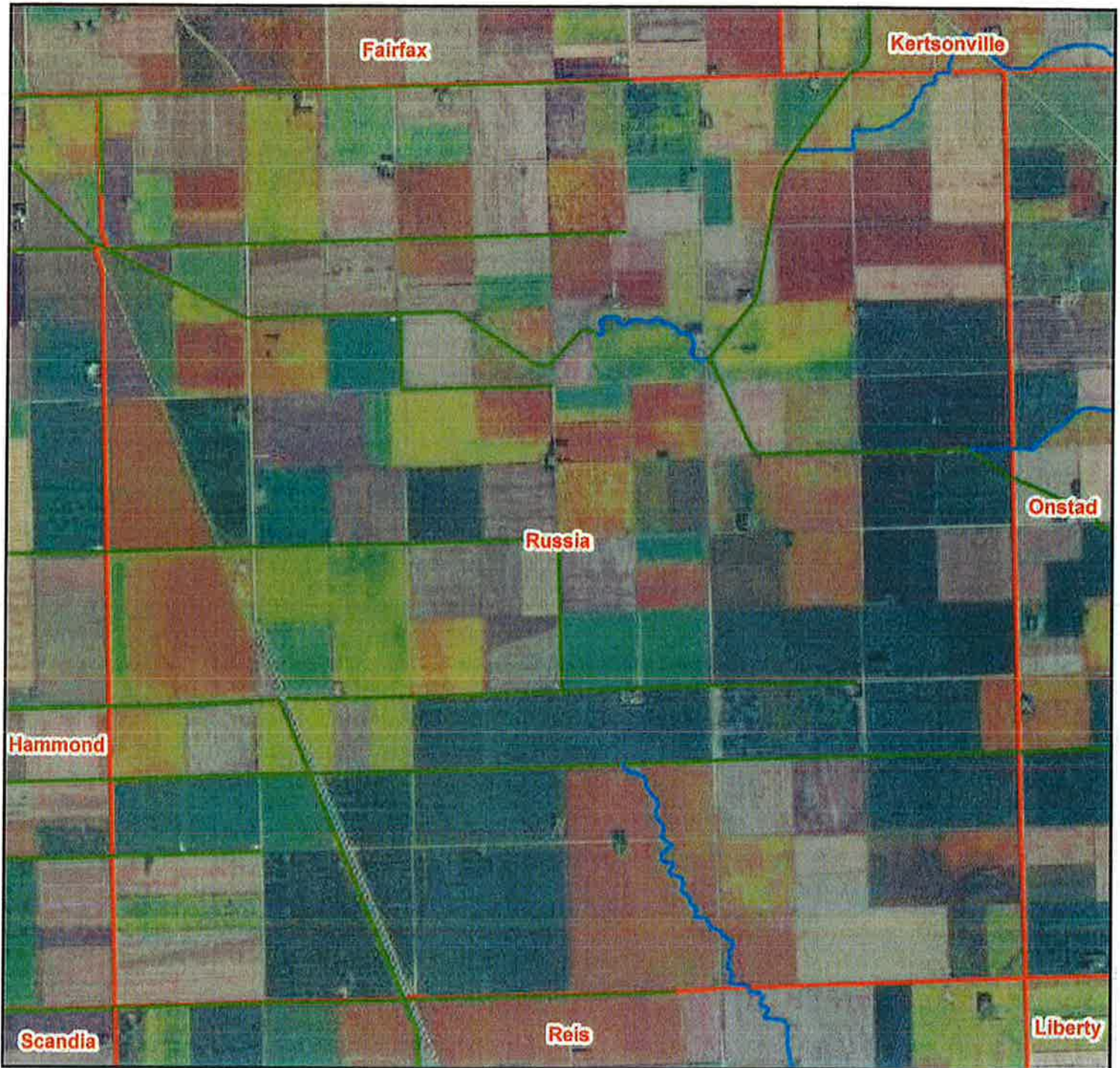


Maps are for graphical purposes only. They do not represent a legal survey.

Date: 6/19/2017

Russia

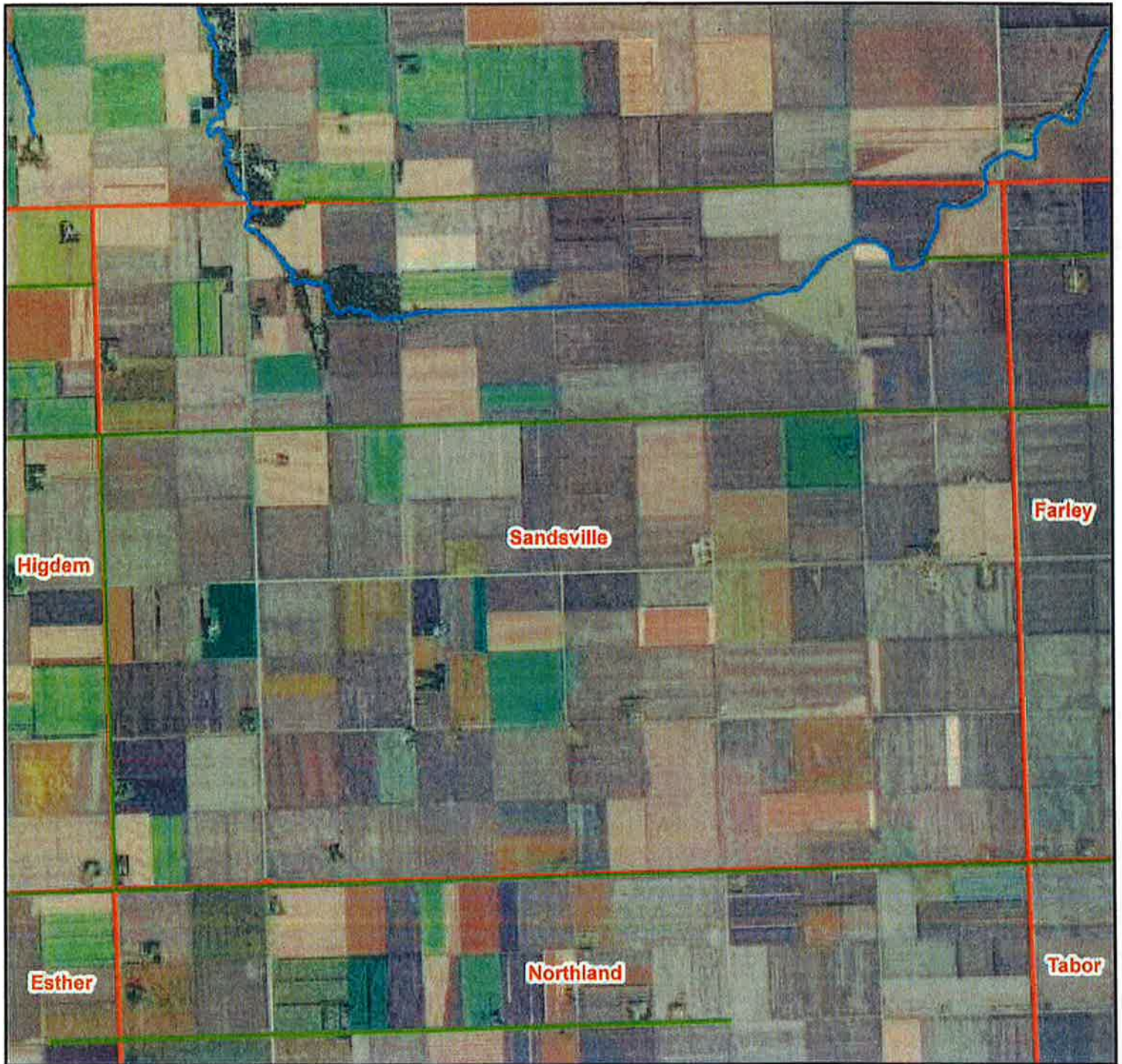
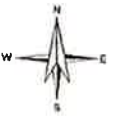
Polk County



Maps are for graphical purposes only. They do not represent a legal survey.

Date: 6/19/2017

Sandsville Polk County



- 50-ft Buffer
- 16.5-ft Buffer
- Needs field review
- Potential trout stream delisting and buffer map removal
- Townships
- West_Polk_other_waters

0 5,000 10,000 Feet

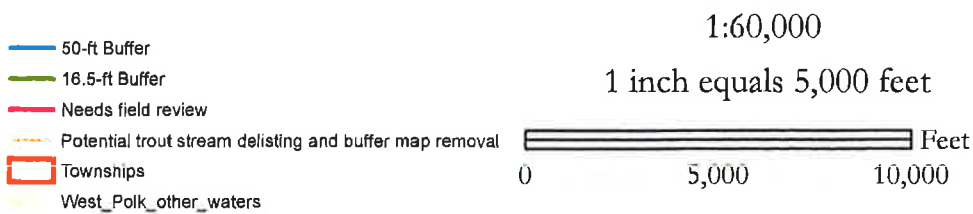
1:60,000

1 inch equals 5,000 feet

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Date: 6/19/2017

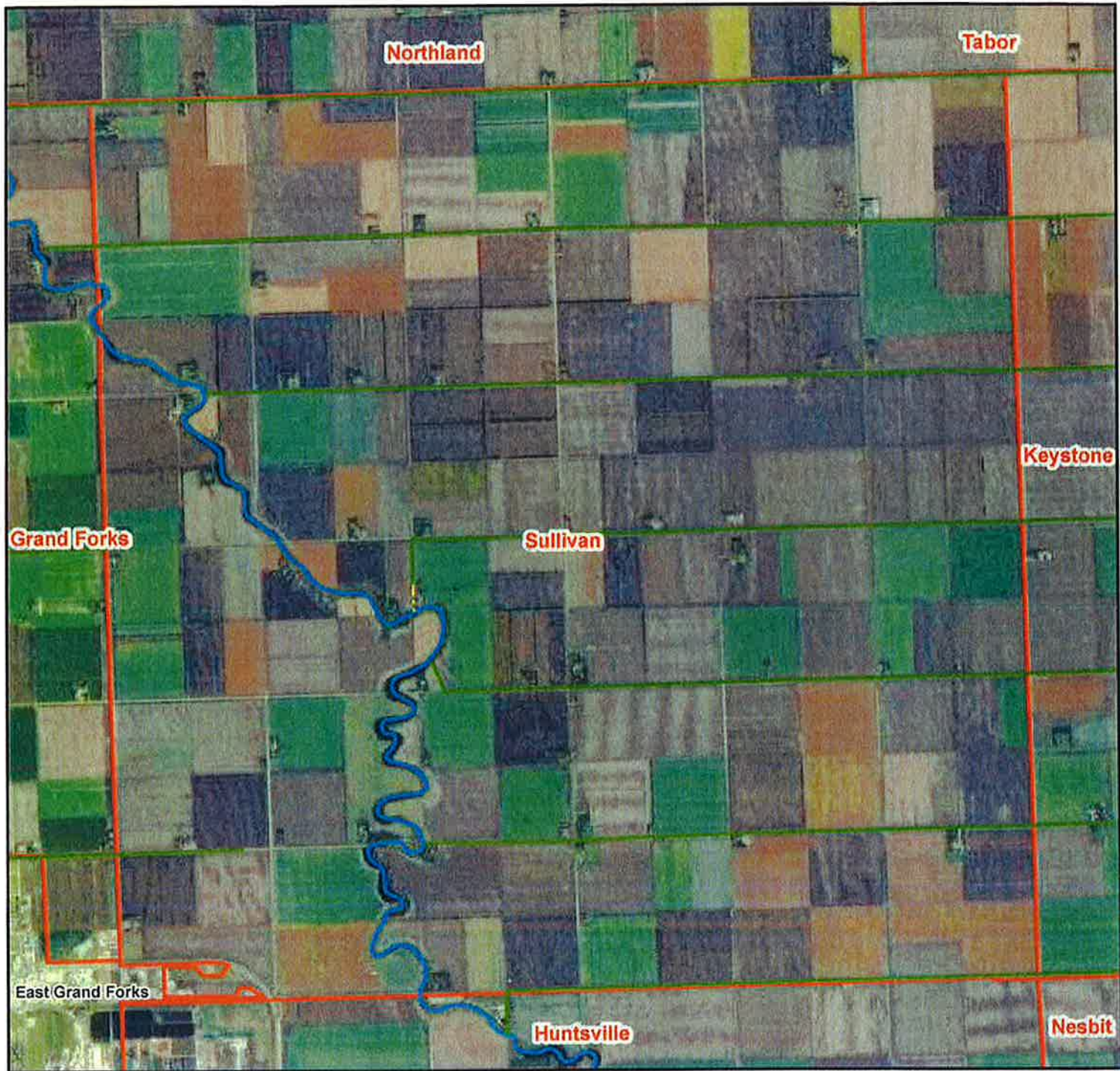
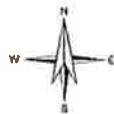
Scandia Polk County



Maps are for graphical purposes only. They do not represent a legal survey.

