



Jeffrey Babinski
County Administrator

HOUSTON COUNTY

304 South Marshall Street
Caledonia, MN 55921
TEL (507) 725-5827

Commissioners:
District 1
Jack Miller
District 2
Eric Johnson (Vice Chair)
District 3
Robert Burns
District 4
Teresa Walter (Chair)
District 5
Fred Arnold

HOUSTON COUNTY BOARD OF COMMISSIONERS REGULAR BOARD MEETING AGENDA

9:30, August 13, 2019, County Board Room, Historic Courthouse

CALL TO ORDER

PLEDGE OF ALLEGIANCE

APPROVE AGENDA

APPROVE MINUTES (23 Jul Board Meeting, 6 Aug Workgroup Session)

PUBLIC COMMENT

09:30 Appointment: Dr. Ross Reichard and Monica Kendall, P.A., Medical Examiner Annual Presentation

09:45 Appointment: Dan Larson, Minnesota Rural Counties Presentation

CONSENT AGENDA

(Routine business items enacted by one unanimous motion. Commissioners may request moving items on the consent agenda to the Action Item list if they desire discussion before taking action.)

- 1) Approve Claims, Human Service & License Center disbursements
- 2) Acknowledge receipt of Outdoor Heritage Fund Proposals from the Lessard Sams Outdoor Heritage Council
- 3) Acknowledge receipt of the Invitation to the Houston County Township Officer's Association Annual Dinner Meeting on September 11, 2019.
- 4) Approve additional abatements discovered during abatement reconciliation process.
- 5) Approve budgeted purchase of three cover-top roll-off containers from Nedland Industries as a cost of \$18,085.
- 6) Approve Resolution 19-X, Aquatic Invasive Species Prevention Aid, designating oversite of the AIS prevention efforts to the Root River Soil and Water Conservation District.
- 7) Affirm personnel actions:
 - a. Finance
 - i. Accept the retirement notice from Nancy Peter, effective the end of the business day September 27, 2019 and extend thanks for her 32.5 years of service to the residents of Houston County.
 - ii. Initiate a competitive search for a .6 FTI Technical Clerk, B-22.
 - b. Public Health and Human Services

- i. Continue the appointment status of Nickie Folsom (.9 FTE to 1.0 FTE) to an on-going basis, effective immediately (Previously approved for 6 mo change of status)
- ii. Change the classification of Michelle Schulte from Staff RN (C41) to PHN (C42) effective August 19, 2019 and extend congratulations for earning BSN and obtaining a PHN certificate.
- iii. Rehire Judy Haugstad as a temporary (67 days/year maximum) Case Aide to assist during the search for a Child Protection Social Worker. Note: The total of both temporary assignments cannot exceed 67 days per calendar year.

ACTION ITEMS

- 1) Consider approving the final contract for project CP 2019-05A with Milestone Materials for CSAH 24 and 32.
- 2) Consider approving Conditional Use Permit for Robert and Heather Strand, Yucatan Township.
- 3) Consider approval of Resolution 19-X, authorizing an EDA Revolving Loan Fund loan to AcenTek for the Broadband Border-to-Border Grant, if grant funds are awarded.
- 4) Consider approving the 2019 Tax Abatements (Trehus).
- 5) Consider initiating action to fund a portion of the shared Highway Maintenance facility with La Crescent Township.

DISCUSSION ITEMS (No action will be taken on the following items)

- 1) Administrator Updates
 - a. Houston County Township Officer's Association Annual Dinner Meeting
 - b. Census 2020 Address Canvassing
- 2) Commissioner Reports & Comments

CLOSING PUBLIC COMMENT

ADJOURN

REMINDERS

- 13 August: Regular Board Meeting
(Land Use/Public Health and Human Services Standing Committees)
- 20 August: Board Workgroup Session
(Closed Session for Administrator Annual Review)
- 27 August: Regular Board Meeting
(Finance Standing Committee)
- 27 August: Fillmore-Houston Joint Board of Health Meeting
- 3 September: Board Workgroup Session
- 10 September: Regular Board Meeting
(Land Use/Public Health and Human Services Standing Committees)
- 11 September: Houston County Township Officers Association Dinner Meeting
- 17 September: Board Workgroup Session
- 24 September: Regular Board Meeting
(Finance Standing Committee)

**HOUSTON COUNTY
AGENDA REQUEST FORM
August 13, 2019**

Date Submitted: 08.07.19

By: Tess Kruger, HRD/Facilities Mgr.

ISSUE:

HR CONSENT AGENDA REQUESTS

Finance

- Accept the retirement notice from Nancy Peter, effective the end of the business day September 27, 2019. (Nancy was first employed by HC in 1983 -1991; returned to employment in 1996 to present.) We thank Nancy for her for 32.5 years of service to the residents of Houston County.
- Initiate a competitive search for a .6 FTE Technical Clerk II, B-22.

Public Health & Human Services

- Continue the appointment status of Nickie Folsom (.9 FTE to 1.0 FTE) to an on-going basis, effective immediately. (Note, previous board approval for this change of status was for 6 months.)
- Change the classification of Michelle Schulte from Staff RN (C41) to PHN (C42) effective August 19, 2019. (Schulte earned BSN & obtained a PHN Certificate)
- Rehire Judy Haugstad as a temporary (67 days/year maximum) Case Aide to assist during the search for a Child Protection Social Worker. (Note: In April 2019, Haugstad was hired as a temporary employee to assist during a CP Social Worker's leave of absence. This request is for Haugstad to be able to continue to assist CP workers during the search to fill a CP Social Worker vacancy. The total of both temporary assignments cannot exceed 67 days per calendar year.

<u>Reviewed by:</u>	<input checked="" type="checkbox"/> County Administrator	<input type="checkbox"/> County Attorney	<input type="checkbox"/> Zoning Administrator
	<input checked="" type="checkbox"/> Finance Director	<input type="checkbox"/> County Engineer	<input type="checkbox"/> Environmental Services
	<input type="checkbox"/> IS Director	<input type="checkbox"/> Other (indicate dept)	<input type="checkbox"/> PHHSD

Recommendation:

Decision:



Minnesota Rural Counties Leadership:

I'm writing to acknowledge the great individual work MRC provided to the overall, team-oriented success the coalition achieved on broadband funding in the 2019 Legislative Session.

In addition to assisting with the strong, on the ground legislative lobbying work coordinated through the coalition, MRC took a leadership position on the coalitions' public outreach subcommittee.

Working with subcommittee chair and Kanabec County EDA Director Heidi Steinmetz, MRC Executive Director Dan Larson produced and distributed an op/ed commentary and several draft supporting letters to the editor detailing broadband needs and the broad statewide support for continued funding. The commentary was distributed under my name as coalition chairperson and the letters were distributed to coalition members to submit to their local papers. Heidi amplified the message with a strong social media presence.

The coalition commentary and letters ran in dozens of newspapers across the state and generated public pressure on legislators to fund broadband at the time budget decisions were being made.

The public outreach Dan and Heidi did, as well as the broadband profiles MRC put together in 2018 in partnership with MN Assn. of Townships, were invaluable contributions to the overall successful funding effort in 2019.

Sincerely,

A handwritten signature in black ink that reads "Nancy Hoffman".

Nancy Hoffman, Chairwoman
MN Rural Broadband Coalition



August 13, 2019

Houston County Board Members:

I'm writing to thank you for allowing MN Rural Counties to visit with the board today about the benefits of adding your county's considerable talents and energies to our membership group. I regret I am not able to be there in person due to my own county board commitments, but I hope you will give every consideration to joining MRC, and help us build new strength in Greater Minnesota.

In this time when any given issue is as likely to split along rural / metro lines as it is along party lines, MRC is an established and well-regarded organization with coordinated leadership and communications capabilities that advocates specifically for rural county concerns.

With our newest members being Redwood, Cottonwood and Watonwan counties, we are actively working to build membership in your region. You can be sure MRC will provide a welcoming platform for your concerns.

Please feel free to contact me with any questions you may have. I would be happy to talk to you at any time about MRC!

Sincerely,

A handwritten signature in black ink that reads 'Paul B. Gerde'. The signature is fluid and cursive, with the first letters of each word being capitalized and prominent.

Paul Gerde

MRC Chairman and Pope County Commissioner

Cell: 320-815-9821

E-mail: paul.gerde@co.pope.mn.us



MRC Calendar for 2019

Mon., Jan. 7	10 a.m. – 1 p.m.	Board Meeting	Wright Co. Courthouse Buffalo, MN
Tues., Jan. 8		Legislative Session Begins	
Tues., Feb. 12	7 – 9:30 p.m.	Board Meeting *Pre- AMC Conf.	St. Paul
Mon. March 11	10:30 a.m. -1 p.m.	Board Meeting	ITV
Mon. April 15	10 a.m. – 1 p.m.	Board Meeting	ITV
Mon., May 6	10 a.m. – 1 p.m.	Board Meeting	ITV
Tues., May 20		Legislative Session Concludes	
Mon. June 3	10 a.m. – 1 p.m.	Board Meeting	TBD
Wed. Sept. 11	7 – 9:30 p.m.	Board Meeting	Alexandria
Mon., Oct. 7	9 a.m. – 1 p.m.	Annual Business Mtg.	TBD
Sun. Dec. 8	5 – 7:30 p.m.	Board Meeting	St. Cloud



Minnesota Rural Counties Leadership List 2019

MRC Officers 2019

Chairman
Vice-Chair
Secretary/Treasurer

Paul Gerde
Russell Walker
Sharon Bring

Delegates / Alternates to MRC Board of Directors

	Delegate	Alternate(s)
Aitkin	Don Niemi	Bill Pratt
Becker	Barry Nelson	Jack Okeson
Big Stone	Wade Athey	All Other Members
Clay	Grant Weyland	Frank Gross
Cottonwood	Kevin Stevens	Jim Schmidt
Douglas	Jim Stratton	Any of the Other Members
Grant	Troy Johnson	Doyle Sperr
Itasca	Terry Snyder	Davin Tinquist
Kittson	Leon Olson	All Other Members
Koochiching	Wayne Skoe	Brian McBride
LOW	Cody Hasbargen	All Other Members
Mahnomen	David Geray	Brad Athmann
Marshall	Sharon Bring	Gary Kiesow
McLeod	Doug Krueger	Ron Shimanski
Meeker	Joe Tacheny	All Other Members
Mille Lacs	Roger Tellinghuisen	Dave Oslin
Norman	Steve Jacobson	Nathan Redland
Pennington	Don Jensen	Neil Peterson
Polk	Jerry Jacobson	All Other Members
Pope	Paul Gerde	Larry Lindor
Red Lake	Chuck Flage	Chuck Simpson
Redwood	Jim Salfer	Lon Walling
Roseau	Russ Walker	Glenda Phillipe
Sibley	Bobby Harder	Steve Saxton
Stevens	Bob Kopitzke	Neil Wiese
Todd	Dave Kircher	Gary Kneisl
Traverse	Dave Salberg	Todd Johnson
Wadena	Bill Stearns	All Other Members
Watsonwan	Jim Branstad	Ray Gustafson
Wilkin	Dennis Larson	Lyle Hovland
Wright	Charlie Borrell	Mike Potter



MRC 2019 Legislative Priorities

Transportation Funding: The Legislature passed a comprehensive transportation funding bill during the 2017 session, which included general fund revenue from the sales tax on auto parts, general obligation bonding money, and transfer of the entire amount of the Motor Vehicle Lease Sales Tax (MVLST) money to transportation. The bill included \$235 million in new revenue for roads and bridges and an additional \$71 million in general fund dollars for Metropolitan Area Transit. In addition to the 2017 transportation bill, both the 2017 and 2018 bonding bills included considerable funding for transportation projects statewide. Despite this additional funding in recent years, there has not been a substantial increase in funding from any constitutionally dedicated sources. AMC must continue to advocate for long-term funding; The solution should be comprehensive (multi-modal), balanced (regionally and between modes), sustainable (on-going funding), and dedicated (constitutionally for roads and statutorily for transit).

Sustaining the Health Care Access Fund: Minnesota's gross revenue tax on health care goods and services is the primary revenue source for the state's Health Care Access Fund and is scheduled to sunset at the end of 2019. The tax was passed in 1992 to help pay for MinnesotaCare and the state currently relies on the fund to support the Medical Assistance program, physician training, and the Statewide Health Improvement Partnership. Counties urge the Legislature to prevent the loss of health care coverage and other critical health care initiatives and help avoid a potential cost shift to counties.

Broadband Funding: In 2018, the Legislature included \$15 million in funding for the broadband grant program in its Omnibus Supplemental Finance Bill that was ultimately vetoed by the governor. It was the first time since the grant program has been in place that it did not receive any funding. Many counties have been recipients of this funding in the past and there are others that would likely benefit from future grant cycles. AMC supports adequate and continuous funding for the grant program in order to continue the build-out of broadband infrastructure in Minnesota and meet the state's broadband speed goals by 2026.

Dept. of Revenue Utility Valuations: A recent Minnesota Tax Court decision (*Enbridge v. Minnesota*) found that the Department of Revenue over assessed Enbridge Utility Company by more than \$2 billion from tax years 2013-2015. If the Minnesota Supreme Court upholds the Tax Court decision, counties and local governments will be on the hook for hundreds of thousands of dollars, if not millions, in tax refunds—forcing counties to spend reserves or levy residents for a DOR-issued assessment. In addition, counties are witnessing a surge of contested property tax appeals by big box retailers using questionable comparables and assessment theories. Both developments threaten county budgets and erode tax bases, causing potential shifts to small businesses and residents.

County Based Purchasing: County Based Purchasing (CBP) is an essential, successful, local model rural counties have used for 37 years to provide dependable access to quality, cost-effective care for those enrolled in Minnesota Health Care Programs (MHCP). MRC strongly supports CBP and urges legislative leaders to do no harm to this critically important and successful health care delivery model.

