

elm creek

Watershed Management Commission

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July 5, 2018

Representatives
Elm Creek Watershed Management Commission
Hennepin County, MN

*The meeting packet for this meeting may be found on
the Commission's website:*
[http://www.elmcreekwatershed.org/minutes--
meeting-packets.html](http://www.elmcreekwatershed.org/minutes--meeting-packets.html)

Dear Representatives:

A regular meeting of the Elm Creek Watershed Management Commission will be held on **Wednesday, July 11, 2018, at 10:30 a.m.** in the Mayor's Conference Room at Maple Grove City Hall, 12800 Arbor Lakes Parkway, Maple Grove, MN. **PLEASE NOTE THIS CHANGE IN MEETING TIME.** Pizza will still be served.

Please email Tiffany at tiffany@jass.biz to confirm whether you or your Alternate will be attending the meeting. Thank you.

Regards,



Judie A. Anderson
Administrator
JAA:tim
Encls: Meeting Packet

cc: Alternates
Joel Jamnik
TRPD

HCEE
Diane Spector
Clerks

BWSR
Met Council
Official Newspaper

MPCA
DNR

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Regular Meeting July 11, 2018 AGENDA

1. Call Regular Meeting to Order.
 - a. Approve Agenda.*
2. Consent Agenda.
 - a. Minutes last Meeting.*
 - b. Treasurer's Report and Claims.*
3. Open Forum.
 - a. 2017 Stream Monitoring Presentation.
4. Action Items.
 - a. Project Reviews.*
 - b. Consider Livestock Management Policy.**
 - c. Watershed-based funding Pilot – appoint member to Chloride Steering Committee.*
5. New Business.
6. Communications.
7. Education.
 - a. WMWA Update.
 - b. Level 1 Winter Maintenance for Roads.*
8. Grant Opportunities and Updates.
 - a. Fish Lake Internal Phosphorus Loading Control.
 - b. Rush Creek Headwaters Subwatershed Assessment.*
9. Project Reviews – *also see Staff Report*.*
10. Other Business.
11. Adjourn.

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Project Reviews. (See Staff Report.*)						
a.					2013-046	Woods of Medina, Medina.
b.					2014-015	Rogers Drive Extension, Rogers.
c.					2015-004	Kinghorn Outlet A, Rogers.
d.				AR	2015-030	Kiddiegarten Child Care Center, Maple Grove.
e.					2016-002	The Markets at Rush Creek, Maple Grove.
f.					2016-005W	Ravinia Wetland Bank Plan, Corcoran.
g.					2016-040	Kinghorn 4th Addition, Rogers.
h.					2016-047	Hy-Vee Maple Grove #1 (Hy-Vee Maple Grove North).
i.				AR	2016-052	The Woods at Rush Creek, Maple Grove.

*in meeting packet

**available at meeting

j.				AR	2017-014	Laurel Creek, Rogers.
k.				AR	2017-016	Territorial Woods, Maple Grove.
l.				AR	2017-017	Mary Queen of Peace Catholic Church, Rogers.
m.				AR	2017-019	Medina Senior Living Community, Medina.
n.				AR	2017-021	Hindu Society of MN Staff Housing, Maple Grove.
o.				AR	2017-029	Brayburn Trails, Dayton.
p.				AR	2017-034	Plymouth Memory Care, Plymouth.
q				AR	2017-037	Corcoran L-80 Lift Station MCES Project 808520, Corcoran.
r.					2017-038	Bass Lake Estates, Corcoran.
s.					2017-039	Rush Creek Apartments, Maple Grove.
t.					2017-044	Reserve at Medina 2nd Addition, Medina.
u.					2017-045	Fish Lake Estates, Maple Grove.
v.					2017-046W	Wessell Property Wetland Delineation, Corcoran.
w.					2017-048W	Ebert Parcel Wetland Delineation, Corcoran.
x.		E			2017-050W	Ernie Mayer Wetland/floodplain violation, Corcoran.
y.				AR	2017-051	Mallard South 2nd Addition, Rogers.
z					2017-053	Sunrise Solar, Corcoran.
aa.				AR	2018-001	Rush Creek Commons, Maple Grove.
ab.					2018-004	Rush Creek Restoration, Maple Grove.
ac.					2018-005	Sundance Greens, Dayton.
ad.					2018-007	Copper Creek of Nottingham, Maple Grove.
af.					2018-008	Hayden Hills Golf Course, Dayton.
ag.					2018-009	Plymouth NW Greenway Trail Phase IV, Plymouth.
ah.					2018-012	Meadows Playfields, Plymouth.
ai.	A	E			2018-013	Wayzata Elementary School #9, Plymouth.
aj.					2018-014	Fehn Meadows 2nd Addition, Corcoran.
ak.					2018-015	Laurel Creek 2nd Addition, Rogers.
al.					2018-016	Krueger Wetland Delineation, Corcoran.
am					2018-017	Larkin Road Wetland Delineation, Corcoran.
an.					2018-018	Summers Edge Phase II, Plymouth.
ao.					2018-019	Fuss Wetland Delineation, Corcoran.
ap.					2018-020	North 101 Storage, Rogers.
aq.					2018-021	113th Lane Extension/Brockton/101, Rogers.
ar.					2018-022	Fernbrook Fields, Maple Grove.
as.					2018-023	King Solutions Distribution Center, Dayton
at.					2018-024	Schober Wetland Delineation, Corcoran.
au.					2018-025	Watten Wetland delineation/Replacement Plan, Corcoran.
av.					2018-026	Windrose, Maple Grove.
aw.					2018-027	CR202 Bridge, Dayton.
ax					2018-028	Tricare third Addition, Maple Grove.
ay					2018-029	McConn, Plymouth
az						

A = Action item E = Enclosure provided I = Informational update will be provided at meeting RPFI - removed pending further information
R = Will be removed RP= Information will be provided in revised meeting packet..... D = Project is denied AR awaiting recordation

*in meeting packet
**available at meeting

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Rush Creek SWA Technical Advisory Committee and Regular Meeting Minutes June 13, 2018

I. A meeting of the **Technical Advisory Committee (TAC)** for Rush Creek Headwaters Subwatershed Assessment of the Elm Creek Watershed Management Commission was convened at 10:15 a.m., Wednesday, June 13, 2018 in the Mayor's Conference Room, Maple Grove City Hall, 12800 Arbor Lakes Parkway, Maple Grove, MN.

In attendance were: Todd Tuominen, Champlin; Kevin Mattson, Corcoran; Mark Lahtinen, Maple Grove; Kaci Fisher, Hakanson-Anderson, Medina; Ben Scharenbroich, Plymouth; Andrew Simmons, Rogers; James Kujawa and Jason Swenson, Hennepin County Dept. of Environment and Energy (HCEE); Brian Vlach and Amy Timm, Three Rivers Park District (TRPD); Jeff Weiss, Barr Engineering; Diane Spector and Jeff Strom, Wenck Associates; and Judie Anderson, JASS.

Also present: Sharon Meister, Corcoran; Elizabeth Weir, Medina; Trevor Cammack, Plymouth; and Steve Christopher, Board of Water and Soil Resources.

Wenck staff recapped the project work completed to date. A copy of the SWA draft report was previously distributed for review by the TAC. Comments received have been incorporated in the second draft which is posted at http://www.elmcreekwatershed.org/uploads/5/8/3/0/58303031/rush_creek_headwaters_swa_draft_v2_june_2018.pdf and http://www.elmcreekwatershed.org/uploads/5/8/3/0/58303031/appendices_final.pdf.

Wenck staff have also provided more detail in the final section, including identifying the high priority projects across the Study Area.

The purpose of this meeting is review the report findings and discuss next steps.

A. Strom described the six Management Units (MUs) included in the study area. The six MUs (Lake Henry, Lake Jubert, Lower North Fork Rush Creek, Upper North Fork Rush Creek, South Tributary, and Tilton's) encompass 15,230 acres. Both forks of Rush Creek do not meet several state water quality standards (TP, *E. coli*, DO, M-IBI, F-IBI) and are designated as Impaired Waters. Lake Henry fails to meet state standards for nutrients and Lake Jubert will likely be listed as impaired for nutrients in the future after more monitoring data becomes available.

B. Section 2 of the draft report described the types of BMPs being considered. The study sited and evaluated six different structural BMP options using the Agricultural Conservation Planning Framework (ACPF) toolbox. They include

1. Water and sediment control basins.
2. Grassed waterways.
3. Saturated buffers.
4. Denitrifying bioreactors.
5. Wetland restorations.
6. Alternative Title Intakes.

In turn, these structural BMPs were prioritized based on visual inspection of multiple years of air photos. BMP load reduction benefits were calculated based on each BMP's drainage area, annual water volume, annual pollutant load, and the recommended removal efficiency of the practice. Planning level cost estimates were also developed for each BMP based on guidance from various groups and agencies as well as experience in other watersheds.

C. Nonstructural BMPs were also discussed briefly. They include such practices as

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1. Feedlot/pasture management.
2. Manure management.
3. Fertilizer.
4. Education and outreach.
5. Urban BMPs.
6. Cropping practices – no-till/conservation tillage, cover crops.

D. As **implementation strategies** are identified it will be important to identify who will take the lead in implementation efforts.

1. Undertake projects as willing landowners come forward.
2. Identify areas for intensive outreach.
3. Focus on a particular MU and undertake several BMPS in a given area to make a significant improvement.
4. Focus on certain BMPs – promote those that are inexpensive and cost-effective, or, undertake a specific BMP because it will achieve significant load reductions.

E. Funding Options.

1. One or more priority actions could be packaged into a Clean Water Fund grant application. That would require a 25% match, which could be assembled from the CIP county capital levy and other funds that might be identified from other sources. The CWF application period will likely be July-August 2018.

2. Another source of funds might be the new 319 Small Watersheds Focus Program through the MPCA. The MPCA intends to select about 10 small watersheds across the state to provide four-year grants (eligible to be renewed three more times for up to 16 years) to provide long-term, stable funding for implementation. These funds would require a 40% match. Since the first 10 focus watersheds will be selected in June 2018, the MPCA would need to be notified immediately of the Commission's interest. The MPCA has stated there will be another selection process in 2019.

3. Another strategy to consider is to work with the County to develop a program to levy a fixed amount per year into a segregated account to create a pool of funds to be used for implementation by willing landowners.

F. Next Steps.

1. Following the TAC and Commission meeting Wenck will revise the draft report to incorporate comments. The Commission may wish to host a focus group meeting of people who attended the Open House and expressed an interest in further involvement, potentially inviting other key stakeholders as well.

2. The following information will be gathered:
 - a. Add cost/lb. to charts in report.
 - b. Determine how septic inspection process works.
 - c. Determine who will lead the effort going forward.
 - d. Put together projects of interest into grant package.

II. Other Subwatershed Assessments.

Wenck staff have been told by BWSR staff that 2018 may be the last year that Accelerated Implementation Grants will be offered as part of the Clean Water Fund grant program. Other areas of the watershed will also benefit from SWAs as well. The City of Dayton is interested in a SWA of the Diamond Lake lakedshed. Another subwatershed that should be considered for a closer look is the South Fork Rush Creek subwatershed.

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Both of these subwatersheds are a little more developed than the Rush Creek Headwaters Study Area and would require some urban modeling and BMP identification as well as agricultural BMP identification. Wenck's rough cost estimate to complete the Diamond Lake SWA including obtaining lake sediment cores and a fish survey is \$52,000. Their rough cost estimate to complete the South Fork Rush SWA is about \$59,000. AIP grants must be matched 25%, and the Commission's cost share policy for SWAs is that the Commission will contribute 75% and the cities 25%. The table below shows those estimated figures.

Estimated cost to complete SWAs and potential funding sources.

	Diamond Lake	S Fork Rush
Total Estimated Cost	\$52,000	\$59,000
Grant	41,600	47,200
Commission Match	10,400	11,800
-City Match	2,600	2,950
-Commission Match	7,800	8,850

Vlach indicated that the Park District completed a Sediment Analysis Study for Diamond Lake as part of the watershed-wide TMDL. This will probably reduce the cost of the SWA of Diamond Lake.

III. The meeting of the Technical Advisory Committee was adjourned at 11:28 a.m. The TAC will reconvene on Wednesday, July 11, 2018 at 9:00 a.m.

I. A **regular meeting** of the Elm Creek Watershed Management Commission was called to order at 11:34 a.m., Wednesday, June 14, 2018, in the Mayor's Conference Room, Maple Grove City Hall, 12800 Arbor Lakes Parkway, Maple Grove, MN, by Vice Chair Elizabeth Weir.

Present were: Gerry Butcher, Champlin; Sharon Meister, Corcoran; Tim McNeil, Dayton; Joe Trainor, Maple Grove; Elizabeth Weir, Medina; Catherine Cesnik, Plymouth; Kevin Jullie, Rogers; James Kujawa and Jason Swenson, Hennepin County Dept. of Environment and Energy (HCEE); Brian Vlach, Three Rivers Park District (TRPD); Jeff Weiss, Barr Engineering; and Judie Anderson, JASS.

Also present: Todd Tuominen, Champlin; Kevin Mattson, Corcoran; Mark Lahtinen, Maple Grove; Ben Scharenbroich and Trevor Cammack, Plymouth; Andrew Simmons, Rogers; James Fallon, USGS; Justin Klabo, AEZS; and Craig Allen, GWSA.

A. Motion by Butcher, second by McNeil to approve the **revised agenda**.* *Motion carried unanimously.*

B. Motion by McNeil, second by Jullie to approve the **minutes*** of the April 11, 2018, regular meeting. *Motion carried unanimously.*

C. Motion by McNeil, second by Butcher to approve the June **Treasurer's Report and Claims*** totaling \$160,462.88. *Motion carried unanimously.*

II. **Open Forum.**

III. **Action Items.**

A. **Project Review 2018-009 NW Greenway Trail, Phase IV, Plymouth.*** This section of the Plymouth NW Greenway Trail is a boardwalk and trail that will cross a portion of the Elm Creek floodplain adjacent to Peony Lane near Wayzata High School. The proposed work will disturb 0.77 acres and result in the construction of 0.44 acres of new impervious area. A small portion of the work is being done in the floodplain of Elm Creek. Staff reviewed this project for compliance to the Commission's floodplain and erosion control requirements. Site plans were received March 1. In their findings dated May 24, 2018, Staff recommends approval of this project with no conditions. Motion by McNeil, second by Trainor to approve Staff's recommendations. *Motion carried unanimously.*

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B. Project Review 2018-015 Laurel Creek 2nd Addition, Rogers.* This is an erosion control review of the plans for another phase of the Laurel Creek project originally approved under review #2017-014. This addition is located southeast of Hackamore Road and Pinto Drive (CR116), immediately east of the First Addition, and will allow for the construction of approximately 72 new single-family homes and 64 townhome units, and rough grading for 20 lots in a future phase. Staff reviewed the project plans, found them in conformance with the Commission's rules and standards, and granted administrative approval of the plans.

C. Project Review 2018-018 Summers Edge Phase III, Plymouth.* This is a 15-acre parcel located at the northeast corner of the intersection of Brockton Lane and Medina Road. The proposed development consists of 45 single-family homes on a parcel that is currently vacant. Drainage from the site generally discharges to the east through a large wetland complex and eventually into Elm Creek. Staff review will be for compliance with rules D, E, and I. In their findings dated June 12, 2018 Staff recommends approval subject to receipt of final easements over the wetland buffers within 90 days of final platting in a format acceptable to the Commission. Motion by McNeil, second by Trainor to approve Staff's recommendation. *Motion carried unanimously.*

D. Project Review – Pine Meadows Development, Dayton. In his May 30, 2018 letter* to the Commission, Jason Quisberg, Wenck Associates, Dayton City Engineer, discussed this proposed development in the northeast area of Dayton. The purpose of the letter is to provide the City's position regarding the stormwater design for the proposed Pine Meadows development. Quisberg was present to discuss the project in more detail and to answer Commissioner questions.

The proposed stormwater design results in a discharge from the site prior to the modelled 100-year event. City and Commission rules require rate control under post-developed conditions. However, the City is seeking a variance from the Commission for the following reasons.

1. The proposed stormwater system (extends and) utilizes an outlet partially constructed in 2007 as part of a City project. The outlet was installed at that time for the purpose of serving future development in the proposed location. Said outlet is consistent with the current surface water management (comprehensive plan), which is sized appropriately to serve as an outlet under normal conditions, that is, for discharge during events smaller than the 100-year frequency.

2. This piped outlet, once extended, will be a direct connection from this development area to the Mississippi River. Additionally, any bypass flows due to obstruction, or surcharging, would continue overland directly to the river, without raising concern for potential localized flooding.

The City of Dayton is supportive of, and even promotes, extending and utilizing the proposed outlet to serve this area. It is consistent with the City's comprehensive stormwater plan and believes the risk of negative impacts downstream is low.

In their May 30, 2018 response* to the City, Commission staff indicated the project as proposed could not be approved under current Commission rules. They cited the following:

1. If an outlet is provided for something under a 100-year event, where there is no discharge under a 100-year event today, the project is not compliant with Rule D. Rule D requires that the site discharge rates be maintained below the existing runoff rates for the 2, 10, and 100-year events in the developed condition. Constructing an outlet below the 100-year elevation would not comply with this requirement.

2. In addition to the runoff requirement, the site must meet the requirement that there is no net increase in TP or TSS discharge from the site in the post developed condition. Construction of an outlet will immediately increase these discharges which are essentially zero, assuming no discharge in a 100-year event today.

3. We (Staff) don't believe the requirements for providing a landlocked basin are being followed. The rules state that outlets are allowed from Landlocked Basins if they: (1) Retain a hydrologic regime complying with floodplain and wetland alterations. (2) Provide sufficient storage below the outlet run-out elevation to retain back-to-back 100-year, 24-hour rainfalls and runoff above the highest anticipated groundwater elevation and prevent damage to property

RULE D - STORMWATER MANAGEMENT
RULE E - EROSION AND SEDIMENT CONTROL
RULE F - FLOODPLAIN ALTERATION

RULE G - WETLAND ALTERATION
RULE H - BRIDGE AND CULVERT CROSSINGS
RULE I - BUFFERS

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adjacent to the basin. (3) Do not create adverse downstream flooding or water quality conditions.

Staff also noted that, at the time the storm sewer line was extended to this area in 2007, all of the above rules were in place in the Elm Creek Watershed, so these are not new requirements imposed by the latest generation plan.

General discussion ensued:

1. Query: How high does the water in the ponds get in the modeled 100-year event? Within the rules during the 100-year event, not achievable during the back-to-back 100-year events. Would need to see back-to-back figures under fully-developed condition.

2. For a variance to be considered, it must meet certain criteria (Appendix C, Rule K in the Commission's Plan):

WHEN AUTHORIZED. The Commission may grant variances from the literal provisions of these Rules. A variance shall only be granted when in harmony with the general purpose and intent of the Rules in cases where strict enforcement of the Rules will cause practical difficulties or particular hardship, and when the terms of the variance are consistent with the Commission's water resources management plan and Minnesota Statutes, chapter 103D.

HARDSHIP. "Hardship" as used in connection with the granting of a variance means the land in question cannot be put to a reasonable use if used under the conditions allowed by these Rules; the plight of the applicant is due to circumstances unique to the land and not created by the applicant; and the variance, if granted, will not adversely affect the essential character of the locality and other adjacent land. Economic considerations alone shall not constitute a hardship if a reasonable use for the land exists under the terms of these Rules. Conditions may be imposed in the granting of a variance to insure

[A search of Commission records failed to identify any variances approved by the Commission in the past.]

3. Does the fact that the water discharges to the Mississippi River rather than to Elm Creek become an issue?

4. Is it assumed that the outlet control does not come into play until the 100-year event?

After considerable discussion about technical details of the project and the project's setting, the Commissioners generally agreed that this is a case where a variance may be warranted, and directed Staff and the applicant to continue working on a potential variance request that would come to the Commission at a future meeting as part of the review of the project. No action was taken by the Commission at this time.

E. Staff presented the **draft 2019 Operating Budget**.^{*} No comments were received and no revisions were made to the draft budget presented at the May meeting. Motion by McNeil, second by Jullie to adopt the 2019 Operating Budget as presented. *Motion carried unanimously.* Member assessments^{*} total \$230,400.

F. Motion by McNeil, second by Butcher to approve the Cooperative Agreement with Metropolitan Council for the **2018 Citizen-Assisted Monitoring Program (CAMP)**.^{*} Lake Jubert will be monitored at a cost of \$550. *Motion carried unanimously.*

G. Motion by Butcher, second by McNeil to approve the Cooperative Agreement with the USGS for the **2018-2019 Stream Monitoring Program**.^{*} *Motion carried unanimously.* Cost for the biennium is \$42,500. James Fallon was present to describe the monitoring program. He noted that the auto sampler has been upgraded and a new datalogger has been installed. A more interpretive gage will be installed using faster telemetry. He anticipates the bridge at the monitoring station will be replaced in the fall and the station relocated at that time. Real time data is published at https://waterdata.usgs.gov/mn/nwis/inventory/?site_no=05287890.

IV. New Business.

V. Water Quality.

A. A draft of the **manure management ordinance/policy**^{*} was transmitted to the member cities for review and comment prior to the next TAC meeting.

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- B. Vlach will give a presentation of the 2017 **stream monitoring results** at the July meeting.

VI. Grant Opportunities and Updates.

A. **Internal Phosphorus Loading Control in Fish Lake project.** Vlach will provide updates as they become available.

B. **Rush Creek Headwaters Subwatershed Assessment project.** (See Technical Advisory Committee minutes on pages 1-3.)

C. It has been recommended that the Commission consider submitting another SWA to the **Clean Water Accelerated Implementation Program** as it appears from BWSR that this may be the last year it is offered. (See II. of the TAC minutes.)

D. **319 Small Watersheds Focus Program.** The Minnesota Pollution Control Agency (MPCA) is looking for interested watershed organizations to partner with in developing a long-term roadmap to support comprehensive implementation on a small-scale watershed. Selected "Focus Watersheds" will be prioritized to receive four 4-year grant awards to implement a series of projects outlined in the Focus grant workplan, provide a steady source of funding, focus implementation efforts, and achieve measurable water quality improvements on a specific waterbody. BMPS identified in the Rush Creek SWA may be good candidates for the program.

VII. Education.

A. **West Metro Water Alliance (WMWA).** The next WMWA meeting is scheduled for 8:30 a.m., Tuesday, August 14, 2018, at Plymouth City Hall.

VIII. Communications.

IX. Other Business.

A. The following **projects** are discussed in the June Staff Report.* ("W" denotes wetland project.)

1. 2013-046 Woods of Medina, Medina.
2. 2014-015 Rogers Drive Extension, Rogers.
3. 2015-004 Kinghorn Outlet A, Rogers.
4. 2015-030 Kiddiegarten Child Care Center, Maple Grove.
5. 2016-002 The Markets at Rush Creek, Maple Grove.
6. 2016-004 Park Place Storage Site Plans, Corcoran.
7. 2016-005W Ravinia Wetland Bank, Corcoran.
8. 2016-026 Faithbrook Church, Dayton.
9. 2016-040 Kinghorn 4th Addition, Rogers.
10. 2016-047 Hy-Vee Maple Grove #1, Maple Grove.
11. 2016-052 The Woods at Rush Creek, Maple Grove.
12. 2017-014 Laurel Creek, Rogers.
13. 2017-016 Territorial Woods, Maple Grove.
14. 2017-017 Mary Queen of Peace Catholic Church, Rogers
15. 2017-019 Medina Senior Living Community, Medina.
16. 2017-021 Hindu Society of MN Staff Housing, Maple Grove.
17. 2017-029 Brayburn Trails, Dayton.
18. 2017-031 Bass Lake Crossing, Corcoran.
19. 2017-034 Plymouth Memory Care, Plymouth.
20. 2017-037 L-80 Lift Station MCES, Corcoran.
21. 2017-038 Bass Lake Estates, Corcoran.
22. 2017-039 Rush Creek Apartments, Maple Grove.
23. 2017-044 Reserve at Medina 2nd Addition, Medina.

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24. 2017-045 Fish Lake Estates, Maple Grove.
25. 2017-046W Wessell Wetland Delineation, Corcoran.
26. 2017-048W Ebert Parcel Wetland Delineation, Corcoran.
27. 2017-050W Ernie Mayer Wetland/floodplain violation, Corcoran.*
28. 2017-051 Mallard South 2nd Addition, Rogers.
29. 2017-053 Sunrise Solar Garden, Corcoran.
30. 2018-001 Rush Creek Commons, Maple Grove.
31. 2018-004 Rush Creek Restoration Project, Maple Grove.*
32. 2018-005 Sundance Greens, Dayton.
33. 2018-007 Copper Creek of Nottingham, Maple Grove.
34. 2018-008 Hayden Hills Golf Course Subdivision, Dayton.*
35. 2018-009 NW Greenway Trail Phase IV, Plymouth.*
36. 2018-011 Rush Creek Run, Corcoran.
37. 2018-012 The Meadows Neighborhood Park, Plymouth.
38. 2018-013 New Wayzata Elementary School, Plymouth.
39. 2018-014 Fehn Meadows Second Addition, Corcoran.
40. 2018-015 Laurel Creek 2nd Addition, Rogers.
41. 2018-016W Krueger Wetland Delineation, Corcoran.
42. 2018-017W Krueger Wetland Delineation, Corcoran.
43. 2018-018 Summers Edge Phase III, Plymouth.
44. 2018-019W Fuss Wetland Delineation, Corcoran.
45. 2018-020 North 101 Storage, Rogers.
46. 2018-021 113th Lane Extension & Brockton Lane/CSAH 101 Intersection, Rogers.
47. 2018-022 Fernbrook Athletic Fields, Maple Grove.

B. Adjournment. There being no further business, motion by McNeil, second by Jullie to adjourn. *Motion carried unanimously.* The meeting was adjourned at 1:07 p.m.

Respectfully submitted,



Judie A. Anderson, Recording Secretary

JAA:tim

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STAFF REPORT

July 5, 2018

2013-046 Woods of Medina, Medina. This is two parcels totaling 9.5 acres located east of CR 116 and south of Hackamore Road. The site is proposed to be developed into 16 single-family residential lots. On January 13, 2015, the Commission approved this project with two conditions. Although this project has not been constructed, it is still active with the City of Medina and remains approved by the Commission until it becomes inactive with the City.

2014-015 Rogers Drive Extension, Rogers. This project involves improvements along Rogers Drive from Vevea Lane to Brockton Lane. The project is located east of I-94, south of the Cabela development. The total project area is 8.0 acres; proposed impervious surfaces total 5.6 acres. Site plans received July 1, 2014 meet the requirements of the Commission with the exception of the nutrient control. Due to limited options to treat the nutrient loads on the east 1.7 acre portion of Rogers Drive, the Commission approved the site plan contingent upon the City deferring 4.6 lbs. of phosphorus for treatment in future ponding opportunities as the easterly corridor of Rogers Drive develops. 2.3 lbs. will be accounted for in the Kinghorn Spec. Building site plan with 2.3 lbs. still outstanding. This item will remain on the report until the total deferral is accounted for.

2015-004 Kinghorn Outlot A, Rogers. This is a 31 acre site located between the Clam and Fed Ex sites in Rogers on the west side of Brockton Road and I-94. The proposed site will have two warehouse buildings, 275,000 and 26,000 SF in size, with associated parking and loading facilities. The Commission standards require review of stormwater management, grading and erosion controls and buffers. In June 2015 the Commission approved this project with three conditions. Revisions have yet to meet the Commission's approval conditions. This project was extended by the City of Rogers earlier this year. It will remain active on the Staff Report.

2016-002 The Markets at Rush Creek, Maple Grove. This is a proposal to develop 40 acres of a 123-acre planned unit development located in the southwest quadrant of the intersection of CSAH 101 and CSAH 10. County Ditch 16 (Maple Creek) runs along the south property line on this project. The 40-acre project area includes a Hy-Vee grocery store (16.8 acres), a Hy-Vee gas station (2.5 acres) and 11 outlots (18.76 acres). Right-of-way accounts for 2.3 acres. The remaining acreage (83 acres) consists of 5 outlots and right-of-way. The additional outlot areas are not part of the stormwater review for this project but will be reviewed for compliance with the Commission's buffer and floodplain requirements. In May 2016 the Commission granted Staff authority to administratively approve the project and report any updates. This project has been placed on hold by Hy-Vee. As long as it remains active with the City, the Commission's conditional approval remains in place. *According to the engineer on this project, the applicant wishes to move forward with mass grading the site and constructing a Hy Vee store this year. Updated plans will be reviewed and administratively approved by Staff if they are still in conformance to the original approval.*

2016-005W Ravinia Wetland Replacement Plan, Corcoran. In February 2016, Lennar Corporation submitted a Wetland Banking Concept Plan for Phase II of the Ravinia Development. This plan was withdrawn in favor of an onsite wetland replacement plan. At their December 2016 meeting the Commission approved Staff's findings and recommendations dated January 10, 2017. Final wetland impacts will be 1.22 acres. Wetland credits created on site will be 4.01 acres. Excess credits of 0.11 acres are proposed to be used on Lennar's Laurel Creek development in Rogers (2017-014). All approval contingencies have been met. Construction on the site began in spring 2017. Vegetation planting and management took place throughout 2017. Beginning in 2018 Barr Engineering will provide monitoring to ensure the replacement meets the performance standards of the approved plans.

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2016-040 Kinghorn 4th Addition, Rogers. This is a 13.7-acre parcel located in the northwest corner of the intersection of Brockton Lane and Rogers Drive. An industrial warehouse with 8.8 acres of new impervious area is proposed for the site. The plan includes the use of a NURP pond and a biofiltration basin to meet Commission requirements for rates, water quality and abstraction. The adjacent site is likely to be developed in the near future and some of the stormwater features were oversized to accommodate future development. In November 2016 the Commission approved the project conditioned on: 1) approval of only this phase; future phases will need additional review and approval; 2) final modifications to the hydrologic modeling; 3) additional details are provided for a proposed water re-use system; 4) an O&M Plan for the pond and biofiltration basin is completed and recorded on the final plat; 5) modification of the storm sewer system to maximize the area draining to the NURP pond; and 6) receipt and review of wetland-related documentation if wetlands are present. Condition #1 required no action, so has been met. Condition #2 has been met for the current design; however, any future design modifications will require additional review. Conditions #3-6 remain outstanding and are expected to be addressed during final design. Staff has discussed the project with the City and been in contact with the project engineer to receive an update, but no new information has been provided.