Date: 6/19/2017

Sullivan Polk County



- 50-ft Buffer
- 16.5-ft Buffer
- Needs field review
- Potential trout stream delisting and buffer map removal
- Townships
- West_Polk_other_waters

0 5,000 10,000 Feet

1:60,000
1 inch equals 5,000 feet

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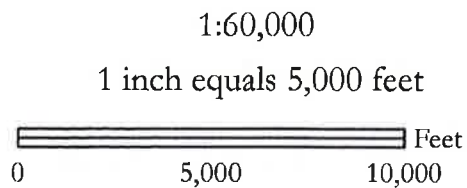
Date: 6/19/2017

Tabor

Polk County



- 50-ft Buffer
- 16.5-ft Buffer
- Needs field review
- Potential trout stream delisting and buffer map removal
- Townships
- West_Polk_other_waters

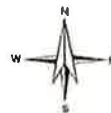


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Date: 6/19/2017

Tynsid

Polk County



- 50-ft Buffer
- 16.5-ft Buffer
- Needs field review
- Potential trout stream delisting and buffer map removal
- Townships
- West_Polk_other_waters

1:60,000

1 inch equals 5,000 feet

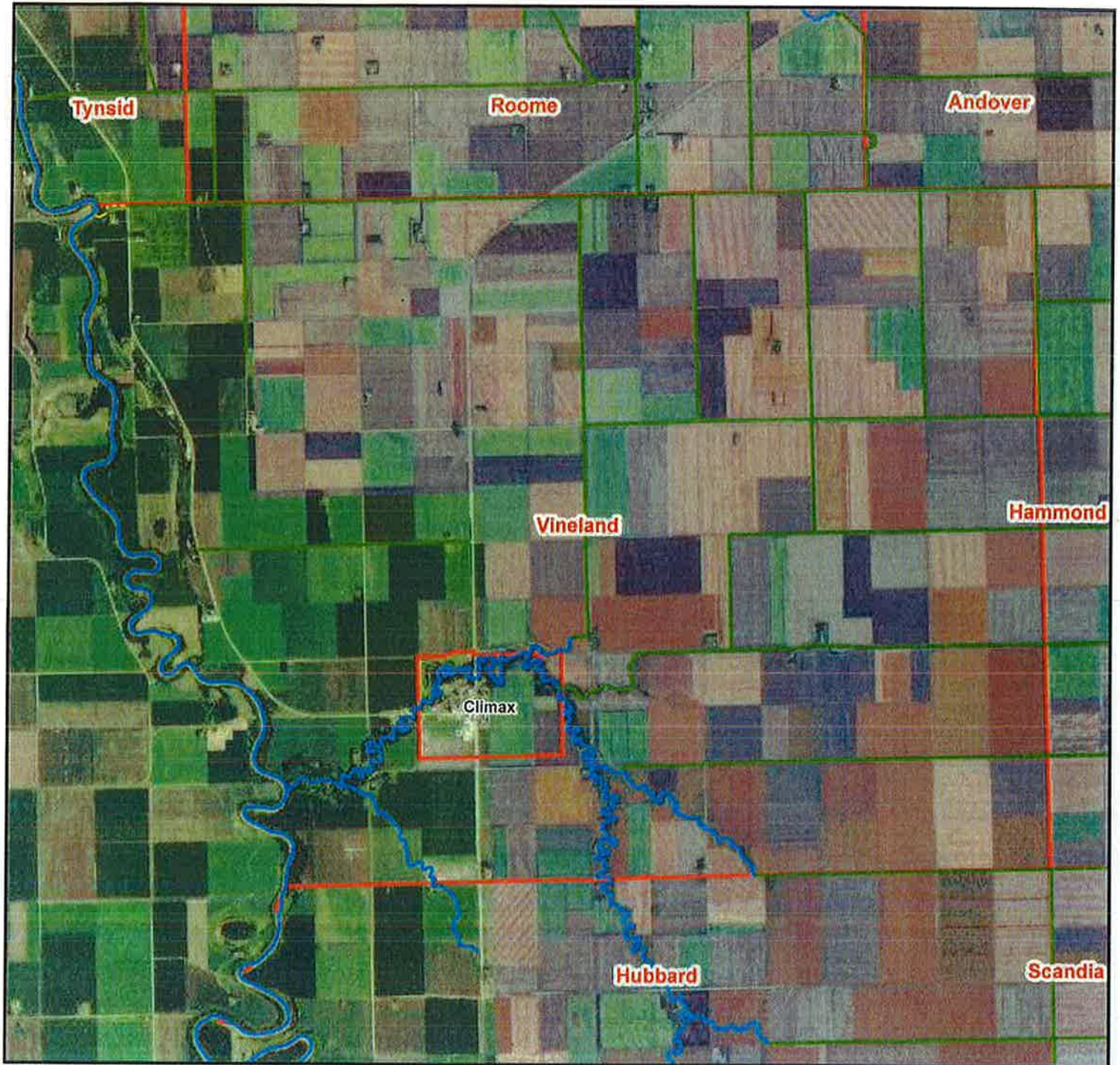
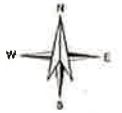
0 5,000 10,000 Feet

Maps are for graphical purposes only. They do not represent a legal survey.

Date: 6/19/2017

Vineland

Polk County



- 50-ft Buffer
- 16.5-ft Buffer
- Needs field review
- Potential trout stream delisting and buffer map removal
- Townships
- West_Polk_other_waters

1:80,000
1 inch equals 6,667 feet

0 5,000 10,000 Feet

Maps are for graphical purposes only. They do not represent a legal survey.

Date: 6/19/2017

**Red Lake County "Other Watercourses" Resolution
as defined in the Buffer Law**

Supervisor David Bachand offered the following resolution, No. NA,
and Linda Mickelson moved its adoption.

Whereas; Minnesota statues 103F.48 requires SWCDs in consultation with local water management authorities, to develop, adopt, and submit to each local water management authority within its boundary a summary of watercourses for inclusion in the local water management plan.

Whereas; the summary of watercourses has been commonly referred to as "other waters".

Whereas; the Red Lake County SWCD believes the purpose of identifying "other waters" is to be inclusive of all watercourses where water quality would benefit from the voluntary installation of a buffer or filter strip.

Whereas; current state and federal programs exist to provide landowners with incentives to voluntarily install buffer or filter strips.

Whereas; current State and Federal programs have eligibility criteria for watercourses where water quality would benefit from the installation of a buffer or filter strip.

Whereas; producing a map of all the watercourses meeting the eligibility criteria would be time consuming and may not be inclusive of all watercourses where water quality would benefit from the installation of a buffer or filter strip.

Therefore be it resolved that; the summary of watercourses or "other waters" for Red Lake County shall be descriptive in format instead of in map format.

Be it further resolved that; the description of watercourses to be included in the summary of watercourses or "other waters" **shall be;** all watercourses deemed eligible for the adjacent land to be voluntarily enrolled into a buffer or filter strip practice under the current eligibility criteria for state and federal programs. Excluding those watercourses depicted on the DNR buffer protection map.

A list of watercourses included in this descriptive inventory are; Perennial streams, Seasonal streams depicted on USGS topographic maps, Seasonal streams depicted on soil survey maps, Identified by onsite visits, and drainage ditches that are perennial or seasonal streams.

Supervisor Mark LaCrosse seconded the adoption of the resolution, and it was declared adopted upon the following vote:

Ayes: 5 Nays: 0

Signed by: Paul Miller Title: Chairman Date: 6-12-17



ITASCA COUNTY SOIL AND WATER CONSERVATION DISTRICT

June 29th, 2017

Chad Severts
BWSR Board Conservationist
4 West Office Building
403 Fourth Street NW, Room 200
Bemidji, MN 56601

RE: Itasca County other watercourses decision notification.

Hello Chad. Other Watercourses to protect under the Buffer Law, that aren't already protected, was discussed at the April 4th 2017 Itasca County Water Plan Implementation Committee (WPIC) meeting. Since the buffer law already protects all public water lakes and rivers in Itasca County, the feeling of the committee was that the buffer law is adequate, and requiring buffer law implementation on additional "other waters" wasn't necessary; motion was made and carried. The Itasca County Soil and Water Conservation District (SWCD) considered other waters at the May 4th 2017 Board of Supervisors meeting. A motion was made and carried to support WPIC's motion to not protect additional "other waters" under the Buffer Law.

Let me know if you need anything additional from me.

Sincerely,

Andy Arens
District Manager and Water Plan Coordinator
Itasca County Soil and Water Conservation District (SWCD)
1889 E Hwy 2
Grand Rapids, Mn 55744
218-328-3090
andy.arens@itascaswcd.org
www.itascaswcd.org

**Local Water Resources Riparian Protection
"Other Watercourses"**

WHEREAS, it is the statute 103F.48 of the Board of Water and Soil Resources that each Soil and Water Conservation District must take the following steps; and

WHEREAS, the East Polk SWCD will consult with the local water management authorities within its jurisdiction; and


WHEREAS, the East Polk SWCD will consider watershed data, water quality and land use information; and

WHEREAS, the East Polk SWCD will assess the water quality benefits that buffers or alternative practices could provide to local water resources that were not included on the Buffer Protection Map; and

WHEREAS, the East Polk SWCD will prepare a rationale for inclusion or exclusion of waters that were not included on the Buffer Protection Map prior to adoption of the summary of watercourses; and

WHEREAS, there is no intent for these waters to be regulated for buffers in the future.

NOW THEREFORE BE IT RESOLVED, the East Polk SWCD adopts a resolution establishing the summary of watercourses in the map or list form and submit it to all local water management authorities within their jurisdiction and to the Board of Water and Soil Resources by July 1, 2017.


East Polk SWCD July 15, 2017
Date

**Resolution for
Local Water Resources Riparian Protection ("Other Watercourses")
in Mahnomen County**

Whereas, MN Statutes 103F.48, Subd. 4 requires Soil & Water Conservation Districts (SWCDs), in consultation with Local Water Management (LWM) authorities, to develop, adopt and submit to each LWM authority within its boundary a summary of watercourses for inclusion in LWM plans.

Whereas, the Board of Water & Soil Resources (BWSR) has adopted the Local Water Resources Riparian Protection ("Other Watercourses") Policy 6, dated August 25, 2016, which identifies steps SWCDs are to take in developing said summary.