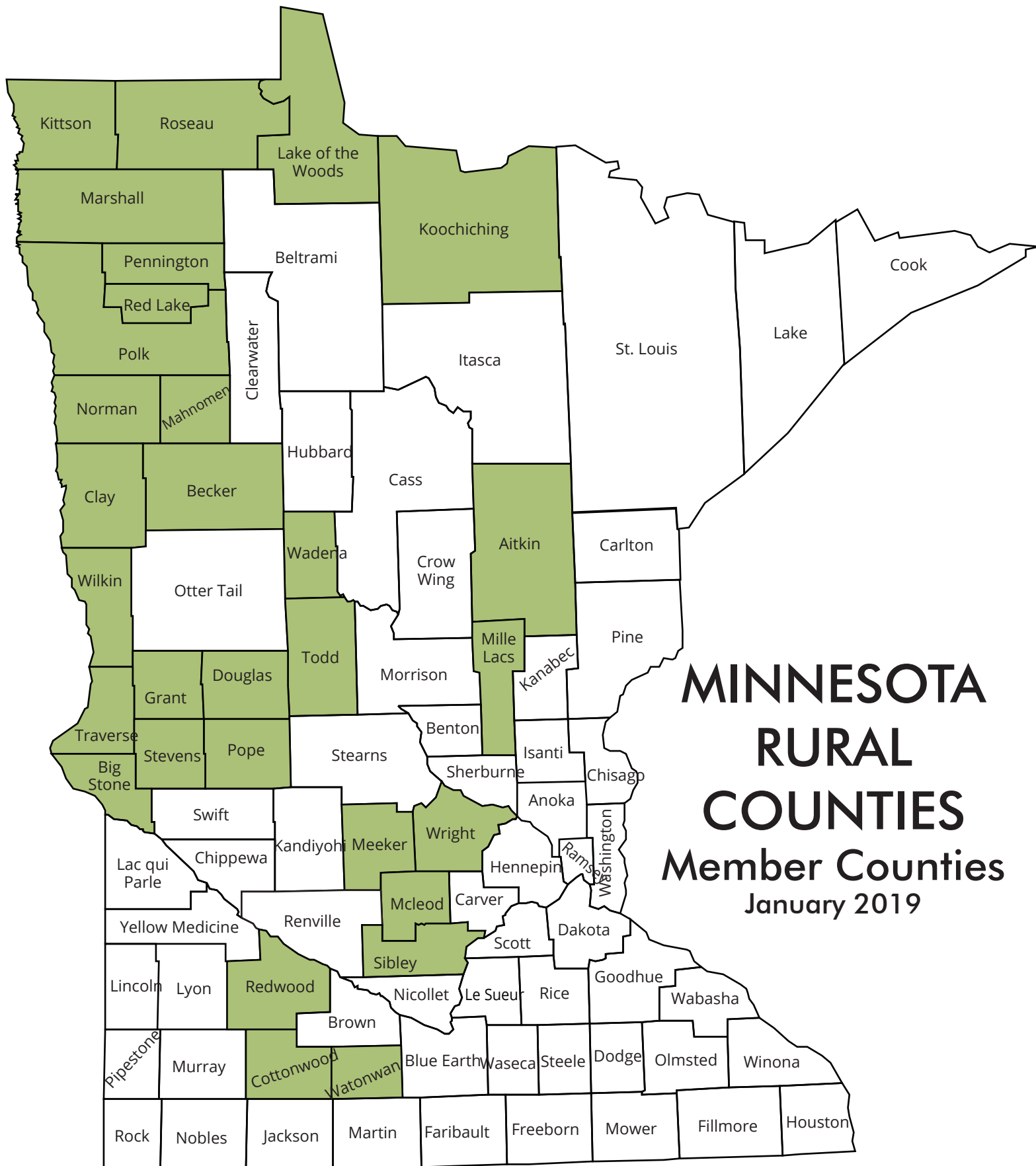
Dark Store Valuations: National big-box retail chains are appealing local property tax valuations of active stores in Minnesota and across the nation, based on the amount the retailer believes it would fetch if it were closed and sold off as an empty shell or a “dark store.” Local governments are being forced to defend the valuations precisely because they are *not* vacant. Counties need protections and relief for assessments that reflect real property values.

County Assessor Certification Process for Comprehensive Assessments. Current law requires persons conducting comprehensive assessments to be licensed alcohol and drug counselors (LADC) by 2020. Many counties currently employ staff who are not LADCs to conduct chemical use assessments. Due to the significant shortage of LADCs, counties are very concerned about access to services if individuals are not able to have an assessment done by an LADC in a timely manner. MRC recommends providing for a certification process for county staff so that counties can continue to provide this service if they choose and promote timely access to treatment. Requiring an LADC for county staff will likely result in many counties no longer providing this service.

DNR Regulatory Authority over Public Drainage Maintenance and Repair: Legislation is requested to restate the protections given to drainage system repairs, and the DNR’s role in those repairs. HF2687 and SF2419 were introduced during the 2018 legislative session to restate the protections given to drainage system repairs. These bills were placed on hold in committee when the DNR indicated that its new guidance would address the concerns that drainage authorities had with its current practices of regulating public drainage system repairs. The guidance has not addressed drainage authority concerns and has increased the inconsistency and uncertainty around the DNR’s interpretation and application of authority. Reintroduction and approval of new legislation modeled after HF2687 and SF2419 would restate in clear terms the DNR’s role in drainage system repairs. The legislation is necessary to provide clear legislative directive, reinforce existing laws, and reduce uncertainty and expense to the drainage authorities and affected landowners and communities

Compensate Landowners for the Loss of Buffer Strip Acres for Production Purposes: The state-imposed buffer law takes tillable acres out of production. MRC supports adequate compensation to landowners for to address buffer-induced production loss.

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MINNESOTA RURAL COUNTIES

Member Counties
January 2019

RURAL MINNESOTA NEEDS FULL BROADBAND FUNDING

- By Nancy Hoffman MN Rural Broadband Coalition
- May 1, 2019

When it comes to broadband funding, Minnesota elected leaders deserve credit for recognizing that access to opportunity is not universal – even if talent in our state is. Since 2014, the state has appropriated \$85 million to local internet providers through the Border-to-Border Broadband Development Grant Program, to speed the pace toward meeting the goal of providing high-speed broadband access at minimum speeds to every corner of the state by 2022. While internet service providers jostle to compete for customers in densely populated cities and regional centers, the market gets pretty thin in deeper rural areas of the state where towns are sparsely populated and farm operations measure their acreage by the thousands. That doesn't mean access is any less crucial – and that's where the state comes in. There is talent in every corner of the state, and no corner of the state should be left on the dark side of the digital divide.

The Border-to-Border Broadband program has helped the state reach an admirable 91 percent penetration rate toward the universal access goal, and has become a national model that other states are using to make sure they aren't left behind. But the Minnesota program hit a snag last year. After four consecutive years of funding, the bill authorizing

the 2018 appropriation was caught in a political crossfire and vetoed by former Governor Dayton over issues not related to broadband. That stopped the program, and the progress needs to continue this year to make up for lost time.

The good thing is that it can be done and we know exactly how much is necessary to put the program back on track. That number is \$35 million a year for the next two years, or \$70 million for the biennium. That's the number the MN Rural Broadband Coalition and Governor Walz recommended to the legislature, and that's the number the Minnesota House passed off the floor last week. The Senate is taking a different strategy, moving a bill authorizing a one-time appropriation of \$30 million as its Border-to-Border position. We don't think that is enough, but we understand and respect that positions are being established and negotiations are about to begin as the May 20, end of session deadline begins to emerge.

Broadband funding is not controversial and we look forward to continuing to work with the senate to help them try and get their number up to something that would help this successful program make up for lost time.

Agriculture and forestry are cornerstone Minnesota industries and need the tools to be able to compete in a gig-speed, wired world. Nobody doubts that the entrepreneurial spirit that built Polaris Industries, Arctic Cat, Marvin Windows, Schwann's Food Service, and other iconic Minnesota industries is alive and well in Greater Minnesota today. There is plenty of emerging talent and energy in every part of our state – and legislators can unleash that potential by fully funding the nationally recognized Border-to-Border Broadband Development Grant Program.

Nancy Hoffman is Chairwoman of the MN Rural Broadband Coalition, a membership group representing more than 100 local government, economic development, educational, agricultural, healthcare, telecommunications and non-profit organizations who advocate for better broadband in rural Minnesota.

Letter to the Editor - County Program Aid is property tax relief for Minnesota-mandated services

By Paul Gerde / Pope County Commissioner / MN Rural Counties chair

Posted May 13, 2019 at 11:55 AM

With the House and Senate tax bills off the floor and shifting into conference committee to iron-out differences, action is beginning to pick up at the State Capitol.

While there are good things in both bills from a county perspective, they stand in stark contrast on the key issue of how to address property tax relief. If you are a residential or business property tax payer in Minnesota, the House bill holds the clear advantage by providing vital increases to counties and local governments through general aid increases.

Counties operate as a local administrative arm of the state to carry out state-mandated programs relating to health and human services, public safety, land use, transportation, courts and other critical service areas. We do the work the state tells us to do, and the state provides the funding or “aids,” to cover costs.

Well, that’s how it’s supposed to work anyway.

State funded County Program Aid (CPA) is a general purpose aid provided to counties by the state as an off-set to county costs for administering state-mandated programs and a recognition of the impact mandates have on local taxpayers.

It is important to note that unlike other aids, CPA provides property tax relief to each of Minnesota’s 87 counties, which translates to tax relief benefitting every Minnesota property taxpayer.

When CPA is cut, with no corresponding mandate relief, county leaders are forced to make hard choices with limited options. In worst cases, counties are faced with the need to increase property tax levies to pay the costs of state mandated directives that arrive with no funding to pay the freight.

Facing a beastly \$4.5 billion budget deficit in the early 2000's, Legislators put the axe to almost \$200 million in CPA funds, a devastating cut that has kept the pressure on local property tax payers ever since.

Even so, resourceful counties can make a little go a long way. A much-needed 2017 formula change and nominal aid increase, along with some strategic belt-tightening, allowed rural Stevens County to bring some welcome relief to county property owners.

Stevens County aid dropped by about \$1 million from the crash in 2003, until it flat-lined at around \$147,000 in 2016. The 2017 formula change and aid package lifted its CPA back up to around \$500,000 – or half of what they received before the deficit cuts. They applied the revenues to directly offset property taxes and were able to reduce their 2017 operating levy from a stiff 7.96% increase to a manageable 1.5% increase the following year.

While counties continue to labor under any number of unfunded mandates – Stevens County CPA was more than swallowed-up this year by a 10% unfunded human service mandate – we appreciate the House provision to restore CPA to 2001 levels in its current tax package.

While the legislature continues to deliberate, we do look forward to making our case for further investment in County Program Aid as part of the mission for true property tax relief for Minnesotans.

Paul Gerde
Pope County Commissioner
MN Rural Counties chair

MN Rural Counties is a 30 member advocacy organization representing the interests of Greater Minnesota counties across the state.

Southern Minnesota Regional Medical Examiner's Office

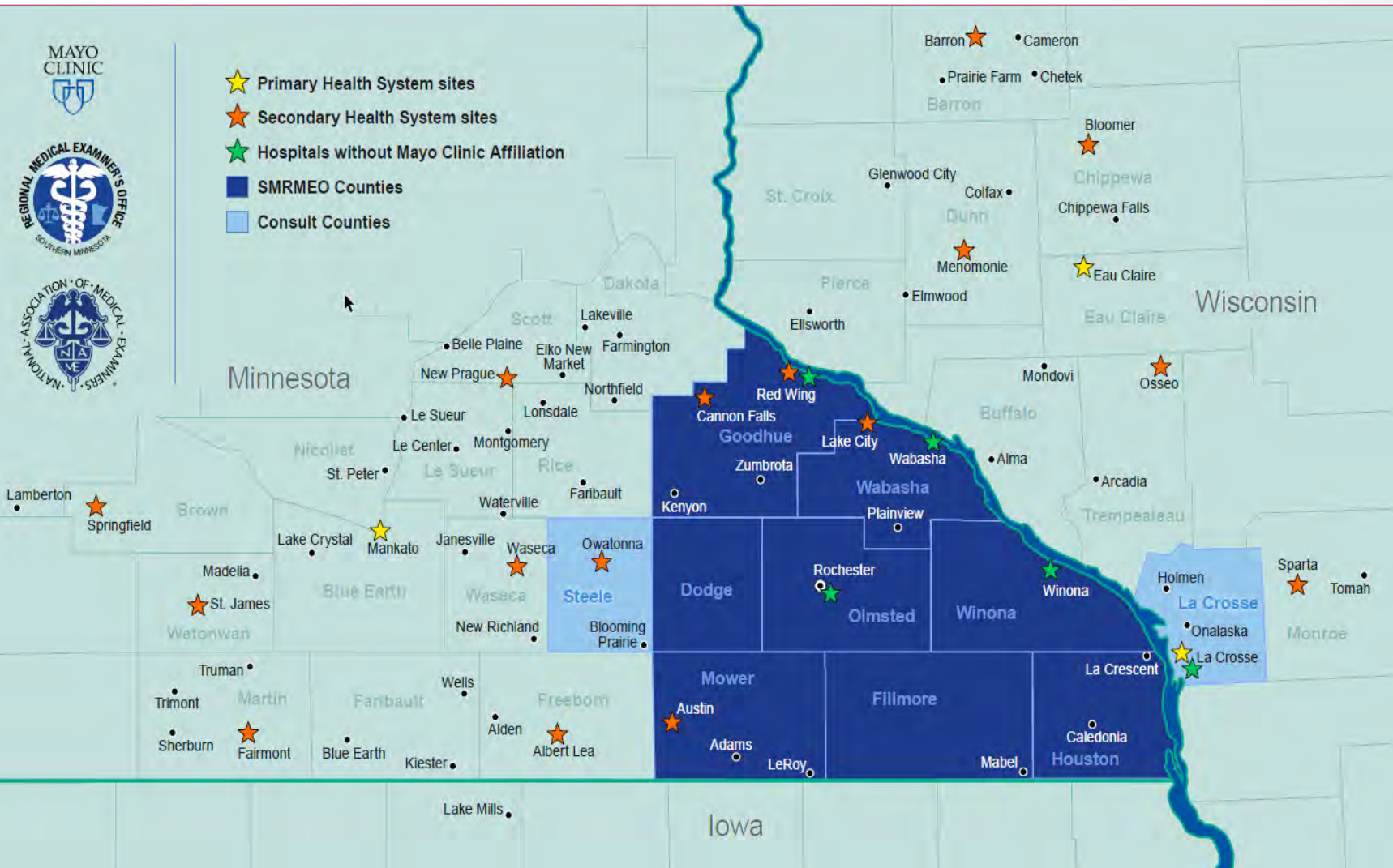
2018 Houston County Report



Coverage Area



- ★ Primary Health System sites
- ★ Secondary Health System sites
- ★ Hospitals without Mayo Clinic Affiliation
- SMRMEO Counties
- Consult Counties



Medical Examiner Staff

- R. Ross Reichard, M.D. – Chief Medical Examiner
- Peter T. Lin, M.D. – Assistant Chief Medical Examiner
- Reade A. Quinton, M.D. – Assistant Chief Medical Examiner
- Monica Kendall, M.S., PA (ASCP), F-ABMDI – Supervisor, Death Investigations
- Courtney Hyland, M.S., PA (ASCP), D-ABMDI – Assistant Supervisor, Death Investigations
- Mikel Poellinger – Field Investigator, Houston County
- Robert Cooper – Field Investigator, Houston County
- Jennifer Davidson, M.S., PA (ASCP) – Death Investigator, Central Office
- Alysha Martini, M.D., PA (ASCP) – Death Investigator, Central Office
- Erica Reed, M.S., PA (ASCP), D-ABMDI – Death Investigator, Central Office
- Luke Wilson, M.S., PA (ASCP), D-ABMDI – Death Investigator, Central Office
- Office of Decedent Affairs and Medical Examiner Pathology Reporting Specialists, Division of Anatomic Pathology, Mayo Clinic



Houston County

Medical Examiner Cases

Population (est.)	18,578
Cases Reported to Medical Examiner	103
A. Number of deaths certified after postmortem examination	17
1. Number of Medical Examiner Cases with Complete Autopsy	15
2. Number of Medical Examiner Cases with External Examination	2
3. Number of Medical Examiner Cases with Limited Examination	0
B. Number of deaths certified without postmortem examination	7
C. Number of deaths not certified by Medical Examiner's Office after investigation	79

In 2018 there were **137** deaths in Houston County.
ME Office involved in **75 %** of deaths.