2016-047 Hy-Vee North Maple Grove. The applicant is proposing to disturb 13 acres of a 20.4-acre site located at the northeast corner of Maple Grove Parkway and 99th Avenue for the purpose of constructing a grocery store, fuel station, convenience store and parking facilities. Staff sent preliminary review comments and requested revisions on December 14. In their findings dated January 10, 2017, Staff recommended approval of this project subject to 1) receipt, approval, and recordation of an Operations and Maintenance Plan for the pond and the iron-enhanced filtration system, 2) revisions for items relating to buffer requirements and erosion and sediment control as enumerated in the findings, and 3) receipt of a signed and dated final plan set. The Commission approved Staff's recommendations at their January 11, 2017 meeting with the additional requirement that the Commission receive and comment on a WCA impact notice. No new information has been received to date.

2017-039 Rush Creek Apartments, Maple Grove. This project is located in the southwest quadrant of the intersection of Bass Lake Road (CSAH 10) and Troy Lane (CSAH 101). The project area is 8.2 acres in size and includes two phases of construction. Phase I is 236 apartment units on 6.0 acres located on Lot 1, Block 1, Southwest Crossroads 2nd Addition. Phase II is a future 76-unit apartment building located on 2.2 acres in Outlot C of this development. The Commission will review this project for conformance to rules D, E and I. Findings with no recommendations dated November 15, 2017, were provided to the applicant and City. The applicant requested and was granted an extension of the deadline (per MN statute 15.99) to December 31, 2018.

2017-044 Reserve at Medina 2nd Addition, Medina. An erosion control review of the plans for the final buildout of this addition of the Reserve at Medina project originally approved under permit #2013-002. This addition is located southeast of Hackamore Road and Pinto Drive (CR116), immediately east of the First Addition, and will allow for the construction of 46 new single-family homes. The plans are in conformance with the previously approved project, and require small modifications in order for Staff to complete its administrative review. As of this writing, revised plans have still not been received. Staff placed its third inquiry with the city and applicant on July 3 as to when these may be expected. Previous inquiries have not received responses.

2017-045 Fish Lake Estates, Maple Grove. This is a small subdivision located at the intersection of the Weaver Lake Road entrance ramp to east bound I94 and Fish Lake Road East. The application is considered incomplete because the Commission has not received authorization from the City to proceed with its review. The City has concerns with the lot layout, wetland impacts and stormwater management. No new information has been received as of this report.

2017-046W Wessell Property Wetland Delineation, Corcoran. This is a wetland delineation received for the Commission's review and decision for a 155-acre site located in the northwest quadrant of Hackamore Road and CSAH 116. The WCA application notice has been issued. The application is considered incomplete at this time. Staff met with the delineator on-site and walked the wetland boundaries. Staff requested additional historic aerial photo reviews and the complete report prior to a final decision. Neither have been received.

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2017-048W Ebert Parcel Wetland Delineation, Corcoran. This application was submitted without a final delineation report and is considered incomplete. The applicant requested the LGU look at the site prior to freeze up. Once a final report is received Staff will notice the delineation and move forward with the application.

2017-050W Ernie Mayer Wetland/floodplain violation, Corcoran. The Commission was informed of a potential wetland violation occurring on four parcels in Corcoran. Initial site inspection appears to confirm the wetland violation. An access road was constructed from Larkin Road into these parcels. The road appears to be constructed in MN Wetland Conservation Act jurisdictional wetlands within the Rush Creek floodplain. A Technical Evaluation Panel (TEP) met onsite on December 11 to advise the Local Government Unit (the Commission) as to the extent of any violation and the development of a restoration order for any violation that has occurred on this site. An informational meeting with the TEP and applicant was held on January 30, 2018. Another TEP was held May 22, 2018, *for the field investigation. In addition to the road work wetland filling, extensive ditching and drain tile installation was verified on site. All this work appears to be in violation of Commission permitting and WCA requirements. TEP findings (included in packet) were provided to all parties concerned. Mayers requested another TEP to provide additional information to the panel. The TEP meeting is scheduled for July 20.*

2017-053 Sunrise Solar Garden, Corcoran. The project proposes to construct a 5 Megawatt Solar Facility on an 80-acre site located northwest of the intersection of County Roads 50 and 19. Staff received a request to modify aspects of the wetland impacts on the site and has considered the request with input from BWSR. Based on input from BWSR, the requested modifications are in conformance with the requirements of WCA, and a revised wetland Notice of Decision was issued in May. *This item will be removed from the report.*

2018-004 Rush Creek Restoration Project, Maple Grove. The City is proposing to restore 2,400 feet of Rush Creek just north of Territorial Road adjacent to the Enclave on Rush Creek development. This is within the Three River Parks corridor that was obtained when the development was platted. It is being reviewed for compliance to the Commission's grading and floodplain requirements. Staff has completed its review. *This item was pulled from the agenda at the Commission's June meeting due to concerns from a partner agency. As of this report, no further progress or communication has occurred and will not be brought forward for the Commission's review until the parties have reached agreement on proceeding.*

2018-005 Sundance Greens, Dayton. This site consists of seven parcels totaling 310 acres. Approximately half is the Sundance Golf course and the other half is agricultural land. The applicant is proposing a long term, phased residential development with 665 residential units while maintaining a portion (9 of the 18 holes) of the golf course. Total new impervious area will be 71 acres. The site is being reviewed for Commission Rules D, F, and I. Staff's review and findings dated February 23, 2018 were provided to the City and applicant. Because the plans do not meet the Commission's requirements no recommendations were given. The decision deadline per MN 15.99 was extended by Staff to June 2, 2018 giving the applicant the opportunity to respond to their findings. An email was sent on May 30 to the applicant and his agent giving notice of the June 2, 2018 deadline. *The applicant requested and was granted an extension to August 11, 2018.*

2018-007 Copper Creek of Nottingham, Maple Grove. This is a 4.03 acre in-fill project in the Nottingham development section of Maple Grove. It is located about 1/4 mile northeast of the intersection of Nottingham Parkway at Bass Lake Road along 73rd Place/Xene Lane cul-de-sac. Nine new single family residential lots are proposed. The current site plans dated February 12, 2018 do not meet the Commission's standards for water quality, abstraction and erosion controls. Staff's review and findings were sent to the City and applicant on March 6. *The decision deadline per MN Statute 15.99 expired on June 20, 2018. Staff requested the applicant extend the deadline. No new information has been received.*

2018-008 Hayden Hills Golf Course Subdivision, Dayton. This is an 85 acre golf course that is proposed to be developed into 238 single family residential lots. The original submittal was received March 1 and all materials to complete the application were received on March 23. The proposed project meets the Commission's standards for water quality, runoff rates, and erosion control; however the proposed stormwater ponds will have a direct connection to the

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groundwater. In findings dated May 9, 2018, Staff recommended approval of the project with three conditions: 1) Developer must provide additional information about the modeling, including additional information about curve numbers used for the modeling and additional explanation about the existing conditions modeling and how the 2-, 10-, and 100-year peak flows are essentially identical; 2) Developer must indicate on Plans where pretreatment sump manhole and baffles are to be constructed and provide typical detail for sump manholes; and 3) Developer must provide resolution of potential wetland impacts within the project area and certification that proper mitigation will be provided. The Commission approved Staff's recommendations and further recommended that a determination be made regarding the requirement of an operations and maintenance agreement and that the City carefully review the expressed drainage concerns. The developer has met conditions #2 and #3, and Staff has been in contact with City staff regarding the additional recommendations.

2018-009 NW Greenway Trail, Phase IV, Plymouth. This section of the Plymouth NW Greenway Trail is a boardwalk and trail that will cross a portion of the Elm Creek floodplain that is adjacent to Peony Lane near Wayzata High School. Staff will review for compliance to the Commission's floodplain and erosion control requirements. Site plans were received March 1. *Staff completed its review and recommended approval with no conditions. This approval was granted at the Commission's June 13, 2018 meeting. This item will be removed from the report.*

2018-012 Meadows Playfields, Plymouth. Complete plans and signed application were provided to the Commission in May. The proposal is for the development of a playfield with approximately 0.6 acres of new impervious surfaces on a roughly 3-acre site located northwest of Peony Lane and 57th Avenue North, located in the Enclave on the Green development site. Staff is reviewing the application for conformance with Rules D and E of the Third Generation Plan. *Staff reviewed this site for conformance to the adjacent development plans and approved the plans administratively. This item will be removed from the report.*

2018-013 Wayzata Elementary School #9, Plymouth. This site is the southwest 24-acre area of a 73-acre parcel. The property was subdivided into a phased 111 residential subdivision on 49 acres last year (ECWMC project 2017-036, The Enclave of Elm Creek) with this area site to be reviewed and approved when submitted. Stormwater was designed and approved by the Commission with both projects as one management system, but the final plans for the school site had not been determined at the time of the Enclave review. The approval for project 2017-036 was contingent upon, a) the school project review and approval or b) an alternative abstraction design be implemented in the residential project. This submittal is for the school project review and approval. The Commission review for the Elementary School site will be for rules D, E, F and I. Staff has reviewed revised plans and recommends conditional approval of this project. Project findings and recommendations are provided in the meeting packet.

2018-014 Fehn Meadows 2nd Addition, Corcoran. The site is currently a 63-acre agricultural property located west of Cain Road on CR 117. The applicant proposes to subdivide the site into 14-residential lots. Public road and trail access will impact one wetland basin in two location, totaling 15,687 SF of type 1 wetland impacts. Replacement at a 2:1 ratio in Bank Service Area 7, Major Watershed 18-N.Fork Crow River is proposed. The wetland replacement plan has been noticed per WCA requirements. Comments will be accepted until May 25. Staff has completed the project review but does not have a recommendation as of this update. The TEP has discussed the wetland replacement plan and is in agreement that the sequencing analysis per WCA requirements is adequate and impacts are justified. They do have a concern about the location of the replacement wetlands. Commission staff also has concerns. Commission guidelines are that 1:1 replacement be in the ElmCreek Watershed area or, if no credits are available, in Hennepin County. TEP concerns are that this site is in wetland bank service area (BSA) 20 and the replacement is proposed in BSA 18. *Staff extended the review deadline to August 22, 2018.*

2018-015 Laurel Creek 2nd Addition, Rogers. This is an erosion control review of the plans for another phase of the Laurel Creek project originally approved under review #2017-014. This addition is located southeast of Hackamore Road and Pinto Drive (CR116), immediately east of the First Addition, and will allow for the construction of approximately 72 new single-family homes and 64 townhome units, and rough grading for 20 lots in a future phase. Staff has reviewed the project plans, found them in conformance with the Commission's rules and standards, and granted administrative approval of the plans. *This item will be removed from the report.*

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2018-016W Krueger Wetland Delineation, Corcoran. This is a 1.55 acre parcel located at the northwest intersection of CR101 and Schutte Road. One Type 3 wetland basin was delineated on the parcel on April 27, 2018 by Ag Wetland Services Inc. The project area was reviewed for wetland boundary and type. Staff made a site visit and found the wetland boundary/type to be accurate. *The wetland boundary/type was approved and noticed by Commission staff. This item will be removed from the report.*

2018-017W Larkin Road Wetland Delineation, Corcoran. This is a 15.7 acre parcel located at 20801 Larkin Road. One Type 2 fresh marsh wetland basin was delineated on the parcel on April 30, 2018 by Anderson Engineering. The project area was reviewed for wetland boundary and type.. BWSR and Commission Staff made a site visit and found the wetland boundary/type to be accurate. *The wetland boundary/type was approved and noticed by Commission staff. This item will be removed from the report.*

2018-019W Fuss Wetland Delineation, Corcoran. This is a 19.5 acre parcel located at 8100 County Road 19. The project area is between the county road right-of-way and a large pole shed approximately 360 feet east of the right-of-way. No other areas were delineated. One type 3 shallow marsh wetland boundary was delineated. During a field review, one additional wetland was determined to be within the limits of the delineation. *Updated wetland delineation boundaries and data sheets were received on the other wetland. Staff concurred with the revisions and approved and noticed it per WCA requirements. This item will be removed from the report.*

2018-020 North 101 Storage, Rogers. This is an existing 3-acre lot in the northwest corner of Highway 101 and CR144. The current land use is a combination of mini-storage units and outdoor storage. The site is proposed for complete demolition and the construction of seven new mini-storage buildings. Site plans must comply with Rules D and E. Because the project is disturbing over 50% of the site area (100% actual), Staff review will be the same as for a new development and stormwater management plans must comply with all impervious areas, not just the new impervious area. *Updated findings and a recommendation will be provided to the Commission at their meeting.*

2018-021 113th Lane Extension/Brockton/101, Rogers The City of Rogers is proposing to extend 113th Lane to provide a second access to the proposed second phase of the Laurel Creek Development. The proposed road will extend from Brockton Lane to the development entrance. It will include a 4-lane divided roadway from Brockton Lane to the development entrance; an off-road trail north of 113th Lane; and construction of an intersection to meet County turn lane requirements. The project will create 2.13 acres of new impervious surface. *Staff has been in contact with the City and the project engineer in the process of reviewing the project. A summary and recommendation is anticipated at the July meeting*

2018-022 Fernbrook Fields, Maple Grove, The City of Maple Grove is planning to construct athletic fields in the southwest intersection of 99th Avenue N. and Fernbrook Lane N. This project site is 19 acres in size and will consist of constructing four full-size, multi-purpose athletic fields. Staff site review will be for compliance with the Commission's Rules D, E and I. *If available, findings and a recommendation will be provided to the Commission at their meeting. If findings and a recommendation are not available at our July meeting, the applicant requests administrative approval for their grading and erosion control plans assuming the risk of changes necessary to conform to the Commission's final decision.*

2018-023 King Solutions Distribution Center, Dayton. This site is in the Wicht industrial Park. A 97,750 SF commercial/industrial building and its associated parking and utility construction are proposed. Regional ponding was constructed as part of the overall stormwater management plan. Review will be for grading, erosion controls and conformance to the original stormwater management plan assumption. *Staff will review administratively.*

2018-024 Schober Wetland Delineation, Corcoran This is a 111-acre area west of Brockton Lane (CR 101) along Stieg Road. Staff review will be for the wetland boundaries and types in these parcels. Staff has sent out the public notice of wetland application and will review the field boundaries for consistency to WCA requirements.

2018-025 Watten Wetland Delineation/Replacement Plan, Corcoran. *This is an application for a wetland boundary/type determination, wetland replacement plan and the sequencing analysis of said plan. This is a 5-acre flag-lot on CR 10. Kjolhaug Environmental Services did the wetland delineation on December 12, 2017 with a follow-up visit on May 2, 2018. Anderson Engineering completed the wetland replacement plan for construction of a residential gravel driveway (12' wide) for access to the buildable area. Pending boundary concurrence of the Kjolhaug delineation, 6,280 sq. ft. (0.1442 acres) of wetland 1 will be impacted. 0.2884 acres of wetland banking credits are proposed to be purchased from B. Engstrom bank account 1643 (major watershed #20, BSA 7) for replacement of the impacts. Staff has sent out the public notice of wetland application and will review the field boundaries for consistency to WCA requirements. The replacement plan will come to the Commission for their decision after the public comment period expires, most likely at their August meeting.*

2018-026 Windrose, Maple Grove. *This is a proposed 8.5 acre townhome site is in the east quadrant of CR 101 and Bass Lake Road. The stormwater management plans for this area were approved by the Commission for their 2nd generation stormwater management plan,, but never completely constructed. Staff site plan review will be for the Commission's 3rd Generation SWMP requirements. This site plan was received too late for Staff to review and provide the Commission recommendations for the July meeting.*

2018-027 CR202 Bridge, Dayton. *This is a replacement bridge on Elm Road in the Elm Creek Park Reserve. Staff has been working with the DNR and Hennepin County on the floodplain issues as they relate to the replacement. Staff review is for floodplain impacts, erosion and sediment controls. Staff is working to complete the review and, if available, will bring an update or recommendation to the July Commission meeting.*

2018-028 Tricare Third Addition, Maple Grove *This is a 2.1 acre area that will be split out of an 85 acre parcel north of CR 30 at 96th Avenue and Dunkirk Lane. An 18,000 SF commercial retail building with its associated parking and utilities are proposed. The Commission's review will be for compliance to rules D, E and I. This site plan was received too late for Staff to review and provide the Commission recommendations for the July meeting.*

2018-029 McConn, Plymouth. *This is a 6-acre parcel proposed to be developed into 8 residential lots. It is located on the north side of CR 47 between Vagabond and Urbandale Lanes. The Commission's review will be for compliance to rules D, E and I. This site plan was received too late for Staff to review and provide the Commission recommendations for the July meeting.*

FINAL RECORDINGS ARE DUE ON THE FOLLOWING PROJECTS: *Staff requested updates from the cities on June 6, 2018.*

2015-030 Kiddiegarten Child Care Center, Maple Grove. Approved December 9, 2015. If the City does not take over the operation and maintenance of the underground system and the sump catch basins, an O&M agreement for the underground trench/pond system must be approved by the Commission and the City and recorded with the title.

2016-052 The Woods at Rush Creek, Maple Grove. At their March 2017 meeting, the Commission approved Staff's findings and recommendations dated February 15, 2017. Outstanding items are the biofiltration pond, O & M plans, and recording.

2017-014 Laurel Creek, Rogers. At their June 14, 2017 meeting the Commission approved this project with four conditions. All contingency items have been provided with the exception of the O&M agreement which is being negotiated by the City as to whether the City or the HOA will be responsible for the operation and maintenance of the stormwater management facility. In his August 31, 2017 email, Andrew Simmons responded that the O&M agreement is still being negotiated.

2017-016 Territorial Woods, Maple Grove. Approved at the September 13, 2017 Commission meeting contingent upon receipt of an O & M agreement meeting the Commission's rules. The agreement was approved by the City and is in the process of being recorded.

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2017-017 Mary Queen of Peace Catholic Church, Rogers. At their June 14, 2017 meeting the Commission granted Staff approval authority pending satisfactory compliance with Staff's findings. All items from the findings have been completed with the exception of the O&M agreement for the stormwater facilities. In his August 31, 2017 email, Andrew Simmons responded that he has the O&M agreement in hand, just awaiting recordation. On June 7, 2018 Simmons reported that the *Church is in the process of revising stormwater management plan for site to include water reuse instead of biofiltration pond. Commission should receive a revised application in near future. There are also underlying utility easement issues with this project that are holding up the final recording of the plat against which to record the maintenance agreement.*

2017-019 Medina Senior Community, Medina. This item was approved at the Commission's September 2017 meeting subject to conditions. All of the conditions have been met with the submission of revised plans, with the exception of the final recordings of the O&M agreements and easements. *On June 6, 2018, city staff reported that the applicant is anticipated to be recording documents and starting construction in the summer.*

2017-021 Hindu Society of MN, Maple Grove. At their June 14, 2017 meeting, the Commission approved this project per Staff's recommendations. All the recommendations have been met with the exception of the O&M plan agreements.

2017-029 Brayburn Trails, Dayton. At their August 2017 meeting the Commission approved Staff's findings dated August 2, 2017 with five conditions. All of the conditions have been met with the submission of revised plans, with the exception of the final recordings of the O&M agreements and easements. On March 7, 2018, the City reported: Final plat approval has not been granted, easements will be recorded as plats are approved. Ponds will be maintained by the City of Dayton. An agreement, and additional easement, will be required for a water re-use system within one of the ponds (between the City and HOA). This system is not part of the first addition – the timing of said improvements/agreement is unknown. Construction is expected to start in 2018.

2017-034 Plymouth Memory Care, Plymouth. This project was approved by the Commission at its September 2017 meeting subject to the receipt of an O&M agreement acceptable to the Commission. *On June 7, 2018, city staff reported that the applicant is working with City Staff to finalize the maintenance agreement. It is anticipated the agreement will be recorded by July.*

2017-037 Corcoran L-80 Lift Station, Corcoran. Staff recommended the Commission approve this project contingent upon the project meeting the Commission wetland buffer requirements. This item was approved by the Executive Committee of the Commission in October 2017. Revised plans meet the Commission's buffer requirements with the exception of the final easement recordings. On March 6, 2018, city staff informed the Commission that they are working with a land surveyor and will complete the recordations before construction is completed.

2017-038 Bass Lake Estates, Corcoran. This is a proposed residential development consisting of 55 single family lots and one commercial lot on a 40-acre site. At their March 14, 2018 meeting, the Commission approved Staff's findings dated March 13, 2018 which recommended approval contingent upon the applicant recording the maintenance agreements and easements within 90 days of final plat recording.

2017-051 Mallard South 2nd Addition, Rogers. The Commission approved this project at their January 2018 meeting. The only remaining condition for final approval is the easement and O&M plan recordings on the bio-filtration basin. *The recordings were received in the Commission office on June 7, 2018. This item will be removed from the report.*

2018-001 Rush Creek Commons, Maple Grove. Approved at the February 14, 2018 meeting contingent upon meeting the Commission's operation and maintenance requirements on the stormwater facilities, i.e., all ponds and biofiltration basins must have drainage and utility easements and operation and maintenance agreements over them. These must be recorded on the property title and a copy of the recordations must be provided to the Commission within 90 days after final plat approval.

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2018-018 Summers Edge Phase III, Plymouth. This is a 15-acre parcel located at the northeast corner of the intersection of Brockton Lane and Medina Road. The proposed development consists of 45 single-family homes on a parcel that is currently vacant. Staff review was for compliance with rules D, E, and I. *The Commission approved Staff's recommendations dated June 12, 2018 at their June 13 meeting, subject to receipt of final easements over the wetland buffers within 90 days of final platting in a format acceptable to the Commission.*

LOCAL PLANS

Maple Grove Draft Surface Water Management Plan. Staff reviewed the City of Maple Grove's Draft Surface Water Management Plan dated January 2018. Their comments were included in their letter to the City dated March 7, 2018.

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Watershed Management Commission

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Wayzata Elementary School #9 **Plymouth, Project #2018-013**

Project Overview: This site is the southwest 24 acre area of a 73 acre parcel located on CSAH 101 and Prairie Creek Rd, about ¾ miles north of TH 55 (PID=0611822320001). The property was subdivided into a phased 111 residential subdivision on 49 acres last year (ECWMC project 2017-036, The Enclave of Elm Creek) with the remaining school site to be developed at a later date. Stormwater was designed and approved by the Commission with both projects as one management system, but the final plans for the school site had not been determined at the time of the Enclave review. The approval for project 2017-036 was contingent upon, a) the school project review and approval or b) an alternative abstraction design be implemented in the residential project. This submittal is for the school project review and approval. The Commission review for the Elementary School site be for Rule D (Stormwater Management), Rule E (Erosion and Sediment Control), Rule F (Floodplain Alteration) and Rule I, (Buffer Strips). The City of Plymouth, through their wetland ordinance will cover Rule G (Wetland Alteration).

Applicant: Wayzata Public Schools, 210 County Road 101, Wayzata, MN 55391. Phone: 763-745-5150. Email: jon.deutsch@wayzata.k12.mn.us.

Engineer/Agent: Anderson-Johnson Associates, Inc., 7575 Golden Valley Road, Suite 200, Minneapolis, MN 55427. Phone: 763-544-7129. Email: mike@ajainc.net.

Exhibits:

- 1) Elm Creek Watershed Management Commission Request for Plan Review and Approval. Received April 23, 2018.
- 2) \$6,150 in fees for 24 acres of Commercial/Industrial/Institutional/Government Agency development projects.
- 3) Stormwater Management Plan for Speak the Work Church Development by Advanced Engineering and Environmental Services Inc., dated July 2017. Updated HydroCAD model information labeled Sathre Church Property dated 2018-03-14
- 4) Civil site plans for the Wayzata New Elementary School #9 by Anderson Johnson Associates, Inc., unsigned, dated March 28, 2018 with the latest revision date of June 6, 2018.
 - a. Sheets C1.11 & C1.12, Tree Removals and Wetland Filling Plan
 - b. Sheet C1.21 & C1.22. Site Plans, North and South
 - c. Sheet C1.23 & 1.24, Signage and Striping Plan North and South

Wayzata Elementary School #9 (2018-013)
 Plymouth
 June 20, 2018

- d. Sheet C1.25, Fire Truck Motions.
 - e. Sheet C1.31 & 1.32, Grading and Drainage Plan, North and South
 - f. Sheet C1.41 & 1.42,, Utility Plan, North and South
 - g. Sheet C1.43, Fire Protection Plan
 - h. Sheet C1.51 & 1.52, Sediment and Erosion Control Plan, North and South
 - i. Sheet C1.61, Southwest Trail Plans (including selected SWPPP narrative excerpts)
 - j. Sheet L1.11 & L1.12, Landscape Plan, North and South
 - k. Sheet L2.11, Irrigation Coverage Plan
 - l. Sheet L2.21, Irrigation Plan South
 - m. Sheet C2.11 to C2.14 Site Details.
- 5) Floodplain Report by Advance Engineering and Environmental Services, dated June 2018.
 - 6) Sheet 8 of 32, Creekside Hills 2nd Addition Dual Culvert Storm Sewer under Yellowstone Lane, last revision date of June 20, 2017.
 - 7) Post development floodplain topography and cross-section plan sheet, last revision date of June 20, 2017.

Findings:

- 1) A complete application was received April 23, 2018. The initial 60-day review period for a decision from the ECWMC, per MN Statute 15.99, expires on June 22, 2018.
- 2) Fees associated for our review are based on the total site area and project type. Based on plans submitted last year for project 2017-036, \$8,620 in fees covered the complete parcel area of 73 acres and included 24 acres of institutional development, 49 acres of low density residential development and floodplain review. Thus, a refund of \$6,150 for fees submitted this year is due the applicant.
- 3) Per the ECWMC 3rd generation stormwater management plan, rules and standards, the complete site will be reviewed for stormwater management (Rule D), floodplain alteration (Rule F) and buffer strips, (Rule I). Grading, erosion and sediment control reviews will be provided only on the residential portion of this parcel.
- 4) The general drainage for this site consists of:-
 - a. Currently the school site area drain south into an existing wetland and its associated floodplain/ditch. This then flows east and south before connecting into the main stem of Elm Creek 1,600 feet from this project behind the Wayzata High School. The rest of the site (40 acres \pm) flows north to DNR wetland 455W.
 - b. Proposed conditions will take the school site (21.56 acres) and 4.95 acres of residential area to the south existing wetland and its associated floodplain/ditch. The school site proposes to treat their own water in pond that will also be used for irrigating 15.3 acres of turf on their property. The 4.95 acres residential section will be treated in a filtration basin prior to discharge into the SE corner of the site. The remainder of the 73 acre parcel flows north before discharging into 2 treatment ponds which outlet into DNR wetland 455W.
- 5) Note; The school and residential sites were designed to function as an overall stormwater management system. The residential site was approved last year with the understanding that the schools stormwater management was integral to the system. Because the school

design and construction was not guaranteed at that time, alternative abstraction in lieu of the schools stormwater management plan was approved in the case the school did not proceed. With this review, the alternatives will not be necessary and the stormwater design is being reviewed as a whole. The function of the school pond will provide 93,642 cubic feet of volume abstraction (through the use of irrigating 15.3 acres) in addition to the 36,598 cubic feet of filter volume abstraction provided by the ponds/filter basins in the residential development in this site.

6) Rate Controls

- a. The existing and proposed land use runoff rates will be as follows:

	2-Year (2.87") Runoff Rate (cfs)	10-Year (4.27") Runoff Rate (cfs)	100-year (7.29") Runoff Rate (cfs)
Pre-Development to South	17.7	41.6	98.0
Post-Development to South	13.9	27.0	50.3
Pre-Development to North	35.3	84.3	196.0
Post Development to North	21.5	50.5	155.1

7) Volume and Load Controls. As with the rate controls, volume and load reductions are determined, based on the construction of; 1) NURP pond/filter bench 2) NURP pond, 3) Filtration basin, and 4) NURP pond with irrigation of the school site.

- a. Based on these conditions, the overall Tp, TSS and volume loads will meet the Commission standards.

Condition (69.2 acre parcel/ 20.8 acres new impervious area)	TP Load (lbs/yr)	TSS Load (lbs/yr)	Required Abstraction (cu. ft.)	Filtered Volume (cu.ft.)
Pre-development (baseline)	15.5	4,900	NA	NA
Post-development without BMPs	49.1	15,318	83,050	NA
Post-development with BMPs	15.2	2,123	93,643	36,598
Net Change (baseline compared to post- development w/ BMPs)	-0.3	-2,777	-10,593	-36,598

8) The Wayzata School District will be responsible for the stormwater facilities on their property. An operation and maintenance agreement for the school pond must be approved by the City and Watershed and recorded on the property.

9) Wetlands and Wetland Buffers;

- The City of Plymouth is the LGU in charge of administering the MN Wetland Conservation Act within their jurisdiction. Two areas of exempted incidental wetland will be filled(74,708 sq. ft.) and two areas of jurisdictional wetlands will be filled (15,887 sq. ft.).
- A 10' minimum and 25' average wetland/water course buffer is required on the site.
- Wetland and watercourse buffers meet the Commissions Standard.

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10) Floodplain.

- a. There is a FEMA zone-A floodplain along the south property line of this parcel. Based on the AES floodplain report dated June 2018, the 1% flood elevation will vary along the south property line from 957.7 at the new Yellowstone Lane section on the east side of the site, up to 968.1 at the west end of the property.
- b. Based on the new floodplain report, no grading will occur in the 100-year floodplain of the FEMA Zone A area on this site. The roadway culverts are designed so no increase in floodplain will occur above or below the road. No floodplain mitigation is necessary for this project.

11) Grading, Erosion, Sediment and Landscaping plans meet the Commissions standards.