Whereas, the Mahnomen SWCD consulted with LWM authorities within its jurisdiction on the development of a map that identifies Other Watercourses that are not subject to the regulatory requirements of the MN Buffer Law.

Whereas, the Mahnomen SWCD considered watershed data, water quality and land use information, and assessed water quality benefits buffers and/or alternative practices could provide to local water resources that were not included on the MN Buffer Protection Map.

Whereas, the Mahnomen SWCD rationale for the inclusion of additional watercourses is based on gaps on the MN Buffer Protection Map. Using DNR stream GIS data to connect and continue the gaps, the SWCD created a map that identifies Other Watercourses that would also benefit from buffer protection.

Whereas, the Mahnomen SWCD fully intends that the identified Other Watercourses are only voluntary areas for buffers and not subject to the regulatory requirements of current or future MN Buffer Laws.

Therefore be it resolved that, the Mahnomen SWCD adopts and will submit the attached Other Watercourses Buffer Protection Map to each LWM authority within its jurisdiction for inclusion in LWM plans, as priority locations for buffer protection.

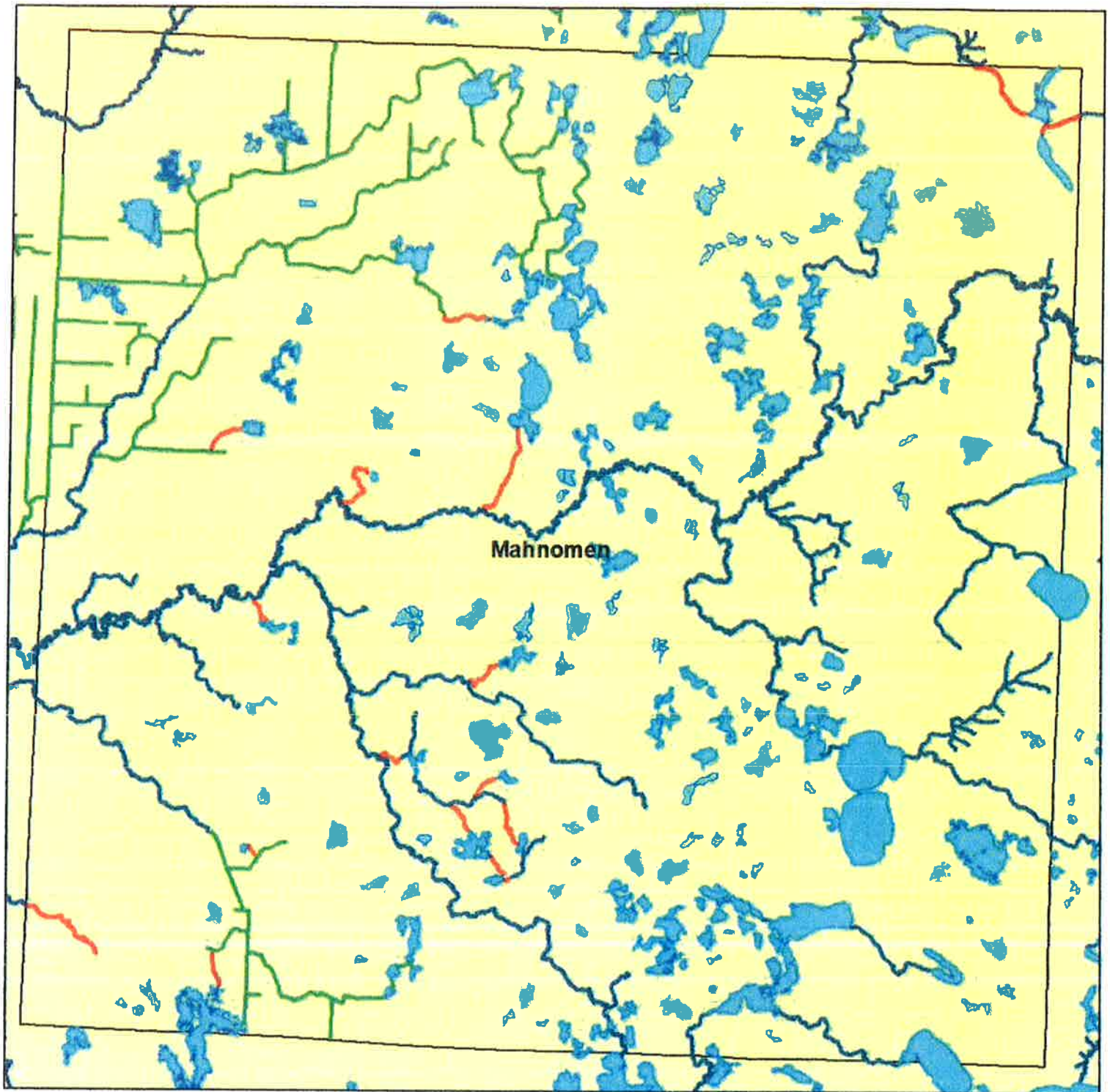
CERTIFICATION

**STATE OF MINNESOTA
MAHNOMEN SWCD**

I do hereby certify that the foregoing resolution is a true and correct copy of a resolution presented to and adopted by the Mahnomen SWCD Board of Supervisors at a duly authorized meeting thereof held on the 17 of July, 2017.


Chairman, Mahnomen SWCD Board of Supervisors

**Mahnomen Soil & Water Conservation District (SWCD)
Other Watercourses Buffer Protection Map**



Mahnomen

- Other Watercourses
- Lakes/Wetlands 50-ft Buffer
- Public Waters 50-ft Buffer
- Public Ditches 16.5-ft Buffer



Date: 7/17/17

As required by MN Statutes 103F.48, Subd. 4, Mahnomen SWCD Board of Supervisors has adopted & submitted this map of recommended watercourses to LWM authorities for inclusion in LWM plans, as priority locations for buffer protection. Watercourses were identified using DNR stream GIS data, to connect & continue gaps on the MN Buffer Protection Map.

NOTE Red watercourses identified on this map are NOT subject to the regulatory requirements of the State Buffer Law.



**MINNESOTA
SOIL AND WATER CONSERVATION DISTRICTS**

**MARSHALL COUNTY SOIL AND WATER
CONSERVATION DISTRICT**

105 S. Division
P.O. Box 74
Warren, Minnesota 56762
Telephone (218) 745-5010

March 21, 2017

Motioned by Manager Nordling, seconded by Manager Potucek, the following resolution, passed upon a 3 to 0 vote of the Board of Managers of the Marshall Soil and Water Conservation District.

**RESOLUTION OF THE BOARD OF MANAGERS OF THE
MARSHALL SOIL AND WATER CONSERVATION DISTRICT
“Other Waters” for Marshall County**

Whereas; Minnesota statutes 103F.48 requires SWCDs in consultation with local water management authorities, to develop, adopt, and submit to each local water management authority within its boundary a summary of watercourses for inclusion in the local water management plan.

Whereas; The summary of watercourses has been commonly referred to as “other waters”.

Whereas; The Marshall SWCD believes the purpose of identifying “other waters” is to be inclusive of all watercourses where water quality would benefit from the voluntary installation of a buffer or filter strip.

Whereas; Current state and federal programs exist to provide landowners with incentives to voluntarily install buffer or filter strips.

Whereas; Current State and Federal programs have eligibility criteria for watercourses where water quality would benefit from the installation of a buffer or filter strip.

Whereas; Producing a map of all the watercourses meeting the eligibility criteria would be time consuming and may not be inclusive of all watercourses where water quality would benefit from the installation of a buffer or filter strip.

Therefore be it resolved that; The summary of watercourses or “other waters” for Marshall County shall be descriptive in format instead of in map format.

Be it further resolved that; the description of watercourses to be included in the summary of watercourses or “other waters” **shall be;** All watercourses deemed eligible for the adjacent land to be voluntarily enrolled into a buffer or filter strip practice under the current eligibility criteria for state and federal programs. Excluding those watercourses depicted on the DNR buffer protection map.

A list of watercourses included in this descriptive inventory are;
Perennial streams, Seasonal streams depicted on USGS topographic maps,
Perennial streams, Seasonal streams depicted on soil survey maps,
Identified by onsite visits,
And drainage ditches that are perennial or seasonal streams.

AN EQUAL OPPORTUNITY EMPLOYER

**Beltrami Soil & Water Conservation District
Board of Supervisors Meeting
Thursday, May 23, 2017, 9:30 a.m.
Commissioners Conference Room
3217 Bemidji Ave. N., Bemidji, MN 56601**

*"OUR MISSION IS TO PROVIDE COMPREHENSIVE SOIL AND WATER CONSERVATION
SERVICES IN BELTRAMI COUNTY."*

Members Present: Shane Bowe - Chairman
Ruth Trask - Treasurer
Del Olson - Public Relations

Members Absent: Rachel Gray, Secretary
Ray Hendrickson - Vice-Chair

Others Present: Brent Rud, District Manager
Kathy Ruzicka, SWCD/ESD
Larry Voltz, NRCS
Zack Gutknecht, SWCD
Kayla Bowe, Guest Speaker

Chairman, Shane Bowe, called the Beltrami Soil and Water Conservation District Board of Supervisors Meeting for May 23, 2017, officially to order at 9:30 a.m. followed by the Pledge of Allegiance.

Motion by Ruth Trask to approve agenda with the addition of the Grazing Tour and the Envirothon. Motion seconded by Del Olson. Motion carried and approved.

SECRETARY'S REPORT:

Motion by Del Olson to approve the minutes of the April 20, 2017, regular meeting. Motion seconded by Ruth Trask. Motion carried and approved. Motion by Ruth Trask to approve Chairman to sign the March and April Meeting minutes in absence of the Board Secretary. Motion seconded by Del Olson. Motion carried and approved.

TREASURER'S REPORT:

Sam Rux reviewed a summary of the IFS Statement for April 2017. Motion by Ruth Trask to approve the Treasurer's Reports for April 2017. Motion seconded by Del Olson. Motion carried and approved.

GUEST SPEAKER:

Kayla Bowe with the Red Lake DNR gave a presentation on the Upper/Lower Red Lake Watershed Restoration and Protection Strategy (WRAPS) Project.

NEW BUSINESS

BUFFER LAW – OTHER WATERS:

See attached Resolution. **Motion by Del Olson to approve Buffer Law Other Waters Resolution. Motion seconded by Ruth. Motion carried and approved.**

DC REPORT: Larry Voltz:

EQUIP:

Wrapping up contract deliveries to producers. Four grazing plans need to be delivered. Several producers have started new contracts: high tunnels, forest management plans and previously approved grazing projects.

CSP:

Started the interview process for new applications. Questions asked will provide more specific information regarding the management processes occurring on the farm. Producers will be making several trips to office to complete the process of reviewing the questions, choosing enhancements, developing the conservation plan, etc. Will also be working with the 2013 contracts to help producers re-enroll those acres into another contract period.

Other:

Bemidji office staff assisted with the 2017 Area 8 Envirothon at the Lake Bemidji State Park. Larry will be attending an informational meeting on May 24th to learn more about the Cooperative Agreements that will be developed between the NRCS and SWCDs in each County.

RESOLUTIONS:

Beltrami SWCD will not be submitting any resolutions.

TREE PROGRAM:

Kathy submitted written Tree Program financial report.

BELTRAMI COUNTY FAIR:

Brent will be ordering banners and table covers for our booth.
Discussion on having a rain garden model for the Fair. Zach will be in charge of this project.