Death Certificate Information

Information included:

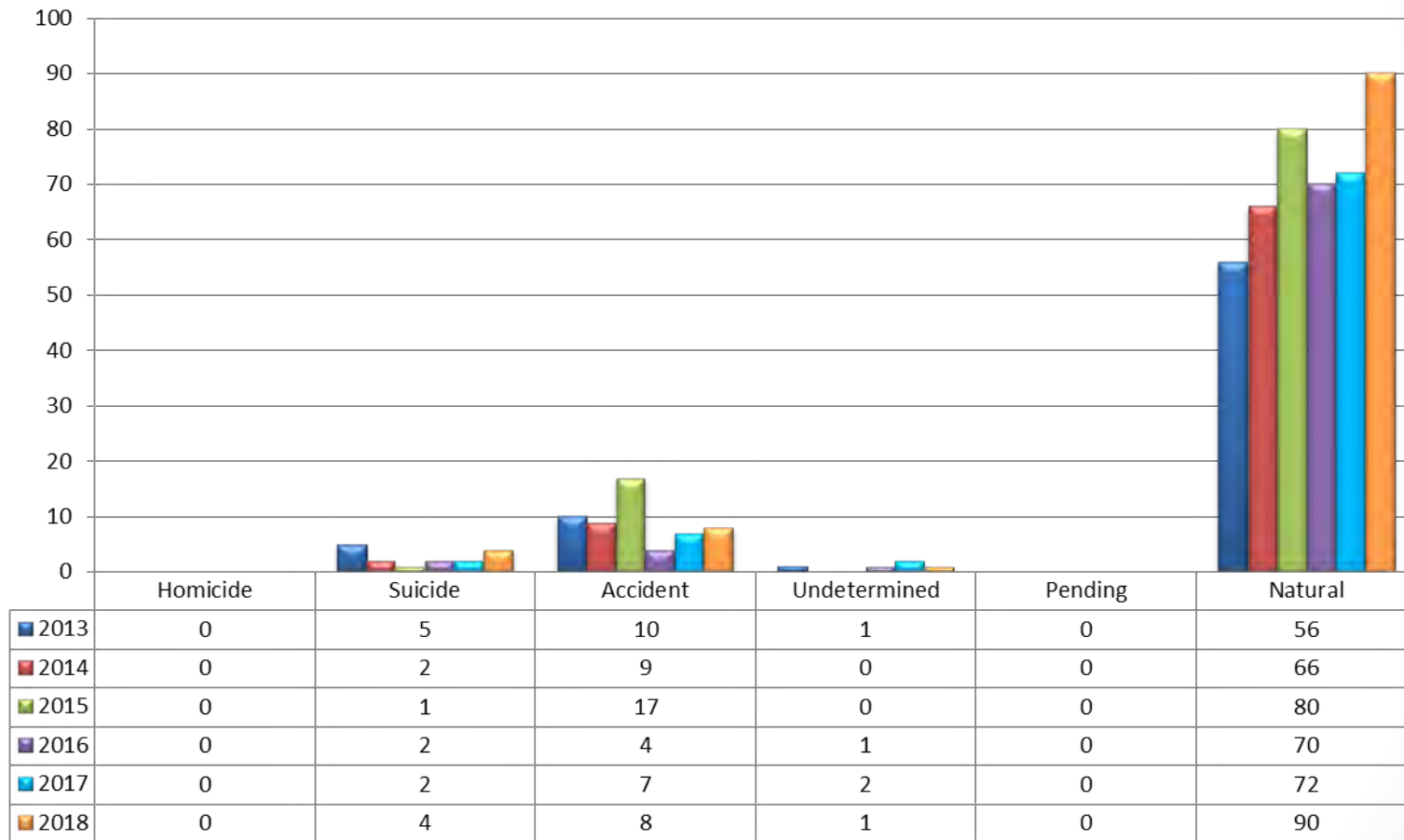
- Cause of Death
- Manner of Death
- Did an autopsy occur?
- Pregnancy?
- If Injury – Date, time, location, and how occurred?
- Injury at work?
- If Transportation Injury, type (e.g. driver, passenger, etc...)

Used by:

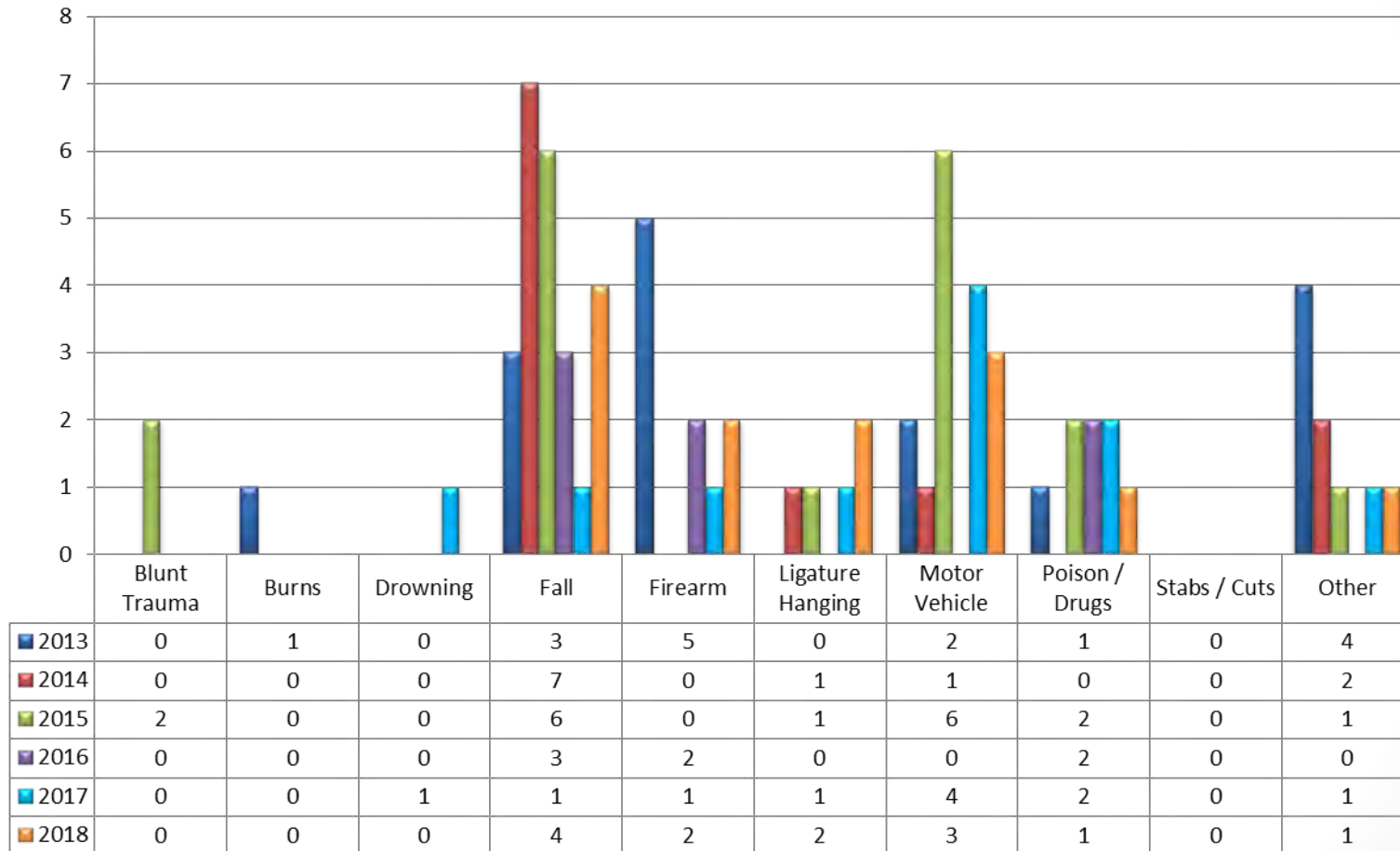
- Immediate family – heritable conditions
- Minnesota Department of Health/CEDC-Public Health