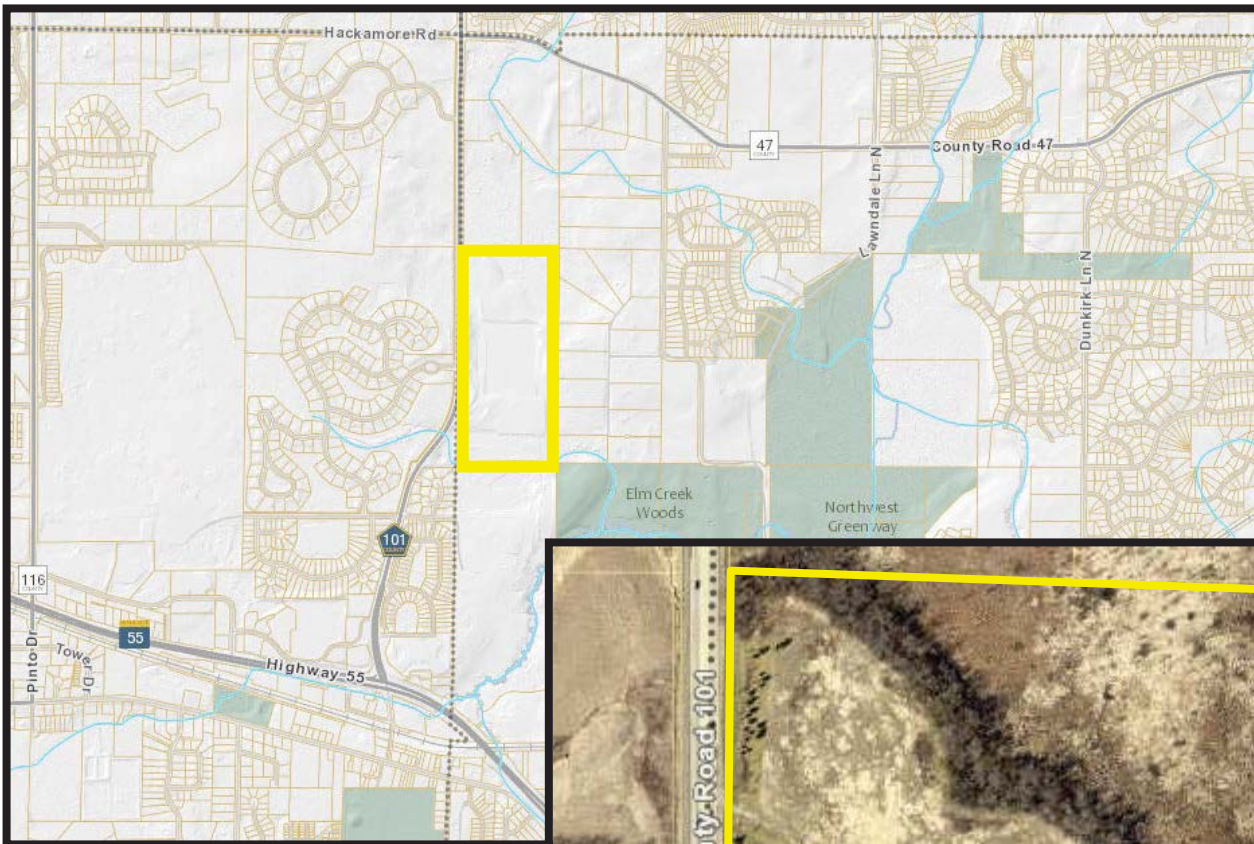
Recommendation: Approval; conditioned that, an approved stormwater basin, operation and maintenance plan is recorded on the land title for this property within 90-days of the final plat recording.

Hennepin County
Department of Environment and Energy
Advisor to the Commission

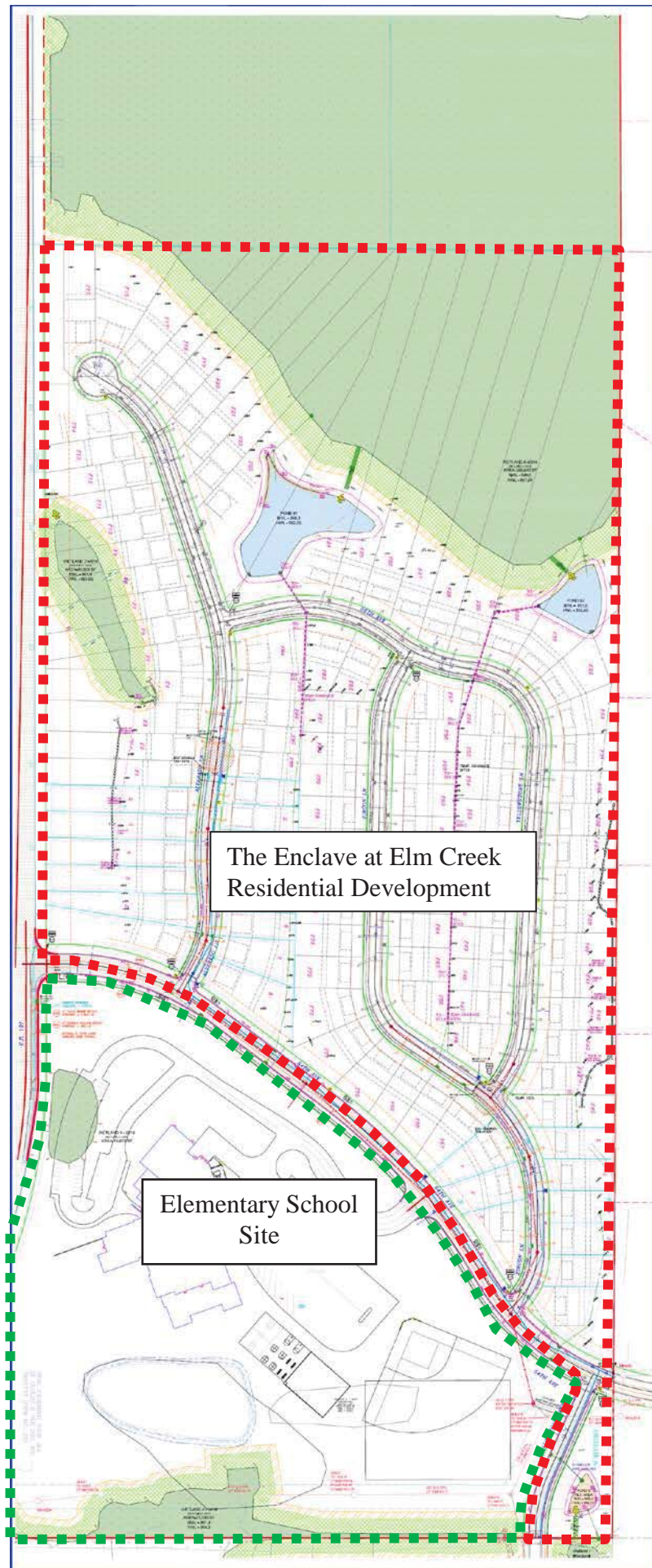


June 20, 2017
Date

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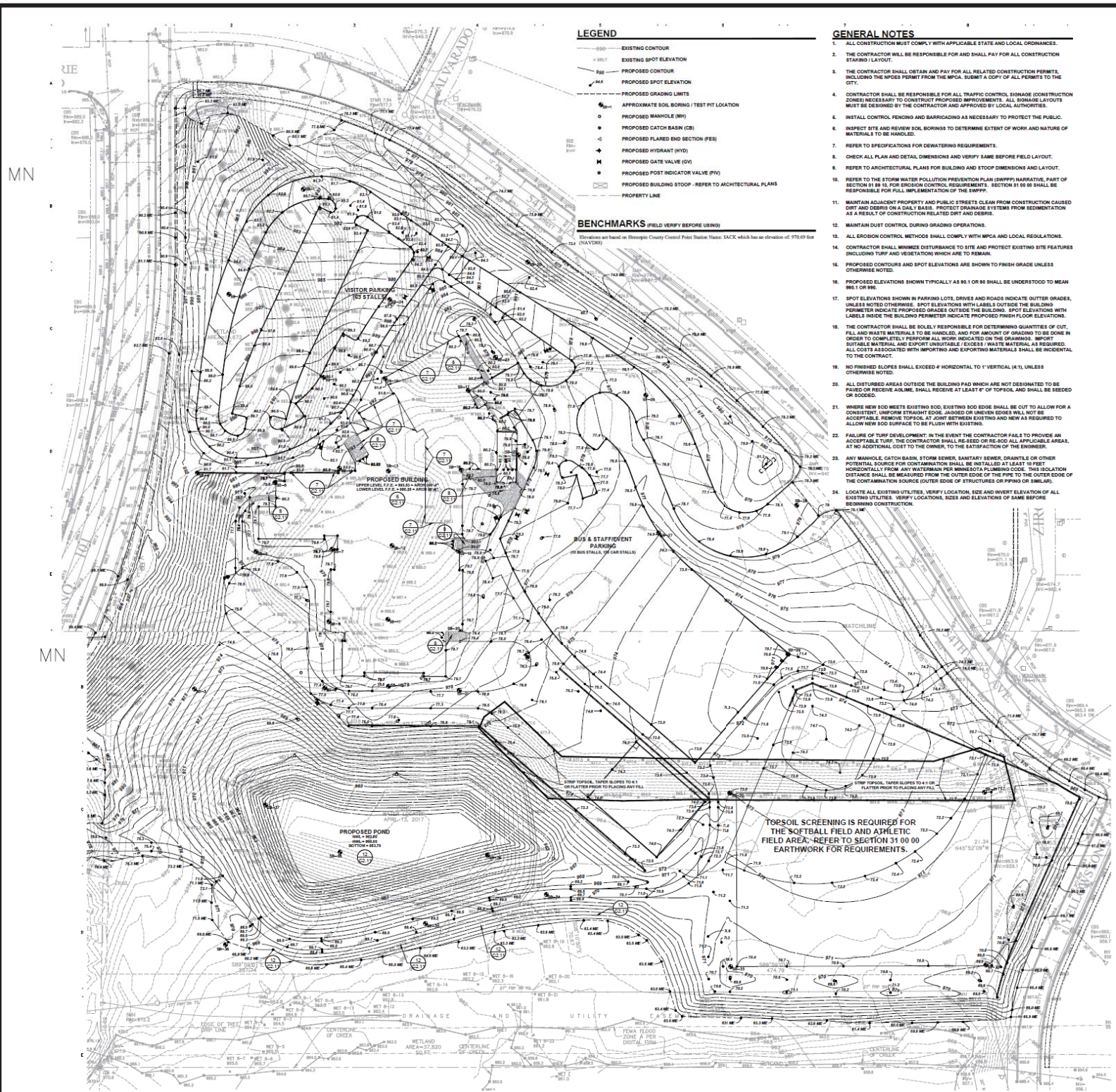


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Figure 3. School Site Grading



Ernie Mayers TEP Findings May 22, 2018

Background

The Elm Creek Watershed Management Commission is the Local Government Unit (LGU) in charge of administering the 1991 Wetland Conservation Act (as amended) in the City of Corcoran. A cease and desist order (F890599734501) was issued to Mr. Mayers in December 2017.

On Tuesday May 22, 2018 at 11:00 a.m. the Technical Evaluation Panel for the Elm Creek Watershed Management Commission met on site to investigate potential wetland violation(s) that occurred on the following properties in Corcoran 1) 2811923410009, 2) 2811923130002, 3) 2711923220002 4) 2711923230002 5) 2811923220002. Ernie Mayers operates all parcels.

TEP members present were;

Ben Carlson (BWSR)
Stacey Lijewski (Hennepin Co. SWCD)
James Kujawa (ECWMC-LGU)
Jason Spiegel, (MN DNR) from approximately 11:00 to 12:35.

Others present were;

Leah Weyandt DNR (Conservation Officer)
Ben Hodapp, (Anderson Engineering)
Kevin Mattson (City of Corcoran) from approximately 11:45 to 12:35.
Jason Swenson (Hennepin County/ECWMC)

The May 22, 2018 TEP was requested because the previous two TEP's determined additional work was warranted during the growing season to determine wetland boundaries and potential wetland drainage from the newer ditch work and draintile pipe observed at the December TEP.

The areas of concern are as follow; **NOTE; See area overview on page 6**

- 1) An access road was constructed in 2017 from Larkin Road, approximately 1,400 feet to the north and east into these parcels. Two additional roads areas were stubbed off the main access road, apparently to gain access to an upland island area to the west of the access road. The southerly road stub is approximately 450' long. The northerly stub is approximately 200' long. The TEP was on site to make a determination of the extent of wetland impacts that occurred from the access road work.
- 2) A newly constructed ditch approximately 1700' long that ends at County Ditch #3 was observed during the TEP in December. The TEP wanted to gather additional information on this ditch and the affects it had on potentially draining wetlands adjacent to it
- 3) Near the south extent of the ditch work, a newer 8" plastic tile outlet pipe was observed during the December visit. The TEP was on site to determine if a drainage system was installed east of the new ditch toward Kalk Road and if it was installed in compliance with the WCA.

Information and Findings

1) Area of Concern #1, Road Access Work;

- a) During the TEP, it was brought to their attention that at the northerly terminus of the new access road, Anderson Engineering conducted a wetland delineation in the fall of 2016. Some of the wetland boundary flags were still present and confirmed to be accurate by the TEP. Because this delineation was done prior the access road construction, and not all of the delineation flags were apparent, the TEP asked for a copy of the wetland delineation report from Ernie Mayers. This could help the TEP establish the wetland boundary and amount of impacts from the new road footprint and other impacted (filled) areas. The request was made via email, May 22nd and the delineation report was received via email, from Mr. Mayers consultant May 23rd. The TEP decided to use this report to determine the extent of wetland filling that occurred in this area. Based on the road footprint from 2017 aerial photographs and the wetland boundary delineation from Anderson Engineering, the Wetland fill is measured at 5,842 sq. ft. on this area (see exhibit A). The TEP concluded that this activity occurred without a permit from the LGU and does not comply with the 1991 Wetland Conservation Act (as amended).
- b) At the southerly stub road, soil borings, vegetation observations and hydrology indicators were obtained/observed by the TEP to determine the wetland boundaries at this location of the access road. In the new roadbed itself, soil borings determine approximately 18" of new fill over an old roadbed that had approximately 6 inches of old fill in it before wetland soils were encountered. The TEP agreed that the old road footprint could be considered non-wetland if historic photos were consistently dry, but where fill was placed beyond the old roadbed, that would be considered wetland impacts within the limits of the wetland boundary determined in this area. Measurements of the old roadbed width and wetland impacts will be determined by historic aerial photo reviews. The historic photo review determined a section of the old road bed was historically wetland prior to the current access road work.
Some ditching work was observed upstream and downstream of the new roadway culvert installed by Mr. Mayers on this section of road. The TEP felt the ditching work, in its present condition, did not drain the existing wetlands in the area because of the lack of grade on it and the water was backed up from the downstream end of the ditch up to the beginning of it (about 90'). The ditch work stopped approximately 25' downstream of the culvert outlet on the new road. Final wetland boundaries were delineated by GPS by Ben Carlson with BWSR. (see exhibit B) The TEP concludes that the footprint of the new road, outside of the boundary of the old road footprint is the wetland impacts for this area. The TEP concluded that this activity occurred without a permit from the LGU and does not comply with the 1991 Wetland Conservation Act (as amended). The amount of impact was measured at 1,283 sq. ft. for this area of the access road (see exhibit C).
- c) At the entryway access road area, the TEP looked at the vegetation, soils and hydrology to determine the wetland boundaries. Ditching work that appears to be done at the time the road was constructed was also observed along the east side of the road. The TEP determined portions of the roadway was constructed in a wetland. The TEP wanted to determine if the ditch work assisted in partially draining this wetland area. The ditch section nearest the wetland area was measured at 6' wide by 32" deep. The bottom 18" was freshly dug bare ground and remaining 14" was undisturbed grass/sod from the old

ditch elevations. The TEP felt the ditch work did help in draining the wetland and should be restored to its original elevations. The approximate area of wetland that existed prior to this work was determined to be approximately 0.55 acres, based on historic aerial photographs of the area (see Exhibit Ca). If Mr. Mayers cannot determine the original elevations, the TEP's direction was to refill the ditch to the original sod line. Any new work in the ditch should match the existing grade line in the wetland (unless proof can be shown that it was historically deeper) and gradually dig it to 1.0' below the existing sod elevation at the tree line. Final wetland boundaries were delineated by GPS by Ben Carlson with BWSR. (see exhibit D). The TEP concludes that this activity constitutes a violation of the 1991 Wetland Conservation Act (as amended). Wetland impacts in this area that were caused by the access road were measured at 2,349 sq. ft.

2) Area of Concern #2, Ditch Construction.

- a) The TEP measured the depth of water, depth of ditch and top width of ditch at each power pole along the length of the ditch. (see exhibit E). Based on the observed soils in the ditch and the observed sod line on both sides of the ditch, the TEP felt the section of the ditch between the existing County Ditch 3 intersection and the 4th power pole south of it was all newly dug ditch. The TEP concluded the new ditch constructed between County Ditch 3 and the fourth power pole south of said ditch (for a distance of ~1,175 feet) has partially or wholly drained adjacent wetlands, including the DNR wetland 420W. Based on site history, aerial photographs and topography maps, they further concluded that the ditch has never connected its total length (1700'). They also concluded the ditch section south of power pole #4 has always flowed into DNR wetland 420W at the current elevation at the base of power pole #4 (see exhibit M). The TEP concluded that the new ditch connections, the lateral affects created by the ditch being dug deeper, and subsequent lower water elevation, constitute draining of adjacent wetlands including portions of DNR Wetland 420W.

Discussion The TEP felt that no conclusive evidence of an existing or historic ditch connection between County Ditch 3 and the existing ditch 1,175 feet south of it appear in historic aerial photographs or topographic maps. The Anderson Engineering analysis (see exhibit F) points to a historic ditch in this area. However, the 1985 Corcoran topography and 2011 LiDAR topography do not indicate this. The TEP also points to the adjacent fence lines, the roadway parallel to the adjacent power line and the snowmobile trail in the 'hillshade' photo, which show similar photographic signatures that the Anderson analysis points out as ditch signatures. The TEP did not believe this to be good enough evidence, in light of all the other aerial photography and topographic evidence. They also felt the ditch signatures on the Anderson 'hillshade' photo were too similar to other signatures to positively be identified as a ditch. The TEP did find a 1974 topographic map that shows a shallow ditch (1 foot deep plus or minus 1') running from approximately the new snowmobile crossing to the overflow swale from the DNR wetland. This ditch length is 370 feet long (see exhibit G). Another point of evidence that a ditch of any significance (>2.0') did not occur in this area is the new snowmobile access road/culvert over the new ditch. The TEP felt if the old snowmobile trail was in the same location, photographic evidence of a culvert or bridge or similar would show up. This is not the case in the historic photographs, indicating to the TEP that if there was a

ditch, it did was shallow enough that it did not need a culvert or bridge for snowmobiles to access both sides of the ditch.

- b) A historic farm ditch runs southeasterly from DNR wetland 420W. This area connected into the main NS section of the new ditch with this new construction work. The TEP measured the newly constructed ditch in the south and east area of the farm. Generally, this ditch varied in depth of 7 feet near the field drive (located about 220' SE of pole #4) to 4'6" deep near the upper (furthest south) end of it. The ditch terminates approximately 500 feet south and east of DNR wetland 420W. A 15" pipe inlets into it the ditch where it terminates. The newly dug section of this ditch varied from 24 inches to 36 inches deeper than the historic sod elevations shown on the side of the ditch (see exhibit H). Although this was historically ditched in the past, the extent and depth of the ditch appear to be deeper than in any of the past aerial photographs dating back to 1940 and has always drained directly into DNR wetland 420W near power pole #4. This ditch terminated at the natural elevation at its junction with DNR wetland 420W (see exhibit I and page 4 of Exhibit M) and was never directly connected into County Ditch #3 as it is now.

The TEP believed this ditch is deeper than its historic depth resulting in draining adjacent wetland areas that were previously not drained and the ditch should be restored to its historic elevation and terminate at the existing, undisturbed elevation at DNR wetland 420W at power pole #4. In addition the TEP felt the historic depth of the ditch is at the old sod line plus or minus 1.0' and must be restored to its historic depth, but match the elevation at the 15" inlet pipe on the south end and the elevation at the DNR wetland 420 near pole #4 on the south end. The new ditch depth in this area most likely lent itself to the tile drainage that occurred east of it, as discussed in item of concern #3 below.

- 3) Area of Concern #3, 8" plastic tile outlet near south end of new ditch construction.
 - a) During the December TEP site visit a plastic tile outlet was observed near the south end of the new ditch construction (mentioned in item 2b above). Based on historic aerial photos and the national wetland inventory, the farm field east of this ditch was historically wet and not drained or cropped. The drain tile observed appeared to the TEP to be newly constructed (assumed to be in the last 5 years or so) and is out of compliance with the MN Wetland Conservation Act unless proof of previous drainage can be provided.
 - b) The TEP walked and measured a tile line that ran from the new ditch, east toward Kalk Road. The TEP observed; a) an 8' tile outlet into the new ditch, b) three 6" surface tile inlets. The western most inlet was 36" deep and connected to an 8" corrugated tile. The middle inlet was also 36" deep, but was connected to a 6" tile line. The easterly most inlet was 30" deep and connected to a 6" tile line. This tile line appeared to be one run of tile all connected to the inlets and outlets observed by the TEP. All the water in the tile was flowing west. (See Exhibit J)
 - c) Because this area was not historically drained (see exhibit K historic land use and NWI), the TEP believes this tile line to be in violation of the MN Wetland Conservation Act and must be removed.
 - d) During past TEP's Mr. Mayers expressed concern about excess water flows onto this section of farm from road drainage work along Kalk Road completed by the City in recent years. The TEP felt if that is the case, they are okay with a unperforated drain tile

installed to pick up this excess water. This would help with the road water issues and not drain the existing wetland between Kalk Road and the farm ditch.

Other Exhibits;

Exhibit L-Photo collage of access road (issue #1 from above)

Exhibit M-Photo collage of ditching (issue #2 from above)

Exhibit N-Photo collage of drain tile work (issue #3 from above)

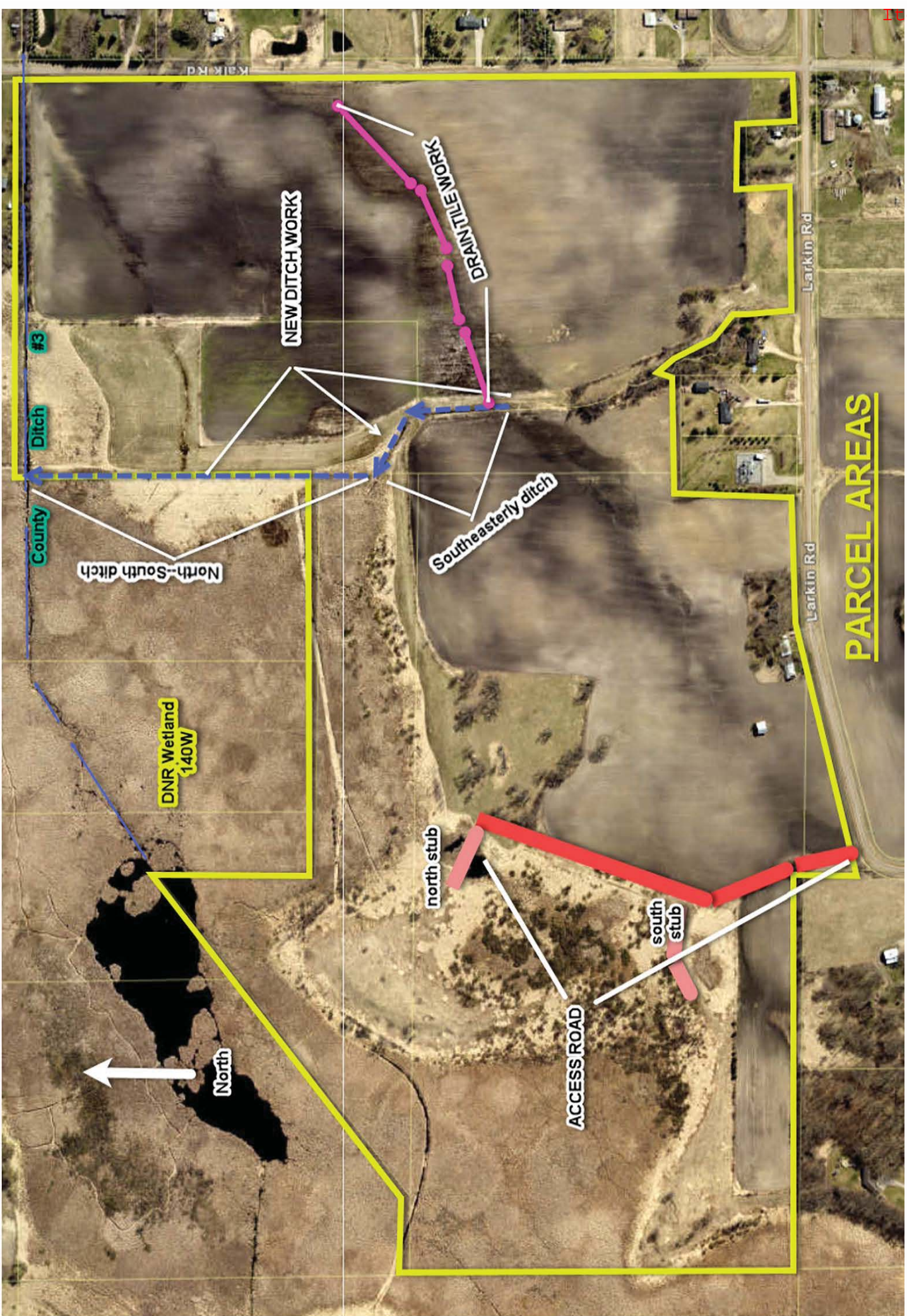
Recommendations

The TEP recommends a restoration order is issued to Mr. Mayers with the following requirements.

- 1) Restore all ditch work ditch to pre-construction elevations or as determined in ditch findings above (see issue item #2 above)
- 2) Remove and restore wetland impacts from the access road construction as determined in road access work findings above (see issue item #1 above) or replace wetland road impacts at a ratio twice the replacement ration otherwise required.
- 3) Restore the ditch section near the entry road to its historic elevations or as determined by the TEP findings in item 1c above.
- 4) Disable the existing drain tile and inlets installed between the ditch and Kalk Road by removing the tile and inlets or by other methods approved by the LGU.
- 5) The work must be completed by July 30, 2018.

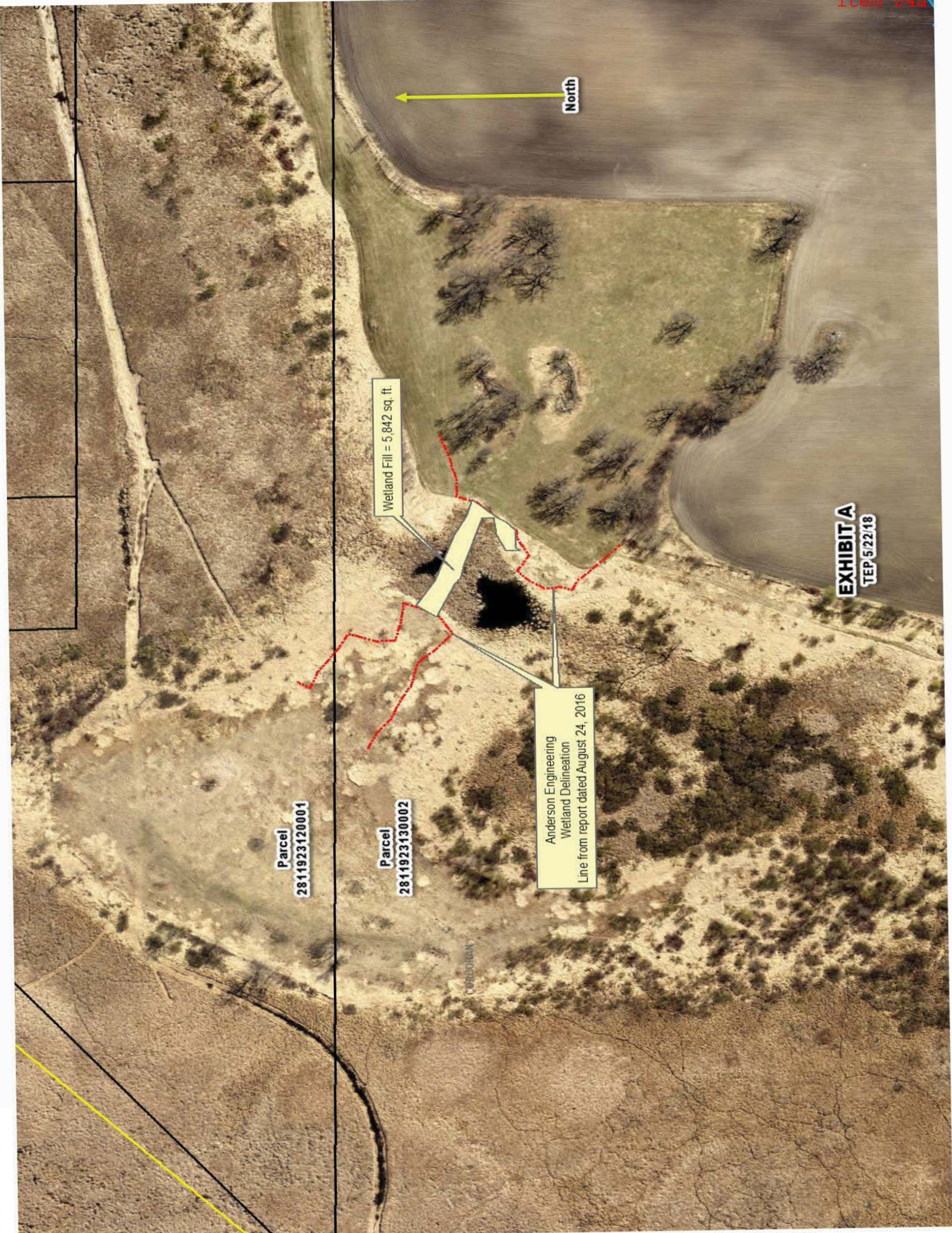
Technical Evaluation Panel Member Signatures/date

_____	_____
SWCD	Date
_____	_____
LGU	Date
_____	_____
BWSR	Date
_____	_____
DNR	Date



Area Overview

EXHIBITS



North

Wetland Fill = 5,842 sq. ft.