MANAGERS REPORT:

Grazing Tour:

Beltrami SWCD will be hosting a Grazing Tour on August 24, 2017. Discussion on what to include in this tour and how many stops will be made. Plan is to meet in Blackduck to start the tour. Lunch will be catered by Fozzies.

New Equipment:

Brent discussed the equipment needs for the office. Would like a 55-60" TV Screen for the Conference Room. Also will order four IPADS for use out in the field. The SWCD & ESD will be replacing 2 trucks this year.

Lake Irving Water Quality Proposal:

This project will include monitoring of Lake Irving. **Motion by Ruth Trask to approve the monitoring of Lake Irving be funded with Increased Local Capacity Dollars. Motion seconded by Del Olson. Motion carried and approved.**

MASWCD Leadership Training:

Discussion on Leadership training. **Motion by Ruth Trask to approve staff or Board to attend this training. Motion seconded by Del Olson. Motion carried and approved.**

ENVIROTHON:

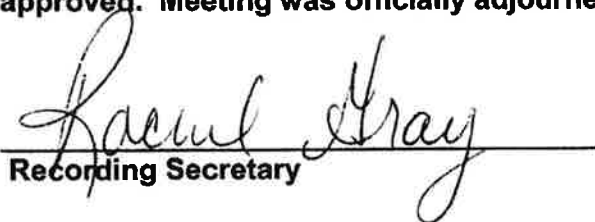
Ruth reported on the May 3, 2017 Envirothon. Trek North School took 1st and 3rd place. Nevis took 2nd place. Clearbrook/Gonvick School scored the highest in the Oral Presentation. The top 3 teams competed in the State Envirothon. They scored in the middle.

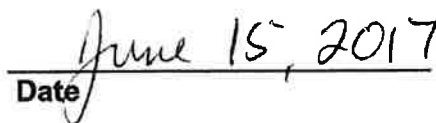
WATER PLAN UPDATE:

Zack will be presenting the draft Water Plan to the Planning Commission at their May 31st Meeting. SWCD Board is invited to attend.

Next meeting will be Thursday, June 15, 2017 at 9:00 a.m.

Motion by Del Olson to adjourn. Motion seconded by Ruth Trask. Motion carried and approved. Meeting was officially adjourned.


Recording Secretary


Date

Beltrami County Soil and Water Conservation District
Resolution No. 2017-23-05
Local Water Resources Riparian Protection in Beltrami County

Whereas; Minnesota statutes 103F.48 requires SWCDs in consultation with local water management authorities, to develop, adopt, and submit to each local water management authority within its boundary a summary of watercourses for inclusion in the local water management plan.

Whereas; The Board of Water and Soil Resources has adopted Buffer Law implementation Policy #6 'Local Water Resources Riparian Protection ("Other Watercourses")' which identifies steps SWCDs are required to take in developing said inventory.

Whereas; Beltrami SWCD and the water management authorities within its jurisdiction discussed watershed data, water quality data and land use information as a criteria in development of this list.

Whereas; Beltrami SWCD has assessed the water quality benefits that buffers and alternative practices could provide and determined that current State and Federal programs have eligibility criteria for watercourses where water quality would benefit from the installation of a buffer or filter strip.

Whereas; Beltrami SWCD determined that the rationale for inclusion of "other watercourses" is to be inclusive of all watercourses where water quality would benefit from the installation of a buffer or filter strip.

Therefore be it resolved that; the summary of watercourses or "other waters" for Beltrami County shall be in map format.

Be it further resolved that, to comply with MS 103F.48, the following shall describe "other watercourses" in Beltrami County for the purpose of inclusion in future local water management authorities updates within Beltrami County and to guide Beltrami SWCD decision making in order to further the goal of protecting riparian areas:

1. Those watercourses defined by M.S. 103F. 48 consisting of public waters and public ditches identified on the Minnesota Department of Natural Resources Buffer Protection Map and requiring a vegetative buffer or alternative riparian water quality practice; and
2. Any area where water flow concentrates (permanent or intermittent flows) and water quality from the contributing watershed would benefit from a vegetative buffer or alternative riparian water quality practice installed voluntarily by the landowner and for which the Beltrami SWCD will seek incentives to assist the landowner(s) to install and maintain a vegetative buffer in order to:
 - a. slow the rate of water runoff and overland flows in order to maintain the stability and environmental integrity of the watercourse,
 - b. sustain the existing land use of the contributing drainage area by maintaining or improving water quality,
 - c. reduce water runoff by encouraging infiltration,

- d. reduce the rate of soil loss from the contributing area to the rate of tolerable soil loss ("T" rate) or below,
- e. provide complementary values of water quality, hydrologic stability, soil conservation, fish and wildlife habitat, and ecological protection,
- f. improve the quality of downstream receiving waters, and
- g. other values as may be mutually determined by the SWCD and the landowner.

Be it further resolved that, it is the policy of the Beltrami SWCD that watercourses may be identified by a variety of mapping and remote sensing methods, which may change over time but must be verified by on site field investigation conducted by the SWCD in cooperation with the landowner.

Adopted this _____ day of _____, 20____.

By: _____
Chair of the Beltrami SWCD Board of Supervisors

Attest: _____
District Manager

**KOOCHICHING SOIL AND WATER CONSERVATION DISTRICT
REGULAR BOARD MEETING
COURTHOUSE COUNTY BOARD ROOM
715 4TH STREET * INTERNATIONAL FALLS * MN * 56649
MONDAY, JUNE 5, 2017**

Members Present: Lewis, Aitchison, Voigt, Dreher, Linder
Members Absent: None

2017/6-7 Motion by Lewis, seconded by Voigt adopting the following resolution No. 2017-06-05
Koochiching Local Water Resources Riparian Protection:

Whereas, Minnesota statues 103F.48 requires Soil and Water Conservation Districts (SWCDs) in consultation with local water management authorities, to develop, adopt, and submit to each local water management authority within its boundary a summary of watercourses for inclusion in the local water management plan.

Whereas, the Board of Water and Soil Resources (BWSR) has adopted the Local Water Resources Riparian Protection ("Other Watercourses") Policy, dated August 25, 2016, which identifies steps SWCDs are required to take in developing said inventory.

Whereas, Koochiching SWCD met with local water management authorities within its jurisdiction to discuss watershed data, water quality data, and land use information as a criteria in development of this list.

Whereas, Koochiching SWCD has reviewed numerous map options and determined that producing a map of all the watercourses meeting the eligibility criteria would be time consuming and would not be inclusive of all watercourses where water quality would benefit from the installation of a buffer, filter strip, or alternative practice.

Whereas, the Koochiching SWCD determined that the rational for inclusion of "other watercourses" is to be inclusive of all watercourses where water quality would benefit from the installation of a buffer, filter strip, or alternative practice.

Therefore be it resolved that, the summary of "other watercourses" for Koochiching County shall be descriptive in format instead of in map format.

Be it further resolved that, to comply with MS 103F.48, the following shall describe "other watercourses" in Koochiching County for the purpose of inclusion in future local water management authority's water plan updates within Koochiching County and to guide Koochiching SWCD decision making in order to further the goal of protecting riparian areas:

Any area where water flow concentrates (permanent or intermittent flows) and water quality from the contributing watershed would benefit from a vegetative buffer or alternative riparian water quality

practice installed voluntarily by the landowner and for which the Koochiching SWCD will seek incentives to assist the landowner(s) to install and maintain a vegetative buffer in order to:

- a. slow the rate of water runoff and overland flows in order to maintain the stability and environmental integrity of the watercourse,
- b. sustain the existing land use of the contributing drainage area by maintaining or improving water quality,
- c. reduce water runoff by encouraging infiltration,
- d. reduce the rate of soil loss from the contributing watershed to the rate of tolerable soil loss ("T" rate) or below,
- e. provide complementary values of water quality, hydrologic stability, soil conservation, fish and wildlife habitat, and ecological protection,
- f. improve the quality of downstream receiving waters, and
- g. other values as may be mutually determined by the SWCD and the landowner.

Be it further resolved that, it is the policy of the Koochiching SWCD that watercourses may be identified by a variety of mapping and remote sensing methods which may change over time but must be verified by on site field investigation conducted by the SWCD in cooperation with the landowner.

Voting yes: Lewis, Voigt, Dreher, Linder. **Abstaining:** Aitchison. **Motion carried.**

CERTIFICATION

STATE OF MINNESOTA COUNTY OF KOOCHICHING

I, Pamela Tomevi, District Administrator to the Koochiching Soil and Water Conservation District Board of Supervisors, do hereby certify that the records of my office show that the above is a true and correct copy of a resolution adopted by the Koochiching Soil and Water Conservation District Board of Supervisor at their regular board meeting on June 5, 2017.

Date: 6/6/2017



Pamela Tomevi, District Administrator
Koochiching Soil and Water Conservation District



(MN Statutes §103F.48, Subd. 4.)

Clearwater Local Water Resources Riparian Protection ("Other Waters") List

312 Main Avenue North
Suite 3
Bagley, Minnesota

p. (218) 694-6845 ext. 4

<http://www.clearwaterswcd.org>

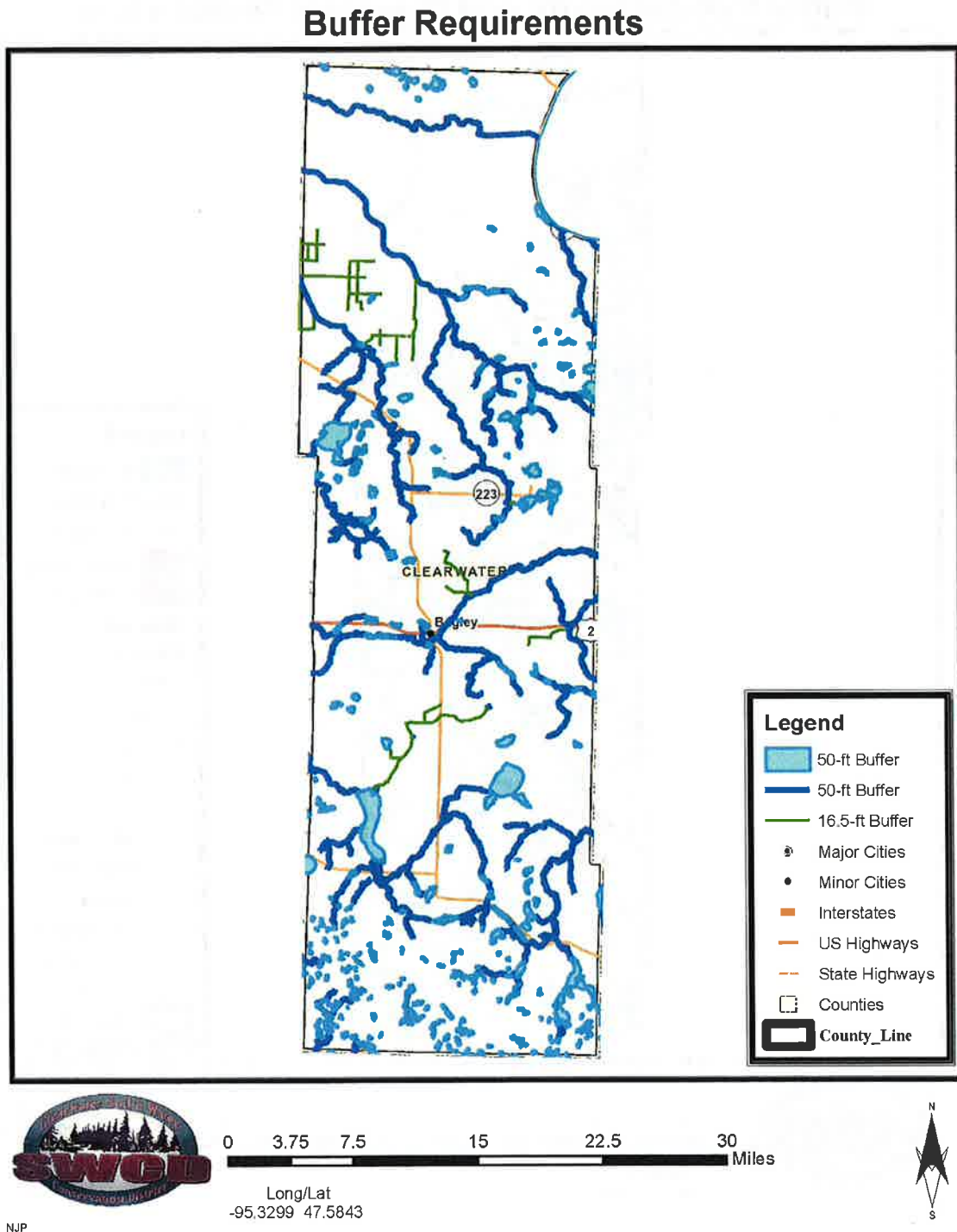
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I. Methodology

The decision framework used for determining which additional watercourses would benefit from buffers was based on the premise that those waters would have a significant nexus to existing public waters, and have some sort of impairment that necessitates the practice of installing a buffer. Additional waters were chosen by their adjacency to the existing buffer requirement map (DNR buffer map, figure 1), and by their flow regime, as interpreted from scanned 7.5 minute quadrangle USGS maps - processed by the DNR.