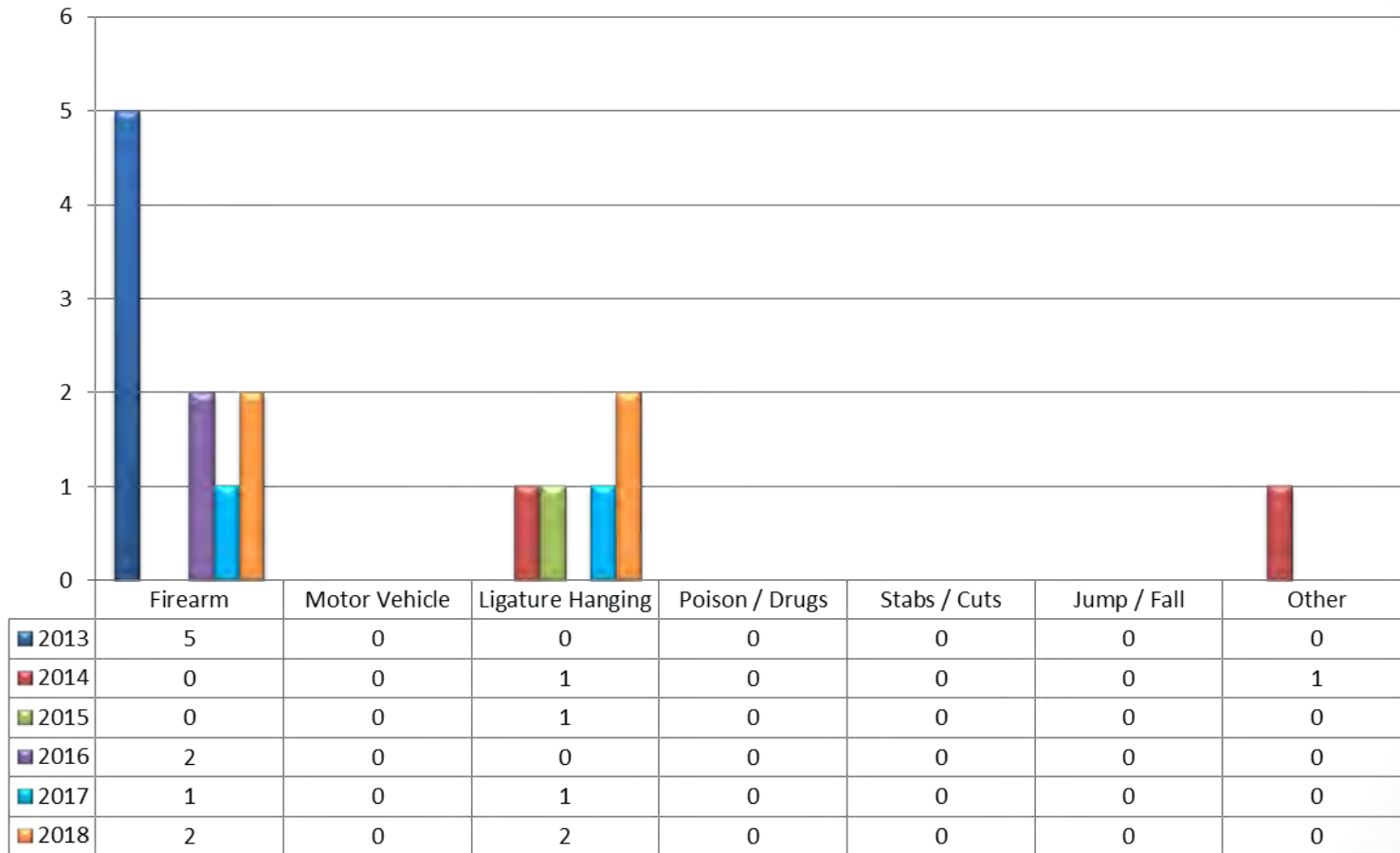
Manner of Death



Deaths by Unnatural Causes

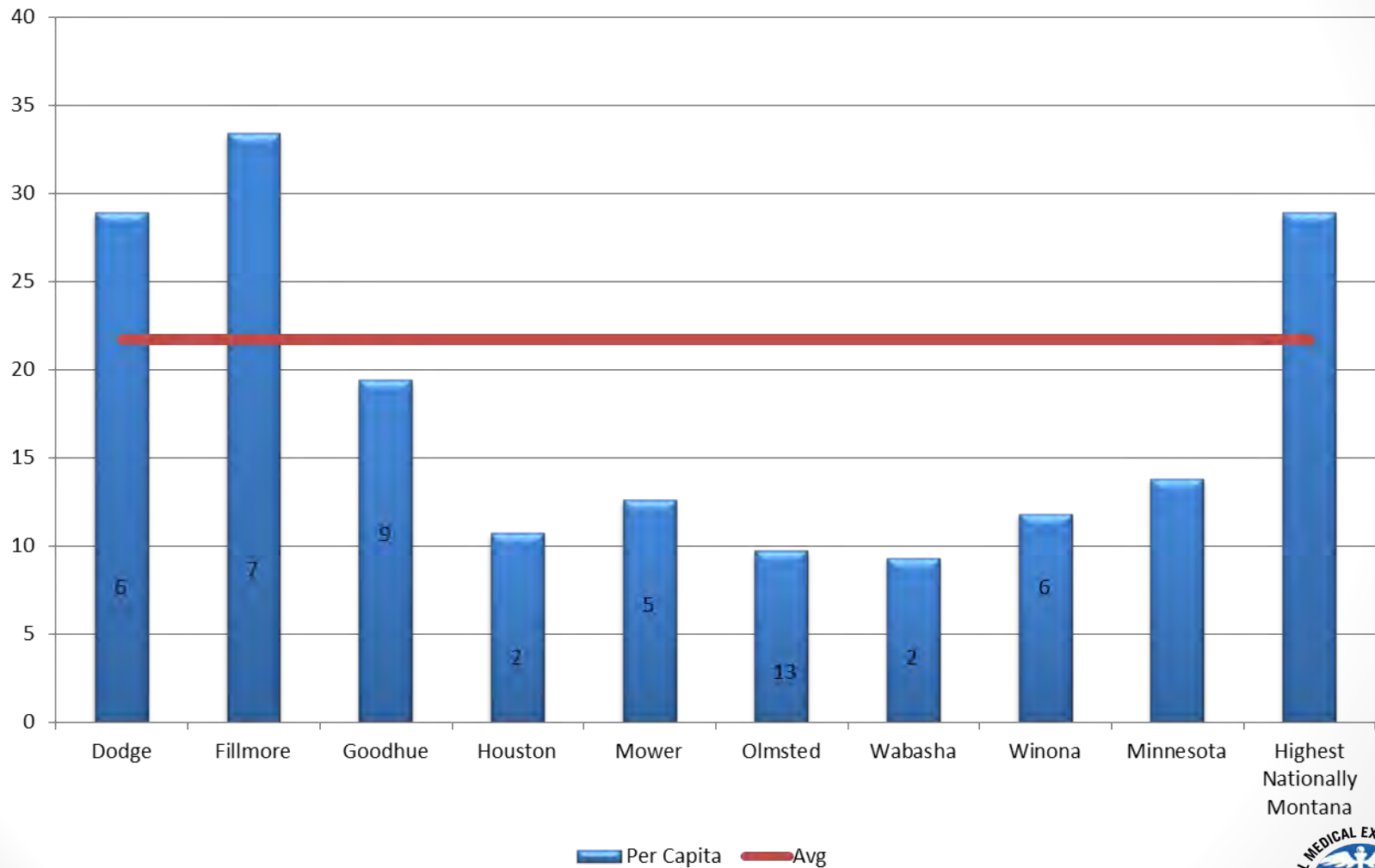


Suicide by Means



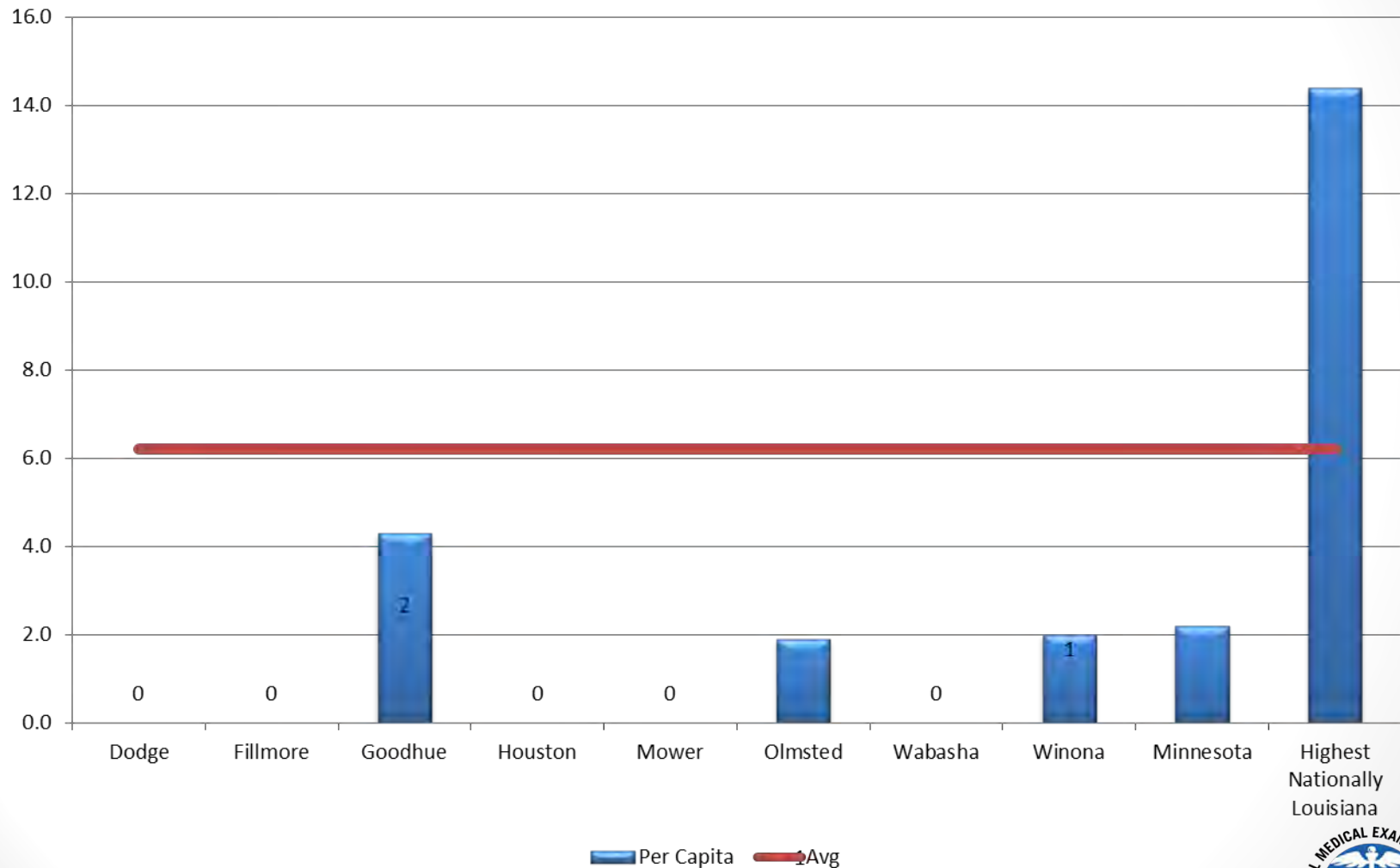
Suicide Rate per Capita

per 100,000 people; Based on 2017 data

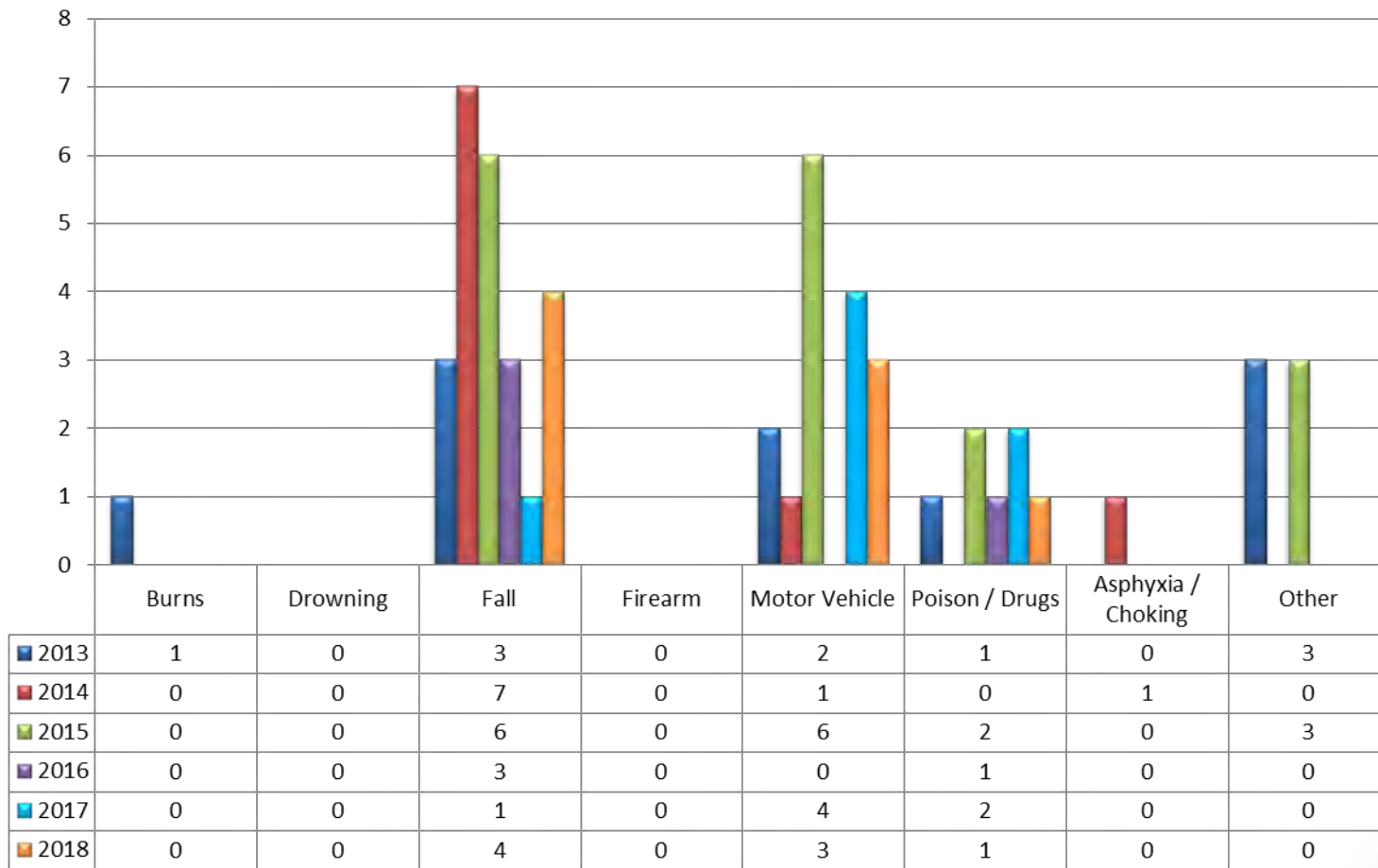


Homicide Rate per Capita

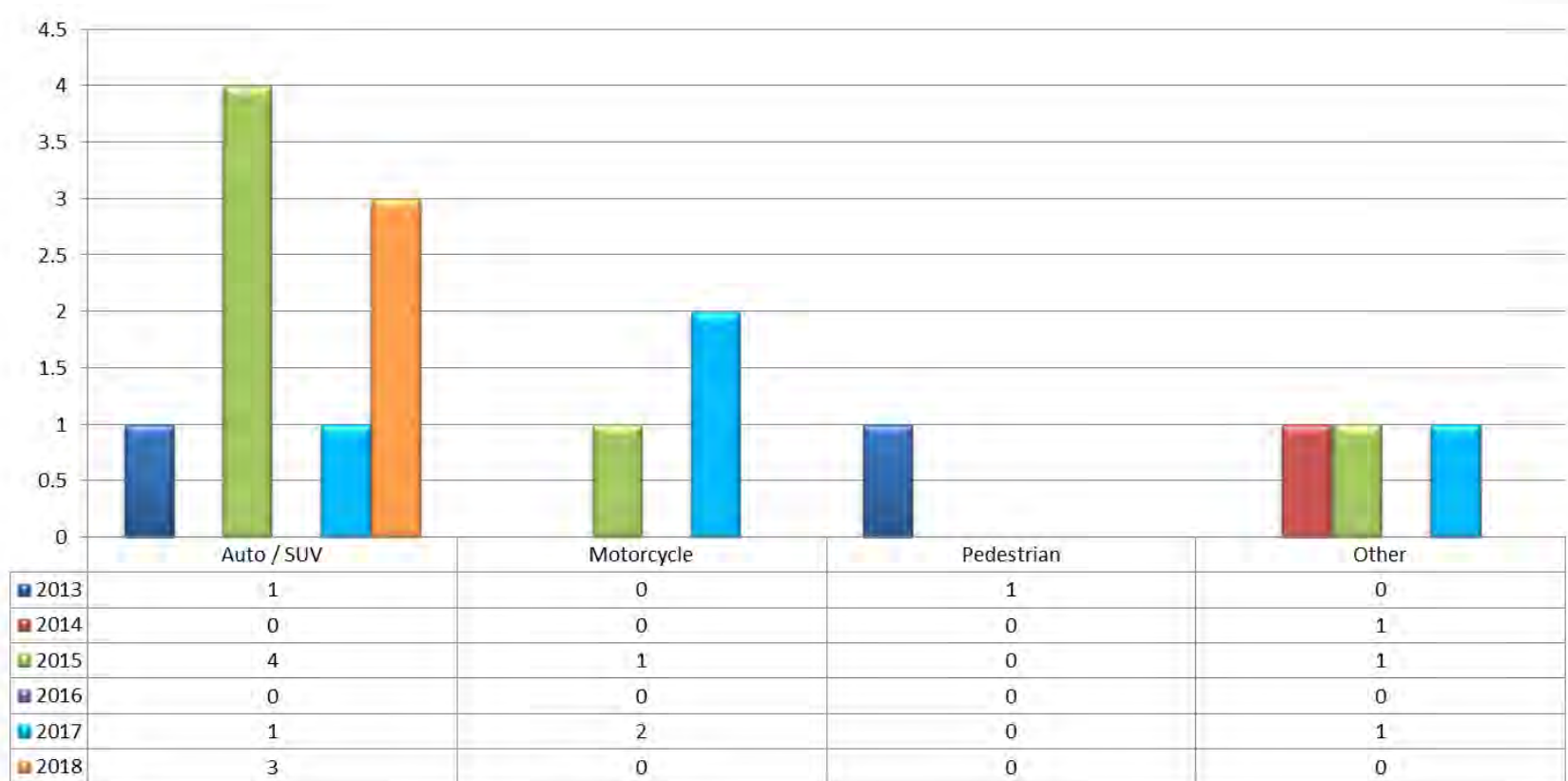
per 100,000 people; Based on 2017 data



Accidental Deaths by Type



Accidental Deaths – Motor Vehicle Crashes



Vehicle Accidents by County of Accident, Type of Accident, and Number of Fatalities