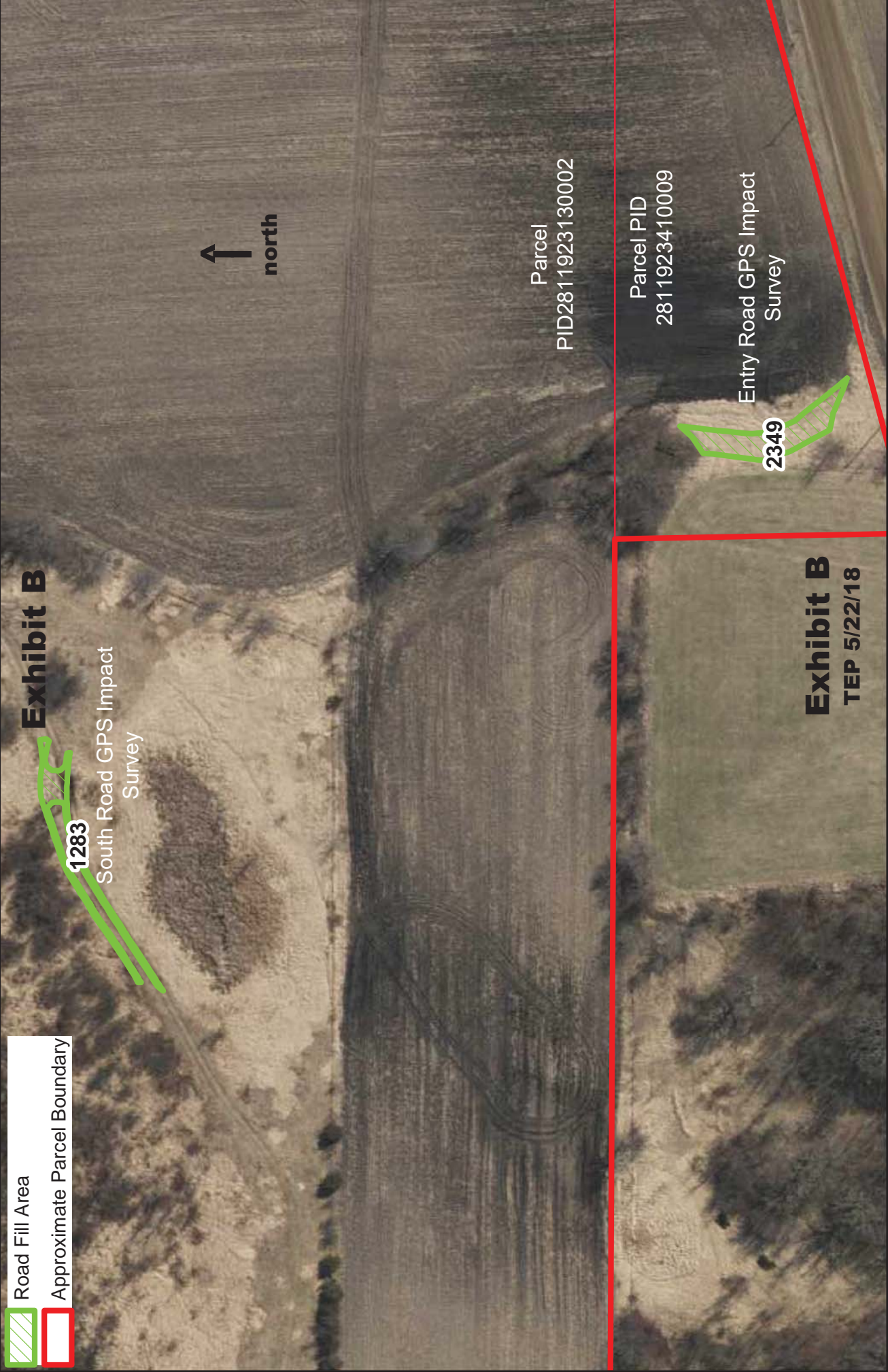
Parcel
2811923120001

Parcel
2811923130002

Anderson Engineering
Wetland Delineation
Line from report dated August 24, 2016

EXHIBIT A
TEP 5/22/18

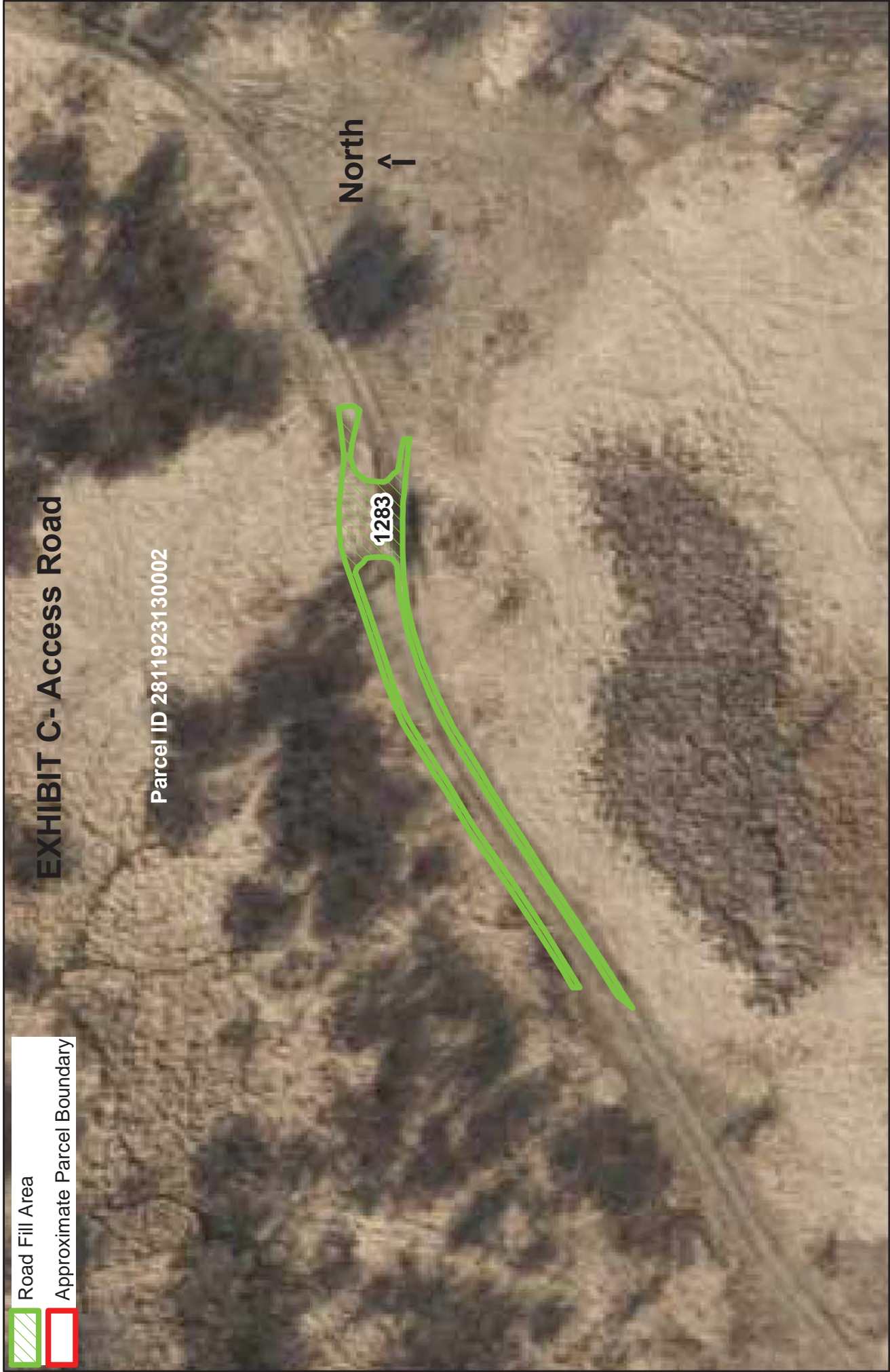
CORPORATE



Road Fill Area

Ernier Mayer Parcels
Corcoran, MN
2016 Imagery





Road Fill Area

Approximate Parcel Boundary

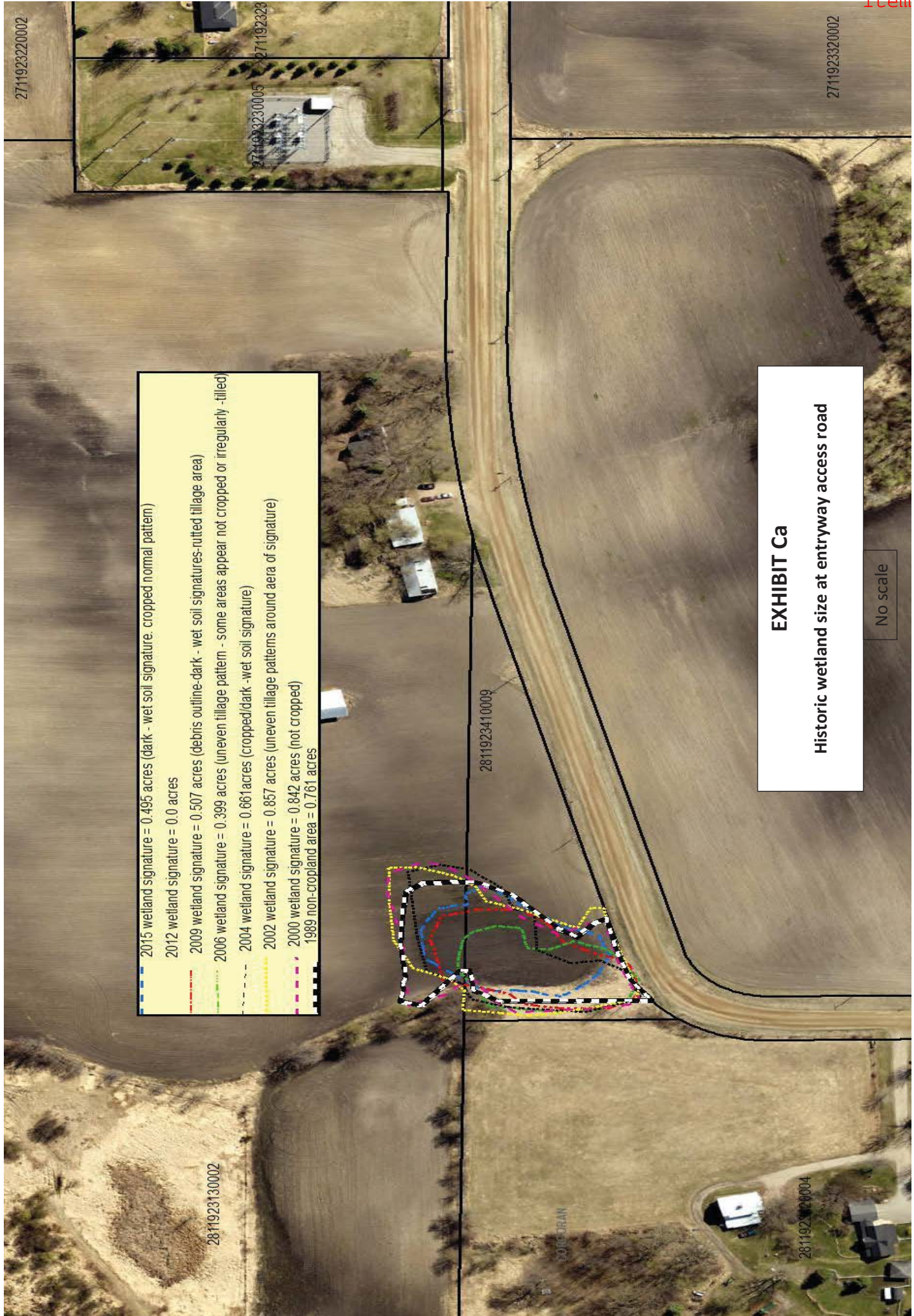
Southerly Road Access Fill Area

EXHIBIT C- Access Road

Ernier Mayer Parcels
Corcoran, MN

2016 Imagery





2711923220002

2811923130002

2711923230005

271192323

2711923220002

2811923280004

2811923410009

2006-2009

- 2015 wetland signature = 0.495 acres (dark - wet soil signature, cropped normal pattern)
- 2012 wetland signature = 0.0 acres
- 2009 wetland signature = 0.507 acres (debris outline-dark - wet soil signatures-rutted tillage area)
- 2006 wetland signature = 0.399 acres (uneven tillage pattern - some areas appear not cropped or irregularly -tilled)
- 2004 wetland signature = 0.661 acres (cropped/dark - wet soil signature)
- 2002 wetland signature = 0.857 acres (uneven tillage patterns around area of signature)
- 2000 wetland signature = 0.842 acres (not cropped)
- 1989 non-cropland area = 0.761 acres

EXHIBIT Ca
Historic wetland size at entryway access road

No scale



Exhibit D

Road Fill Area
Approximate Parcel Boundary

Entrv Road Fill Area
Exhibit D, 5/22/18
TEP

Ernier Mayer Parcels
Corcoran, MN
2016 Imagery



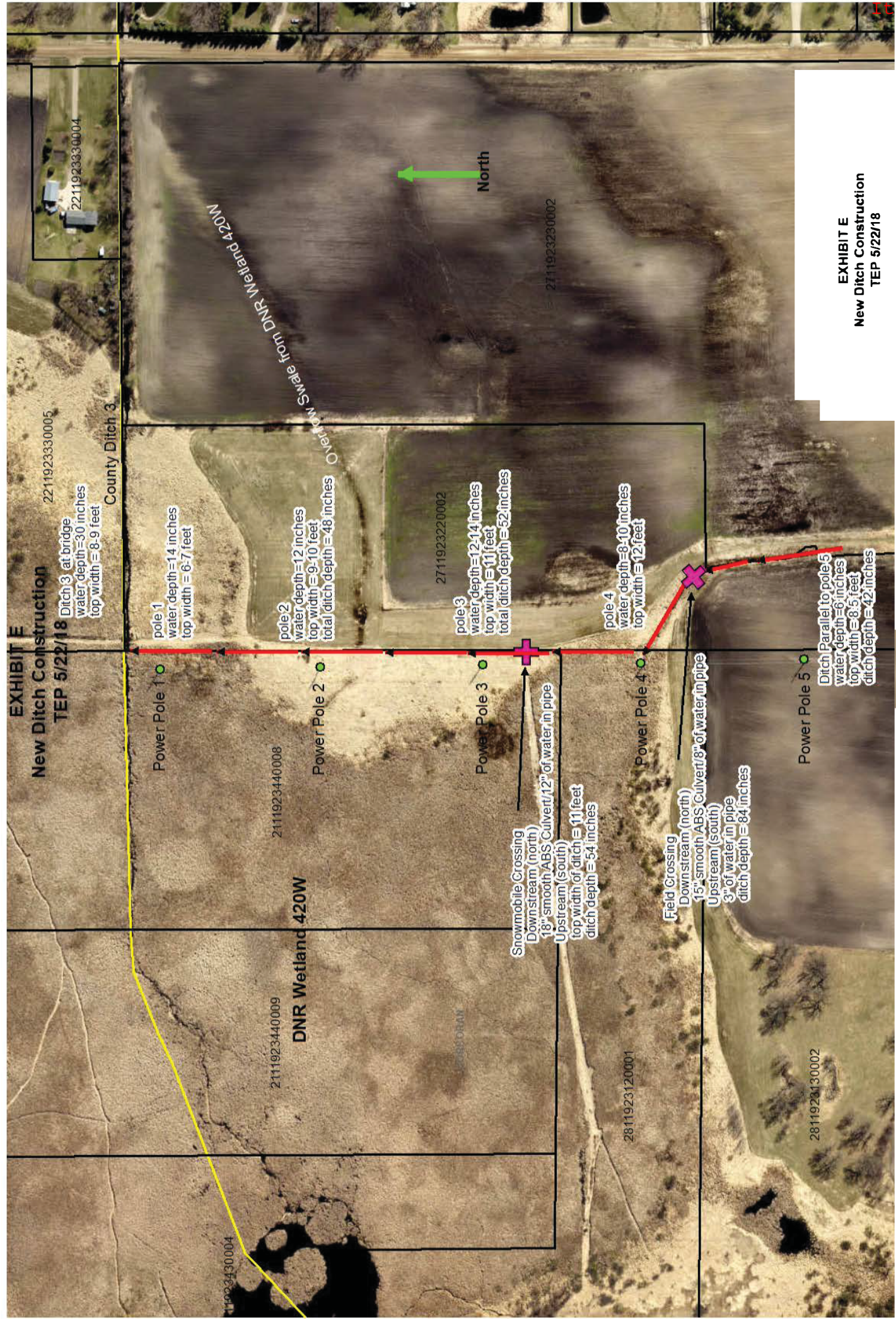


EXHIBIT E
New Ditch Construction
TEP 5/22/18

MEMORANDUM

Exhibit F 5/22/18 TEP

To: Ernie Mayers
From: Benjamin Hodapp, PWS, Environmental Group Lead
Date: January 29, 2018
Subject: Historic Ditch Analysis – 21000 Larkin Road, Corcoran, Minnesota

BACKGROUND:

Anderson Engineering (Anderson) was retained to perform research and analysis of historic conditions within the defined investigation area at the agricultural parcel located at 21000 Larkin Road, Corcoran, Hennepin County, Minnesota. Specifically, Anderson was requested to research the existence of an open ditch generally flowing from south to north and intersecting the ditch along the north parcel boundary which flows east towards Kalk Road.

The abstract of title history for the property dated January 1991 (see excerpts included) indicates that numerous land areas were assessed for benefits in establishment of Hennepin County Ditch Number 3 as filed October 15, 1907.

REVIEW:

Anderson reviewed readily available resources including the United States Fish and Wildlife Service National Wetlands Inventory, Minnesota Department of Natural Resources Public Water Inventory, Minnesota Department of Natural Resources LiDAR data, readily available online resources including Hennepin County Parcel data and associated layers, Bing Maps, Google Earth and the University of Minnesota Historic Aerial Photographs Online.

The investigation area is generally centered on the east boundary line of the NE $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Section 28 as depicted on Figure 1. The area within and immediately adjacent to the east and south are predominantly row-crop agricultural land and the area west a large emergent wetland complex associated with the South Fork of Rush Creek. The north parcel line, generally the north line of W $\frac{1}{2}$ of Section 27 is defined by a channelized drainage ditch flowing from west to east towards Kalk Road.

The NWI (Figure 2) identifies a large wetland complex within and adjacent to the west of investigation area. The NWI also depicts a Type 1, PEM1Af wetland basin at approximately the center of the investigation area and extending slightly east and north, but not all the way to Kalk Road. The NWI appears to generally map the extent of pasture land use. The PWI identifies Rush Creek – South Fork as broadly crossing the wetland complex diagonally from southwest to northeast into the investigation area and then continuing diagonally to the northeast corner of the Mayers property at Kalk Road. This PWI alignment is suspect in that historic aerials do not support continuous flow path in this location and the topography suggests a depressional wetland condition more similar to the mapped NWI polygon, then a continuous flow path extending to Kalk Road.

LiDAR topographic data displayed as “hillshade” (Figure 3) shows a clear ditch signature entering the investigation area from the south and a clear ditch signature along the north parcel line extending east to Kalk Road. There is

also a signature of "lower" elevations extending from the adjacent wetland complex into the investigation area and then turning and continuing north within the center of the investigation area. The width and position of this topographic "low" signature matching directly to a bridge over the ditch at the north parcel line suggests that the topographic variation is resultant from winter snowmobile trail (Northwest Trail-224) alignment disturbing and flattening the emergent vegetation.

The City of Corcoran Street Map (Figure 4) depicts a watercourse beginning at Larkin Road and extending into the center of the investigation area and then flowing east and north to the northeast property corner at Kalk Road, similar to the PWI mapped alignment. Unlike the PWI, the City of Corcoran Street Map depicts the South Fork of Rush Creek as broadly crossing the wetland complex diagonally from southwest to northeast and then following easterly along the north property line ditch alignment to Kalk Road.

Readily available historic aerial photos (included) were reviewed for evidence of an open ditch generally flowing from south to north and intersecting the ditch along the north parcel boundary which flows east towards Kalk Road. The results are summarized below:

1937 (dry year): The 1937 aerial photo clearly shows the west half of the investigation area as emergent wetland and the east half as cropped. The area is clearly divided and the cropped area does not appear to have any wet spots. There is no channel evident extending east at the middle of the investigation area where the PWI alignment is mapped to the northeast corner of the property at Kalk Road.

1945 (normal year): The 1945 aerial photo clearly shows the west half of the investigation area as emergent wetland and the east half as being cropped. In spite of the section corner marker (white cross) present on the aerial image, significant trees are obvious along the center dividing line, presumed ditch alignment, as evidenced by the dark shadows cast to the northwest. There is substantially more cropped area along the southern edge of the large wetland complex and extending into the investigation area, suggesting increased drainage. The northeast portion of the investigation area is pasture land. Again, there is no channel evident extending east at the middle of the investigation area where the PWI alignment is mapped to the northeast corner of the property at Kalk Road.

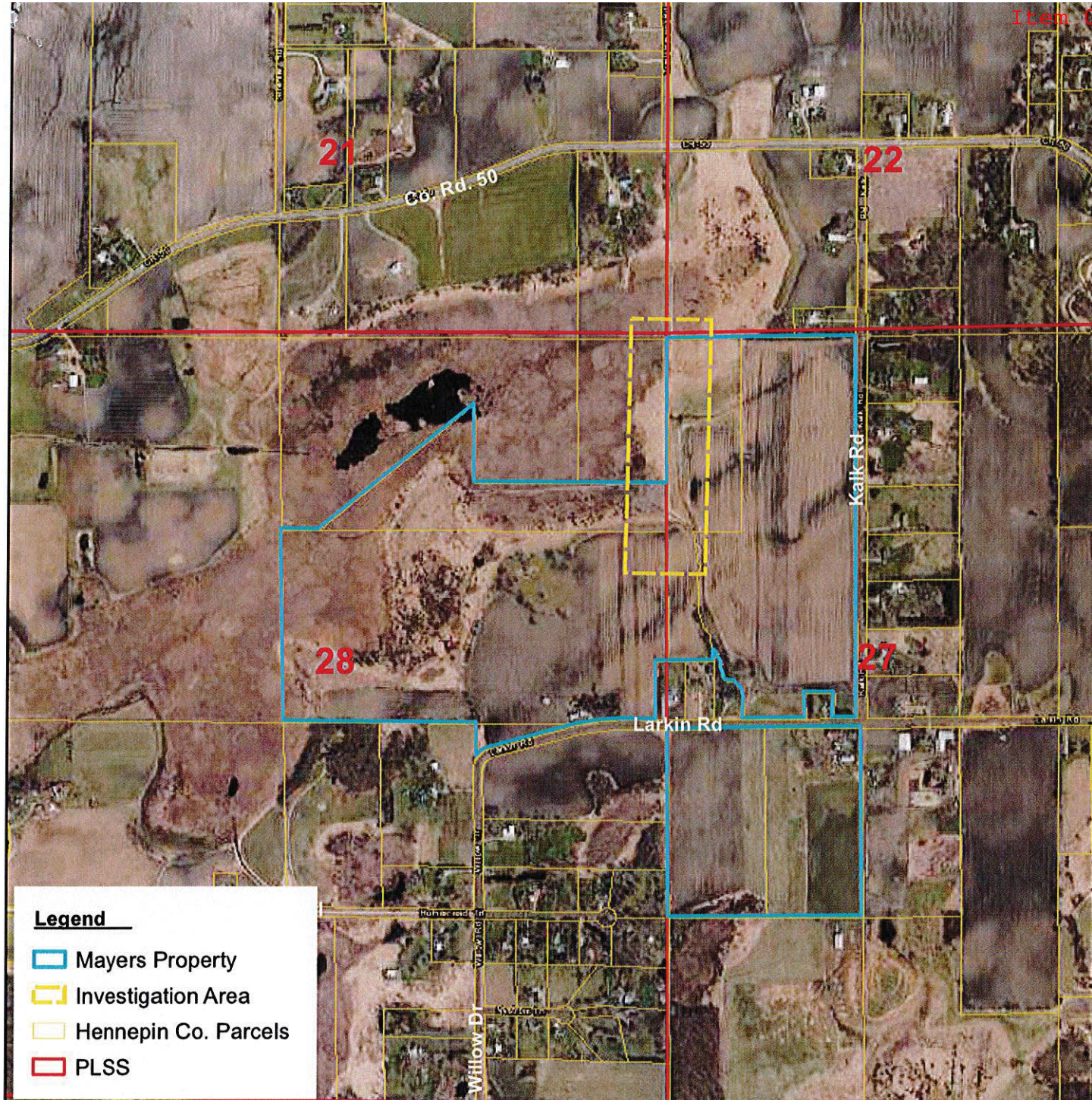
1967 (dry year): The 1967 aerial photo generally shows the west half of the investigation area as emergent wetland and the east half as cropped. The clear dividing line and the significant trees are removed (presumed ditch cleanout) and a clear linear ditch feature extending from south to north is present. There is a moist soil signature extending east at the middle of the investigation area and continuing to the northeast corner of the property at Kalk Road.

1991 (wet year): The 1991 aerial photo clearly shows a number of linear ditch features conveying surface flow generally from south to north through the investigation area. There is a clear linear channel signature extending east at the middle of the investigation area and continuing to the northeast corner of the property at Kalk Road.

2008 (dry year): The 2008 aerial photo shows the west and north portions of the investigation area as pasture for cattle grazing. There is slight signature of a south to north oriented linear feature. There is no channel evident extending east at the middle of the investigation area where the PWI alignment is mapped to the northeast corner of the property at Kalk Road; this area is being cropped through.

CONCLUSIONS:

The specified investigation area at 2100 Larkin Road, Corcoran, Hennepin County, Minnesota appears to have historically contained a linear, south-north oriented ditch feature as best evidenced on the 1967 and 1991 aerial images.



Legend

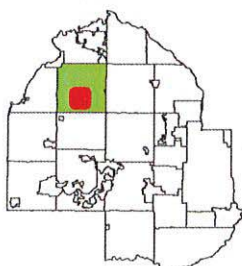
- Mayers Property
- Investigation Area
- Hennepin Co. Parcels
- PLSS

PROJECT LOCATION

SOURCE: MN DNR, USDA, ESRI, TIGER, Bing, Hennepin Co., Anderson Engineering

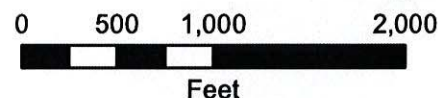


Hennepin County
State of Minnesota



City of Corcoran
Hennepin County, MN

1 in = 1,000 feet



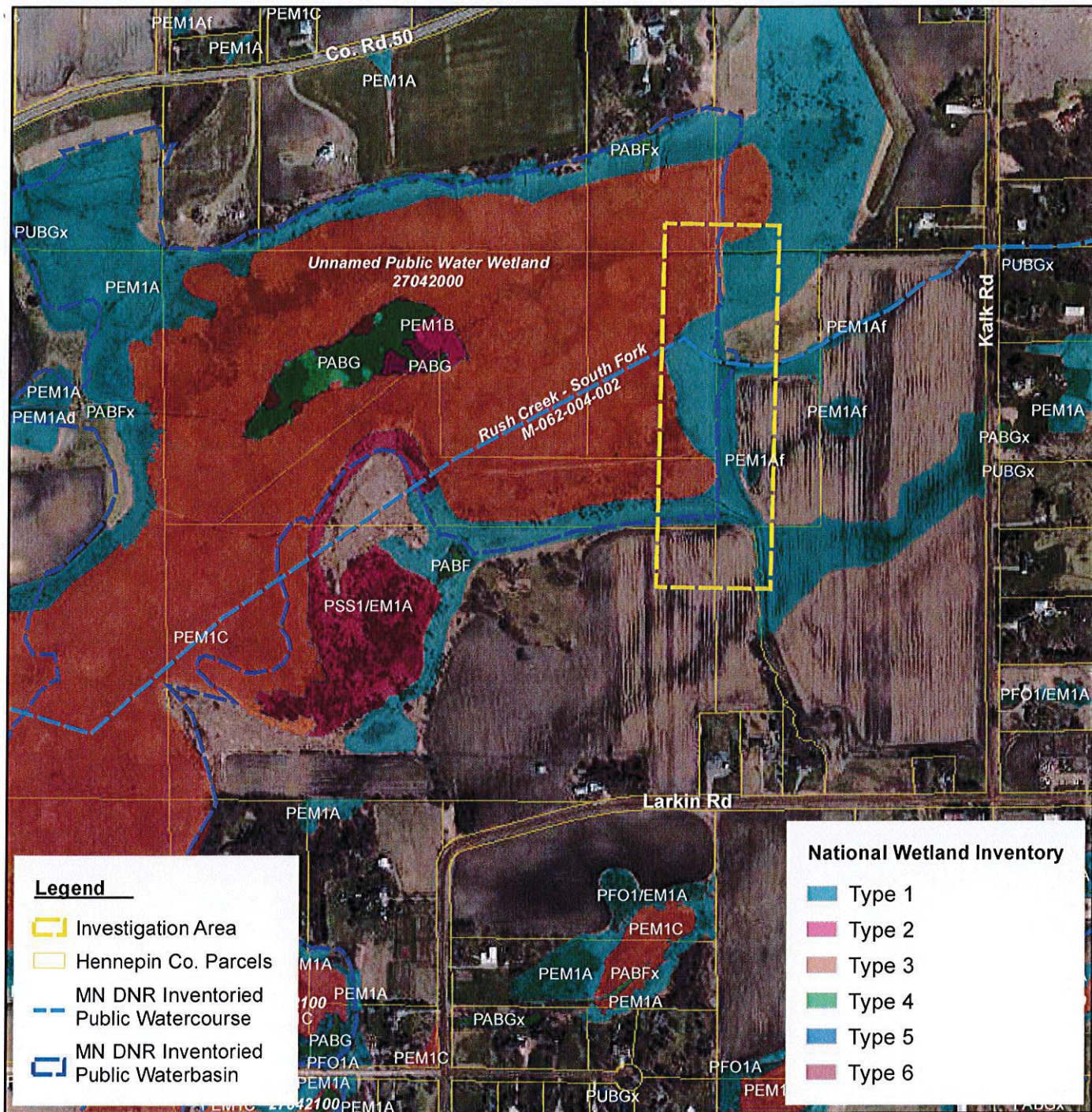
21600 Larkin Road
Corcoran, Hennepin County, MN
PID: Multiple



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Suite 100
Plymouth, MN 55441
763-412-4000 (o) 763-412-4090 (f)
www.ae-mn.com

LOCATION - FIGURE 1 MAYERS DITCH INVESTIGATION

AE Comm.# 14451 Date: 1/26/2018 By: JLA



Legend

- Investigation Area
- Hennepin Co. Parcels
- MN DNR Inventoried Public Watercourse
- MN DNR Inventoried Public Waterbasin