Figure 1: Existing Buffer Map



The DNR hydrography dataset was analyzed to determine the amount of waters that flow continuously, classified as perennial, as a proxy for contributing a significant flow to those waters already on the buffer maps. Also included were shallow lakes within this dataset, which often provide waterfowl and other wildlife benefits that translate into public benefits through hunting or other non-use values. These waters were traced upstream from their confluence with existing buffer map waters until classification changed from perennial, resulting in a list of waters, covering the entire county, with significant connectivity to 'buffer' waters (see red features in figures 2 and 3).

Figure 2: Buffer Map waters with additional waters

Buffer Requirements and Perennial Waterbodies

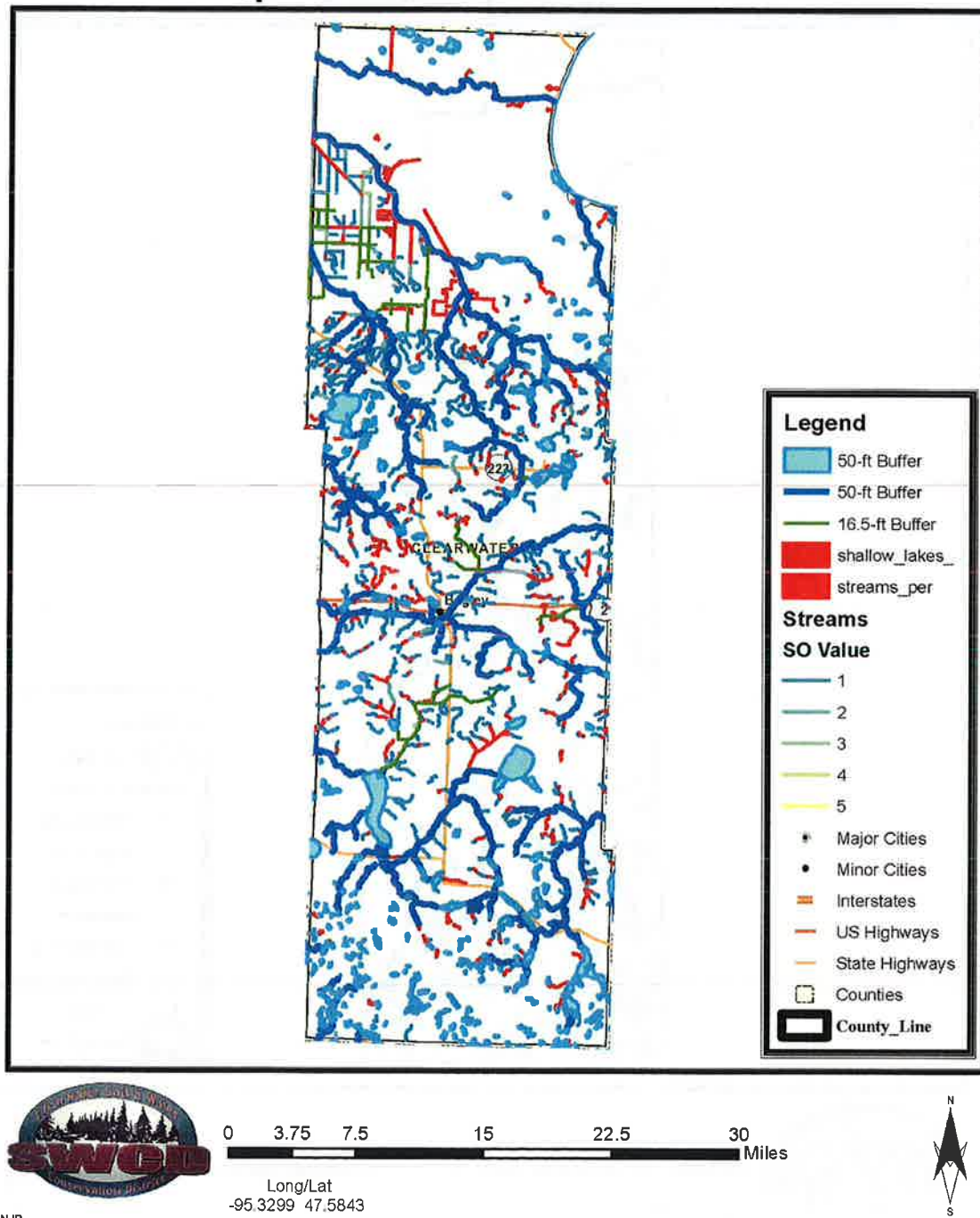
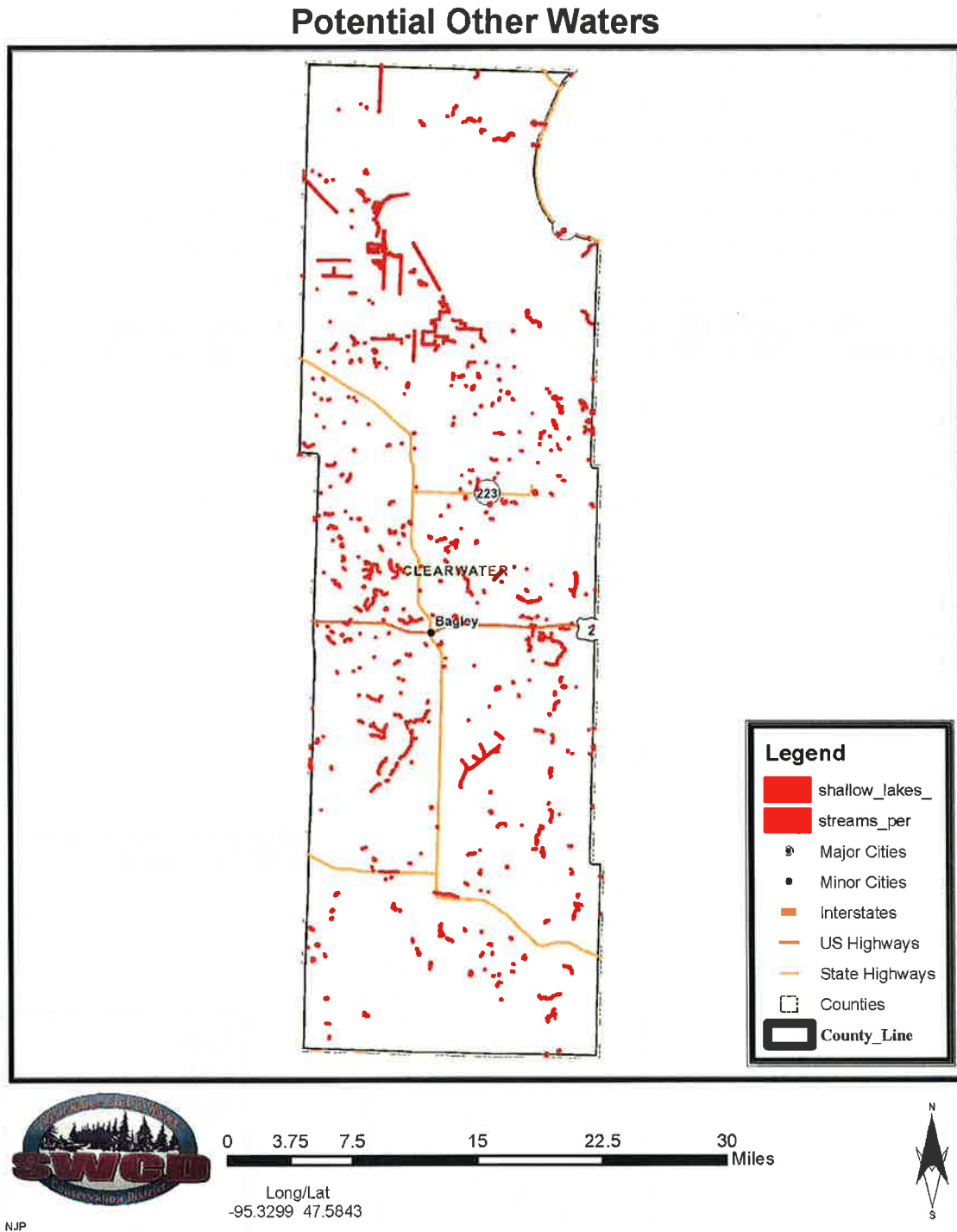