Houston County

2014-2018

County of Accident1

Houston

of Fatalities

1

2

Type of Vehicle1

ATV

Motorcycle

Snowmobile

Vehicle

Watercraft

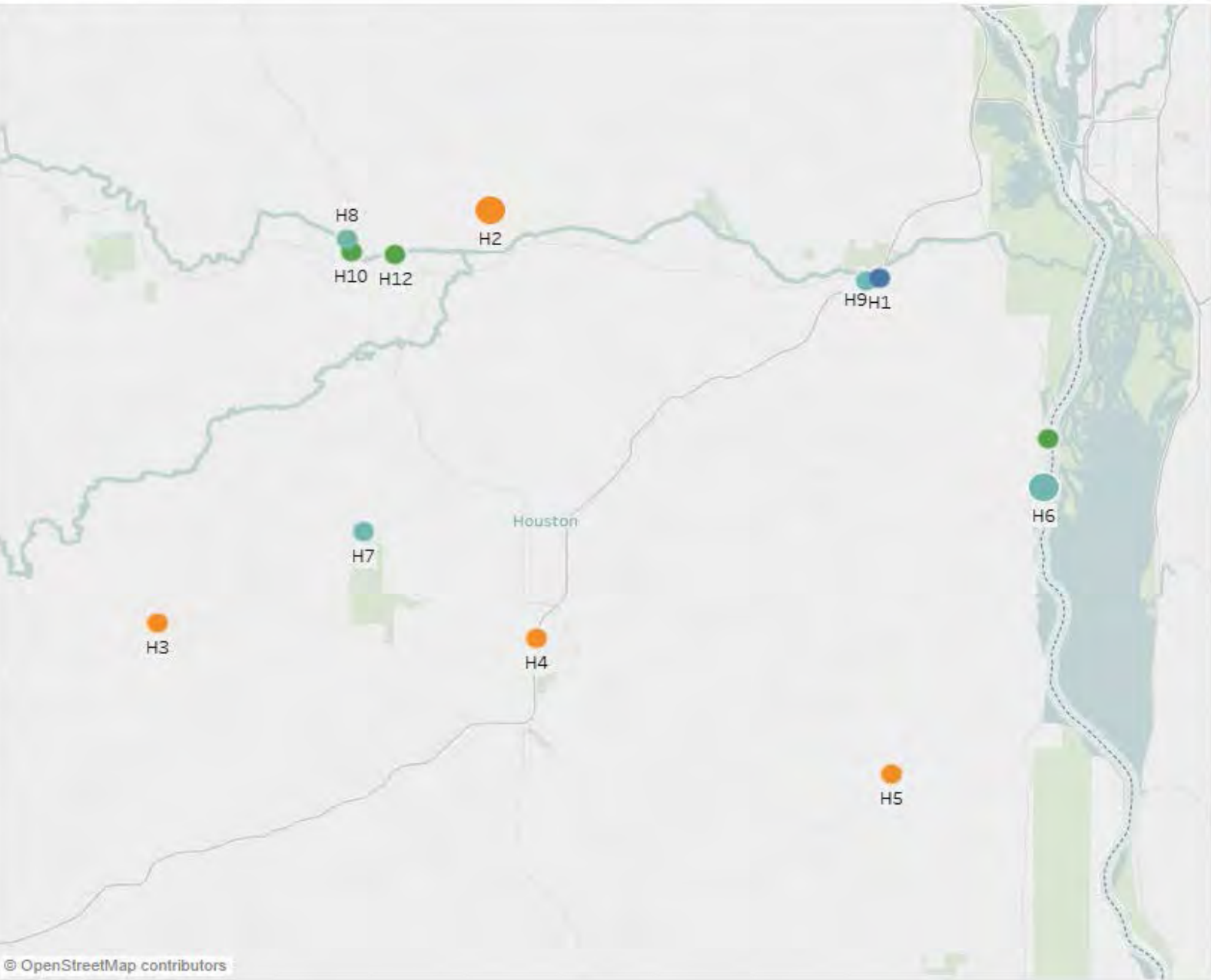


Vehicle Accident Deaths Houston County 2014-2018

County of Accident1
Houston

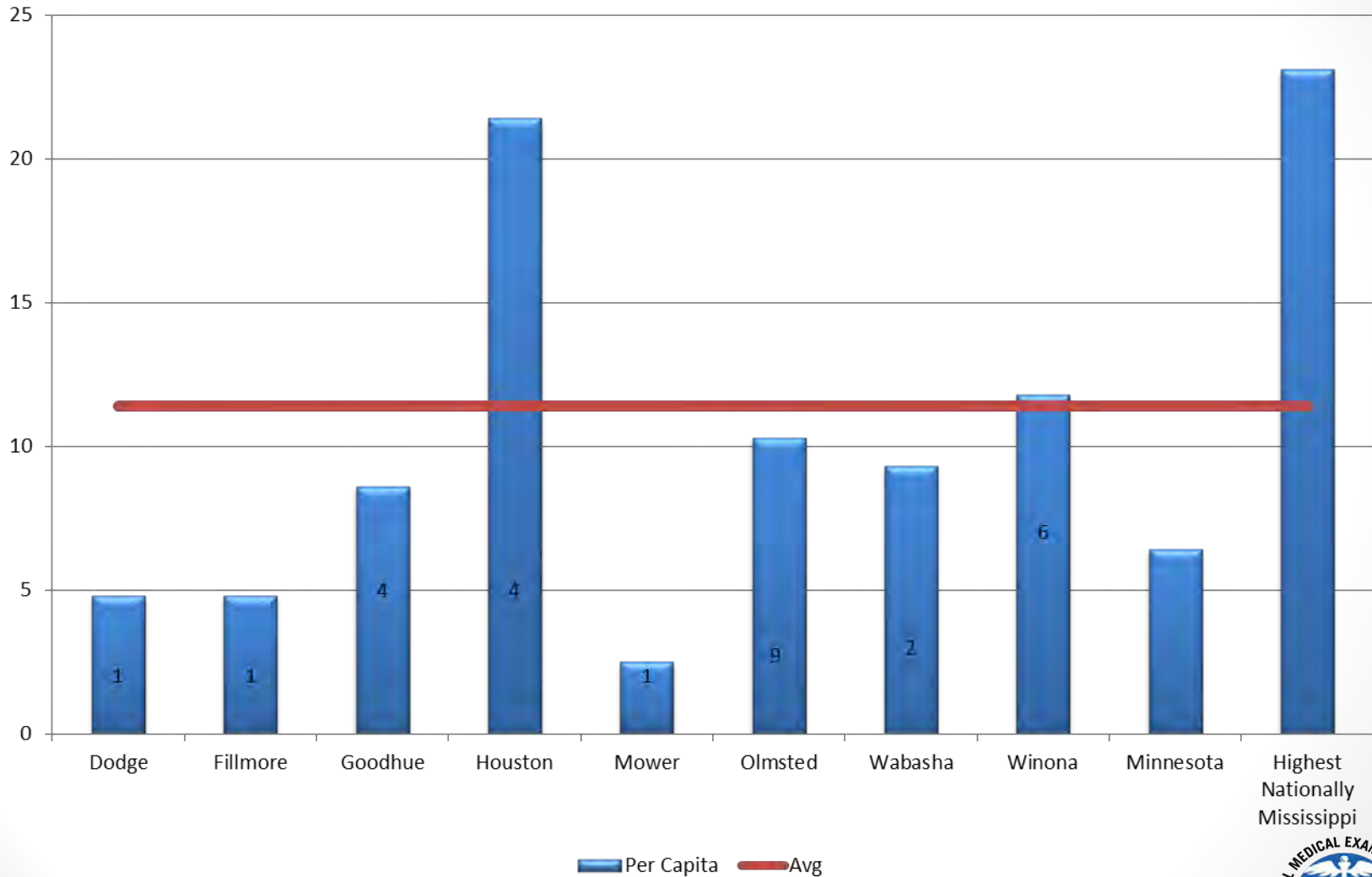
Year of Death1
2014
2015
2017
2018

of Fatalities
1
2

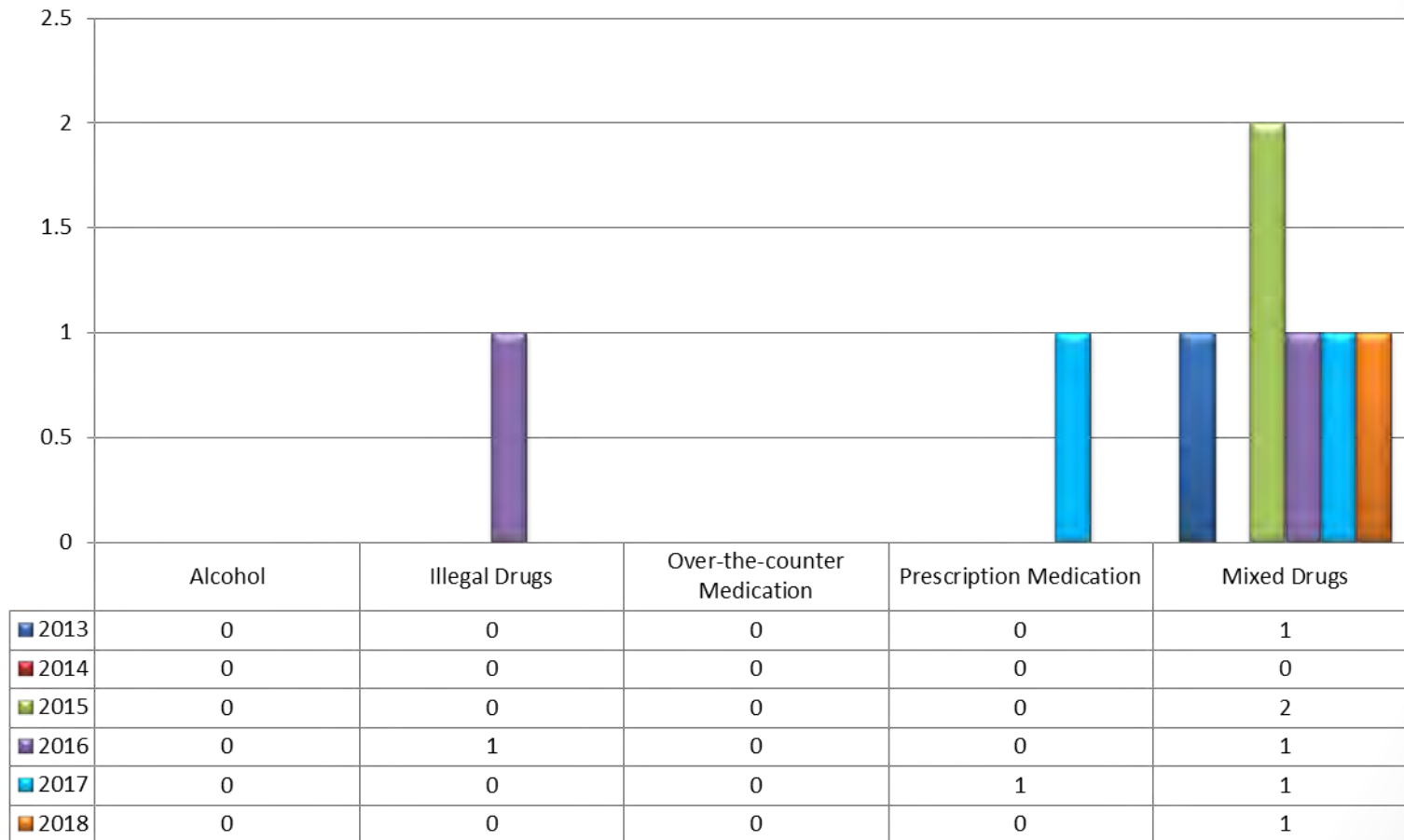


Motor Vehicle Fatality Rate per Capita

per 100,000 people; Based on 2017 data



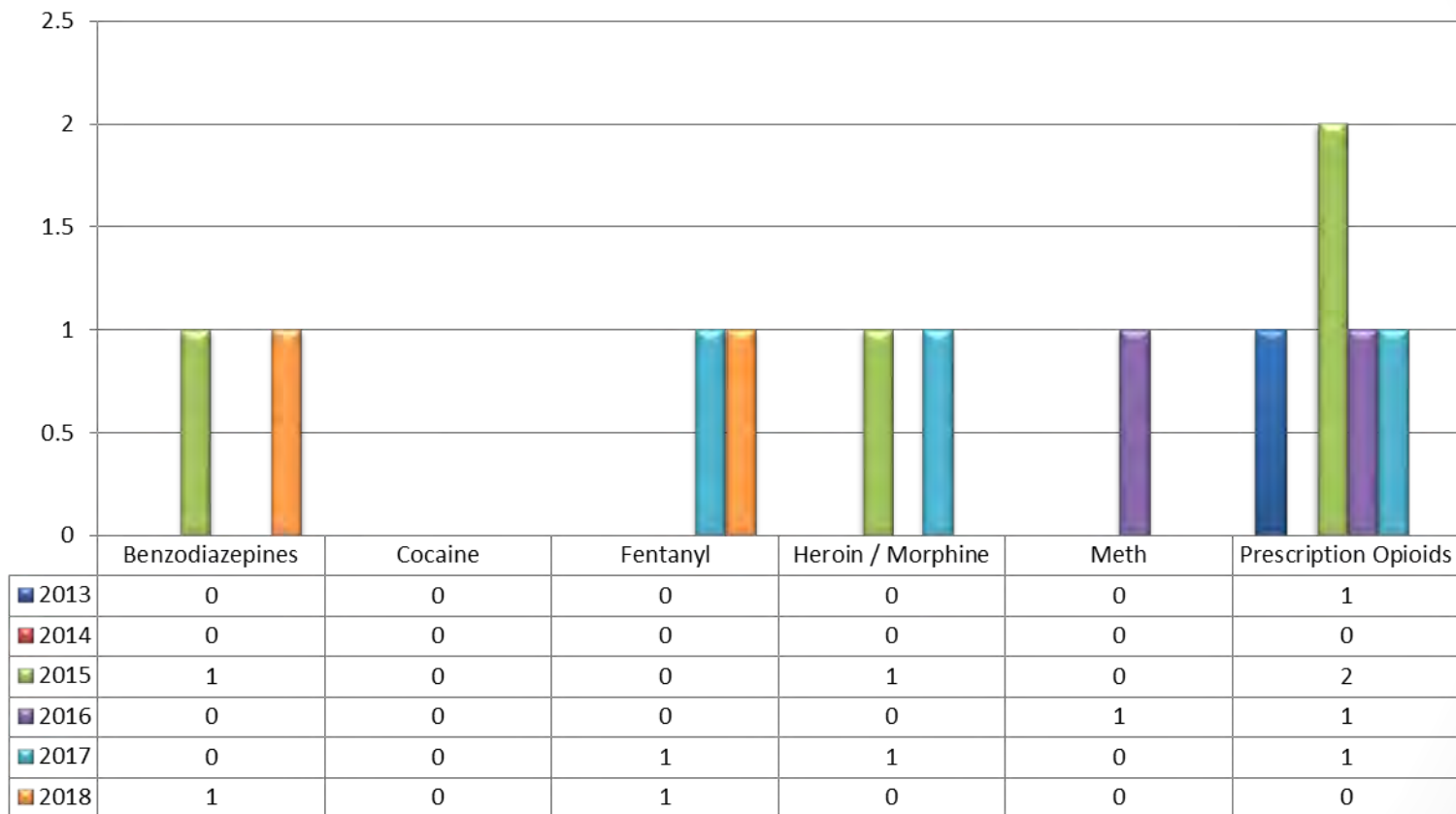
Deaths Related to Poison/Drugs



Volume by decedent



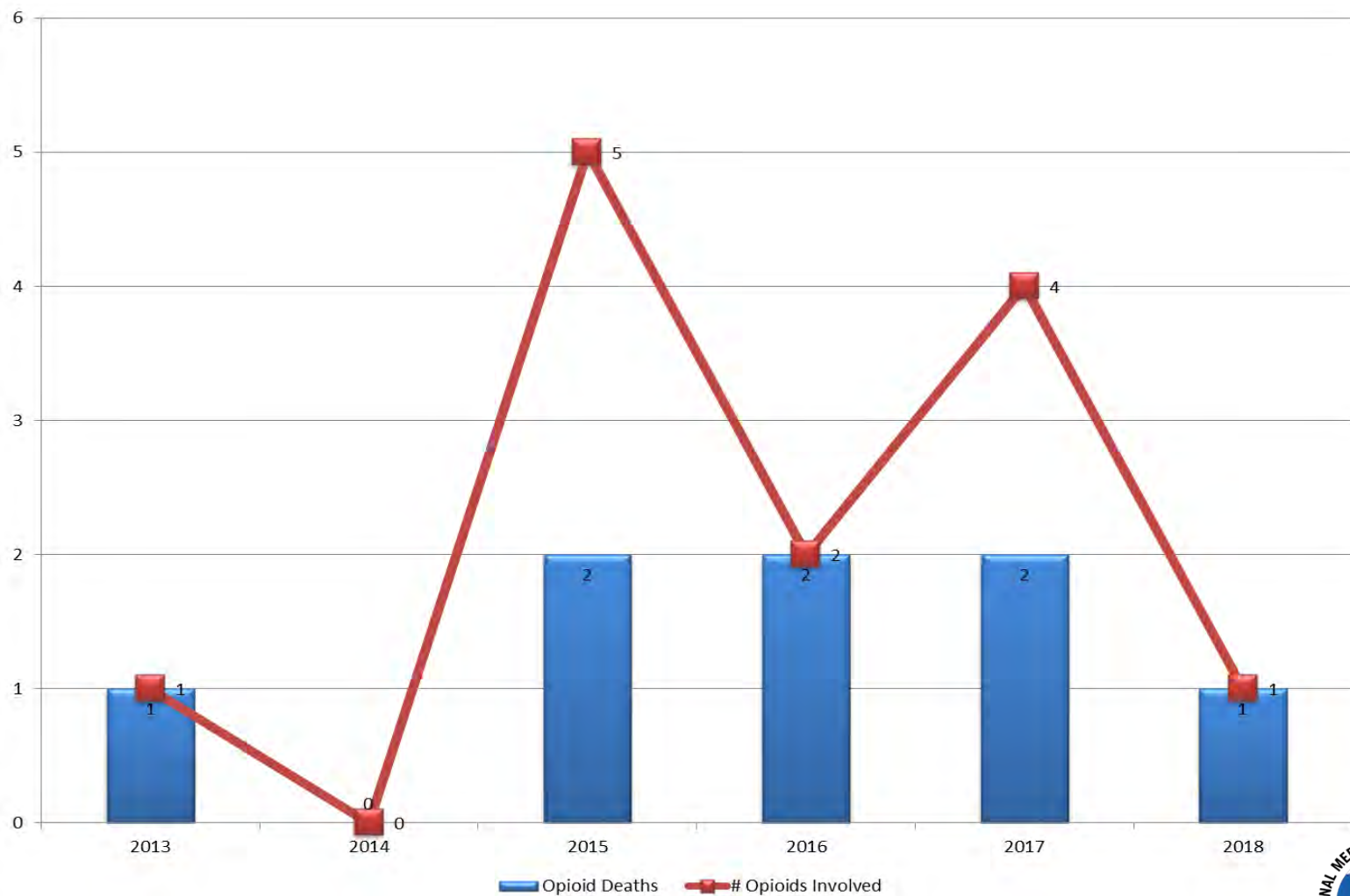
Drugs Related to Deaths



Volume by drug

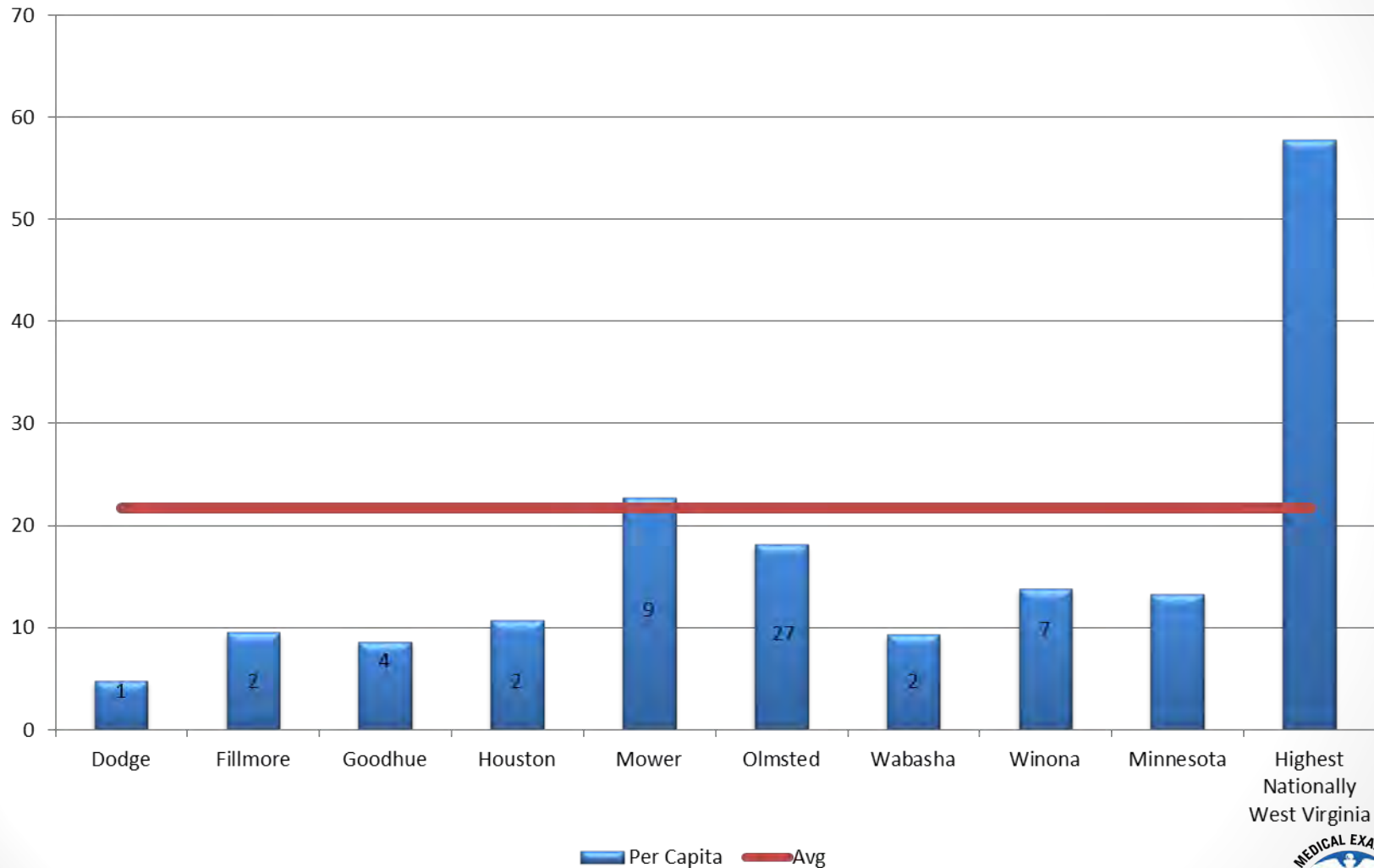


Opioid Deaths and # of Opioids Involved

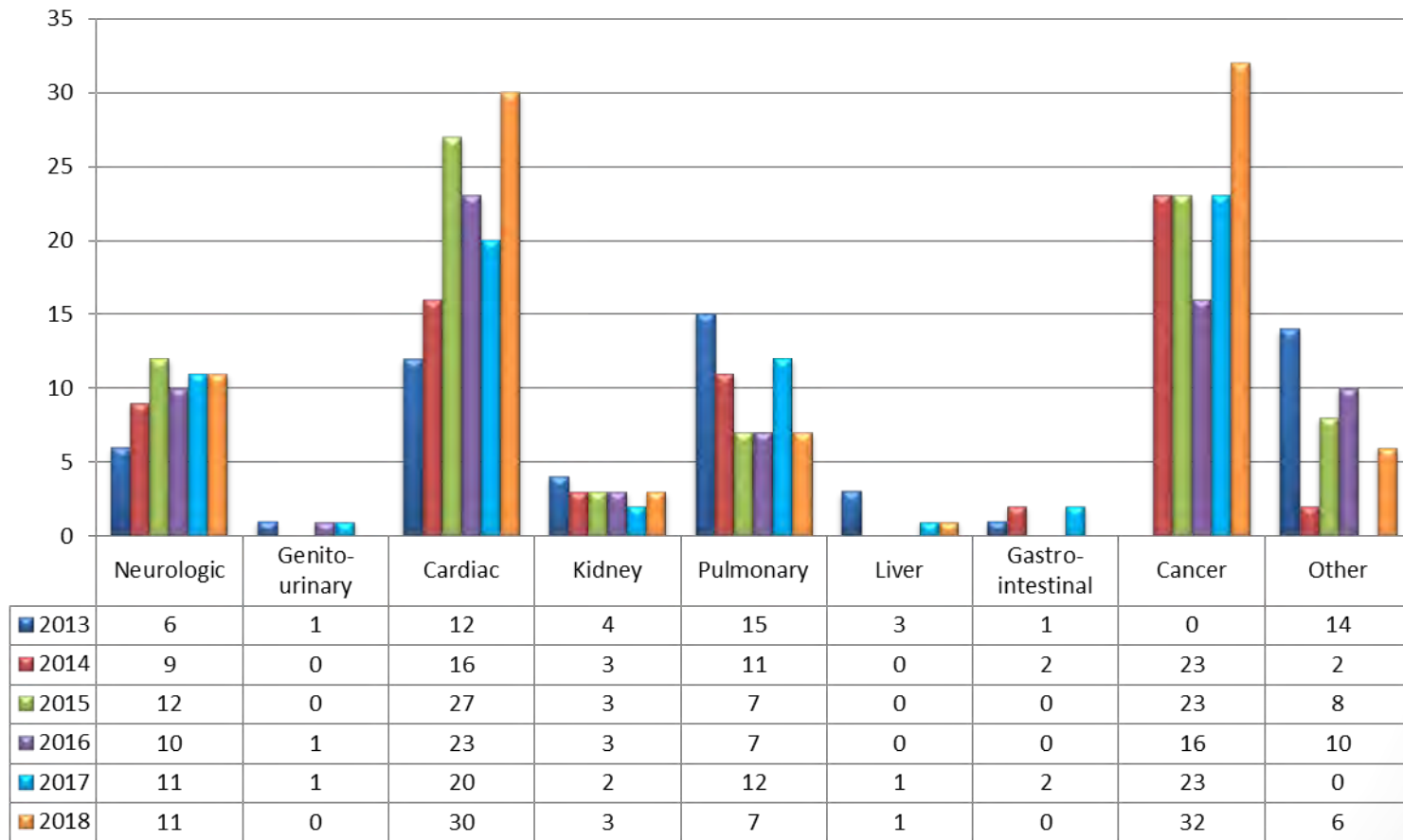


Drug Overdose Rate per Capita

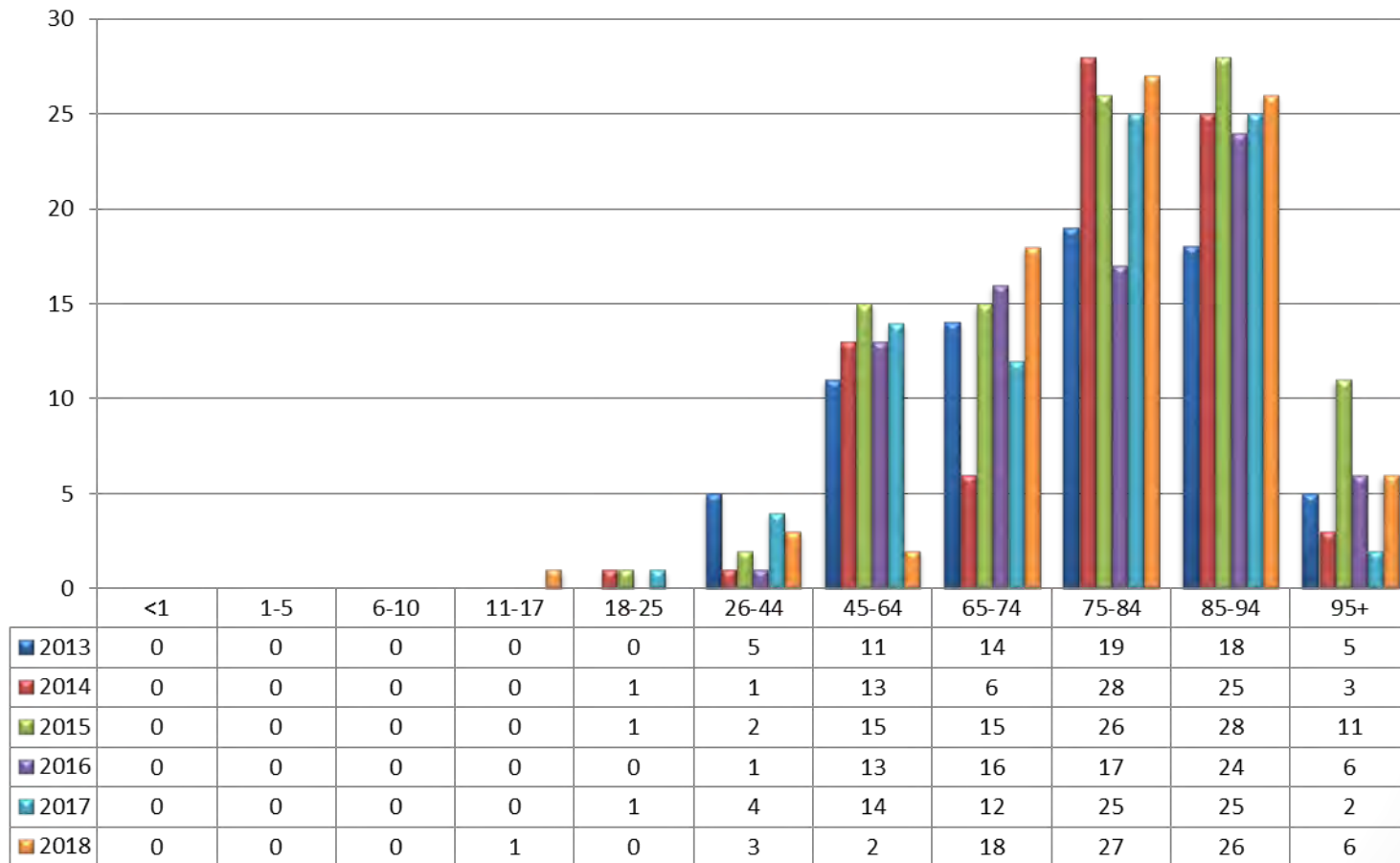
per 100,000 people; Based on 2017 data



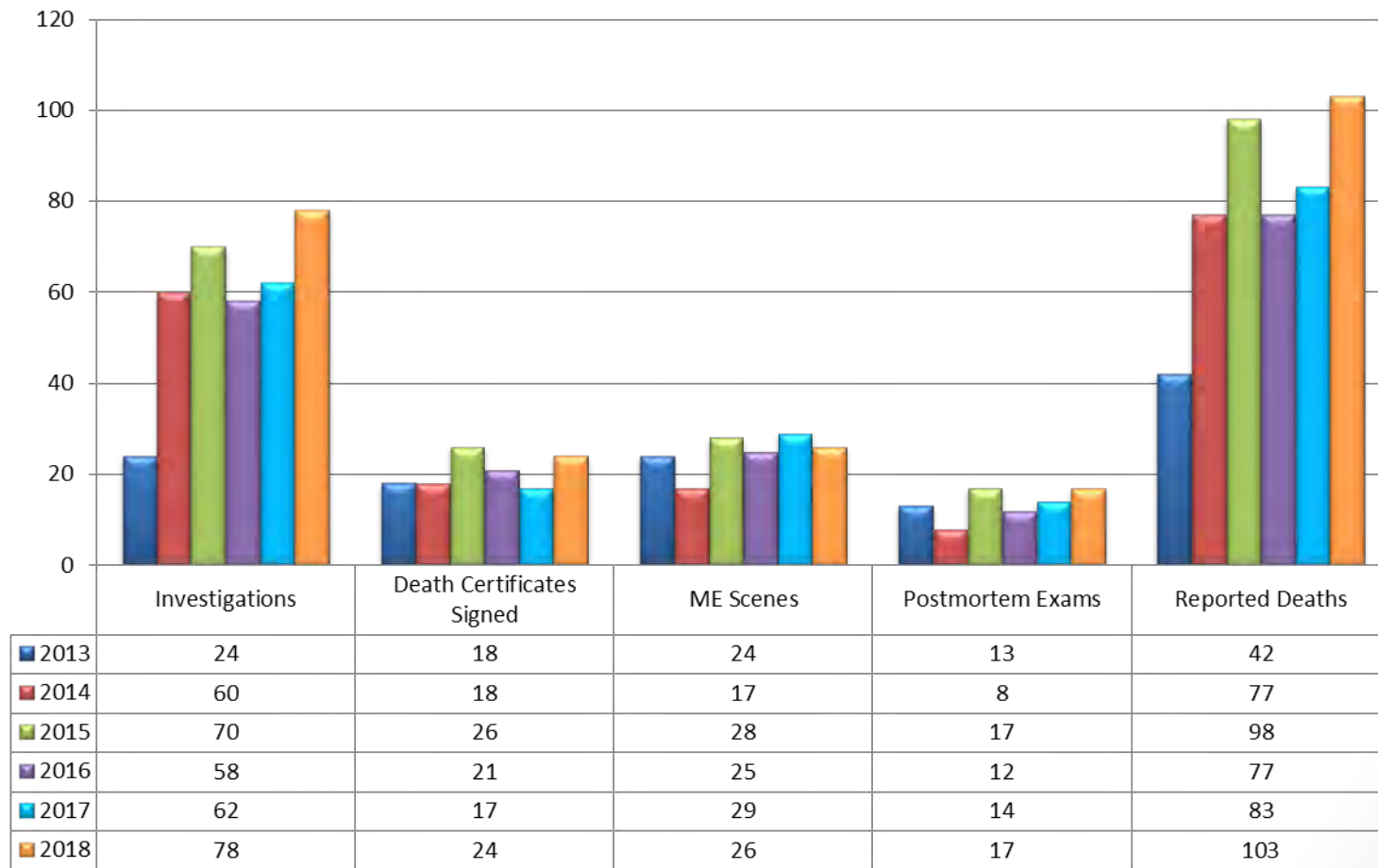
Deaths by Natural Causes



Deaths by Age Group



Medical Examiner Activities



LESSARD - SAMS OUTDOOR HERITAGE COUNCIL - ML 2020 PROPOSALS RECEIVED

Please refer to the LSOHC website for a full listing of all ML 2020 proposals

https://www.isohc.leg.mn/FY2021/requests/index_list.html

County	Project Name	Activity
Aitkin	DNR Forest Habitat Enhancement	Enhance
	DNR Grassland Phase XII	Restore
	Fisheries Habitat Protection on Strategic North Central Minnesota Lakes - Phase VI (2020)	Protect in Easement
	Mississippi Headwaters Habitat Corridor Project-Phase 4	Protect in Fee with PILT