National Wetland Inventory

- Type 1
- Type 2
- Type 3
- Type 4
- Type 5
- Type 6

PROJECT LOCATION

SOURCE: MN DNR, USDA, ESRI, TIGER, Bing, Hennepin Co., Anderson Engineering



Hennepin County
State of Minnesota



City of Corcoran
Hennepin County, MN

1 in = 700 feet



0 350 700 1,400



Feet

21600 Larkin Road
Corcoran, Hennepin County, MN
PID: Multiple

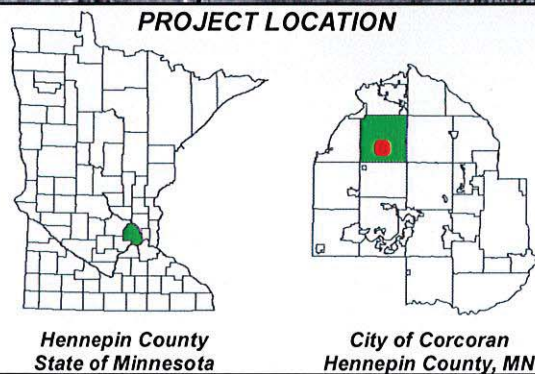
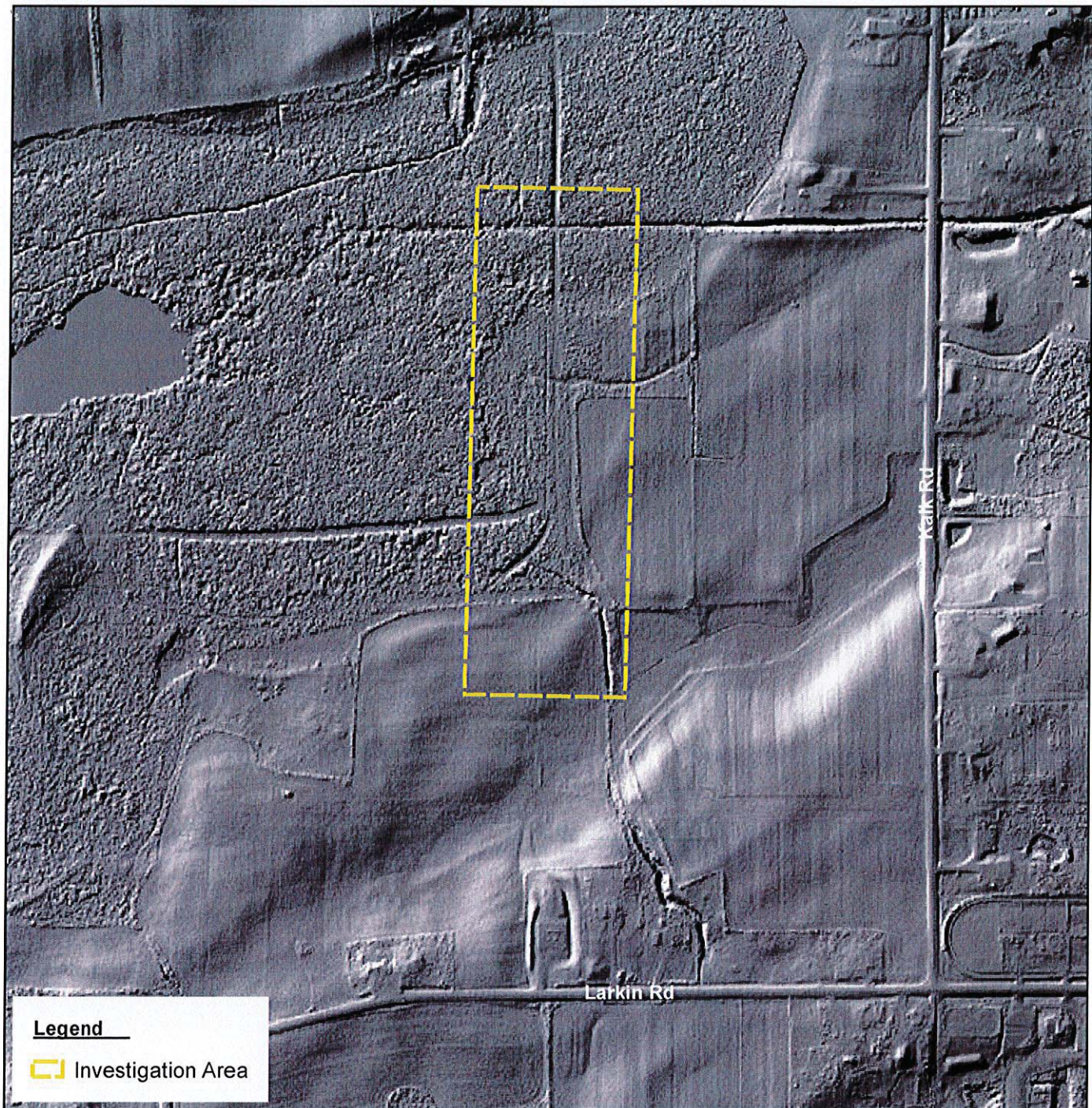


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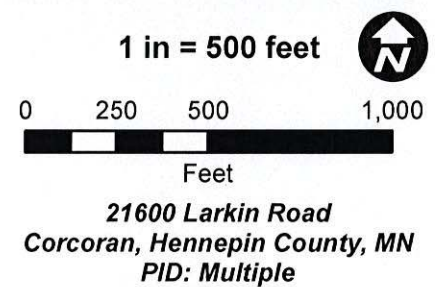
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**ENVIRONMENTAL - FIGURE 2
MAYERS DITCH
INVESTIGATION**

AE Comm.# 14451 Date: 8/16/2016 By: JLA



SOURCE: MN DNR, USDA, ESRI, TIGER, Bing, Hennepin Co., Anderson Engineering



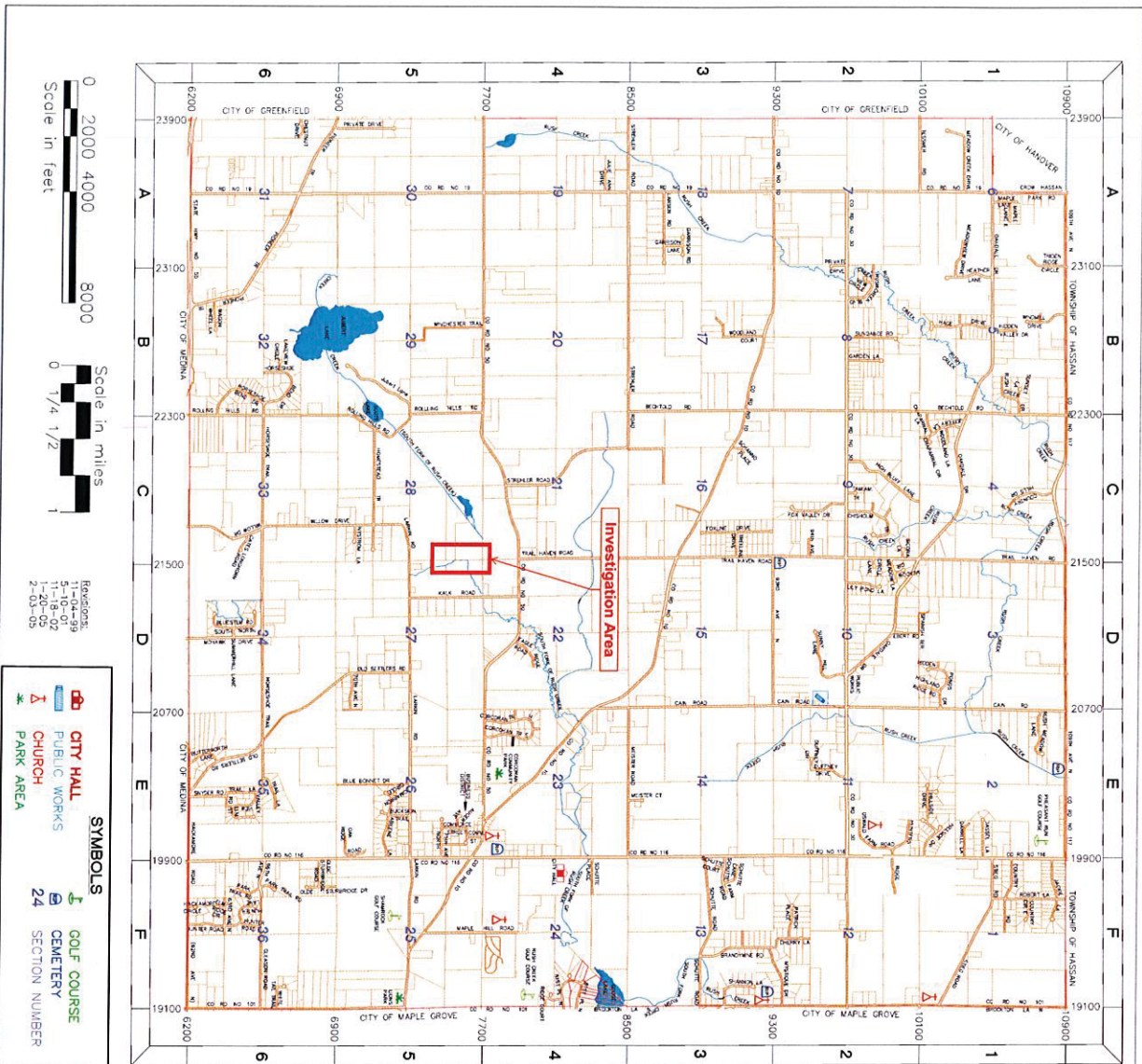
**ANDERSON
ENGINEERING**

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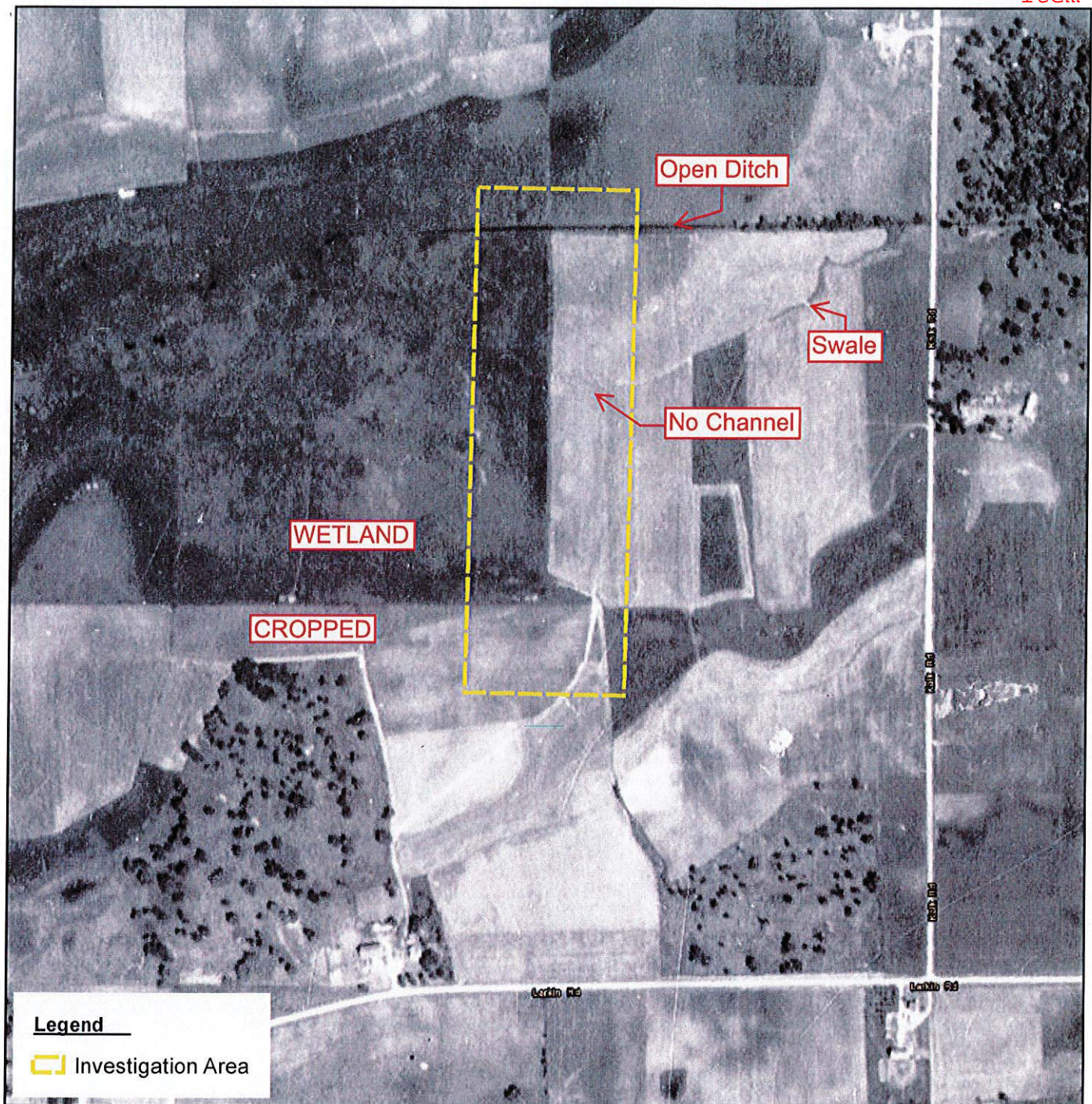
Anderson Engineering of Minnesota, LLC
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Suite 100
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2010 LiDAR HILLSHADE - FIGURE 3 MAYERS DITCH INVESTIGATION

AE Comm.# 14451 Date: 8/16/2016 By: JLA



CITY OF CORCORAN STREET MAP		
N		
A		
B		
C		
D		
E		
F		
G		
H		
I		
J		
K		
L		
M		
N		
O		
P		
R		
S		
T		
V		
W		
NUMBERED STREETS		
* PRIVATE DRIVE		



Hennepin County
State of Minnesota



City of Corcoran
Hennepin County, MN

PROJECT LOCATION

SOURCE: MN DNR, USDA, ESRI, TIGER, Bing, Hennepin Co., Anderson Engineering

1 in = 500 feet



0 250 500 1,000

Feet

21600 Larkin Road
Corcoran, Hennepin County, MN
PID: Multiple

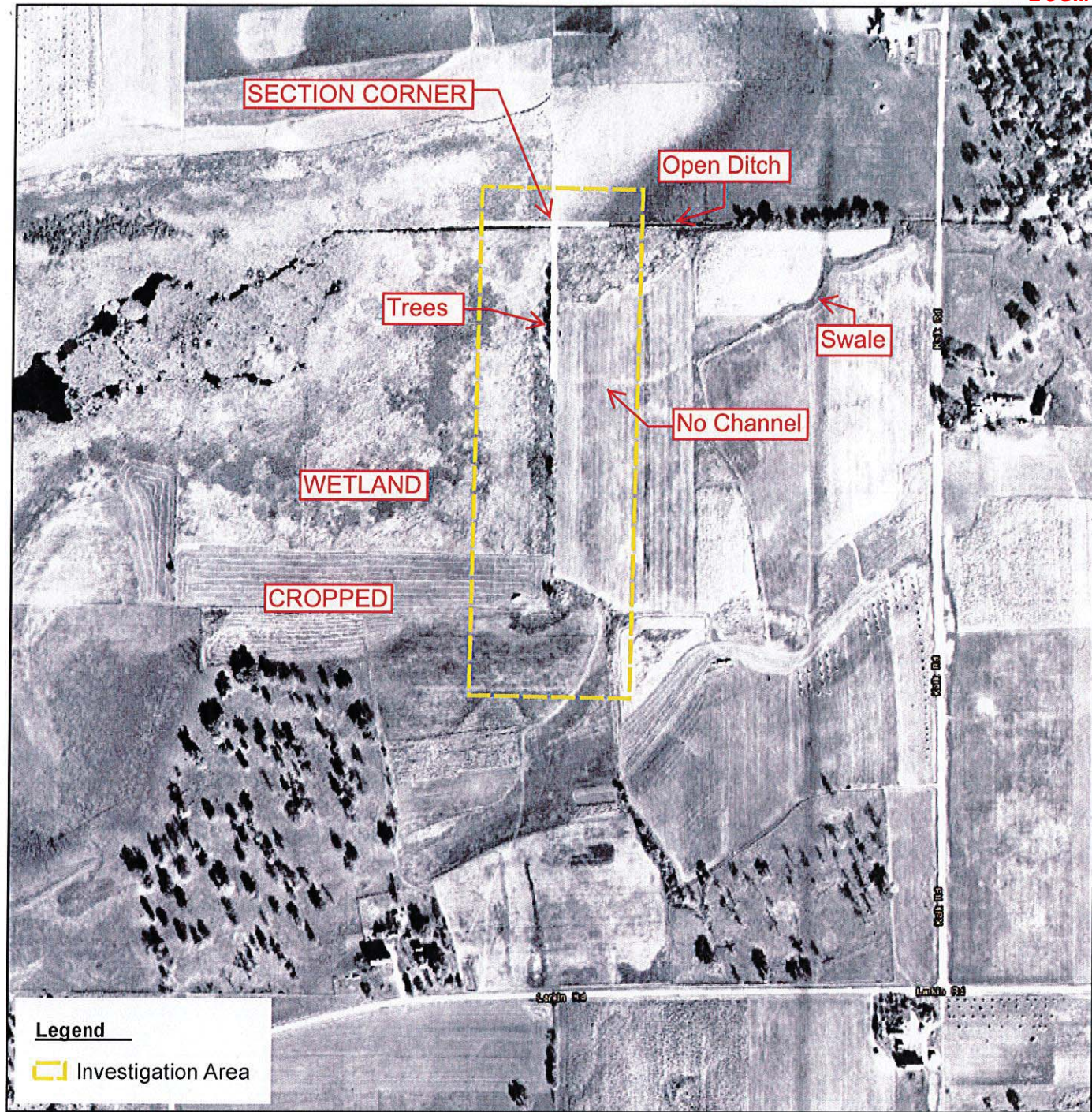


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**1937 U of M AERIAL
MAYERS DITCH
INVESTIGATION**

AE Comm.# 14451 Date: 8/16/2016 By: JLA



Legend

Investigation Area



Hennepin County
State of Minnesota



City of Corcoran
Hennepin County, MN

PROJECT LOCATION

SOURCE: MN DNR, USDA, ESRI, TIGER, Bing, Hennepin Co., Anderson Engineering

1 in = 500 feet



0 250 500 1,000



Feet

21600 Larkin Road
Corcoran, Hennepin County, MN
PID: Multiple

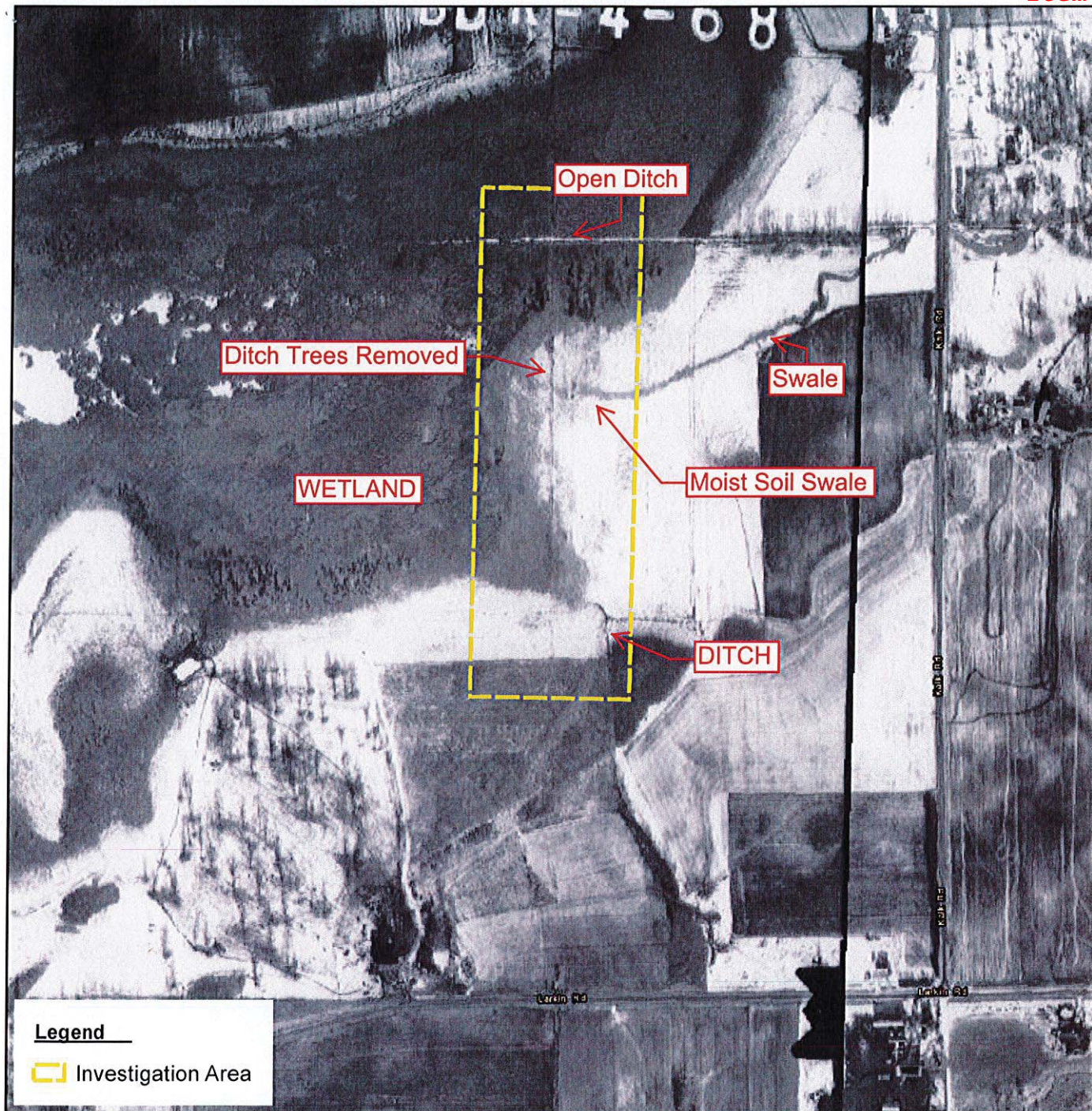


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**1945 U of M AERIAL
MAYERS DITCH
INVESTIGATION**

AE Comm.# 14451 Date: 8/16/2016 By: JLA



Hennepin County
State of Minnesota



City of Corcoran
Hennepin County, MN

PROJECT LOCATION

SOURCE: MN DNR, USDA, ESRI, TIGER, Bing, Hennepin Co., Anderson Engineering

1 in = 500 feet

0 250 500 1,000

Feet



21600 Larkin Road
Corcoran, Hennepin County, MN
PID: Multiple

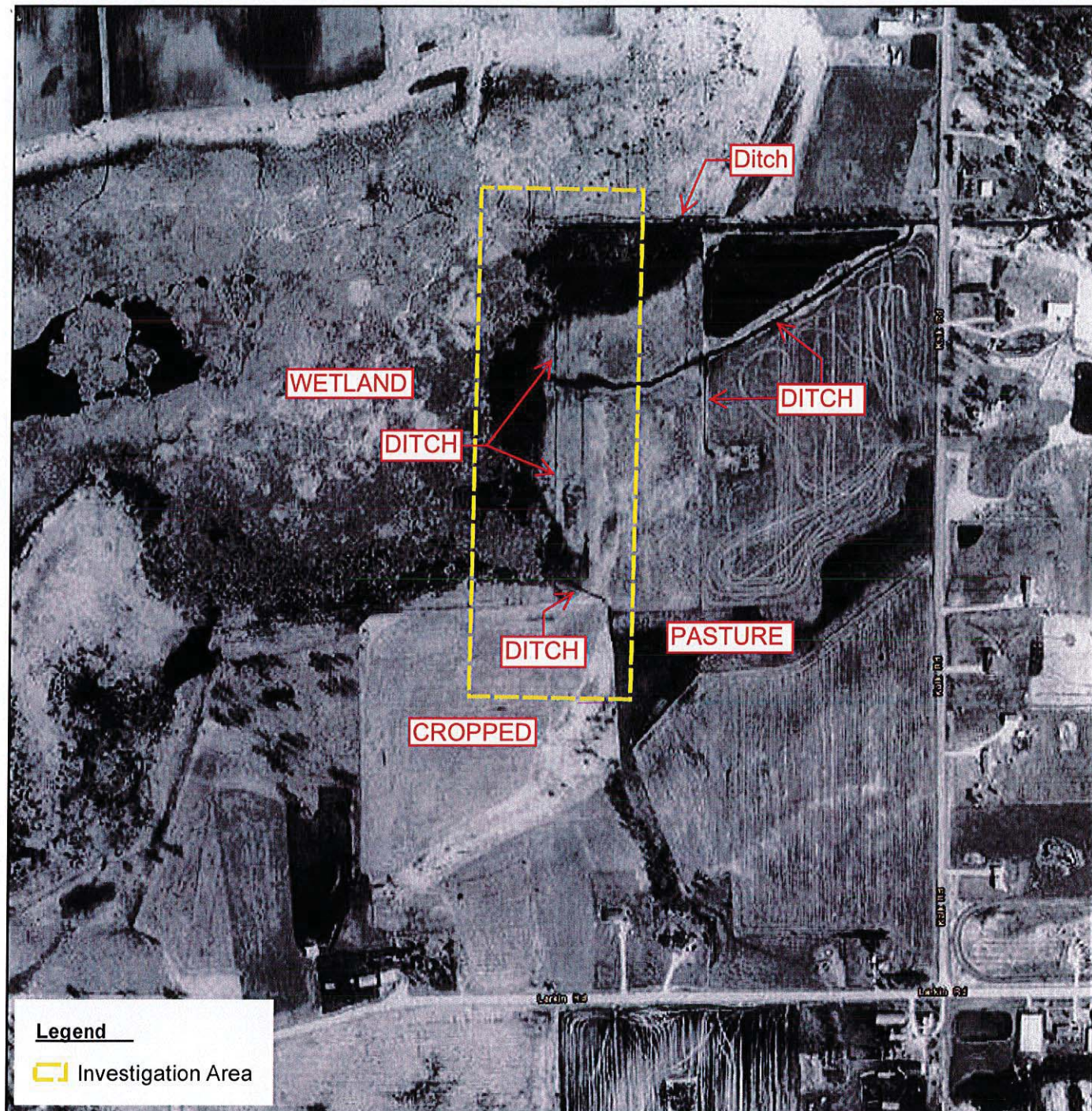


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1967 U of M AERIAL MAYERS DITCH INVESTIGATION

AE Comm.# 14451 Date: 8/16/2016 By: JLA



Legend

Investigation Area

PROJECT LOCATION

SOURCE: MN DNR, USDA, ESRI, TIGER, Bing, Hennepin Co., Anderson Engineering



Hennepin County
State of Minnesota



City of Corcoran
Hennepin County, MN

1 in = 500 feet



0 250 500 1,000

Feet

21600 Larkin Road
Corcoran, Hennepin County, MN
PID: Multiple

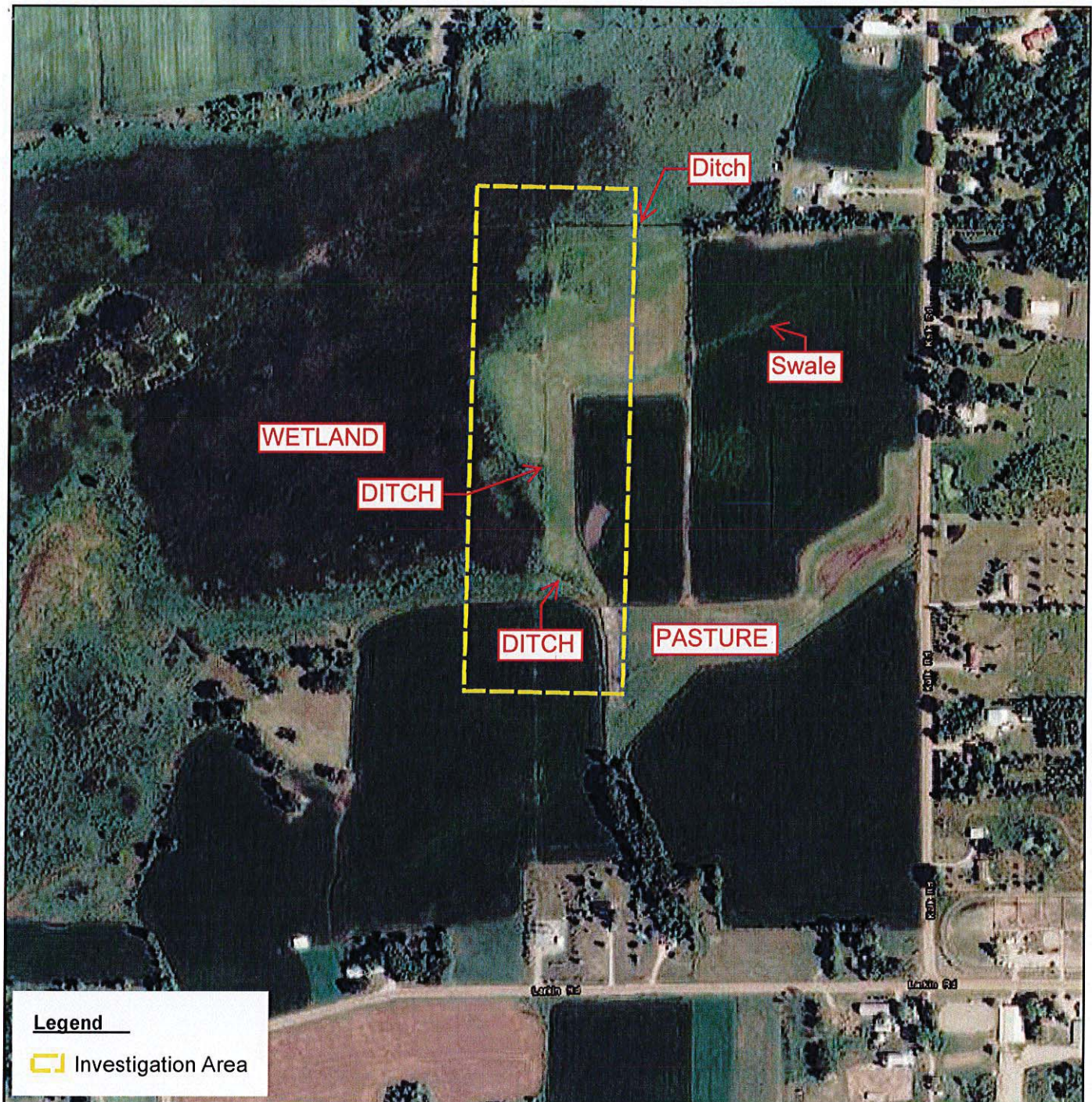


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**1991 USGS
MAYERS DITCH
INVESTIGATION**