Figure 3: All additional waters across Clearwater County

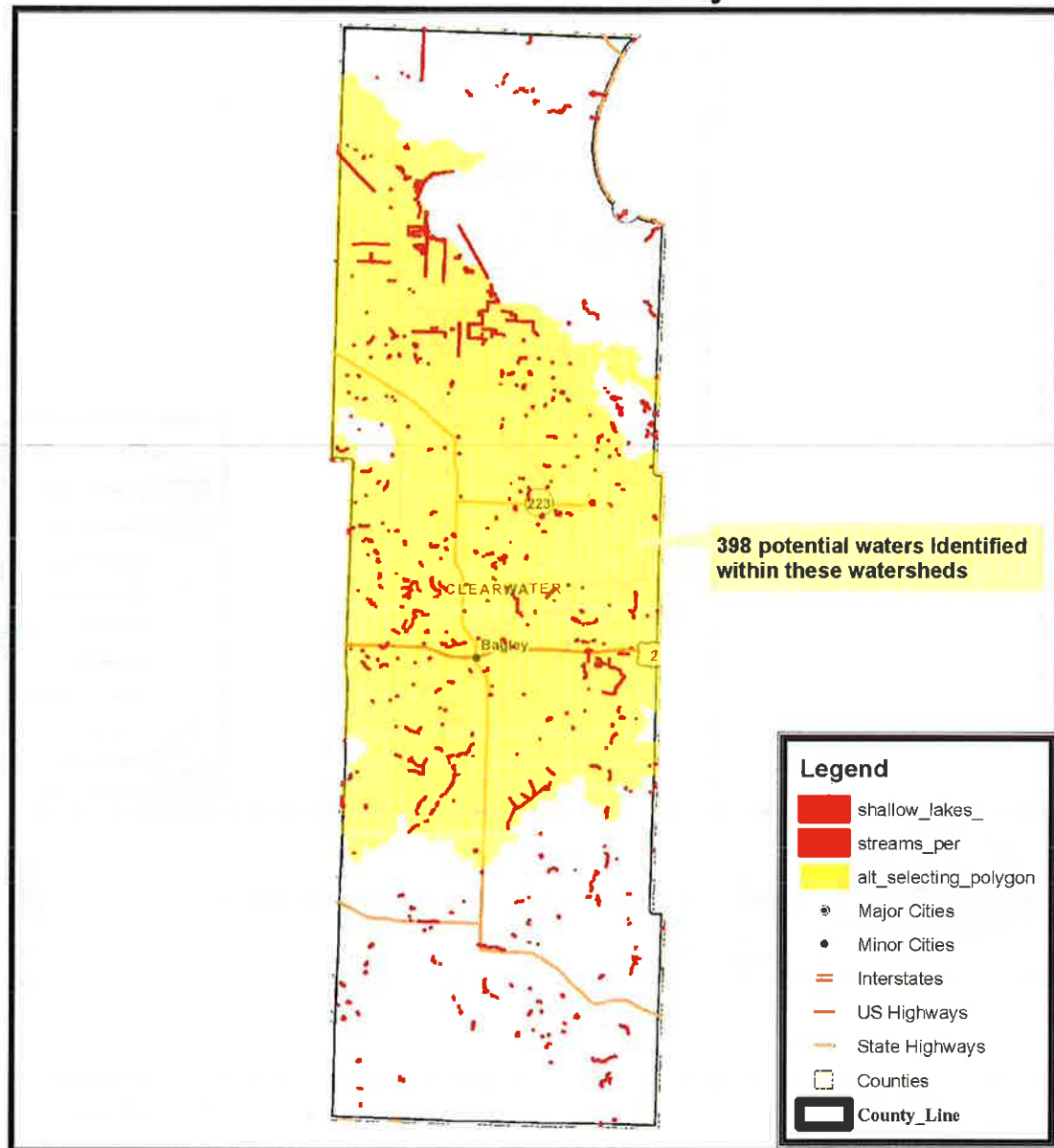


The next step in the creation of the list was to determine which waters from this master list of additional waters would benefit from buffer practices. Using a watershed approach, data was obtained from Mitch Brinks of the Area 8 Joint Powers Board, which includes data from a watershed-scale planning tool used by others in the region to determine risk classifications. In conjunction with hydrologic simulation loading data obtained from the Minnesota Pollution Control Agency, a list of priority watersheds was created. Watersheds were added to the list based on risk classifications of “Enhance/Protection” to “Enhance”, signifying a need

for additional conservation work as per the JPB decision tree. In addition, other watersheds were chosen based on loading data from their outflows that indicated they are not meeting at least one of the MPCA's water quality standards or nutrient criteria for the specific eco-region or river nutrient region. The resulting list of priority watersheds was used as an overlay of the additional waters list to select only those waters that are likely to contribute to better water quality outcomes as a result of buffer practices. Figure 4 shows the resulting map, of which 398 water were identified for further review. Final review included a visual inspection of aerial photos, to determine if a visible impression exists on the landscape along the watercourse (signifying perennial nature of the water) and if any areas of those waters lack an appropriate buffer. Review of those waters resulted in a list of (7) seven watercourse sites that may also benefit from buffer practices.

Figure 4: Additional waters with priority overlay

Potential Other Waters and Priority Watersheds



NJP

0 3.75 7.5 15 22.5 30 Miles

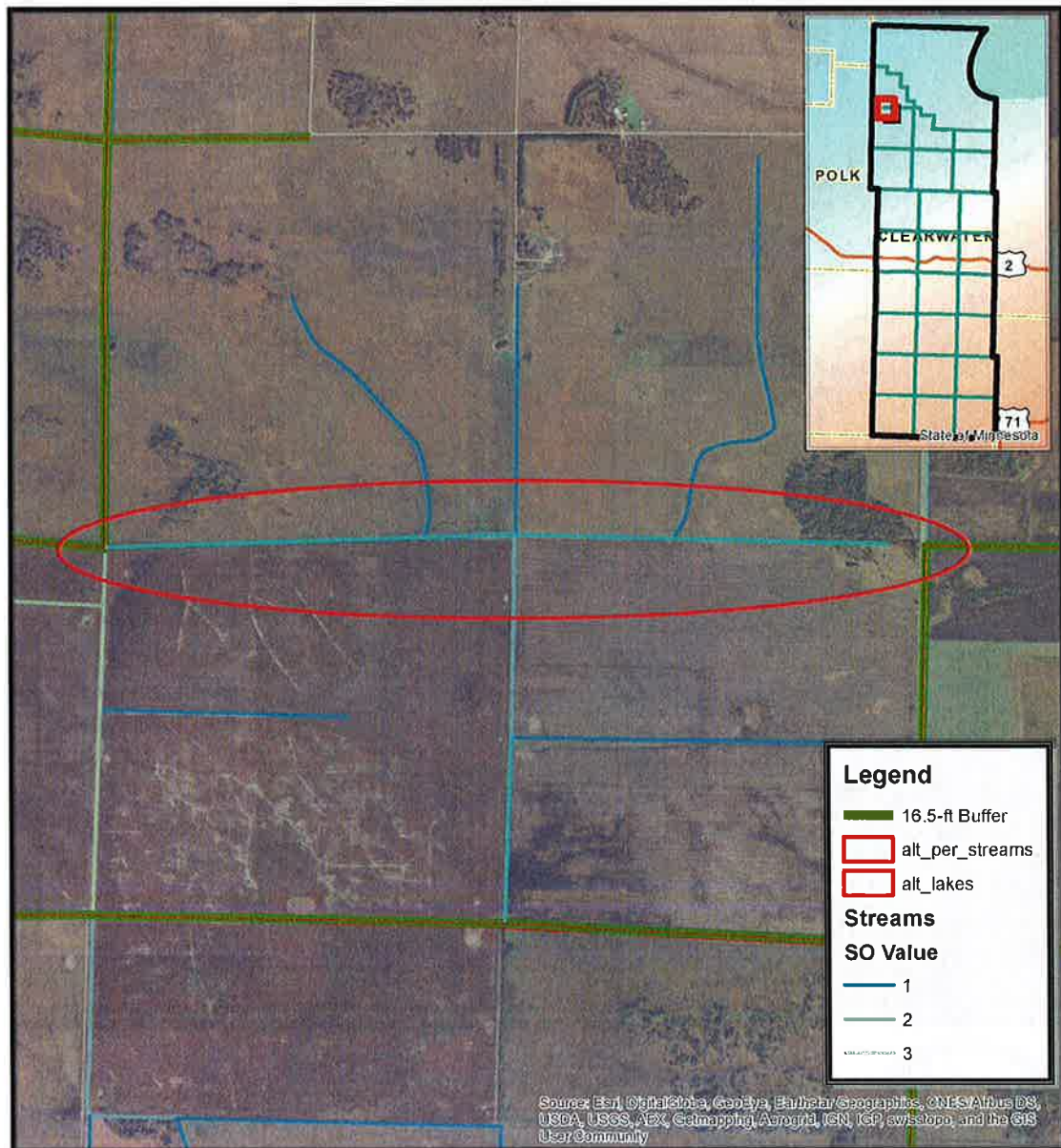
Long/Lat
-95.3299 47.5843



II. List of Waters

Site 39 is an unnamed drainage ditch, with west end connecting to Branch 13 of JD 72, found between sections 4 and 5 of Winsor Township, and sections 32 and 33 of Hangaard Township. A perennial ditch with apparent annual cropping near to the edge of the ditch bank. A 16.5-foot buffer along the east/west stretch, or other alternative practice, may meet the needs of this site.

Site ID #39



NJP

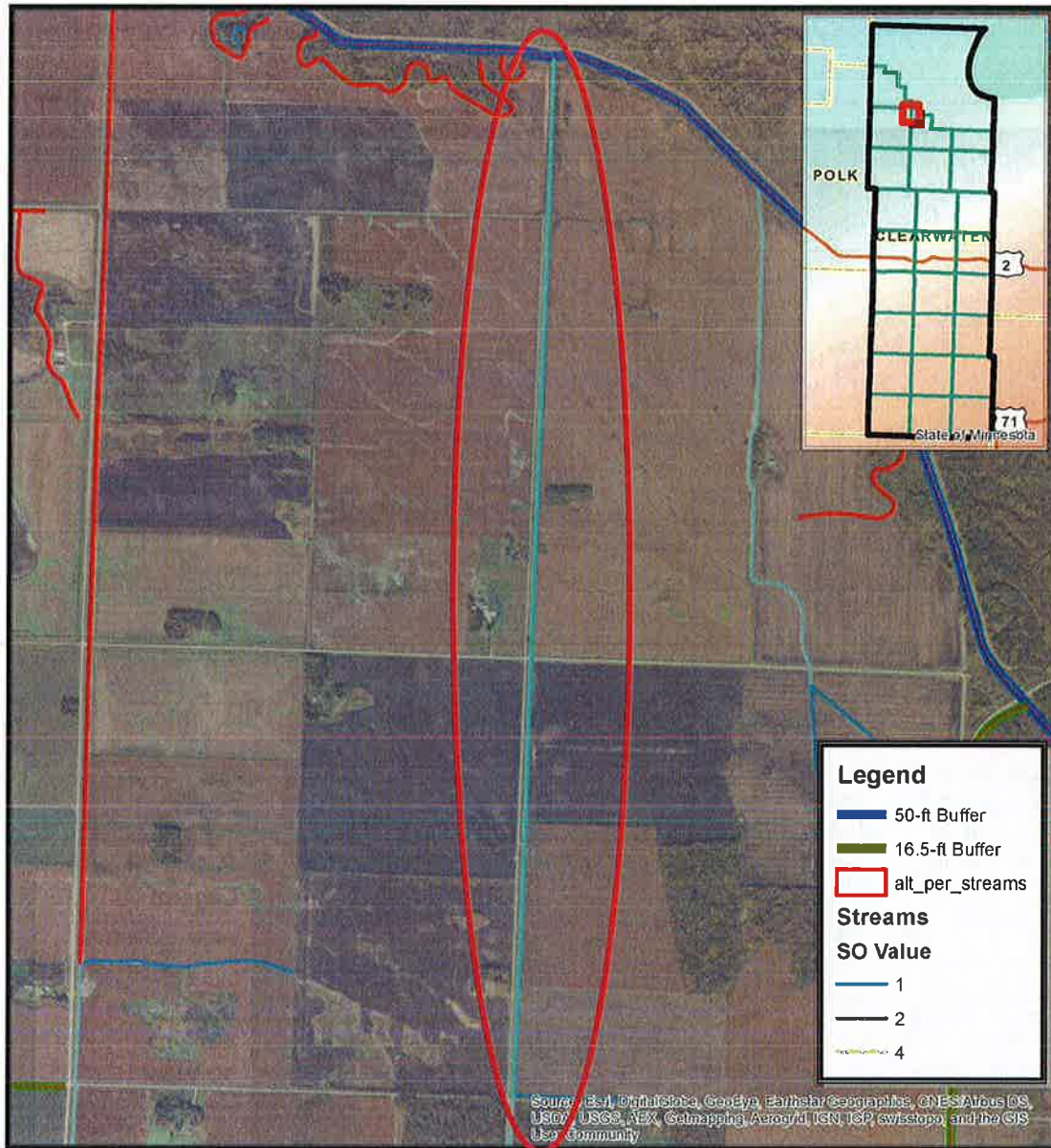
0 0.125 0.25 0.5 0.75 1 1.25 1.5 Miles

Long/Lat
-95.5359 47.8456



Site 52 is an unnamed drainage ditch, with north end connecting to the Clearwater River, found between sections 6 and 7 of Greenwood Township, and sections 1 and 12 of Winsor Township. A perennial ditch with apparent annual cropping near to the edge of the ditch bank. A 16.5-foot buffer along the north/south stretch, or other alternative practice, may meet the needs of this site.