	Young Forest Conservation Phase III	Enhance
Anoka	Accelerated Shallow Lakes and Wetland Enhancement Phase 12	Enhance
	Metro Big Rivers Phase 10	Enhance
		Restore
	Phase 1: Rum River Wildlife and Fish Habitat Enhancement using Bioengineered Bank Stabilization	Enhance
Becker	Accelerating the Waterfowl Production Area Program - Phase XII	Protect in Fee w/o PILT
	DNR Grassland Phase XII	Enhance
	MN Prairie Recovery Program Phase 10	Restore
		Enhance
		Protect in Fee w/o PILT
	Northern Tallgrass Prairie National Wildlife Refuge, Phase XI	Protect in Fee w/o PILT
		Protect in Easement
	Prairie Chicken Habitat Partnership of the Southern Red River Valley - Phase VI	Protect in Fee with PILT
Beltrami	Young Forest Conservation Phase III	Enhance
	DNR Grassland Phase XII	Restore
	Mississippi Headwaters Habitat Corridor Project-Phase 4	Protect in Fee w/o PILT
		Protect in Fee with PILT
Benton	Young Forest Conservation Phase III	Enhance
	DNR Grassland Phase XII	Enhance
Big Stone	Accelerated Shallow Lakes and Wetland Enhancement Phase 12	Enhance
	Accelerating the Waterfowl Production Area Program - Phase XII	Protect in Fee w/o PILT
	DNR Grassland Phase XII	Enhance
		Restore
	MN Prairie Recovery Program Phase 10	Restore
		Enhance
		Protect in Fee w/o PILT
	Northern Tallgrass Prairie National Wildlife Refuge, Phase XI	Protect in Easement
Blue Earth		Protect in Fee w/o PILT
	Accelerating the Waterfowl Production Area Program - Phase XII	Protect in Fee w/o PILT
	DNR Grassland Phase XII	Enhance
	Southeast Wetland Restoration	Restore