AE Comm.# 14451 Date: 8/16/2016 By: JLA



Legend

Investigation Area

PROJECT LOCATION

SOURCE: MN DNR, USDA, ESRI, TIGER, Bing, Hennepin Co., Anderson Engineering



Hennepin County
State of Minnesota



City of Corcoran
Hennepin County, MN

1 in = 500 feet



0 250 500 1,000

Feet

21600 Larkin Road
Corcoran, Hennepin County, MN
PID: Multiple

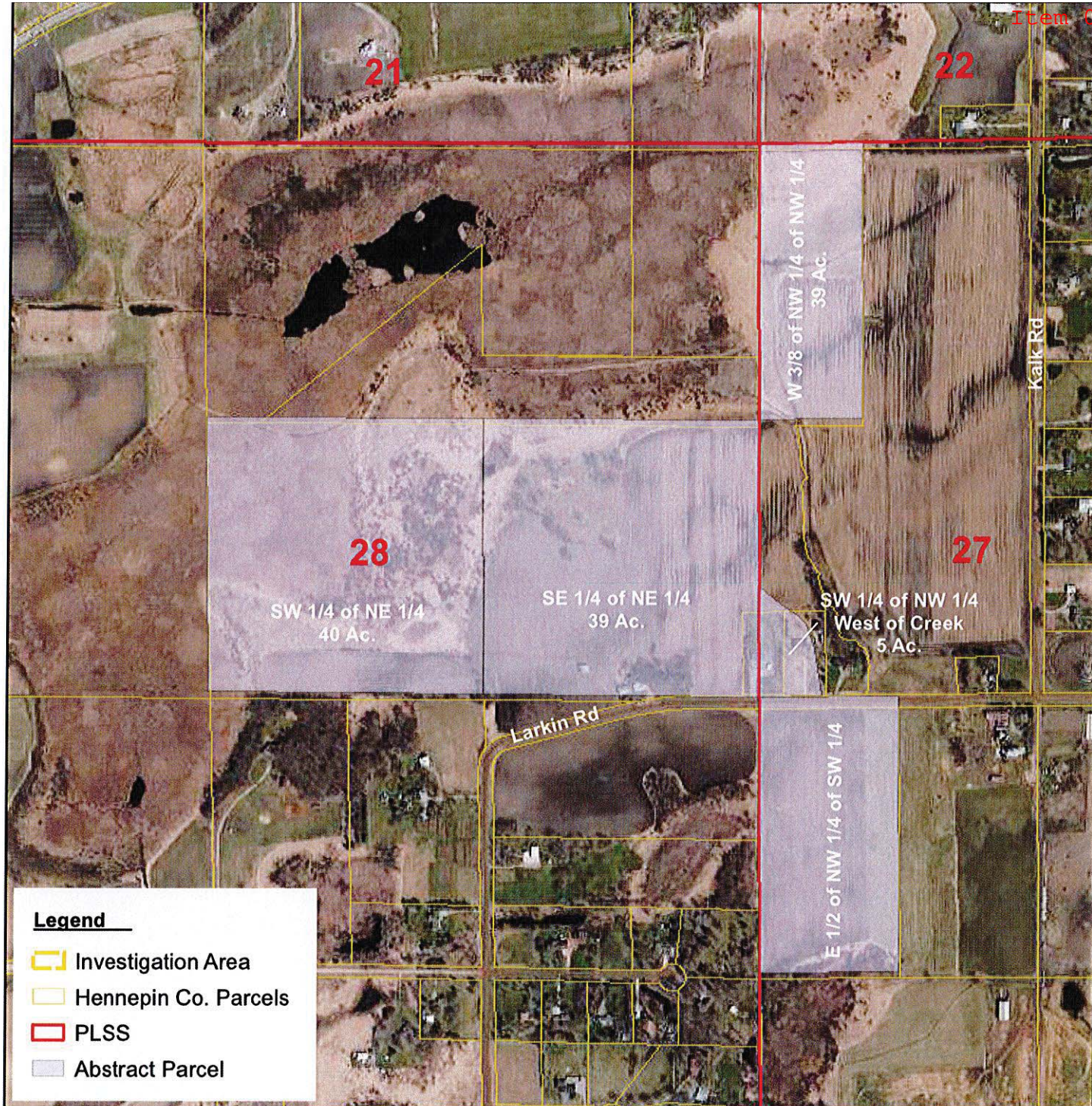


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2008 FSA AERIAL MAYERS DITCH INVESTIGATION

AE Comm.# 14451 Date: 8/16/2016 By: JLA



PROJECT LOCATION

SOURCE: MN DNR, USDA, ESRI, TIGER, Bing, Hennepin Co., Anderson Engineering

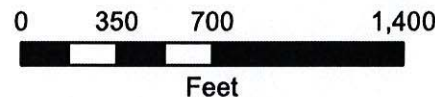


Hennepin County
State of Minnesota



City of Corcoran
Hennepin County, MN

1 in = 700 feet



21600 Larkin Road
Corcoran, Hennepin County, MN
PID: Multiple



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1907 DITCH ASSESSMENT AREAS
MAYERS DITCH
INVESTIGATION

AE Comm.# 14451 Date: 1/26/2018 By: JLA

TIM 36 rev. 5/79 - No. 3

Complete Title Service

TITLE INSURANCE
 ESCROW SERVICE
 ABSTRACTS OF TITLE
 SEARCHES FOR TAXES
 JUDGMENTS IN STATE
 AND FEDERAL COURTS
 BANKRUPTCY PROCEEDINGS
 SPECIAL ASSESSMENTS SEARCHES
 RECORDING SERVICE
 REGISTERED PROPERTY ABSTRACTS



Member of:



Order No. 862400

Abstract of Title
to

Part of Section 27, Township 119,

Range 23

"This abstract of title is a history of the record title of the property described therein and does not represent that the title is good and marketable."

This certifies the within statement from Nos. 141 to 149 inclusive, to be a correct Abstract of Title to land described in No. 135 therein as appears of record in the Real Estate Division of the office of the County Recorder in Hennepin County, Minnesota, since February 21, 1973. ^{7A}Including Taxes according to the general tax records of said County.

Dated July 16, 1980, 7 a.m. Newlands-Key

TITLE INSURANCE COMPANY OF MINNESOTA Key 12, and part of 9

By Bob Jappert Assistant Secretary

Re

Brook Park Realty

Deliver to

John Rice
 630 Shelard Tower
 Minneapolis, Minnesota 55426

TITLE INSURANCE COMPANY OF MINNESOTA

TITLE INSURANCE BUILDING
 MINNEAPOLIS, MINNESOTA 55401

Telephone 371-1111
 Area Code 612

TITLE INSURANCE COMPANY OF MINNESOTA

Minneapolis, Minnesota 55401

- 2
- 30 ^A David Gagnier and
Emelie, wife,
To
Mrs. Mary Andus
Ans 2 yrs from date, Cullawed
- Mortgage,
Dated Nov. 10, 1903.
Filed Nov. 11, 1903, 2½ p.m.
Book 560 of Mtgs., page 97
To secure \$1200.00
Same land as in No. 1.
-
- 31 ^A Mary Andus widow
To
David Gagne and
Emelie, wife.
- Satisfaction of Mtg. No. 30.
Dated May 29, 1906
Filed May 29, 1906, 2½ p.m.
Book 599 of Mtgs., page 531
-
- 32 ^A Emelie Gagne and
David, husband
To
Mattie Robichon.
- Mortgage,
Dated July 12, 1904.
Filed July 12, 1904, 11½ a.m.
Book 568 of Mtgs., page 242.
To secure \$1000.00
E½ of NW¼ and all of SW¼ of NW¼ except that part situated West
of Creek; also 25 acres off East side of NW¼ of NW¼ all in
Section 27-119-23.
Ans 2 2 months from date
-
- 33 ^A Mattie Robichon and
Louis, husband,
To
Emelie Gagne and
David, husband.
- Satisfaction of Mtg. No. 32.
Dated May 17, 1906.
Filed May 29, 1906, 2½ p.m.
Book 599 of Mtgs., page 531
-
- 34 ^A Emelie Gagne and
David, husband,
To
Louis Robichon.
- Mortgage,
Dated May 29, 1906.
Filed May 29, 1906, 2½ p.m.
Book 604 of Mtgs., page 29.
To secure \$1500.00
E½ of NW¼ and all of SW¼ of NW¼, except that part situated
West of the creek; also 25 acres off East side of NW¼ of
NW¼ all in Section 27-119-23.
Ans July 1-1909
-
- 35 ^A Auditor of Hennepin County
To
The Public.
- Ditch Statement No. 3.
Dated Oct. 15, 1907
Filed Oct. 15, 1907, 12 m.
Book 115 of Misc., page 154.
Emeline Gagne owner of E½ of NW¼ of SW¼ of Sec. 27-119-23
liable for \$38.40 *See #72*
SW¼ NW¼ E. of Creek, E ½ of NW¼ NW¼
S. NW¼ NW¼ W. of Creek
-
- 36 ^A Emelie Gagne and
David, husband
To
Louis Robichon.
- Mortgage,
Dated May 29, 1909
Ack'd May 29, 1909
Filed May 28, 1909, 3:25 p.m.
Book 622 of Mtgs., page 627
To secure \$1500.00
E½ of NW¼ and all of SW¼ of NW¼ except that part situated West
of Creek; also 25 acres off East side of NW¼ of NW¼, all in
Section 27-119-23.
-
- 37 [✓] Emelie Gagne
David, her husband
To
Peter Gagne.
- Warranty Deed,
Dated Nov. 8, 1910
Filed Dec. 3, 1910, 10:20 a.m.
Book 680 of Deeds, page 332.
Consideration \$1.00 &c
Same premises as No. 1.
Subject to Mtg. of \$1500.00
-
- 38 Taxes 1903 to 1912 inclusive paid. Taxes 1913 not paid.
- 39 For Judgment and Bankruptcy Search See Certificate Attached.

Appraisal Report of

WAWRA AND MAYERS FARM

SECTION 27

TOWNSHIP OF CORCORAN

HENNEPIN COUNTY

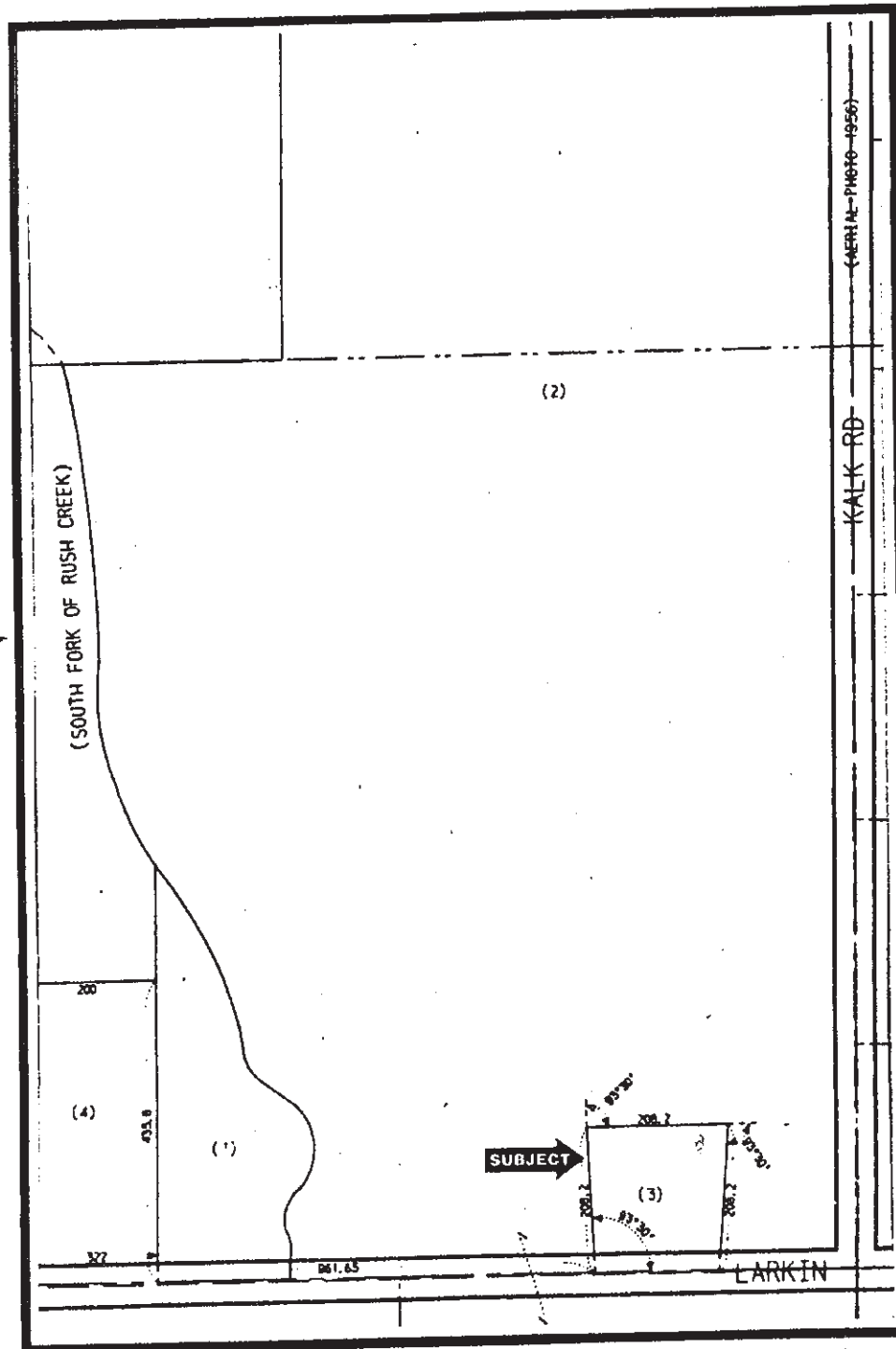
MINNESOTA

JANUARY 17, 1991



FARM CREDIT APPRAISAL SERVICE

PLAT MAP



Real Estate Graphics, Inc. © COPYRIGHT 1987

Abstract of Title

To

19. Southwest 1/4 of Northeast 1/4 and Southeast 1/4 of Northeast 1/4 of Section 28, and West 1/2 of Northwest 1/4 of Southwest 1/4 and that part of Southwest 1/4 of Northwest 1/4 West of Creek, and West 15 acres of Northwest 1/4 of Northwest 1/4, Section 27-119-23.
-
20. Secretary of State
State of Minnesota
To
The Public
1684400
- C. C. Government Plat
Dated January 11, 1856
Filed April 30, 1932, 8:30 A.M.
Book of Plats of Government Field
Notes, page 17
Copy of Government Plat of
Survey of Township 119, Range 23.
-
21. The United States
of America
To
Joseph Lasaupe
- Original Entry No. 1471
Dated April 21, 1856
Filed Land Office Records, page 142
Southeast 1/4 of Northeast 1/4
Section 28-119-23, 40 acres.
-
22. The United States of America
To
Joseph Lasombe
1789547
- C. C. Patent
Dated October 30, 1857
Filed January 28, 1935, 2:15 P.M.
Book 1346 of Deeds, page 256
The Southeast 1/4 of the Northeast
1/4 of Section 28-119-23, containing
40 acres.
-
23. The United States of America
To
Joseph Lasombe
1500617
- C. C. Patent
Dated October 30, 1857
Filed September 18, 1928, 2:20 P.M.
Book 1145 of Deeds, page 262
West 1/2 of the Northwest 1/4 and
the Northwest 1/4 of the Southwest
1/4 of Section 27-119-23, containin
120 acres.
-

49. County Auditor, Hennepin
County, Minnesota
To
The Public
476366

County Ditch No. 3
Dated October 15, 1907
Filed October 15, 1907, 12 M.
Book 115 of Misc., page 154
(Statement of Hugh R. Scott,
Auditor of Hennepin County, Minnesota)

showing the Assessments made on Land for Benefits in the Establishment
of Ditch No. 3 in Hennepin County.

Peter Gagne, Owner, Southwest 1/4 Northeast 1/4 Section 28-119-23,
40 acres, Amount \$268.80.

Peter Gagne, Owner, Southeast 1/4 Northeast 1/4 Section 28-119-23,
39 acres, Amount \$67.20.

Peter Gagne, Owner, West 3/8 Northwest 1/4 Northwest 1/4 Section 27-119-23,
24 acres, Amount \$28.80.

Peter Gagne, Owner, Southwest 1/4 Northwest 1/4 West of Creek, Section
27-119-23, 5 acres, Amount \$19.20.
etc. etc.

50. County Auditor, Hennepin
County, Minnesota
To
The Public
1929193

Release of Ditch Lien No. 3, at No.4
Dated May 11, 1938
Filed May 12, 1938, 9 A.M.
Town of Corcoran and Medina.
Book 366 of Misc., page 383

51. Peter Gagne, (also known as
Gagner,) and
Laura Gagne, his wife
To
The Prudential Insurance
Company of America
1153750

Mortgage
Dated June 22, 1923
Filed June 25, 1923, 4:30 P.M.
Book 1232 of Mtgs., page 48
To secure \$2000.00
The East 1/2 of the Northwest 1/4
of the Southwest 1/4 the whole of
the Southwest 1/4 of the Northwest
1/4, and the East 1/4 of the

Northwest 1/4 of the Northwest 1/4 all in Section 27-119-23, and
containing in all 80 acres.

52. The Prudential Insurance
Company of America
To
Peter Gagne (also known as
Gagner,) and wife
1222584

Satisfaction of Mortgage No. 51
Dated July 7, 1924
Filed July 14, 1924, 4:30 P.M.
Book 1301 of Mtgs., page 594

53. Peter Gagne,
Laura Gagne, husband and wife
To
Mary A. Quirk
1244949

Warranty Deed
Dated No 2st, 1924
Filed November 10, 1924, 2:10 P.M.
Book 1011 of Deeds, page 389
Consideration \$1.00 etc.

South 1/2 of Northeast 1/4 of
Section 28; West 3/5 of Northwest 1/4 of Northwest 1/4 and that part
of Southwest 1/4 of Northwest 1/4 lying West of the Creek, and the
West 1/2 of Northwest 1/4 of Southwest 1/4 of Section 27, all in
Township 119, Range 23.

Exhibit H
Typical Ditch Section South of Pole 4



Exhibit H
Typical Ditch Section South of Pole 4
SEP 5/22/18



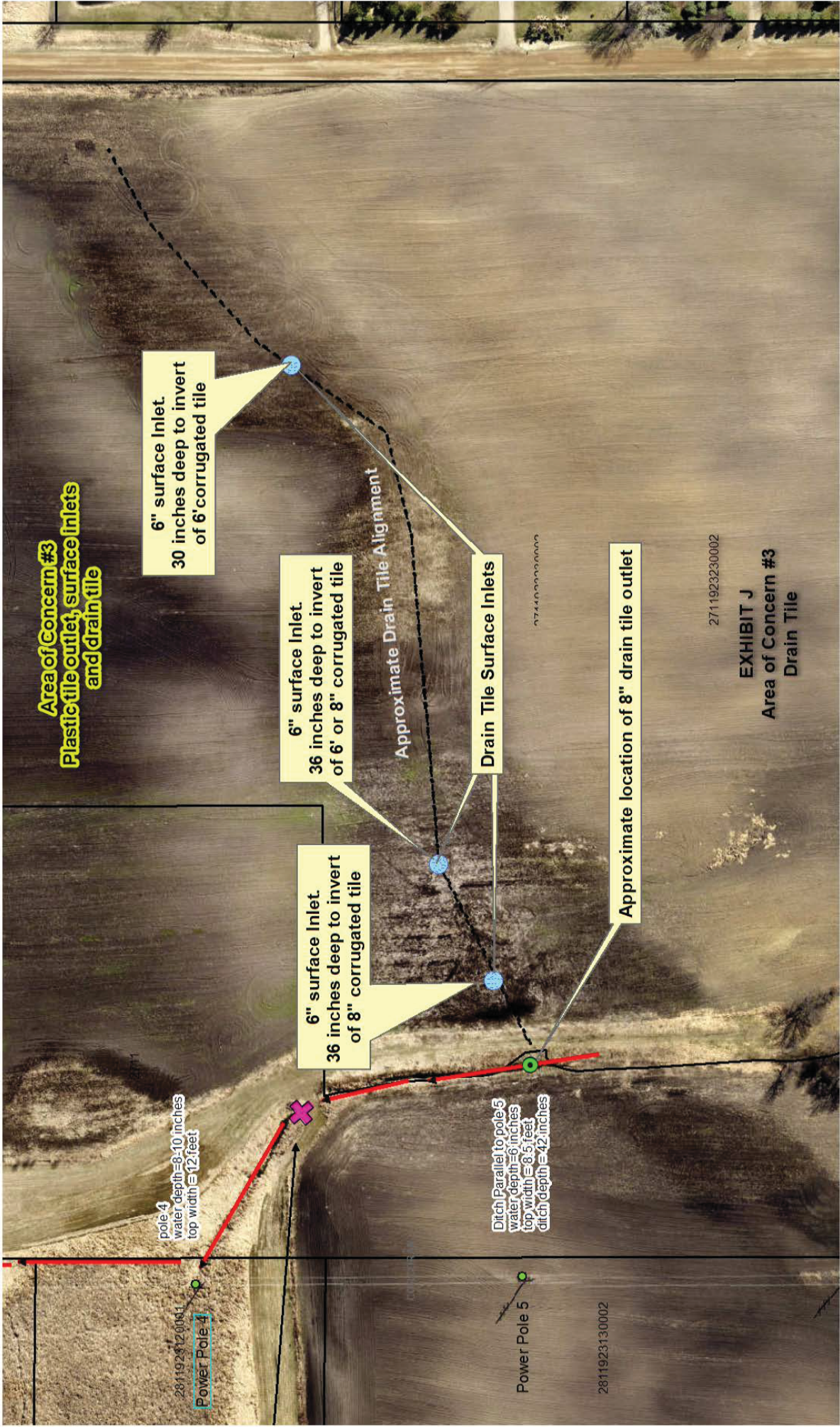
original ground elevation at ditch from the southeast where it flowed into DNR wetland 420W

New ditch at power pole #4-Junction north/south ditch with ditch to the southeast.