Site ID #52



NJP

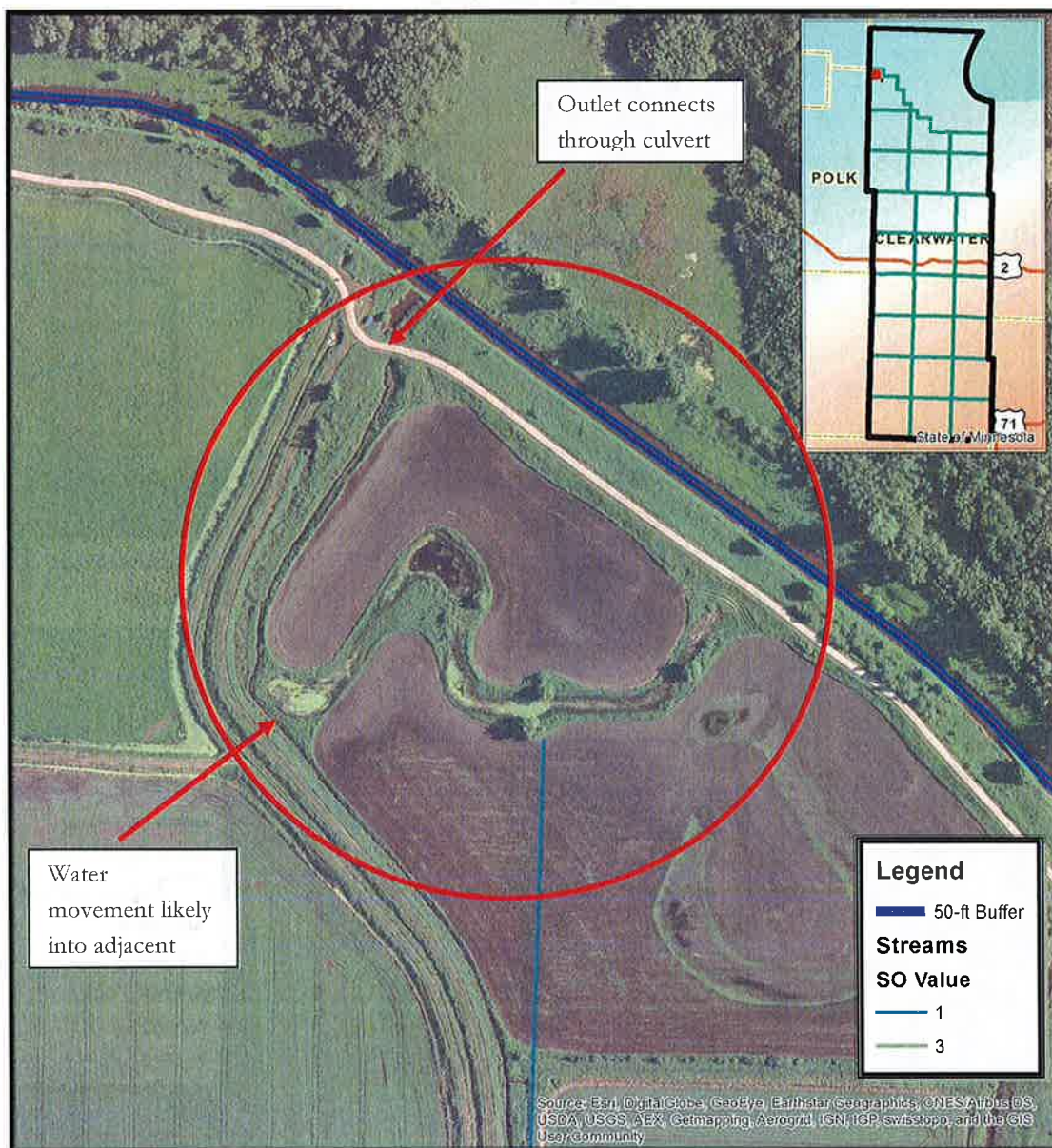
0 0.125 0.25 0.5 0.75 1 1.25 1.5 Miles

Long/Lat
-95.4509 47.8361



Site 73 is an unnamed oxbow-like feature, with west end connecting through storm-event flows to a ditch draining into the Clearwater River. It is found between sections 5 and 6 of Hangaard Township. A perennial wetland/pond complex with apparent row cropping near to the edge of the normal water line. A 30-foot minimum and 50-foot average buffer along the north/south stretch, or other alternative practice, would normally be the suggested requirement for a natural waterbody such as this. Given the limited flow into the adjacent ditch, and slow movement of water through this system, 16.5-foot buffer may be more appropriate in this case.

Site ID #73



NJP

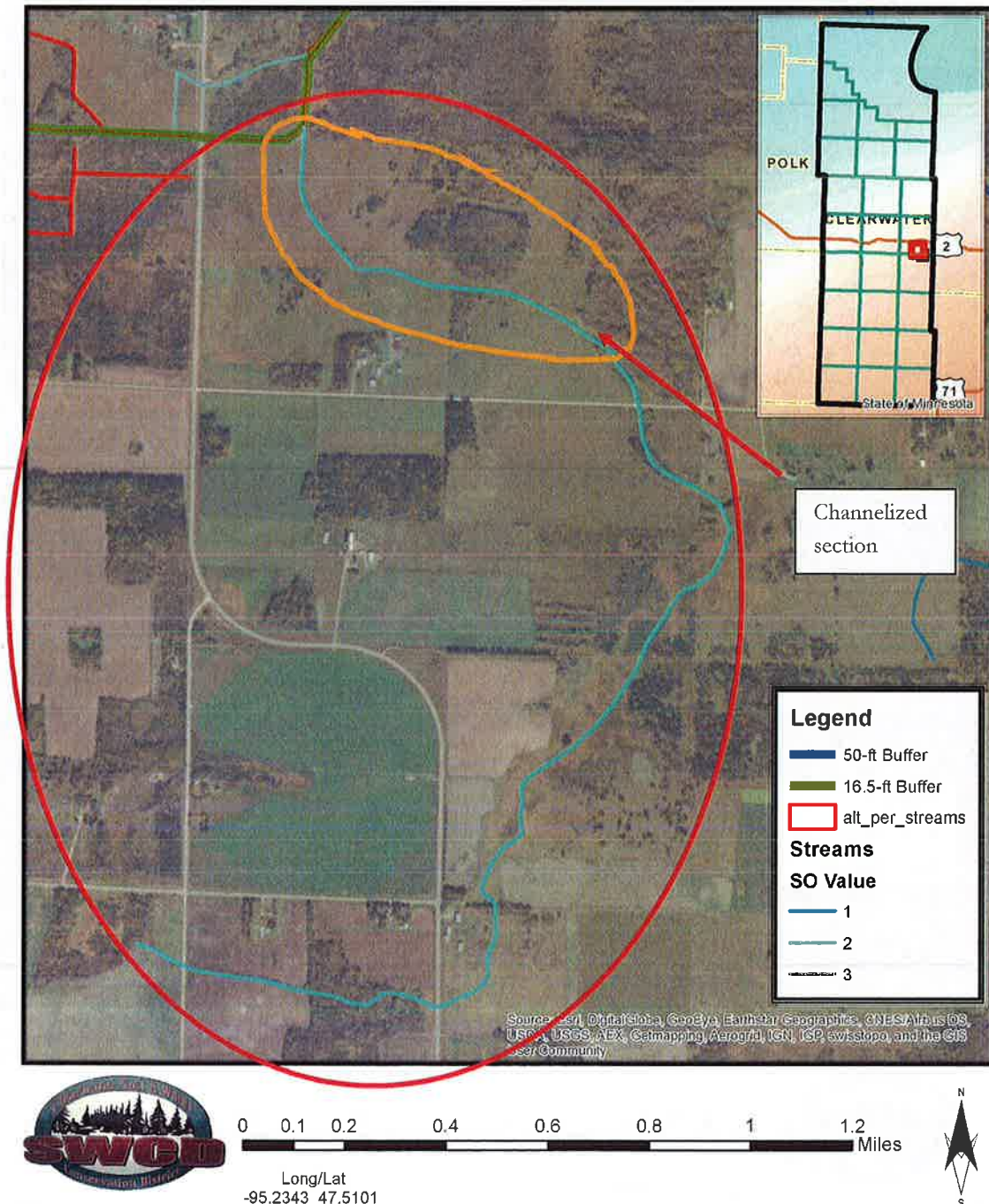
0 0.025 0.05 0.1 0.15 0.2 Miles

Long/Lat
-95.5596 47.9220



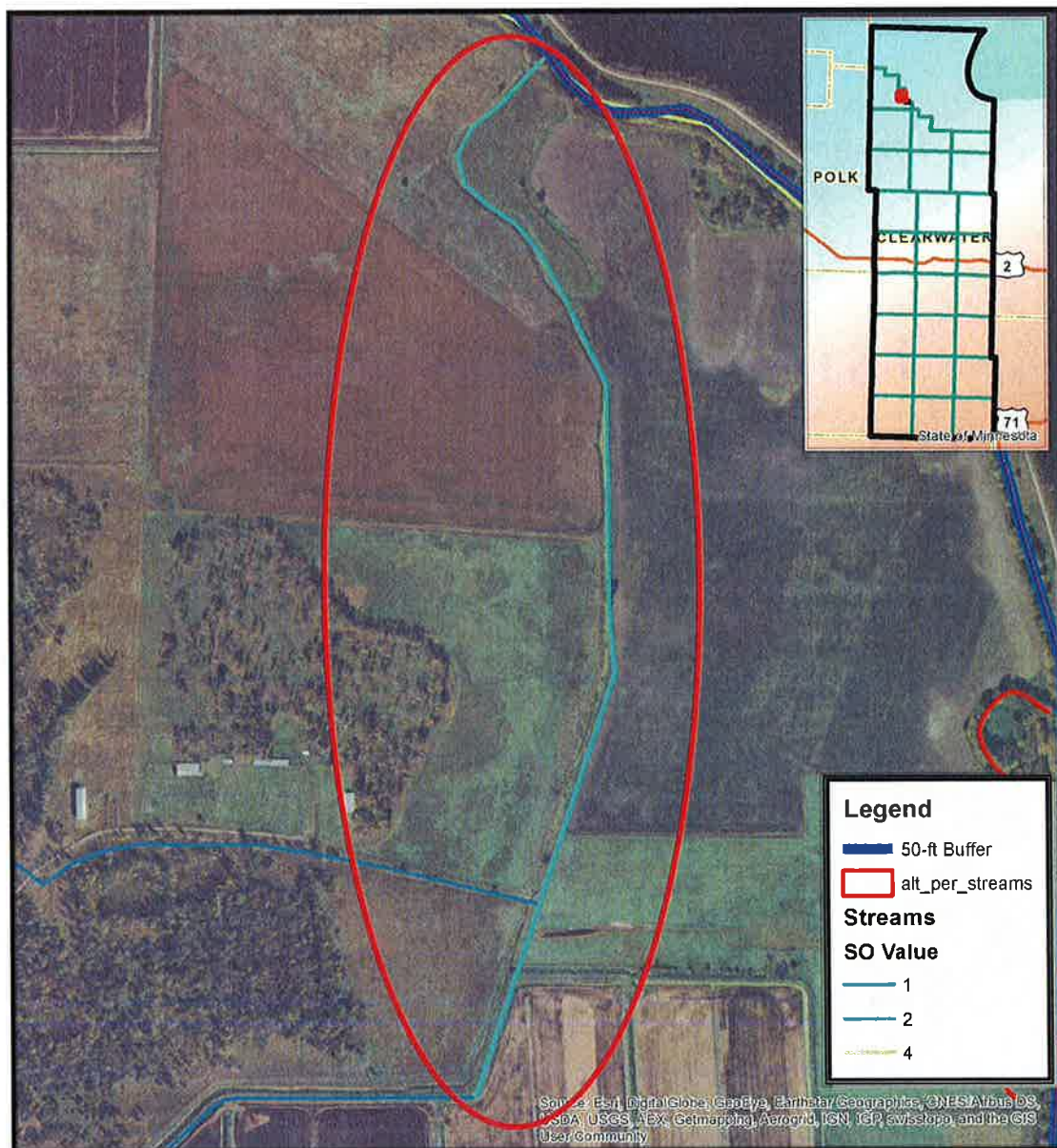
Site 90 is an unnamed stream feature that feeds into an unnamed ditch south of Highway 2 near Shevlin. It is found mostly in sections 27 and 34 of Shevlin Township. A perennial stream with channelized sections to the north, there are some fields it crosses that do not appear to meet recommended buffer standards. A 30-foot minimum and 50-foot average buffer along those fields, or other alternative practices, would normally be the suggested requirement for a natural waterbody such. Sections of the river that cross fields, however, may be better treated as grassed waterways with pollution reduction goals similar to that of 16.5-foot buffers, due to limited flow and size of un-treated loading area relative to its watershed.