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County	Project Name	Activity
Brown	Accelerating the Waterfowl Production Area Program - Phase XII	Protect in Fee w/o PILT
	Accelerating the Wildlife Management Area Program - Phase XII	Protect in Fee with PILT
	DNR Grassland Phase XII	Enhance
	Northern Tallgrass Prairie National Wildlife Refuge, Phase XI	Protect in Fee w/o PILT Protect in Easement
Carlton	DNR Forest Habitat Enhancement	Enhance
	Young Forest Conservation Phase III	Enhance
Carver	Accelerated Shallow Lakes and Wetland Enhancement Phase 12	Enhance
	Accelerating the Waterfowl Production Area Program - Phase XII	Protect in Fee w/o PILT
	Metro Big Rivers Phase 10	Restore
		Protect in Fee w/o PILT
Cass	Fisheries Habitat Protection on Strategic North Central Minnesota Lakes - Phase VI (2020)	Protect in Easement
		Protect in Fee w/o PILT
	Mississippi Headwaters Habitat Corridor Project-Phase 4	Protect in Fee with PILT
	Young Forest Conservation Phase III	Enhance
Chippewa	Accelerated Shallow Lakes and Wetland Enhancement Phase 12	Enhance
	Accelerating the Wildlife Management Area Program - Phase XII	Protect in Fee with PILT
	DNR Grassland Phase XII	Enhance
	DNR WMA and SNA Acquisition, Phase XII	Protect in Fee with PILT
	MN Prairie Recovery Program Phase 10	Enhance
		Protect in Fee w/o PILT
		Restore
	Northern Tallgrass Prairie National Wildlife Refuge, Phase XI	Protect in Fee w/o PILT
		Protect in Easement
Chisago	Metro Big Rivers Phase 10	Protect in Fee with PILT

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County	Project Name	Activity
Clay	Accelerating the Waterfowl Production Area Program - Phase XII	Protect in Fee w/o PILT
	DNR Aquatic Habitat Restoration and Enhancement - Phase 3	Restore
	DNR Grassland Phase XII	Enhance
	DNR WMA and SNA Acquisition, Phase XII	Protect in Fee with PILT
	MN Prairie Recovery Program Phase 10	Enhance
		Protect in Fee w/o PILT
		Restore
	Northern Tallgrass Prairie National Wildlife Refuge, Phase XI	Protect in Easement
		Protect in Fee w/o PILT
Cook	Prairie Chicken Habitat Partnership of the Southern Red River Valley - Phase VI	Protect in Fee with PILT
		Protect in Fee w/o PILT
Cook	DNR Forest Habitat Enhancement	Enhance
	Minnesota Trout Unlimited Coldwater Fish Habitat Enhancement and Restoration, Phase 12	Enhance
Cottonwood	Accelerating the Waterfowl Production Area Program - Phase XII	Protect in Fee w/o PILT
	Accelerating the Wildlife Management Area Program - Phase XII	Protect in Fee with PILT
	DNR Grassland Phase XII	Enhance
		Restore
	MN Prairie Recovery Program Phase 10	Restore
		Enhance
		Protect in Fee w/o PILT
	Northern Tallgrass Prairie National Wildlife Refuge, Phase XI	Protect in Easement
		Protect in Fee w/o PILT
Crow Wing	Shallow Lake & Wetland Protection & Restoration Program - Phase IX	Protect in Fee with PILT
	Accelerated Shallow Lakes and Wetland Enhancement Phase XII	Enhance
	DNR Forest Habitat Enhancement	Enhance
	Fisheries Habitat Protection on Strategic North Central Minnesota Lakes - Phase VI (2020)	Protect in Easement
	Mississippi Headwaters Habitat Corridor Project-Phase 4	Protect in Fee w/o PILT
		Protect in Fee with PILT
Dakota	Young Forest Conservation Phase III	Enhance
	Accelerating the Wildlife Management Area Program - Phase XII	Protect in Fee with PILT
Dodge	Metro Big Rivers Phase 10	Enhance
	Southeast Minnesota Protection and Restoration Phase 8	Protect in Fee with PILT

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County	Project Name	Activity
Douglas	Accelerating the Waterfowl Production Area Program - Phase XII	Protect in Fee w/o PILT
		Protect in Fee with PILT
	DNR Grassland Phase XII	Enhance
	Sauk River Watershed Habitat Protection and Restoration, Phase 2	Restore
Fairbault	Accelerating the Waterfowl Production Area Program - Phase XII	Protect in Fee w/o PILT
		Protect in Fee w/o PILT
	DNR Grassland Phase XII	Enhance
Fillmore	DNR Grassland Phase XII	Enhance
	Southeast Forest Habitat Enhancement Phase II	Enhance
	Southeast Minnesota Protection and Restoration Phase 8	Enhance
		Protect in Fee with PILT
Freeborn	Accelerating the Waterfowl Production Area Program - Phase XII	Protect in Fee w/o PILT
	DNR Grassland Phase XII	Enhance
	Shell Rock River Watershed Habitat Restoration Program - Phase IX	Protect in Fee with PILT
		Enhance Restore
Goodhue	Cannon River Watershed Habitat Complex - Phase IX	Protect in Fee with PILT
		Enhance
	Southeast Forest Habitat Enhancement Phase II	Enhance
Grant	Accelerating the Waterfowl Production Area Program - Phase XII	Protect in Fee w/o PILT
	DNR Grassland Phase XII	Enhance
	Northern Tallgrass Prairie National Wildlife Refuge, Phase XI	Protect in Fee w/o PILT
		Protect in Easement
Hennepin	Wetland Habitat and Protection Program - Phase 5	Enhance
	Metro Big Rivers Phase 10	Enhance
		Restore
		Protect in Fee with PILT
Houston	Hennepin County Habitat Conservation Program - Phase 2	Protect in Easement
		Restore
		Enhance
	DNR Grassland Phase XII	Enhance
Houston	Southeast Forest Habitat Enhancement Phase II	Enhance
	Southeast Minnesota Protection and Restoration Phase 8	Enhance
		Enhance
		Protect in Fee with PILT

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County	Project Name	Activity
Hubbard	Fisheries Habitat Protection on Strategic North Central Minnesota Lakes - Phase VI (2020)	Protect in Easement
	Minnesota Trout Unlimited Coldwater Fish Habitat Enhancement and Restoration, Phase 12	Enhance
	Mississippi Headwaters Habitat Corridor Project-Phase 4	Protect in Fee with PILT
Isanti	Metro Big Rivers Phase 10	Restore
Itasca	DNR Forest Habitat Enhancement	Enhance
	Young Forest Conservation Phase III	Enhance
Jackson	Accelerating Habitat Conservation in Southwest Minnesota	Enhance
	Accelerating the Waterfowl Production Area Program - Phase XII	Protect in Fee w/o PILT
	Accelerating the Wildlife Management Area Program - Phase XII	Protect in Fee with PILT
	DNR Grassland Phase XII	Enhance
	Heron Lake Area Conservation Partnership	Protect in Fee w/o PILT
		Protect in Fee with PILT
	Northern Tallgrass Prairie National Wildlife Refuge, Phase XI	Protect in Easement
		Protect in Fee w/o PILT
Kanabec	DNR Grassland Phase XII	Enhance
Kandiyohi	Accelerating the Waterfowl Production Area Program - Phase XII	Protect in Fee w/o PILT
	Accelerating the Wildlife Management Area Program - Phase XII	Protect in Fee with PILT
	DNR Grassland Phase XII	Enhance
	DNR WMA and SNA Acquisition, Phase XII	Protect in Fee with PILT
	MN Prairie Recovery Program Phase 10	Restore
		Protect in Fee w/o PILT
		Enhance
	Northern Tallgrass Prairie National Wildlife Refuge, Phase XI	Protect in Fee w/o PILT
		Protect in Easement
Kittson	DNR Grassland Phase XII	Enhance
	MN Prairie Recovery Program Phase 10	Restore
		Protect in Fee w/o PILT
		Enhance
	Northern Tallgrass Prairie National Wildlife Refuge, Phase XI	Protect in Easement
		Protect in Fee w/o PILT
Koochiching	DNR Forest Habitat Enhancement	Enhance

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County	Project Name	Activity
Lac Qui Parle	Accelerated Shallow Lakes and Wetland Enhancement Phase 12	Enhance
	Accelerating Habitat Conservation in Southwest Minnesota	Protect in Easement
	DNR Grassland Phase XII	Enhance
	MN Prairie Recovery Program Phase 10	Enhance
		Restore
		Protect in Fee w/o PILT
	Northern Tallgrass Prairie National Wildlife Refuge, Phase XI	Protect in Fee w/o PILT
Lake		Protect in Easement
	DNR Aquatic Habitat Restoration and Enhancement - Phase 3	Enhance
	DNR Forest Habitat Enhancement	Enhance
	Knife River Habitat Rehabilitation-Phase V	Enhance
Le Sueur	Minnesota Trout Unlimited Coldwater Fish Habitat Enhancement and Restoration, Phase 12	Enhance
	Cannon River Watershed Habitat Complex - Phase IX	Enhance
Lincoln		Protect in Fee with PILT
		Restore
	Accelerating Habitat Conservation in Southwest Minnesota	Protect in Easement
	Accelerating the Waterfowl Production Area Program - Phase XII	Protect in Fee w/o PILT
	DNR Grassland Phase XII	Enhance
		Restore
	DNR WMA and SNA Acquisition, Phase XII	Protect in Fee with PILT
	MN Prairie Recovery Program Phase 10	Restore
		Enhance
Lyon		Protect in Fee w/o PILT
	Accelerating the Waterfowl Production Area Program - Phase XII	Protect in Fee w/o PILT
	Accelerating the Wildlife Management Area Program - Phase XII	Protect in Fee with PILT
	DNR Grassland Phase XII	Enhance
	DNR WMA and SNA Acquisition, Phase XII	Protect in Fee with PILT
	East Twin Lake Outlet Establishment	Restore
	MN Prairie Recovery Program Phase 10	Enhance
		Protect in Fee w/o PILT
		Restore
	Northern Tallgrass Prairie National Wildlife Refuge, Phase XI	Protect in Fee w/o PILT
		Protect in Easement
	Shallow Lake & Wetland Protection & Restoration Program - Phase IX	Protect in Fee with PILT

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County	Project Name	Activity
Mahnomens	DNR Grassland Phase XII	Enhance
	MN Prairie Recovery Program Phase 10	Restore
		Enhance
		Protect in Fee w/o PILT
	Northern Tallgrass Prairie National Wildlife Refuge, Phase XI	Protect in Fee w/o PILT
		Protect in Easement
Marshall	Prairie Chicken Habitat Partnership of the Southern Red River Valley - Phase VI	Protect in Fee with PILT
		Protect in Fee w/o PILT
	DNR Grassland Phase XII	Enhance
		Restore
Martin	Northern Tallgrass Prairie National Wildlife Refuge, Phase XI	Protect in Easement
		Protect in Fee w/o PILT
	Accelerating the Wildlife Management Area Program - Phase XII	Protect in Fee with PILT
	DNR Grassland Phase XII	Enhance
McLeod	DNR WMA and SNA Acquisition, Phase XII	Protect in Fee with PILT
	Martin County DNR WMA Acquisition Phase 4	Protect in Fee with PILT
	Accelerating the Waterfowl Production Area Program - Phase XII	Protect in Fee w/o PILT
	Accelerating the Waterfowl Production Area Program - Phase XII	Protect in Fee w/o PILT
Meeker		Protect in Fee with PILT
	DNR Grassland Phase XII	Enhance
	Sauk River Watershed Habitat Protection and Restoration, Phase 2	Restore
	Camp Ripley Sentinel Landscape ACUB Protection Program - Phase VIII	Protect in Easement
Morrison	DNR Grassland Phase XII	Enhance
Mower	DNR Grassland Phase XII	Enhance
Murray	Accelerating the Waterfowl Production Area Program - Phase XII	Protect in Fee w/o PILT
	Accelerating the Wildlife Management Area Program - Phase XII	Protect in Fee with PILT
	DNR Grassland Phase XII	Enhance
	DNR WMA and SNA Acquisition, Phase XII	Protect in Fee with PILT
	Heron Lake Area Conservation Partnership	Protect in Fee with PILT
	MN Prairie Recovery Program Phase 10	Enhance
		Protect in Fee w/o PILT
		Restore
	Northern Tallgrass Prairie National Wildlife Refuge, Phase XI	Protect in Easement
		Protect in Fee w/o PILT
	Shallow Lake & Wetland Protection & Restoration Program - Phase IX	Protect in Fee with PILT

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County	Project Name	Activity
Nicollet	Northern Tallgrass Prairie National Wildlife Refuge, Phase XI	Protect in Easement Protect in Fee w/o PILT
Nobles	Accelerating Habitat Conservation in Southwest Minnesota	Enhance
	Accelerating the Waterfowl Production Area Program - Phase XII	Protect in Fee w/o PILT
	Accelerating the Wildlife Management Area Program - Phase XII	Protect in Fee with PILT
	DNR WMA and SNA Acquisition, Phase XII	Protect in Fee with PILT
	MN Prairie Recovery Program Phase 10	Protect in Fee w/o PILT
		Enhance
		Restore
Norman	Northern Tallgrass Prairie National Wildlife Refuge, Phase XI	Protect in Easement Protect in Fee w/o PILT
	Shallow Lake & Wetland Protection & Restoration Program - Phase IX	Protect in Fee with PILT
	DNR Grassland Phase XII	Enhance
	DNR WMA and SNA Acquisition, Phase XII	Protect in Fee with PILT
	Lower Wild Rice River Corridor Habitat Restoration - Phase III	Protect In Easement
	MN Prairie Recovery Program Phase 10	Enhance
		Protect in Fee w/o PILT
Olmsted		Restore
	DNR Aquatic Habitat Restoration and Enhancement - Phase 3	Restore
	DNR Grassland Phase XII	Enhance
	Minnesota Trout Unlimited Coldwater Fish Habitat Enhancement and Restoration, Phase 12	Enhance
	Southeast Forest Habitat Enhancement Phase II	Enhance
		Enhance
		Enhance
Otter Tail	Accelerating the Waterfowl Production Area Program - Phase XII	Protect in Fee w/o PILT
	Accelerating the Wildlife Management Area Program - Phase XII	Protect in Fee with PILT
	DNR Aquatic Habitat Restoration and Enhancement - Phase 3	Enhance
	DNR Grassland Phase XII	Enhance
	Northern Tallgrass Prairie National Wildlife Refuge, Phase XI	Protect in Easement Protect in Fee w/o PILT
		Enhance
	Wetland Habitat and Protection Program - Phase 5	Enhance
		Restore

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County	Project Name	Activity
Pennington	MN Prairie Recovery Program Phase 10	Protect in Fee w/o PILT Enhance Restore
	Northern Tallgrass Prairie National Wildlife Refuge, Phase XI	Protect in Easement Protect in Fee w/o PILT
Pine	DNR Aquatic Habitat Restoration and Enhancement - Phase 3	Restore
	DNR Forest Habitat Enhancement	Enhance
Pipestone	DNR WMA and SNA Acquisition, Phase XII	Protect in Fee with PILT
	MN Prairie Recovery Program Phase 10	Protect in Fee w/o PILT Enhance Restore
	Northern Tallgrass Prairie National Wildlife Refuge, Phase XI	Protect in Fee w/o PILT Protect in Easement
Polk	Accelerated Shallow Lakes and Wetland Enhancement Phase 12	Enhance
	Accelerating the Waterfowl Production Area Program - Phase XII	Protect in Fee w/o PILT
	DNR Grassland Phase XII	Enhance
	MN Prairie Recovery Program Phase 10	Enhance Protect in Fee w/o PILT Restore
	Northern Tallgrass Prairie National Wildlife Refuge, Phase XI	Protect in Fee w/o PILT Protect in Easement
	Sauk River Watershed Habitat Protection and Restoration, Phase 2	Restore
	Wetland Habitat and Protection Program - Phase 5	Enhance Restore
Ramsey	Metro Big Rivers Phase 10	Enhance
Red Lake	DNR Grassland Phase XII	Enhance
	MN Prairie Recovery Program Phase 10	Restore Protect in Fee w/o PILT Enhance
	Northern Tallgrass Prairie National Wildlife Refuge, Phase XI	Protect in Fee w/o PILT Protect in Easement