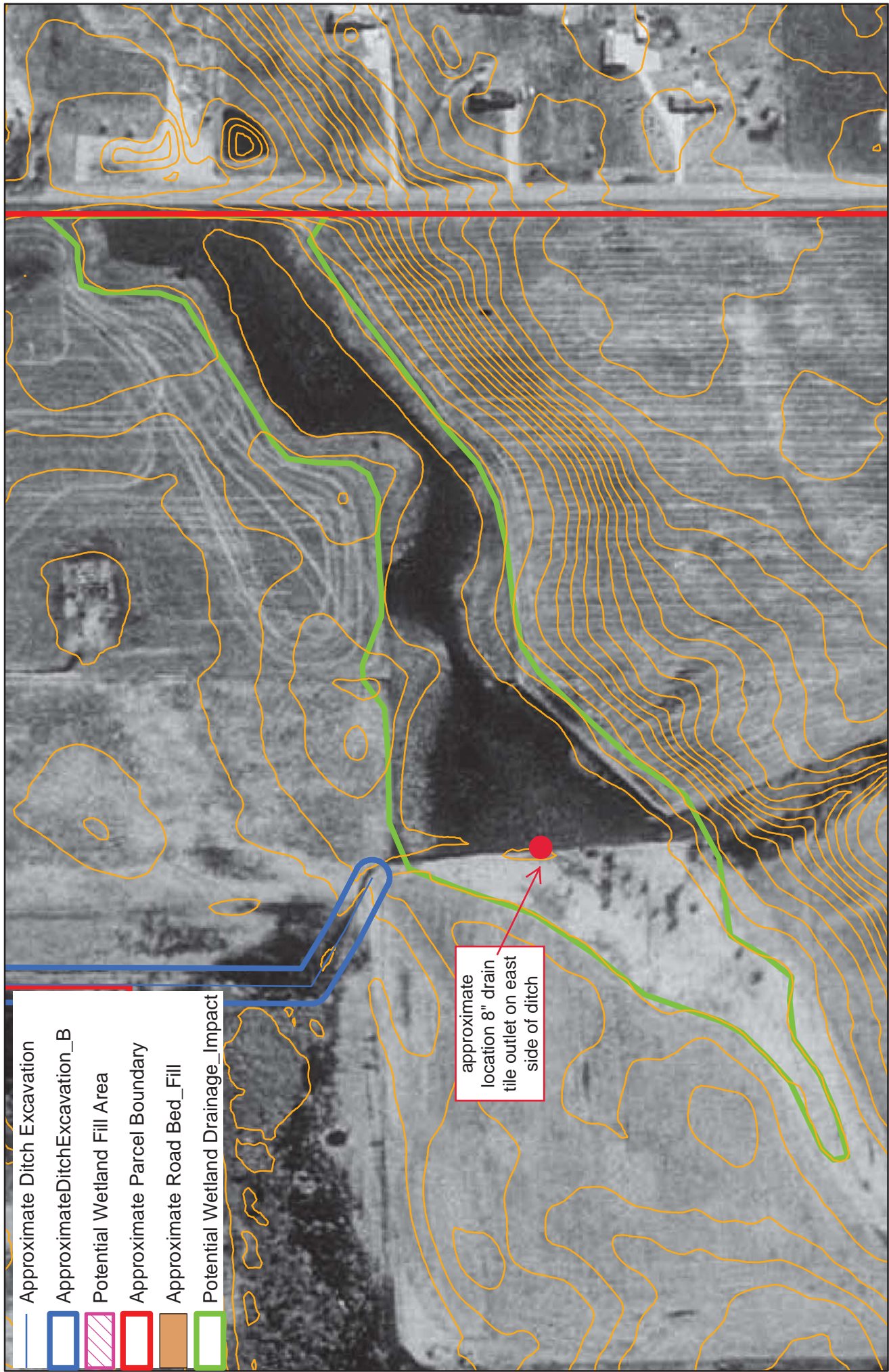
EXHIBIT I
TEP 5/22/18

direction of water flow

Power Pole #4



5/22/18 TEP



Potential Wetland Drainage (1991)
EXHIBIT K - page 1 of 4
TEP 5/22/18

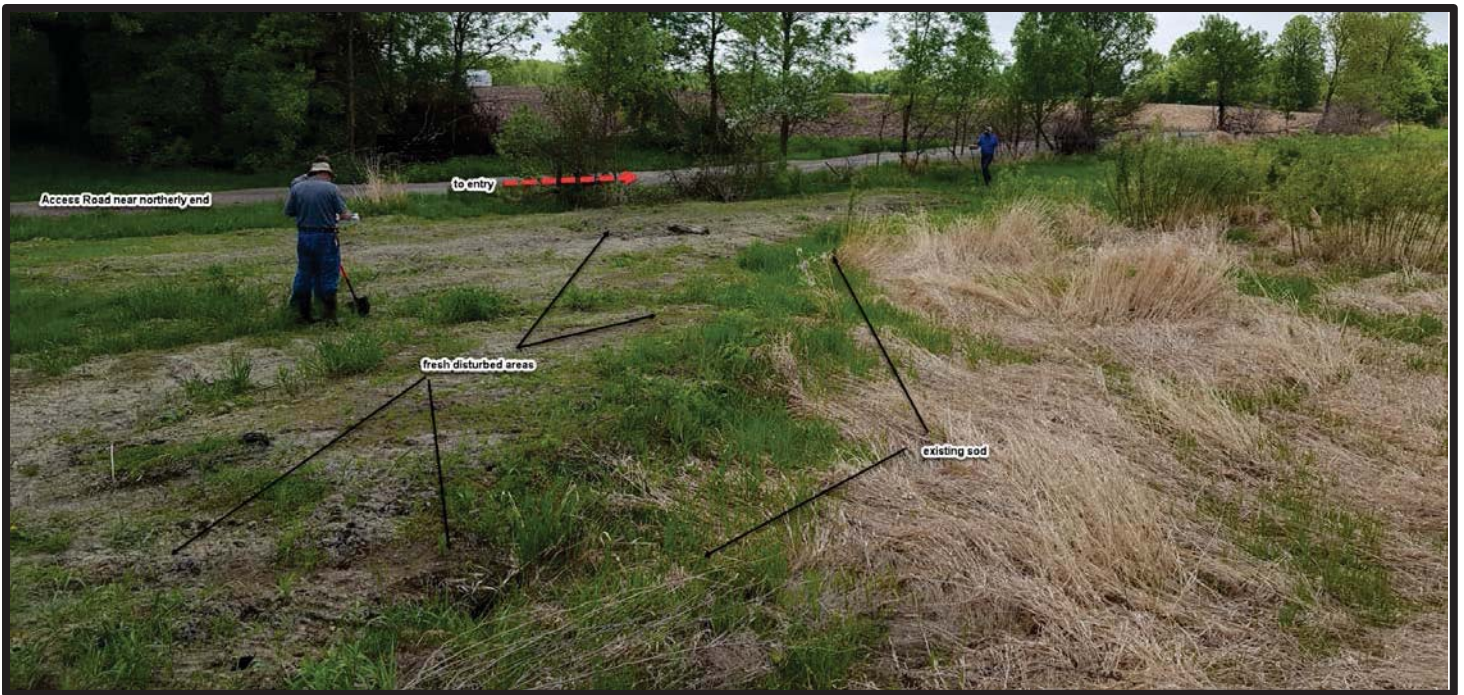
Ernier Mayer Parcels
Corcoran, MN



Access Road Pictures
Ernie Mayers Violation Inspections/TEP
EXHIBIT L









Drainage Ditch Pictures
Ernie Mayers Violation Inspections/TEP
EXHIBIT L

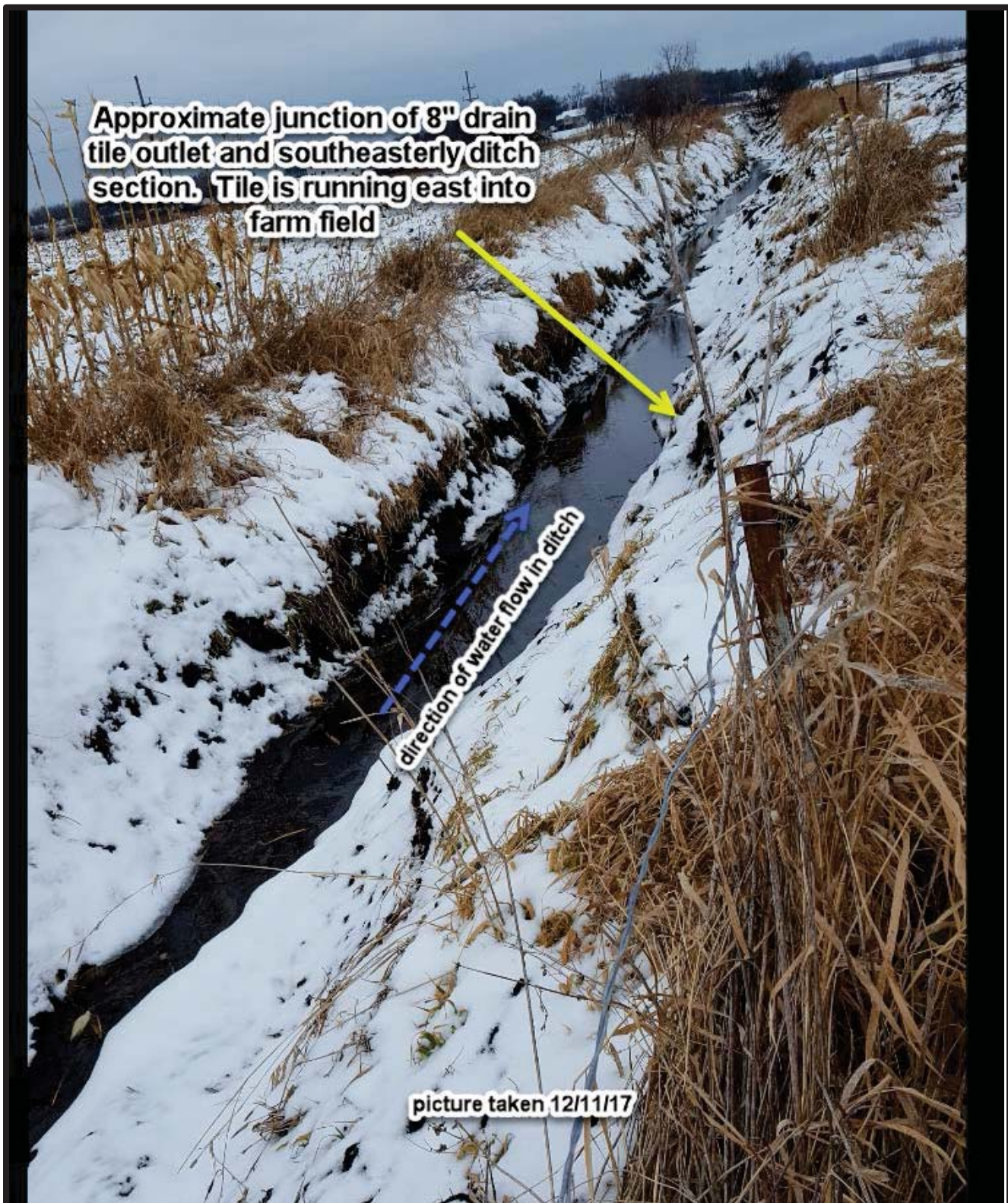




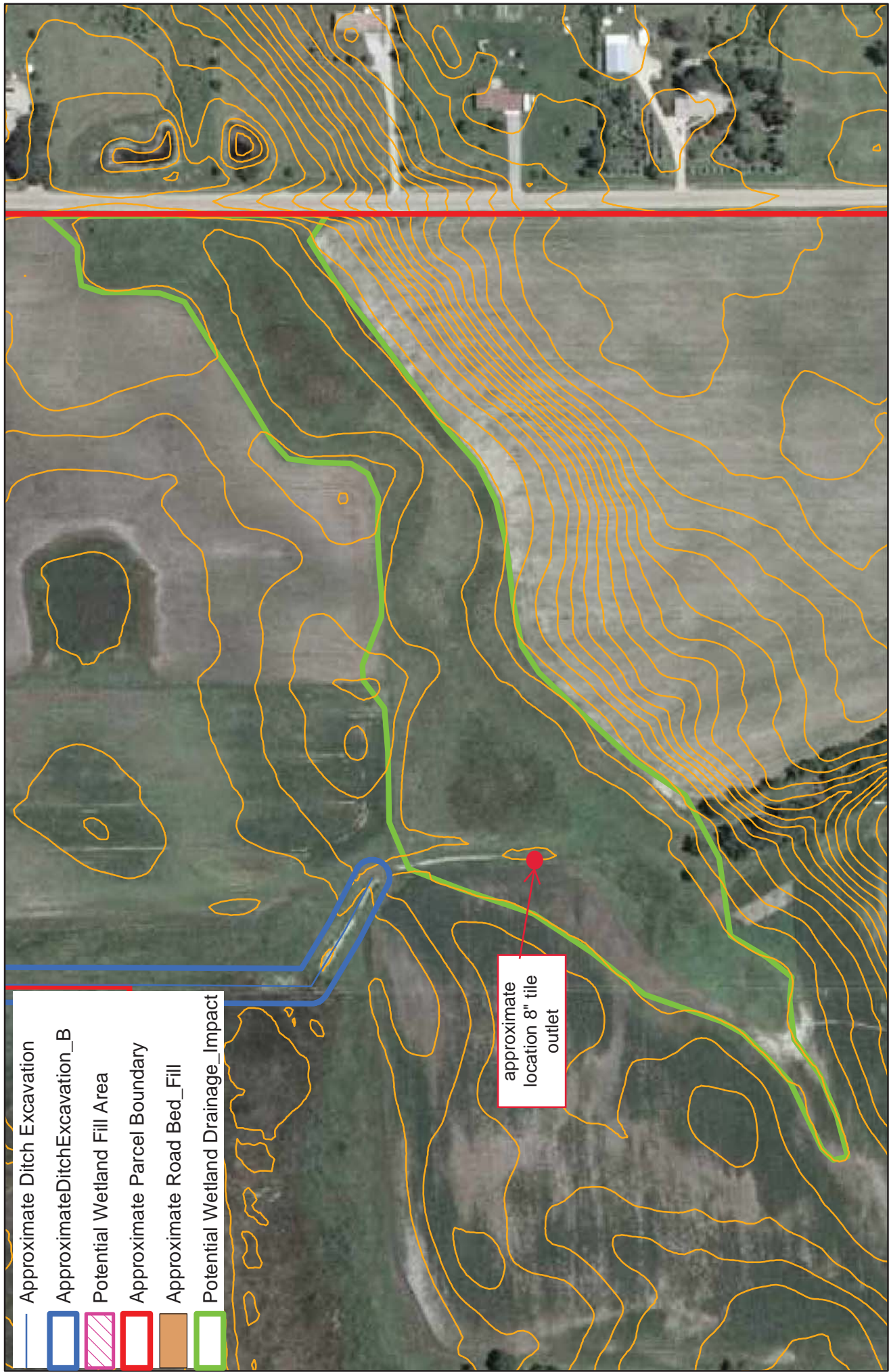




Drain Tile Pictures
Ernie Mayers Violation Inspections/TEP
EXHIBIT N







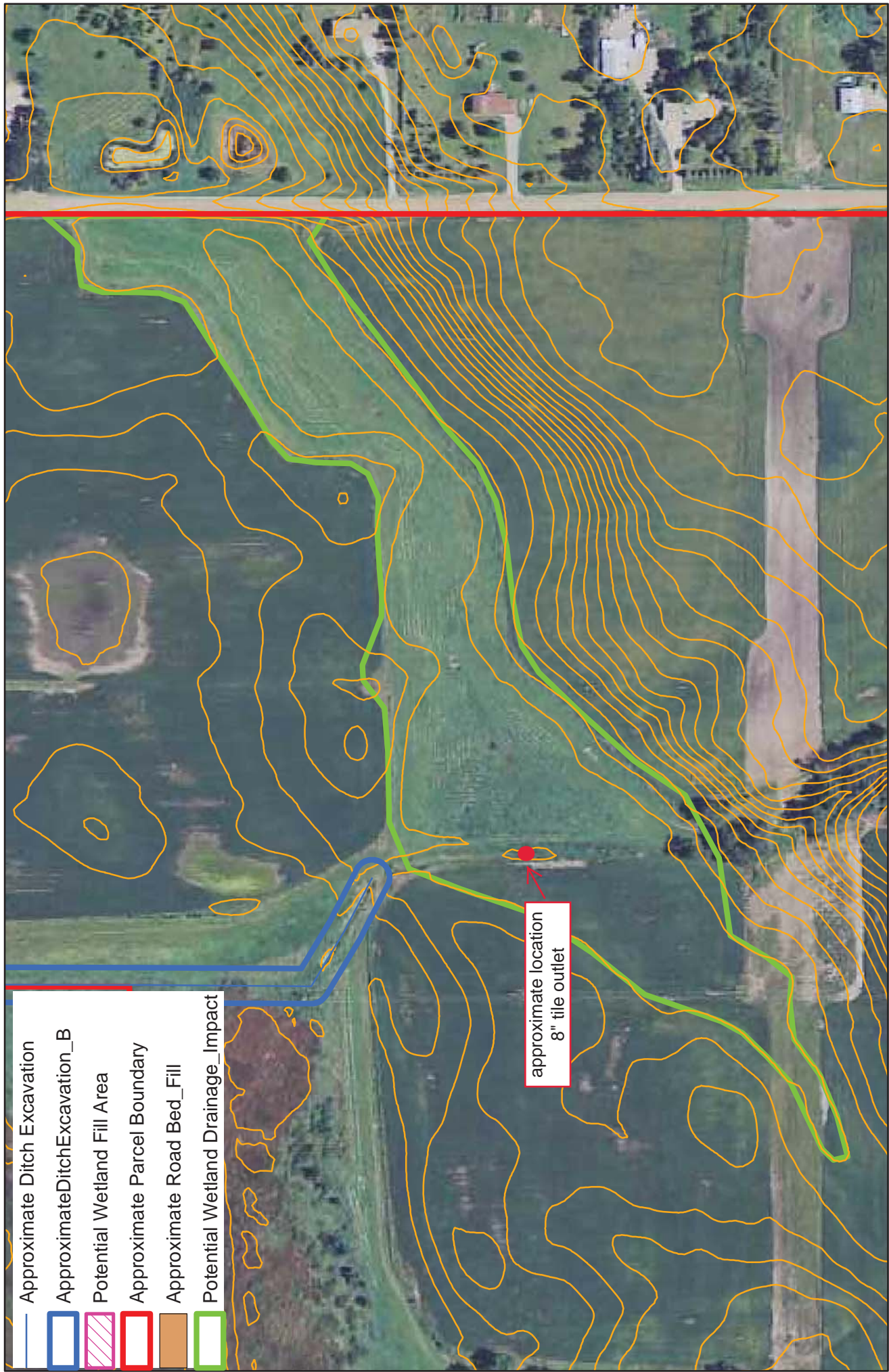
- Approximate Ditch Excavation
- Approximate Ditch Excavation_B
- Potential Wetland Fill Area
- Approximate Parcel Boundary
- Approximate Road Bed_Fill
- Potential Wetland Drainage_Impact



Potential Wetland Drainage (2003)

Ernier Mayer Parcels
Corcoran, MN



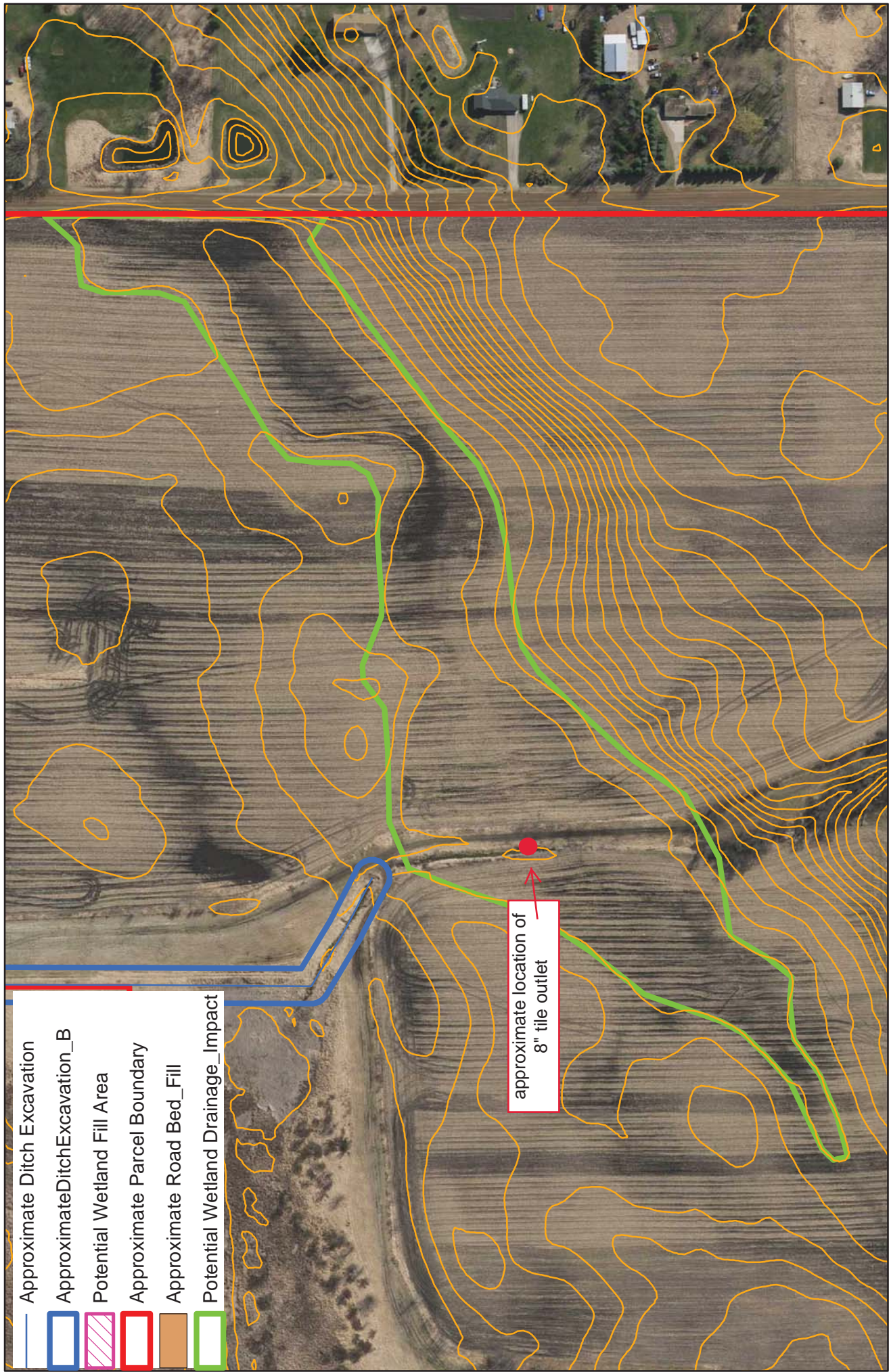


Potential Wetland Drainage (2010)

Ernier Mayer Parcels
Corcoran, MN

EXHIBIT K Page 3 of 4





Potential Wetland Drainage (2016)

Ernier Mayer Parcels
Corcoran, MN

EXHIBIT K Page 4 of 4



Technical Memo



Responsive partner.
Exceptional outcomes.

To: Shingle Creek/West Mississippi WMO Commissioners

From: Ed Matthiesen, P.E.
Diane Spector

Date: July 3, 2018

Subject: Watershed-based Pilot Funding Update

Recommended Commission Action

Designate a person to serve on the Chloride Steering Committee.

Attached are the documents Hennepin County submitted to BWSR on behalf of the eleven watersheds documenting the planning process and the final list of projects and practices to be funded by the \$1,018,000 Watershed-based Funding Pilot Program. As per your instructions at a previous meeting, the funds allocated to the two commissions will be used to supplement the Cost Share Program for city-constructed BMPs. The commissions will have up to four years to expend the funds. BWSR will review that attached information and if it is acceptable BWSR will proceed to contracting. It will likely be September-October before the funds are released.

In the meantime, the group has decided to form a Steering Committee to guide the development (and eventual implementation) of a plan related to the Countywide Chloride Programming. The Riley-Purgatory-Bluff Creek WD has agreed to be the fiscal agent and lead agency. The work will proceed in two phases: development of a plan to target commercial and association-based sources or chloride pollution - businesses, malls, HOAs, property management companies and the private applicators that they hire. The Steering Committee will hire a consultant to facilitate focus groups with private applicators, as well as those that execute contracts with private applicators. These focus groups will help identify needs and barriers for each target audience. The consultant will compile information into a plan for implementation.

The second phase will be implementation. Specific implementation tasks will be defined by plan development and based on identified needs and barriers to the target audiences. However, activities may include (but are not limited to): outreach "legwork" to reach the target audience, additional workshops, revision and/or addition of curriculum, attendance incentives, or BMP cost-share program for applicators.

Hennepin County and RPBCWD have asked each watershed to designate a person to represent them at the Steering Committee. That person may be a Commissioner, TAC member, or staff person. At this time it is not known how many meetings would be required or how frequent they would be, but they will likely be day meetings.

Z:\Watersheds - Shared\BWSR Funding\M-July WBF Update.docx

Description of Collaborative Partnership – Hennepin County

Due to the large number of eligible entities in Hennepin County (57) and the complexity of collaboration, Hennepin County and the eleven watershed districts and management organizations held a series of 3 “pre-meetings” to discuss options – from opting for competitive grants to more meaningful, truly integrated collaboration on shared resource concerns. Notes from these meetings are attached as Appendix A. Over the course of these meetings the 11 watersheds went from being roughly split on whether it was worth pursuing a Collaborative Project Proposal at all, to consensus on a recommended collaborative approach that was presented and agreed upon by all eligible Watershed-based Funding Pilot Program entities choosing to participate in the Convening Meeting.

Very early in the pre-meeting process, one watershed suggested a formula-based allocation of the funds based on land area and taxable market value – an approach that an adjacent county had already decided upon. The group very quickly came to consensus that this would be the default Collaborative Proposal if another Proposal could not be agreed upon by the deadline. Hennepin County calculated watershed disbursements based on a variety of iterations of formulas involving land area and taxable market value. There was consensus that the favored formula would be an option presented to the broader group of eligible entities at the Convening meeting.

Once this first option was identified, remaining efforts were animated by question like: “what can we do better together?” and “what are our shared resource concerns?”. These questions led to conversation about chloride as a county-wide shared resource concern. The group also considered how they could collaborate within each major river basin (Mississippi, Minnesota, Crow) to prioritize and target implementation efforts.

The Mississippi River basin subgroup explored how they could work across watershed boundaries to select the best projects for shared resource concerns. This basin-level collaborative generated a shared project list and criteria that ranked projects proposed by all watersheds against one another (attached as Appendix B). This process is a model that could be acted upon in the future if this Pilot Program continues. Ultimately, this prioritized project list was not recommended by the group due to the uncertain nature of future funding of this sort. Watersheds whose projects were not highly ranked, felt uncomfortable giving up an opportunity to bring in some money for projects in this initial Pilot Program round. However, most expressed a willingness to consider doing so in the future if there was certainty that the Program would continue.

Following the pre-meetings, Hennepin County invited eleven watershed organizations and representatives from 45 Cities to participate in the Convening meeting. Watershed representative provided email contacts for staff from Cities that work with them directly. In addition, the County provided a list of emails for Mayors and City Managers. In all, 99 people representing entities eligible for receiving the Watershed-Based Funding and BWSR staff received an email inviting them to participate in the Convening meeting.

Twenty-seven people representing 26 eligible entities attended the Convening meeting on May 16. One person (eligible entity) expressed interest in the process, but did not attend the meeting. The group agreed to make decision through a process of discussion leading to a general consensus. Consensus was confirmed by stating the decision and asking if anyone had objections to the consensus as stated.

Eligible entities electing to participate:

City of Bloomington
 City of Brooklyn Center
 City of Chanhassen
 City of Corcoran
 City of Crystal
 City of Dayton
 City of Loretto
 City of Medina
 City of Minneapolis
 City of Minnetonka
 City of Minnetrista
 City of Mound
 City of Plymouth
 City of Richfield
 City of Robbinsdale
 Bassett Creek Watershed Management Commission
 Elm Creek Watershed Management Commission
 Lower Minnesota River Watershed District
 Minnehaha Creek Watershed District
 Mississippi WMO
 Nine Mile Creek Watershed District
 Pioneer-Sarah Creek Watershed Management Commission
 Richfield-Bloomington Watershed Management Commission
 Riley Purgatory Bluff Creek Watershed District
 Shingle Creek Watershed Management Commission
 West Mississippi Watershed Management Commission

The group elected to make Hennepin County the Collaborative Partnership's Convener.

The group agreed to dedicate 10% of the County's Watershed-based Funding (\$101,800) to countywide chloride programming, and distribute the remainder to watershed districts and watershed management organizations according to a formula that takes into account land area (50% of consideration) and taxable market value (50% of consideration) as detailed in the table below.

	Allocation
Lower Minnesota WD*	\$31,200
Minnehaha Creek WD	\$249,151
Nine Mile Creek WD*	\$91,890
Riley Purgatory Bluff Creek WD*	\$55,901
Bassett Creek WMO	\$68,573
Elm Creek WMO	\$134,486
Mississippi WMO	\$104,893
Pioneer Sarah Creek WMO	\$58,317
Richfield-Bloomington WMO*	\$18,218
Shingle Creek WMO	\$68,129
West Mississippi WMO	\$35,442

Watershed Districts and Management Organizations in the Minnesota River Basin (asterisks in table above) have elected to pool their allocations to invest in a common resource concern, chloride pollution.

Watershed Districts and Management Organizations in other major river basins have elected to dedicate Watershed-Based Funding allocations to projects already existing and shovel-ready (or nearly shovel-ready) in their Watershed Management Plans, as detailed in the attached table. Each watershed intending to complete projects with the Watershed-based Funding Pilot Program grants selected their own projects.

Appendix A

**Watershed-based Funding Pilot Project
Hennepin County Pre-Convene Meeting 1
January 23, 2018
Location: Riley Purgatory Bluff Creek Watershed District**

Present:

Mississippi WMO – Doug Snyder and Stephanie Johnson
Shingle Creek and West Mississippi Watershed Management Commissions – Diance Spector (Wenck)
Elm Creek and Pioneer-Sarah Creek Water Management Commissions – Amy Jununen (JASS)
Lower Minnesota River Watershed District – Linda Loomis
Minnehaha Creek Watershed District – Becky Christopher
Riley Purgatory Bluff Creek Watershed District – Claire Bleser
Bassett Creek Watershed Management Commission – Laura Jester
Richfield-Bloomington WMO – Jeff Pearson (by phone, kind of)
BWSR – Steve Christopher and Brad Wozney
Hennepin County – Karen Galles

Background:

BWSR is piloting a watershed-based funding program that has allocated \$1,018,000 to Hennepin County for FY18/19. Eligible entities have been tasked with deciding on and describing a collaborative approach to spend that money by June 30, 2018. If eligible entities cannot agree or choose not to attempt a collaborative approach, the money will revert to a metro-wide competitive pool of funds. Eligible entities in Hennepin County include watershed districts, watershed management organizations, and cities. This “pre-convene” meeting of BWSR, the county’s 11 watershed entities, and the County was intended to gauge interest among watersheds in pursuing a collaborative approach and to discuss strategies for engaging the county’s 35 eligible cities.

Presentation:

Karen Galles from Hennepin County presented slides (attached) to provide context to the conversation and including the basics of 3 strawman ideas for a collaborative approach. Three strawman ideas included:

1. Running a Hennepin County competitive process
2. Distributing funds based on some formula (e.g. area, taxable market value, combination of those two)
3. Prioritizing projects based on major river basins (Crow, Mississippi, Minnesota)

Individual Watershed Impressions:

Each watershed organization took a turn updating others on their initial thoughts about attempting a collaborative approach. In general, all watershed organizations were willing to consider a collaborative approach – ranging from cautious to cautiously optimistic. There was also general consensus on the need for keeping it simple and being mindful of time commitment that would be required to decide upon and define a collaborative approach by June. Some other key points raised about things to consider if we pursue a collaborative approach included:

- We could consider prioritizing project sponsored by LGU partners in an effort get them to defer to watersheds in the collaborative process, thereby creating a manageable number of collaborators
- We could consider requiring (internally) a 25% match in order to stretch the money further.
- We could identify a specific need or type of resource (e.g. impaired waters) that we will collaborate to accomplish or target.
- We should be aware that needs in different parts of the county are different and it may not make sense to rank priorities against each other countywide.
- Thinking about what we can do better together and/or those things that are priorities for *us* but haven't been priorities for BWSR is an exciting thing – a collaborative approach is an opportunity for us to focus on those things.
- Any collaborative approach might be more about timing and predictability of funding – how do we plan/schedule projects far enough in advance that all partners can know when “their” project will be coming up for funding and plan for that?

Discussion & Next Steps:

- Going competitive metro-wide was the least favored option.
- A lengthy discussion of how eligible Cities could opt out of participating resulted in a great deal of uncertainty related to the practicality of accomplishing a collaborative approach before June. Some around the table believe that the cities have a legal right to challenge this process and unless we seek and achieve City Board action to opt out of participation we will be at risk of being legally challenged. **Steve Christopher was going to provide clarity on this question.**
- Most around the table felt that if we needed Board action from cities to opt out of the process, then metro-wide competitive may be the only feasible option.
- After we receive clarity on this questions from BWSR these entities will meet again to discuss next steps.
- In general, path forward identified was
 - Get clarity on question related to eligible Cities.
 - Meet again with a focus on more clearly defining 2-3 Collaborative approaches that could be presented to the broader group of eligible entities (including Cities)
 - Karen will develop a more accurate estimate of a funding formula based on 50% land area and 50% taxable market value.
 - We will further discuss what collaboration within major river basins could look like.
 - Meanwhile, watersheds should be communicating with Cities (probably through TAC meetings) to help them understand the funding program and “marketing” an approach where cities work through watersheds as their representative.
 - Once we have settled on 2-3 options that this group likes, convene a meeting with all eligible entities and present those options as a limited number of choices to the broader group and attempt to get buy-in for the approach.
 - Based on the outcome of that meeting, document collaborative approach and governance system, or pursue simpler path
- Regardless of our success in pursuing a collaborative approach this time around, the consensus among the group was that we should continue meeting (every other month?) to work toward an operating collaborative approach for future funding rounds.

Watershed-based Funding Pilot Project
Hennepin County Pre-Convene Meeting 2 Minutes
Location: Golden Valley Library
February 27, 2018

Present:

Mississippi WMO – Doug Snyder
 Shingle Creek and West Mississippi Watershed Management Commissions – Diane Spector (Wenck)
 Elm Creek and Pioneer-Sarah Creek Water Management Commissions – Amy Juntunen (JASS)
 Lower Minnesota River Watershed District – Linda Loomis
 Minnehaha Creek Watershed District – Becky Christopher
 Riley Purgatory Bluff Creek Watershed District – Claire Bleser
 Bassett Creek Watershed Management Commission – Laura Jester
 Richfield-Bloomington WMO – Bryan Gruidl
 BWSR – Steve Christopher and Brad Wozney
 Hennepin County – Karen Galles
 City of Crystal, Shingle Creek WMC – Burt (Last Name?)

1. Eligible Entities vs. Eligible Activities
 - BWSR has released additional guidance on entities that are eligible to receive funds through the watershed-based funding pilot program. Cities with approved local water management plans are eligible recipients, however *activities* are only eligible if they appear in the Plan of a watershed district or watershed management organization. So, in order for a City to receive funding through this program, they would need to propose an activity that is already in a watershed's plan.
 - An eligible entity will be considered to be declining to participate in the Watershed-based Funding Pilot Program if they either 1.) do not attend the convening meeting AND do not communicate that they wish to participate (even though they cannot attend) OR 2.) by stating that they decline to participate.
2. Other Counties – Steve C. and Karen G. provided some updates on what other counties are planning to do. Steve C. is meeting with other field staff and agreed to send around an update with more complete update of how other metro counties are proceeding.
3. General Conversation
 - a. Karen updated tables showing how money would be distributed based on formulas and provided in hard copy.
 - b. Steve C: is there a value below which a grant is not worth it? Diane: How much effort are you anticipating? Steve: same level of outcome reporting as other Clean Water Fund grants, but less detailed workplan
 - i. MWMO – close to \$100,000, need to supply people with enough money to do projects; should we require a different match? MCWD
4. Collaboration Options, Ideas, Discussion
 - a. Diane: What about focusing on chloride impaired waters – what about setting aside some of these funds for collaborative chloride education and outreach, something higher profile than what has been happening? Eligible: yes (per Steve C.).
 - i. General agreement around the table that this is a good idea and worth pursuing
 - ii. Education around this idea is something that we all work on individually, so collaborating would improve efficiency and bring consistency to the message, which will have a greater impact.

- iii. Some things that we could consider including in a countywide collaborative chloride effort:
 - 1. Permeable paver research
 - 2. Retrofitting pick-up trucks for liquid de-icers, sweepers
 - 3. Trainings and especially updated materials
 - 4. Cost share grants for chloride improvements to anyone that owns or operates in the County (Steve C. says it would be OK to provide cost share to a business that has contracts in Hennepin County even if the business address is outside of the county).
 - iv. Becky: how is this going to be more coordinated? There's no reason that we couldn't currently be collaborating, but we're not. Diane: this could fund staff that could perform the outreach necessary to get folks there and trained. We could hire someone to do marketing/outreach that works countywide.
 - v. A sub-group should get together and scope this and propose some budget options corresponding to a small, medium, and large effort – Diane, Claire, Bryan, Randy (9 Mile) all volunteered to work on this. Doug S. offered to pass along information about the chloride training they sponsor and their programming on this issue.
 - vi. We would need to work on what outcome metrics look like
 - b. Other Collaborative Ideas
 - i. Outreach to specific communities, e.g. Hmong community (Doug S.)
 - ii. Groundwater conservation? Interest, but would need the County to adopt a groundwater plan first.
 - iii. Wetland restorations? For this funding cycle this would be tough because the projects would need to be shovel-ready, but a way to collaborate on making some progress on that could be to invest in outreach staff that works across watershed boundaries only on project like this.
- 5. Formula based option: general consensus around the 50/50 Simple option (see attached).
- 6. Basin-level groups worked in small groups to talk about what they would do together with a basin-level allocation
 - a. Mississippi
 - i. Shared high level needs: nutrient reductions, addressing impaired waters
 - ii. General optimism that if each watershed organization brought one or two projects to the group to consider that they could come to consensus about which projects to put forward
 - iii. Demonstration potential could give a project a bonus point in scoring/ranking criteria
 - b. Minnesota – would work together to use Basin-level allocation to address chloride concerns, even if we choose to set aside some money off the top to do countywide chloride collaboration
 - c. Crow – general sense that the barrier to project implementation right now is staff to do direct to landowner outreach – will consider using Basin-level allocation to add capacity for that scope of work.
- 7. Next Steps:
 - a. Sub-groups will meet separately of large group (as needed) to further scope collaboration alternatives. (Chloride and Mississippi for sure. Pioneer-Sarah and HC will talk offline as well.