Site ID #90



Site 126 is an unnamed drainage ditch, with north end connecting to the Clearwater River, found between sections 23 and 26 of Hangaard Township. A perennial ditch with apparent annual cropping near to the edge of the ditch bank. A 16.5-foot buffer along the north/south stretch, or other alternative practice, may meet the needs of this site.

Site ID #126



NJP

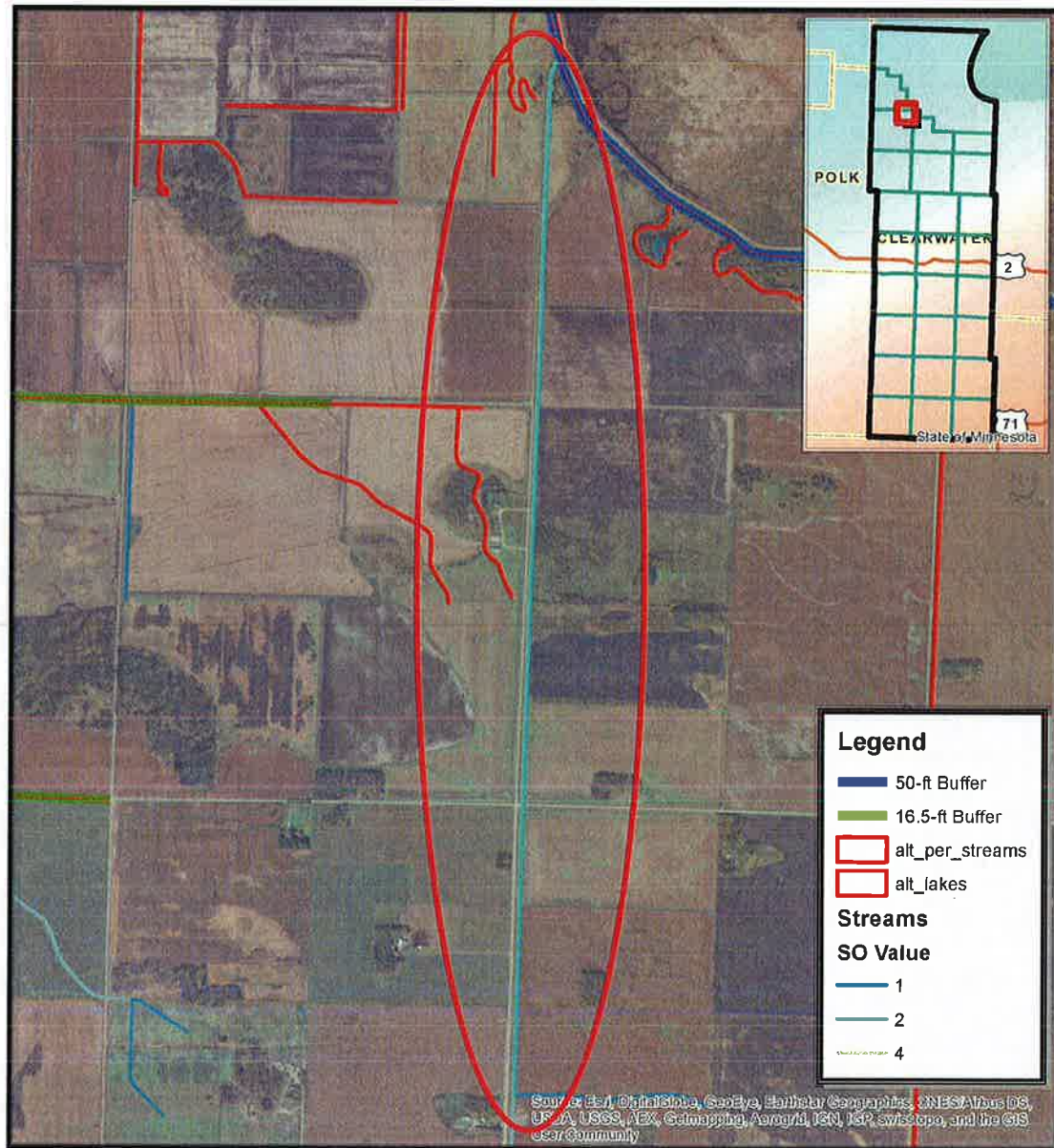
0 0.05 0.1 0.2 0.3 0.4 0.5 Miles

Long/Lat
-95.4824 47.8754



Site 130 is an unnamed drainage ditch, with north end connecting to the Clearwater River, found between sections 1 / 2 and 11 / 12 of Winsor Township and 36 / 36 of Hangaard Township. A perennial ditch with apparent annual cropping near to the edge of the ditch bank. A 16.5-foot buffer along the north/south stretch, or other alternative practice, may meet the needs of this site.

Site ID #130



NJP

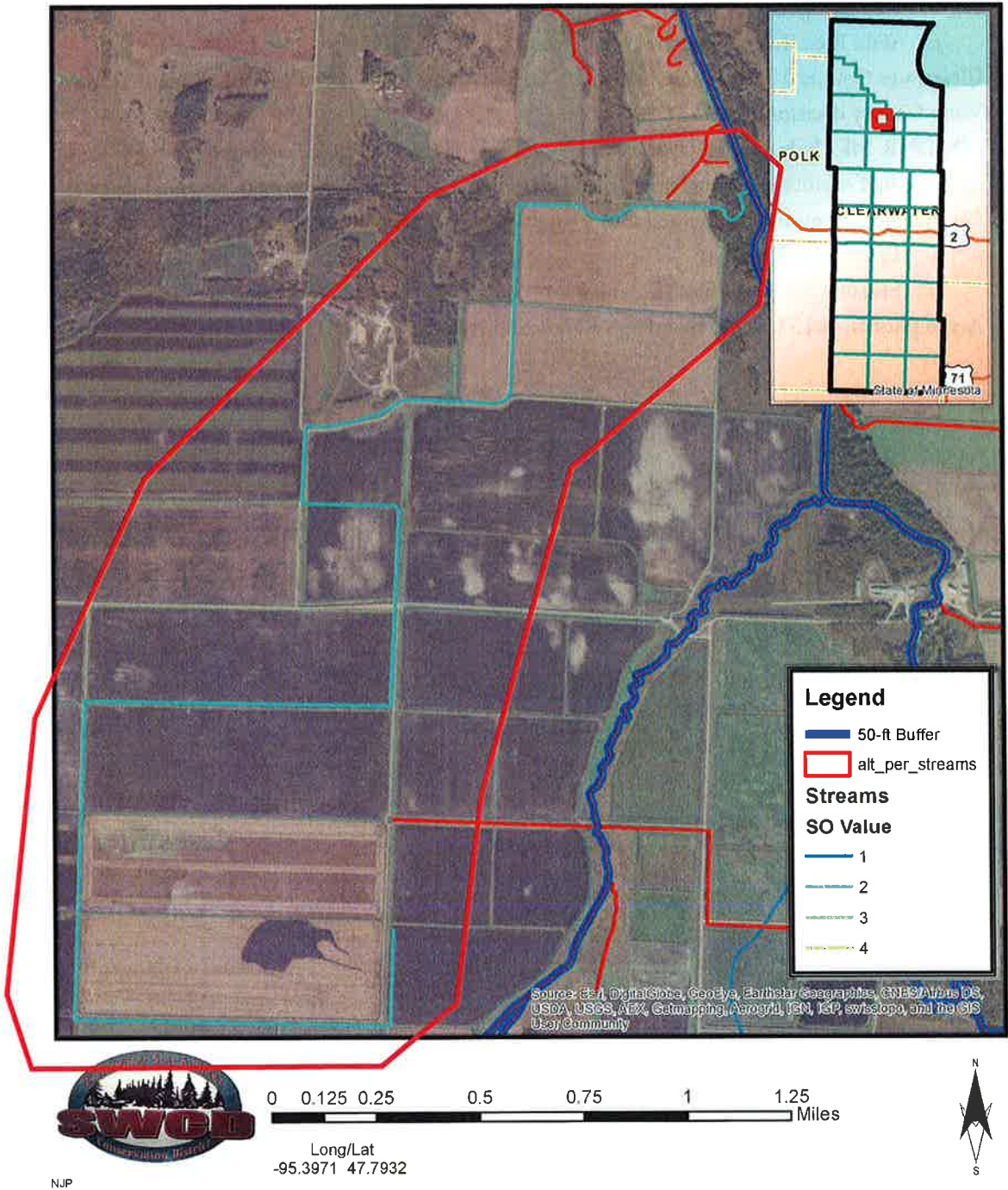
0 0.15 0.3 0.6 0.9 1.2 1.5 Miles

Long/Lat
-95.4721 47.8415



Site 131 is an unnamed drainage ditch, with north-east end connecting to the Clearwater River, found mostly in sections 21, 28 and 29 of Greenwood Township. A perennial ditch with apparent annual cropping near to the edge of the ditch bank. A 16.5-foot buffer along the north/south stretch, or other alternative practice, may meet the needs of this site.

Site ID #131



III. Data Sources

Data for this review were obtained from the following sources

1. HSPF watershed loading data: Mitch Brinks (JPB) via MPCA
 - a. Clearwater River Watershed shapefiles
 - b. Mississippi River Watershed shapefiles
 - c. Wild Rice River Watershed shapefiles
2. Clearwater County Minor Watershed Risk Classifications: Mitch Brinks (JPB) as adapted from Crow Wing County decision tree
3. MN DNR 24k Hydrography layer: A combined 1:24,000 scale feature captured from USGS seven and one-half minute quadrangle maps, and classified intermittent/perennial; obtained through MN Geospatial Commons and merged into a single feature-class.
 - a. Lakes 24k shapefiles
 - b. Streams 24k shapefiles
4. Aerial photos: 2015 USDA/FSA High Resolution Aerials