- b. Doodle polls for next meeting of all watersheds and for the official Convene meeting.
- c. All watersheds should talk to City reps on TACs about our general direction, to create some understanding about eligible entities vs. eligible activities.
- d. Karen will send an invitation to all eligible entities when we have a date/time/place for the Convening meeting; will let watershed know when that invitation will be sent out, so that they can make sure to communicate with city representatives before that time.

Funding By Basin (Approximate):

Basin	Each Year
Minnesota	\$219,048.63
Mississippi*	\$734,167.61
Crow*	\$64,783.76

By proxy formula allocation option ("50/50 Simple")(Approximate):

	Simple Allocation (50/50)
Lower Minnesota WD	\$34,638
Minnehaha Creek WD	\$276,923
Nine Mile Creek WD	\$102,104
Riley Purgatory Bluff Creek WD	\$62,098
Bassett Creek WMO	\$76,185
Elm Creek WMO	\$149,456
Mississippi WMO	\$116,559
Pioneer Sarah Creek WMO	\$64,784
Richfield-Bloomington WMO	\$20,208
Shingle Creek WMO	\$75,690
West Mississippi WMO	\$39,355

Watershed-based Funding Pilot Program
Pre-Convene Meeting 3
March 30, 2018

Present:

Amy Juntunen: Elm Creek, Pioneer-Sarah Creek, Shingle Creek, and West Mississippi Watersheds Commissions

Doug Snyder: Mississippi Watershed Management Organization

Linda Loomis: Lower Minnesota Watershed District

Karen Chandler: Bassett Creek Watershed Management Commission

Steve Christopher: Board of Water and Soil Resources

Bryan Gruidl: Richfield-Bloomington Watershed Management Organization

Diane Spector: Shingle Creek and West Mississippi Watershed Management Commissions

Becky Christopher: Minnehaha Creek Watershed District

Claire Bleser: Riley-Purgatory-Bluff Creek Watershed District

Karen Galles: Hennepin County

1. Review BWSR Process and Workplan Guidance – questions for Steve?

No questions.

2. Report out from chloride sub-group & Discussion

Diane Spector provided notes from a meeting of the Chloride sub-group, see below.

The general framework of the plan was to set-aside a percentage of the county allocation to go toward countywide chloride programming – the first year would largely be developing a strategic plan and beginning implementation actions, so could be a smaller amount of money. The second year would be full implementation of the strategic plan.

Discussion:

- Group preference to set-aside a specific sum estimated to be the amount required to accomplish specific objectives, instead of a percentage. \
 - **Action Item:** Chloride sub-group will meet again (or otherwise collaborate) to lay out some work tasks and attach them to some estimated budget figures.
- Can these funds be used to employ (or contract) an individual to do the legwork required to implement a plan? Steve Christopher: Yes.
- Since we last met at least two other counties (Anoka and Scott) have indicated that they may also use some of this funding to do some chloride-related programming – we should talk to them (and other metro counties) about coordinating efforts to do work that spans counties. Could also look into pooling funds to make the budget required from any one county smaller.
 - **Action Item:** Karen will discuss this with other metro area conveners at MACD meeting on April 4

- **Action Item:** Diane will check with Brooke Asleson about coordinated efforts coming out of her office, and opportunities for collaboration and to add value.
- Desire to not duplicate or replicate things that already exists, but there's no inventory of what already exists. One of the first tasks needs to be a thorough and intentional inventory of on-going efforts and existing materials related to this topic. One good forum for this could be Watershed Partners
 - **Action Item:** Amy will reach out to Watershed Partners to request an agenda item at an upcoming meeting where all partners bring everything they know about chloride efforts.
- Part of this effort needs to be an intentional effort to identify who the critical audience(s) are, WHY those are the critical audiences, and make every effort to create programming/messages/materials that are specifically relevant to those audiences.
- Funds available for equipment purchase could be used as an incentive to attend trainings, get some sort of certification – an entity may not be eligible to receive funds for equipment purchase unless they have attained some sort of certification, e.g.

Notes from the Chloride sub-group meeting:

Watershed-Based Funding – Chloride Subcommittee

March 23, 2018 meeting notes - dfs

Questions:

Set aside a percentage of the county-wide allocation – 10%?

Determine the coordinating agency or group – Hennepin County?

Can funds be used for a contract specialist to do the legwork?

First Year:

1. Develop strategic plan
 - Define stakeholders and audiences
 - Identify education and outreach and other needs
 - Identify materials/curriculum to be developed
 - Develop strategies to address needs, including communication plan
 - Develop Implementation Plan
2. Implement strategic plan

Second Year:

- Review and revise strategic plan as necessary
- Implement strategic plan

Potential implementation strategies:

- Workshops for applicators
- Outreach to property managers
- Promote contracting by application rather than tonnage applied
- Build strategic partnerships (e.g., MNLA, BOMA)

- Sponsor preconference certification workshop at MNLA conference
- Press releases, newsletter, website – advertising?
- Curriculum development (update current, add refresher course)
- Hands-on training
- Provide opportunities for story telling and info sharing between road authorities
- Small grants for equipment upgrades, other

3. Report out from major basin sub-groups

- **Mississippi** (Becky)
 - The group met and discussed the idea of putting some of their basin allocation directly toward work related to chloride (in addition to the Countywide funding being discussed) and generally felt that they may do that in the future when there's more certainty and more planning behind what the needs are.
 - Discussed criteria for selecting project within the basin
 - Eligibility: Targeting an impaired or near-impaired waters; demonstrated project readiness (land rights, cost-benefit analysis, capacity), partner support, and willingness to provide a 25% match
 - Rank projects based on: water quality benefits (tied to impairment), secondary benefits (e.g. community, demonstration value, ecological), cost-effectiveness, and opportunity cost (e.g. timing with partners)
 - The group has developed and populated a spreadsheet with potential projects
 - There's a general feeling that they could come to some agreement across the group.
- **Crow** (Amy)
 - There is a suite of 5 projects (Ardmore Avenue projects) that are shovel-ready that could use up to two years of funding from the watershed-based funding program.
 - Also interested in using some of these funds to provide cost-share to landowners for project identified in subwatershed assessments (e.g.) and to add capacity for outreach staff.
 - Discussion: would the group be OK with using these funds to help fund landowner projects where the landowner pays less than 25% of the cost (because other funding sources are pooled)? Yes – as long as there's at least 25% match to THESE funds through a variety of sources, everyone would be fine with that.
- **Minnesota** – no report – still thinking that they would devote all of their basin funds to chloride work within the scope of what was described above

4. Finalize the structure of Collaboration Options

- Collaboration Option 1: formula using area and property tax base
- Collaboration Option 2: Take \$XXX for countywide chloride programming, and distribute remainder of funds via formula in Option 1
- Collaboration Option 3: Take \$XXX for countywide chloride programming, and distribute remainder of funds to major river basins to use as described in Item 3.

- **Action Item:** Karen will provide charts with exact dollar amounts once she receive an estimated budget for the chloride collaboration
- **Action Item:** Diane (chloride sub-group) will circulate work tasks and estimated budget for feedback ASAP, so that we can get to specific dollar amounts for each of these options ASAP.
- Discussion: do we have a preference?
 - Yes – everyone who expressed a preference, expressed a preference for Option 3.

5. Determine next steps and responsibilities prior to Convening Meeting

- Convening Meeting is scheduled for May 16 and the Plymouth library.
- **Action Item:** All – if you haven't already added contact information for City staff contacts/PW directors that you work with to Karen's google spreadsheet, do so ASAP. Most have, but if you haven't, please check the name that has been provided and add additional contacts if you have them.
- Karen will send an invitation via email to list provided + administrators. Karen will send a DRAFT of that email around to this group by 4/6.
- Karen will also send an outline of what we will present by 4/6
- BWSR will plan to provide 15 minute presentation similar to what they've provided at other convening meetings.
- Discussion: Should we present all three Collaboration Options? Or just Option 3 (which we prefer) – different opinions on this around the table. The draft outline will include minimal slide on non-preferred options and more detail on the Option 3 – we can always delete these slides on other options as the meeting gets closer.
- Discussion: Objectives of the Convening Meeting
 - i. Suggestions for making this better?
 - ii. Can we move forward with our preferred collaboration options?
 - iii. What projects do you (Cities) have that you would like us to have in our plans for consideration for the next funding cycle?
- Discussion: Do we advocate for our preferred option?
 - i. In general, yes. If we have a perspective that favors collaborating then we need to make a case for doing that. It will be in the self-interest of some watershed organizations (e.g. Elm Creek) so say that they just want their share (Option 1) and we need to be prepared to make a case for why we want to take a more collaborative approach.
 - ii. **Action Item:** All – some of this “making the case” work should be done with city contacts before the convening meeting.
 - iii. **Action Item:** Karen will work with HC Communications to develop a quick fact sheet (2-pager) about the program and our preferred approach.

Appendix B
Hennepin County Mississippi Basin Projects Submitted for Consideration
4/18/2018

		Benefits Scored 1 (Low) to 5 (High)				Est Total Project Cost	CWF request	Partnership Entities	Opportunities & Readiness	Resource Impact (TMDL, impaired water, protection	Project Goals (WQ, quantity, habitat, education, demo, groundwater)	Potential allocation options (assuming total = \$641,611)													
		WQ Benefit 60%	Ancillary Benefit 30%	Community Benefit 10%	Total Weighted Points							Option 1 - 3 tiers, 2.5 cutoff		Option 2 - 3 tiers, 3.5 cutoff		Option 3 - 4 tiers, no cutoff		Option 4 - \$50K base funding + option 2			Option 5 - \$30K base funding + option 2			Option 6 - 50/50 Formula	
Watershed	Project Brief Description											Tier	Funding	Tier	Funding	Tier	Funding	Base	Additional	Total	Base	Additional	Total		
Minnehaha Creek	325 Blake Road – redevelopment of 17-acre industrial parcel on Minnehaha Creek in Hopkins, providing regional stormwater treatment and restoration/expansion of riparian corridor http://www.minnehahacreek.org/project/325-blake-road-redevelopment	5	4	4	4.6	\$4,899,698 total; approximately \$2,162,000 in stormwater management costs	\$1,250,000 (excludes 25% match and \$370,000 in CWF received in 2017)	City of Hopkins	District-owned property. Construction is planned for 2019-2020.	Minnehaha Creek flows into Lake Hiawatha which is impaired for nutrients. Minnehaha Creek is impaired for <i>E. coli</i> , chlorides, DO, fish IBI, and macroinvertebrate IBI. There is an approved TMDL for the nutrient and <i>E. coli</i> impairments.	Will treat stormwater from over 270 acres, removing an estimated 181 lbs of phosphorus, as well as other pollutants (TSS, <i>E. coli</i> , etc.). Will decrease stormwater volume to the creek by approximately 12 acre feet and decrease rates/flashiness. Environmental remediation of contaminated site. Approximately 4 acres of restored riparian corridor. Will connect to existing Minnehaha Greenway trail/park system.	3	\$ 128,322	3	\$ 192,483	4	\$ 106,935	\$ 50,000	\$ 102,483	\$ 152,483	\$ 30,000	\$ 138,483	\$ 168,483	\$ 249,111	
Mississippi WMO	Part of a larger effort to increase flood resiliency, improve water quality and improve ecological function in a 2,000-acre watershed in NE Mpls. This first phase of construction includes the expansion of an existing pond and installation of two new ponds, an underground storage gallery and new trunk storm sewer in Columbia Golf Course and Columbia Park. Water quality benefits are realized from the two new and one expanded pond. The one expanded and two new ponds will treat water from 250-acres of previously untreated area; they are estimated to remove over 100 lbs of TP per year	5	4	4	4.6	\$7.9 million total construction cost; \$950,000 for the ponds and associated ecological restoration (buffers/plantings around the ponding areas)	\$450,000 (excludes 25% match and \$705,000 in CWF received in 2017)	City of Minneapolis; Minneapolis Park and Recreation Board	2019?	This stretch (and downstream stretches) of the Mississippi River impaired for nutrients	Water quality Flood reduction Habitat improvements Demonstration (pilot project)	3	\$ 128,322	3	\$ 192,483	4	\$ 106,935	\$ 50,000	\$ 102,483	\$ 152,483	\$ 30,000	\$ 138,483	\$ 168,483	\$ 104,853	
Minnehaha Creek	Arden Park – stream restoration, stormwater management, and park improvements in Edina http://www.minnehahacreek.org/project/arden-park-restoration	4	5	4	4.3	\$1,827,000 total; approximately \$940,000 in stormwater management costs	\$705,000 (excludes 25% match)	City of Edina	City-owned property. Project is in design with construction planned for 2019.	Minnehaha Creek flows into Lake Hiawatha which is impaired for nutrients. Minnehaha Creek is impaired for <i>E. coli</i> , chlorides, DO, fish IBI, and macroinvertebrate IBI. There is an approved TMDL for the nutrient and <i>E. coli</i> impairments.	Will treat stormwater from approximately 107 acres, removing an estimated 29 lbs of phosphorus, as well as other pollutants (TSS, <i>E. coli</i> , etc.). Restoration of approximately 2000 feet of stream, including removal of a dam and improvement of in-stream and riparian habitat. Will improve public safety, creek access, and park amenities through partnership with City.	3	\$ 128,322	2	\$ 128,322	4	\$ 106,935		\$ 68,322	\$ 68,322		\$ 92,322	\$ 92,322		
Elm Creek	Elm Creek Stream Restoration Phase IV & Lowell Pond Raingarden/BMPs. Restore streambank 5,000 linear feet ½ mile upstream of Mill Pond/Mississippi River. Install Raingarden and other BMPs for areas tributary to Mill Pond/Elm Creek (directly upstream/adjacent to Mill Pond)	4	4	3	3.9	\$1,000,000	\$250,000-500,000	Elm Creek WMO, City of Champlin.	2019	Elm Creek TMDL	Restore streambanks to provide bank habitat structure, reduce TSS, Total P, and increase DO. Install varied substrate to enhance aquatic species habitat such as Blandings Turtle. Project will be included in Elm Creek Mill Pond Educational Program coordinated with Champlin Environmental Resources Commission. www.elmcreek.org	3	\$ 128,322	2	\$ 128,322	4	\$ 106,935		\$ 68,322	\$ 68,322		\$ 92,322	\$ 92,322		
Shingle Creek	Becker Park Infiltration Project. This project will construct an underground storage and treatment system in Becker Park in the City of Crystal to infiltrate runoff from a 147-acre, 51% impervious subwatershed to the west and south. The project will also help alleviate occasional street flooding on Bass Lake Road (County Road 10).	5	2	1	3.7	\$2.5 million	\$250,000	City of Crystal, Hennepin County	Phase 1 and 2 ESA completed, 60% plans completed, final plans being developed, expected to bid in late 2018 for construction in 2019	TMDL Impaired Water (Upper Twin Lake)	Water quality, flood control, groundwater recharge; estimated 118 lbs/yr removal	2	\$ 85,548	1	\$ 64,161	3	\$ 80,201	\$ 50,000	\$ 34,161	\$ 84,161	\$ 30,000	\$ 46,161	\$ 76,161	\$ 134,446	
Elm Creek	Hickory Drive Stormwater Improvements. Install stormwater pond for 8.3-acre drainage area (50% impervious). Stabilize approximately 300 linear feet of gully erosion. Install approximately 700 feet of curb and 600 feet of storm sewer to capture and direct stormwater to improvements.	4	1	1	2.8	\$225,000	\$56,250-160,000	Elm Creek WMO, City of Medina	2019	Elm Creek TMDL, Elm Creek is adjacent to the project area. Drainage to Elm Creek is currently not treated. Elm Creek is impaired for nutrients, bacteria and DO. Project will reduce nutrients and runoff rate.	Estimated the phosphorus removal would be approximately 26.6 lbs/year. This removal is estimated to consist of an estimated 16 lbs/year for the pond plus 10.6 lbs/year phosphorus reduction for the gully/erosion improvements	2	\$ 85,548	1	\$ 64,161	3	\$ 80,201	\$ 50,000	\$ 34,161	\$ 84,161	\$ 30,000	\$ 46,161	\$ 76,161	\$ 68,089	
Mississippi WMO	MWMO is partnering to layer stormwater management into greening efforts in Downtown Minneapolis. This project will capture and treat the first 1-inch of runoff from 2 city blocks along 8 th St S in Downtown Minneapolis; roadway, sidewalk and (in some cases) alley runoff will be directed into the BMPs. Large, stormwater planters will be installed and vegetated with trees and drought tolerant vegetation. Estimated annual pollutant removals: 1 lb TP and 240 lb TSS. MWMO staff will monitor the performance of the installations, to observe impacts of salt and other pollution originating in the transportation ROW.	2	4	2	2.6	\$400,000 construction cost	\$200,000 MWMO has \$200,000 set aside to support this effort	Minneapolis Downtown Improvement District; City of Minneapolis	Starting in 2019	This stretch (and downstream stretches) of the Mississippi River impaired for nutrients	Demonstration Water quality Education	1	\$ 42,774	0	\$ -	2	\$ 53,468	\$ -	\$ -		\$ -	\$ -			
Bassett Creek	<u>Westwood Lake Improvement Project</u> - Part of larger reconstruction project of Westwood Hills Nature Center (WHNC), a 160-acre park located in St. Louis Park. Additional water quality improvements to treat stormwater runoff that would otherwise flow untreated to Westwood Lake will be installed and will go "above and beyond" WQ requirements. Current options include pervious pavers in parking lot, expansion of filtration basins, or diverting roof and patio runoff into a linear water feature/creek bed. http://www.bassettcreekwmo.org/projects/all-projects/westwood-lake-water-quality-improvement-project	1	2	4	1.6	\$300,000 - \$420,000	\$150,000	City of St. Louis Park (city owns/operates nature center)	Feasibility study to be final May 2018. Design starts late 2018. Construction 2019	Westwood Lake, St. Louis Park Good water quality No impairments Chlorides on the rise	WQ protection. Decrease in chlorides (if pervious pavers chosen) Education (much potential for education as it's a nature center with primary mission of environmental education) Improved habitat (natives planted in filtration basins and linear water features)	0	\$ -	0	\$ -	2	\$ 53,468		\$ -	\$ -		\$ -	\$ -		
West Miss WMO	Mississippi Crossings Infiltration Vault: The Mississippi Crossings redevelopment area in the vicinity of TH 169 and West River Road provides for a potential expansion of the Mississippi River Trail through the redevelopment area. The proposed infiltration vault would provide treatment for trail and parking facilities. The area currently discharges untreated into the Mississippi River.	2	1	1	1.6	\$200,000	\$100,000	City of Champlin	2019	TMDL Impaired water (South Metro Turbidity)	Water quality	0	\$ -	0	\$ -	1	\$ 26,734	\$ 50,000	\$ -	\$ 50,000	\$ 30,000	\$ -	\$ 30,000	\$ 68,533	
Total												15	\$ 641,611	10	\$ 641,611	24	\$ 641,611	\$ 300,000	\$ 341,611	\$ 641,611	\$ 180,000	\$ 461,611	\$ 641,611	\$ 660,434	
MCWD Total													\$ 256,644		\$ 320,806		\$ 213,870			\$ 220,806			\$ 260,806	\$ 249,111	
MWMO Total													\$ 171,096		\$ 192,483		\$ 160,403			\$ 152,483			\$ 168,483	\$ 104,853	
Elm Total													\$ 128,322		\$ 64,161		\$ 133,669			\$ 84,161			\$ 76,161	\$ 134,446	
Shingle Total													\$ 85,548		\$ 64,161		\$ 80,201			\$ 84,161			\$ 76,161	\$ 68,089	
Bassett Total													\$ -		\$ -		\$ 26,734			\$ 50,000			\$ 30,000	\$ 68,533	
West Miss Total													\$ -		\$ -		\$ 26,734			\$ 50,000			\$ 30,000	\$ 35,402	

Hennepin County Collaborative Project List										
Responsible Party/Agency	Name of Activity/Project/Program	Description of Activity/Project/Program	Plan reference	Water Resource(s)	Timeframe for implementation	Grant funds requested	Local match funds (minimum 10%)	Total project cost	Measurable Outcomes	Other Notes (if needed)
RPBCWD (on behalf of all County watersheds)	Countywide Chloride Collaborative - Program Development & Planning	Develop a plan to target commercial and association-based sources or chloride pollution - businesses, malls, HOAs, property management companies and the private applicators that they hire. We will hire a consultant to facilitate focus groups with private applicators, as well as those that execute contracts with private applicators. These focus groups will help identify needs and barriers for our target audience. The consultant will compile information into a plan for implementation.	LMRWD: 1.4.1,1.6.3 2015 Bassett Creek Watershed Management Plan, Section 4.1 and Section 4.2.1 policy #'s 7, 17, and 18. MCWD Watershed Management Plan, Section 3.5.4, 3.9.2, 3.9.3, 3.9.4, and 3.9.8.	All waters of the County, but especially chloride impaired waters, e.g. Shingle Creek, Minnehaha Creek, Nine Mile Creek	2018-2019	\$30,000.00	\$3,000.00	\$33,000.00	Needs and barriers of target audience identified; 2-4 focus groups held; plan written; work administered.	
RPBCWD (on behalf of all County watersheds)	Countywide Chloride Collaborative - Program Implementation	Specific implementation tasks will be defined by plan development and based on identified needs and barriers to our target audience. However, activities may include (but are not limited to): outreach "legwork" to reach the target audience, additional workshops, revision and/or addition of curriculum, attendance incentives, BMP cost-share program for applicators	LMRWD: 1.4.1,1.6.3 2015 Bassett Creek Watershed Management Plan, Section 4.1 and Section 4.2.1 policy #'s 7, 17, and 18. MCWD Watershed Management Plan, Section 3.5.4, 3.9.2, 3.9.3, 3.9.4, and 3.9.8.	All waters of the County, but especially chloride impaired waters, e.g. Shingle Creek, Minnehaha Creek, Nine Mile Creek	2019-2021	\$71,800.00	\$7,180.00	\$78,980.00	To be determined based on implementation plan activities, but may include: private applicators reached, private applicators certified, BMPs implemented by private applicators, salt contract executors reached, salt contract executors making changes to contract requirements, tons to salt application avoided, workshop attendees	Actual activities and measurable outcomes to be updated upon completion of Plan.
RPBCWD (on behalf of all Minnesota River watersheds)	MN River Chloride BMP Implementation	The Lower Minnesota River Watersheds are coming together to offer cost-share grants.	LMRWD: 1.4.1,1.6.3	Nine Mile Creek, Riley Creek, Purgatory Creek, Bluff Creek, Minnesota River, All lakes in all 4 watershed districts	2018-2021	\$197,209.00	\$19,721.00	\$216,930.00	Reduce Chloride through providing grants to applicators to retrofit equipment to use efficient technology to maintain sidewalks and roads. We anticipate 8-15 grants to be issued.	Match will be divided in between watershed proportionally based on the 50/50 split funding formula
Pioneer-Sarah WMC	Ardmore Avenue Projects	These are 4 projects on land controlled by the City of Medina in the Lake Ardmore area. They came about because of the Lake Ardmore Stormwater Retrofit Assessment done by the City in cooperation with the PSCWMC, Hennepin County and Hakanson-Anderson Engineering. The purpose of the project is to reduce the sediment (TSS) and nutrient (phosphorus) loads that get to Lakes Ardmore and Independence. The reduction of phosphorus and TSS loading into these lakes will improve the in-lake water quality conditions.	CIP, Section 4.2.2 Implementation Plan, TMDLs.	Lake Ardmore, Lake Independence.	2018	\$58,317.00	\$16,233.00	\$74,550.00	Reduce 6.4 lbs/year TP; reduce TSS	
Elm Creek WMC	Elm Creek Stream Restoration	Elm Creek Stream Restoration Phase IV is located ½ mile upstream of the Mill Pond. This phase includes 5,000 linear feet of stream bank restoration of Elm Creek to restore stream bank and aquatic habitat and remove excess nutrient laden sediment.	CIP, Section 4.3.1 Implementation Plan, and 4.4.4 TMDLs.	Elm Creek	2019	\$134,486.00	\$450,000.00	\$584,486.00	Increase dissolved oxygen, restore 5,000 linear feet of stream bank, decrease TSS, decrease TP, enhance aquatic habitat	
Shingle Creek WMC	Cost Share Program	The Cost-Share Program provides matching funds to member cities to undertake small pollutant load and runoff volume reduction projects typically costing less than \$100,000.	Third Generation Management Plan, Table 4-5 (p 4-20) and Appendix F-4, as revised	Varies	2019-2020	\$68,129.00	\$200,000.00	\$268,129.00	TP load and runoff volume reduction varies by project	Application and guidelines are available at http://www.shinglecreek.org/member-city-resources.html
West Mississippi WMC	Cost Share Program	The Cost-Share Program provides matching funds to member cities to undertake small pollutant load and runoff volume reduction projects typically costing less than \$100,000.	Third Generation Management Plan, Table 4-6 (p 4-23) and Appendix F-4, as revised	Mississippi River	2019-2020	\$35,442.00	\$100,000.00	\$135,442.00	TP load and runoff volume reduction varies by project	Application and guidelines are available at http://www.shinglecreek.org/member-city-resources.html
Minnehaha Creek WD	325 Blake Rd. Regional Stormwater and Greenway	Redevelopment of 17-acre industrial parcel on Minnehaha Creek in Hopkins, providing regional stormwater treatment and restoration/expansion of riparian corridor - http://www.minnehahacreek.org/project/325-blake-road-redevelopment	325 Blake Road Regional Stormwater and Greenway project, page 477	Minnehaha Creek (impaired for fish IBI, macroinvertebrate IBI, E. coli, chloride, DO) and Lake Hiawatha (impaired for nutrients)	2019-2020	\$125,000.00	\$1,644,250.00	\$1,769,250.00	Will treat stormwater from over 270 acres, removing an estimated 181 lbs of phosphorus, as well as other pollutants. Will decrease stormwater volume to the creek by approximately 12 acre feet and decrease rates/flashiness. Environmental remediation of contaminated site. Approximately 4 acres of restored riparian corridor. Will connect to existing Minnehaha Greenway trail/park system.	Total cost listed is for regional stormwater facility (excludes demo and stream/habitat improvements).
	Arden Park Stream Restoration/Stormwater Management	Partnership with City of Edina to restore a section of Minnehaha Creek (dam removal, remeander, habitat improvements) and manage stormwater - http://www.minnehahacreek.org/project/arden-park-restoration	Arden Park Stream Restoration project, page 479	Minnehaha Creek (impaired for fish IBI, macroinvertebrate IBI, E. coli, chloride, DO) and Lake Hiawatha (impaired for nutrients)	Winter 2018-2019	\$124,151.00	\$1,942,402.00	\$2,066,553.00	Will treat stormwater from approximately 107 acres, removing an estimated 29 lbs of phosphorus, as well as other pollutants. Restoration of approximately 2000 feet of stream, including removal of a dam and improvement of in-stream and riparian habitat. Will improve public safety, creek access, and park amenities through partnership with City.	Approximately \$940,000 of the total cost listed is for stormwater management. Remainder is for stream/habitat improvements.
Mississippi WMO	Columbia Golf Course/Park Improvements	The MWMO, City of Minneapolis and Minneapolis Park and Recreation Board are partnering to plan, prioritize and implement system-scale BMPs that meet or exceed the MWMO's water quality standards while addressing members' flood concerns or other stormwater management goals.	MWMO Watershed Management Plan, Section 6.1: Capital Improvement Schedule. "1NE Watershed System Scale / Multi-Benefit Stormwater BMPs"	Mississippi River	2019-2021	\$104,893.00	\$9,615,000.00	\$9,719,893.00	Initial estimates show that BMPs within the golf course and tree trenches along 2 street reconstructions will remove over 200 tons TSS/year and 900 lbs TP/year.	Watershed-scale planning is on-going, but initial work has resulted in the design of BMPs that could be implemented as soon as 2019, including tree trenches to be installed during road reconstruction and a biofiltration and infiltration BMPs within the golf course. This funding request is for those BMPs.
Bassett Creek WMC	DeCola Ponds B & C Improvement Project	The project will address a significant flooding issue, will improve water quality downstream in Bassett Creek, and will restore 1.7 acres of wetland and 1.0 acres of upland habitat. The project will create a sediment forebay, remove accumulated sediment, and expand the footprint of existing stormwater ponds in the City of Golden Valley. The result will be approximately 22 acre-feet of additional flood storage and the removal of an estimated 9 lbs of phosphorus per year.	2015 Bassett Creek Watershed Management Plan, Capital Improvement Program, Table 5-3. Project #BC-2,3,8 (Medicine Lake Rd and Winnetka Ave Long Term Flood Mitigation Plan Project)	Bassett Creek	2019	\$68,573.00	\$3,731,427.00	\$3,800,000.00	Restore 1.7 acres of wetland and 1 acre of upland habitat; store an additional 22 acre-feet of flood water during heavy rain events, preventing downstream bank and bed erosion; remove 9 pound/year P.	
					Totals:	\$1,018,000.00	\$17,729,213.00	\$18,747,213.00		

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- Other snowplow drivers

For more information, please contact Laura Jester at laura.jester@keystonewaters.com or 952-270-1990

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Technical Memo



To: Elm Creek WMO Commissioners

From: Diane Spector, Wenck

Date: July 3, 2018

Subject: Rush Creek Headwaters SWA Status Report

This report details Rush Creek Headwaters Subwatershed Assessment project progress through June 2018.

The comments received were mostly minor. The finalized report will be uploaded onto the website by July 10. We are also converting the GIS shapefiles of all the BMPs identified into kmz files, which can be imported into Google Earth. This will allow Commission and city staff to access this information without having to use a GIS application.

It has been a pleasure assisting you with this subwatershed assessment. We will work with your staff to help complete the final grant reporting. Please let us know if we can be of assistance as you move into implementation or wish to conduct additional assessments.

Budget status:

Budget*	\$56,700.00
Through 5/31/18	\$55,479.32
6/1/18 – 6/30/18	\$1,219.50
Balance	\$1.18

*For Wenck Associates services only, excluding JASS or Hennepin County services

June/July 2018 Activities:

- Received additional comments on draft
- Met with Core Team and TAC to review draft report and identified BMPs
- Finalized report
- Converted BMP shapefiles to kmz files for use with Google Earth