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County	Project Name	Activity
Redwood	Accelerating the Wildlife Management Area Program - Phase XII	Protect in Fee with PILT
	DNR Grassland Phase XII	Enhance
	Northern Tallgrass Prairie National Wildlife Refuge, Phase XI	Protect in Fee w/o PILT
	Shallow Lake & Wetland Protection & Restoration Program - Phase IX	Protect in Easement
Renville	Accelerating the Waterfowl Production Area Program - Phase XII	Protect in Fee with PILT
	DNR Grassland Phase XII	Enhance
	Northern Tallgrass Prairie National Wildlife Refuge, Phase XI	Protect in Fee w/o PILT
		Protect in Easement
Rice	Accelerating the Waterfowl Production Area Program - Phase XII	Protect in Fee w/o PILT
	Cannon River Watershed Habitat Complex - Phase IX	Protect in Fee with PILT
		Restore
	DNR Grassland Phase XII	Enhance
Rock	Accelerating the Wildlife Management Area Program - Phase XII	Protect in Fee with PILT
	MN Prairie Recovery Program Phase 10	Restore
		Enhance
	Northern Tallgrass Prairie National Wildlife Refuge, Phase XI	Protect in Fee w/o PILT
Roseau		Protect in Easement
	Accelerated Shallow Lakes and Wetland Enhancement Phase 12	Enhance
	DNR Grassland Phase XII	Enhance
	MN Prairie Recovery Program Phase 10	Enhance
		Restore
	Northern Tallgrass Prairie National Wildlife Refuge, Phase XI	Protect in Fee w/o PILT
Scott		Protect in Easement
	Protect in Fee w/o PILT	Protect in Fee w/o PILT
	Roseau River Habitat Restoration	Restore
Sherburne	DNR Grassland Phase XII	Enhance
	Metro Big Rivers Phase 10	Protect in Fee w/o PILT
Sibley	Metro Big Rivers Phase 10	Restore
		Protect in Fee w/o PILT

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County	Project Name	Activity
St. Louis	Accelerated Shallow Lakes and Wetland Enhancement Phase 12	Enhance
	DNR Aquatic Habitat Restoration and Enhancement - Phase 3	Restore
	DNR Forest Habitat Enhancement	Enhance
	Knife River Habitat Rehabilitation-Phase V	Enhance
	Northern Forest Habitat Conservation	Protect in Fee w/o PILT
	St. Louis River Restoration Initiative Phase 7	Restore
	Young Forest Conservation Phase III	Enhance
Stearns	Accelerating the Waterfowl Production Area Program - Phase XII	Protect in Fee w/o PILT
	Accelerating the Wildlife Management Area Program - Phase XII	Protect in Fee with PILT
	DNR WMA and SNA Acquisition, Phase XII	Protect in Fee with PILT
	MN Prairie Recovery Program Phase 10	Protect in Fee w/o PILT
		Enhance
		Restore
	Northern Tallgrass Prairie National Wildlife Refuge, Phase XI	Protect in Fee w/o PILT
		Protect in Easement
	Sauk River Watershed Habitat Protection and Restoration, Phase 2	Protect in Fee with PILT
		Protect in Fee w/o PILT
Steele	Cannon River Watershed Habitat Complex - Phase IX	Protect in Fee with PILT
Stevens	Accelerated Shallow Lakes and Wetland Enhancement Phase 12	Enhance
	Accelerating the Waterfowl Production Area Program - Phase XII	Protect in Fee w/o PILT
	DNR Grassland Phase XII	Enhance
	Northern Tallgrass Prairie National Wildlife Refuge, Phase XI	Protect in Fee w/o PILT
		Protect in Easement
Swift	Accelerating the Waterfowl Production Area Program - Phase XII	Protect in Fee w/o PILT
	Accelerating the Wildlife Management Area Program - Phase XII	Protect in Fee with PILT
	DNR Grassland Phase XII	Enhance
	MN Prairie Recovery Program Phase 10	Restore
		Enhance
		Protect in Fee w/o PILT
	Northern Tallgrass Prairie National Wildlife Refuge, Phase XI	Protect in Fee w/o PILT
		Protect in Easement
	Shallow Lake & Wetland Protection & Restoration Program - Phase IX	Protect in Fee with PILT
	Wetland Habitat and Protection Program - Phase 5	Enhance

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County	Project Name	Activity
Todd	DNR Grassland Phase XII	Restore
		Enhance
	Sauk River Watershed Habitat Protection and Restoration, Phase 2	Restore
Traverse	DNR Grassland Phase XII	Enhance
	MN Prairie Recovery Program Phase 10	Restore
		Enhance
		Protect in Fee w/o PILT
	Northern Tallgrass Prairie National Wildlife Refuge, Phase XI	Protect in Fee w/o PILT
Wabasha		Protect in Easement
	DNR Grassland Phase XII	Enhance
	Southeast Forest Habitat Enhancement Phase II	Enhance
	Southeast Minnesota Protection and Restoration Phase 8	Protect in Fee with PILT
Waseca		Protect in Fee w/o PILT
	Cannon River Watershed Habitat Complex - Phase IX	Protect in Fee with PILT
Washington	DNR Grassland Phase XII	Restore
	Metro Big Rivers Phase 10	Enhance
		Restore
		Protect in Fee with PILT
		Protect in Fee w/o PILT
Watsonwan	Accelerating the Wildlife Management Area Program - Phase XII	Protect in Fee with PILT
	DNR WMA and SNA Acquisition, Phase XII	Protect in Fee with PILT
	Martin County DNR WMA Acquisition Phase 4	Protect in Fee with PILT
Wilkin	DNR Grassland Phase XII	Enhance
	MN Prairie Recovery Program Phase 10	Restore
		Protect in Fee w/o PILT
		Enhance
	Northern Tallgrass Prairie National Wildlife Refuge, Phase XI	Protect in Easement
		Protect in Fee w/o PILT
	Prairie Chicken Habitat Partnership of the Southern Red River Valley - Phase VI	Protect in Fee with PILT
Winona	Wetland Habitat and Protection Program - Phase 5	Enhance
	DNR Grassland Phase XII	Enhance
		Restore
	Southeast Forest Habitat Enhancement Phase II	Enhance
	Southeast Minnesota Protection and Restoration Phase 8	Protect in Fee with PILT
		Enhance

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County	Project Name	Activity
Wright	Accelerating the Waterfowl Production Area Program - Phase XII	Protect in Fee w/o PILT
Yellow Medicine	Accelerating the Wildlife Management Area Program - Phase XII	Protect in Fee With Pilt
	DNR Grassland Phase XII	Enhance
	DNR WMA and SNA Acquisition, Phase XII	Protect in Fee with PILT
	MN Prairie Recovery Program Phase 10	Restore
		Enhance
		Protect in Fee w/o PILT
	Northern Tallgrass Prairie National Wildlife Refuge, Phase XI	Protect in Easement
		Protect in Fee w/o PILT

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County	Project Name	Activity
ADDITIONAL ML 2020 PROPOSALS - NOT COUNTY SPECIFIC		
<i>The following proposals do not yet have parcel specific information and therefor are unable to specify in which counties work may take place. Each of these proposals target specific geographic locations (i.e. metro, northern forest, etc.).</i>		
LSOHC Region	Project Name	Activity
Northern Forest	Protecting Coldwater Fisheries on Minnesota's North Shore	Protect in Easement
		Restore
		Enhance
	Targeted RIM Easement Program to the Individual Parcel: Pine and Leech Watersheds Phase 1	Protect in Easement
Forest / Prairie Transition	Enhanced Public Land – Grasslands - Phase IV	Restore
		Enhance
	RIM Grassland Reserve - Phase II	Protect in Easement
	Accelerating the USFWS Habitat Conservation Easement Program - Phase II	Protect in Easement
		Restore
Prairie	Enhanced Public Land – Grasslands - Phase IV	Restore
		Enhance
	RIM Grassland Reserve - Phase II	Protect in Easement
	Accelerating the USFWS Habitat Conservation Easement Program - Phase II	Protect in Easement
		Restore
Metro / Urban	Enhanced Public Land – Grasslands - Phase IV	Restore
		Enhance
Southeast Forest	Resilient Habitat for Heritage Brook Trout	Protect in Easement
		Protect in Fee
		Restore
		Enhance

From: [Becky Enfield](#)
To: [jessica.seibert@co.aitkin.mn.us](#); [rhonda.sivarajah@co.anoka.mn.us](#); [mike.brethorst@co.becker.mn.us](#); [kay.mack@co.beltrami.mn.us](#); [mheadley@co.benton.mn.us](#); [michelle.knutson@co.big-stone.mn.us](#); [bob.meyer@blueearthcountymn.gov](#); [sam.hansen@co.brown.mn.us](#); [dennis.genereau@co.carlton.mn.us](#); [dhemze@co.carver.mn.us](#); [josh.stevenson@co.cass.mn.us](#); [mmay@co.chippewa.mn.us](#); [bruce.messelt@chisagocounty.us](#); [steve.larson@co.clay.mn.us](#); [allen.paulson@co.clearwater.mn.us](#); [jeff.cadwell@co.cook.mn.us](#); [Kelly.Thongvivong@co.cottonwood.mn.us](#); [tim.houle@crowwing.us](#); [matt.smith@co.dakota.mn.us](#); [jim.elmquist@co.dodge.mn.us](#); [HeatherS@co.douglas.mn.us](#); [john.thompson@co.faribault.mn.us](#); [bvickerman@co.fillmore.mn.us](#); [tom.jensen@co.freeborn.mn.us](#); [scott.arneson@co.goodhue.mn.us](#); [chad.vansanten@co.grant.mn.us](#); [david.hough@hennepin.us](#); [Jeff.Babinski@co.hubbard.mn.us](#); [kevin.vanhooser@co.isanti.mn.us](#); [brett.skyles@co.itasca.mn.us](#); [steven.duncan@co.jackson.mn.us](#); [kris.mcnelly@co.kanabec.mn.us](#); [larry.kleindl@kcmn.us](#); [echristensen@co.kittson.mn.us](#); [jenny.herman@co.koochiching.mn.us](#); [jake.sieg@lqpc.com](#); [matthew.huddleston@co.lake.mn.us](#); [lorene_h@co.lake-of-the-woods.mn.us](#); [dpettis@co.le-sueur.mn.us](#); [DVierhuf@co.lincoln.mn.us](#); [lorenstomberg@co.lyon.mn.us](#); [james.lee@co.mahnomen.mn.us](#); [scott.peters@co.marshall.mn.us](#); [scott.higgins@co.martin.mn.us](#); [sheila.murphy@co.mcleod.mn.us](#); [cindy.ford@co.mcleod.mn.us](#); [paul.virnig@co.meeker.mn.us](#); [pat.oman@millelacs.mn.gov](#); [debgr@co.morrison.mn.us](#); [Trish.Harren@co.mower.mn.us](#); [tburke@co.murray.mn.us](#); [rkrosch@co.nicollet.mn.us](#); [tjohnson@co.nobles.mn.us](#); [donna.hanson@co.norman.mn.us](#); [welsch.heidi@co.olmsted.mn.us](#); [jdinsmor@co.otter-tail.mn.us](#); [ktolson@co.pennington.mn.us](#); [david.minke@co.pine.mn.us](#); [steve.ewing@co.pipetstone.mn.us](#); [chuck.whiting@co.polk.mn.us](#); [kersten.kappmeyer@co.pope.mn.us](#); [ryan.oconnor@CO.RAMSEY.MN.US](#); [raschmitz@co.red-lake.mn.us](#); [vicki_k@co.redwood.mn.us](#); [lilah@renvillecountymn.com](#); [sfolsted@co.rice.mn.us](#); [kyle.oltre@co.rock.mn.us](#); [pelowski@co.roseau.mn.us](#); [lvermillion@co.scott.mn.us](#); [JohnG@co.sibley.mn.us](#); [grayk@stlouiscountymn.gov](#); [michael.williams@co.stearns.mn.us](#); [scott.golberg@co.steele.mn.us](#); [rebeccayoung@co.stevens.mn.us](#); [kelsey.baker@co.swift.mn.us](#); [jonathan.stainbrook@co.todd.mn.us](#); [lisa.zahl@co.traverse.mn.us](#); [cholimsten@co.wabasha.mn.us](#); [bbuhmann@co.wabasha.mn.us](#); [ryan.odden@co.wadena.mn.us](#); [jessica.beyer@co.waseca.mn.us](#); [molly.o'rourke@co.washington.mn.us](#); [kelly.paulling@co.watonwan.mn.us](#); [jkrump@co.wilkin.mn.us](#); [KFritz@co.winona.mn.us](#); [lee.kelly@co.wright.mn.us](#); [angle.steinbach@co.ym.mn.gov](#); [anne.marcotte@co.aitkin.mn.us](#); [scott.schulte@co.anoka.mn.us](#); [jokeson@co.becker.mn.us](#); [lukmar@paulbunyan.net](#); [jake.bauerly@co.benton.mn.us](#); [roger.sandberg@co.big-stone.mn.us](#); [will.purvis@blueearthcountymn.gov](#); [district1@co.brown.mn.us](#); [dick.brenner@co.carlton.mn.us](#); [rmaluchnik@co.carver.mn.us](#); [scott.brunns@co.cass.mn.us](#); [dlieser@co.chippewa.mn.us](#); [richard.green@chisagocounty.us](#); [mgwsf@msn.com](#); [john.nelson@co.clearwater.mn.us](#); [ginny.storlie@co.cook.mn.us](#); [norm.holmen@co.cottonwood.mn.us](#); [rosemay.franzen@crowwing.us](#); [liz.workman@co.dakota.mn.us](#); [john@rochesterservicecompany.com](#); [charliem@co.douglas.mn.us](#); [bill.groskreutz@co.faribault.mn.us](#); [dbakke@co.fillmore.mn.us](#); [christopher.shoff@co.freeborn.mn.us](#); [brad.anderson@co.goodhue.mn.us](#); [troy.johnson@co.grant.mn.us](#); [marion.greene@hennepin.us](#); [Teresa.Walter@dstacey@co.hubbard.mn.us](#); [mike.warring@co.isanti.mn.us](#); [davin.tinguist@co.itasca.mn.us](#); [Cathy.Hohenstein@co.jackson.mn.us](#); [kathi.ellis@co.kanabec.mn.us](#); [Rollie.Nissen@kcmn.us](#); [leon.caribou@gmail.com](#); [brian.mcbride@co.koochiching.mn.us](#); [roy.marhart@lqpc.com](#); [rich.sve@co.lake.mn.us](#); [cody_h@co.lake-of-the-woods.mn.us](#); [jking@co.le-sueur.mn.us](#); [mikely52@hotmail.com](#); [garycrowley@co.lyon.mn.us](#); [karen.ahmann@co.mahnomen.mn.us](#); [gary.kiesow@co.marshall.mn.us](#); [kathy.smith@co.martin.mn.us](#); [joseph.nagel@co.mcleod.mn.us](#); [bmhusman@co.meeker.mn.us](#); [rogerdist4@frontiernet.net](#); [randyw@co.morrison.mn.us](#); [mankeny@co.mower.mn.us](#); [dthiner@co.murray.mn.us](#); [denny.kemp@co.nicollet.mn.us](#); [mwidboom@co.nobles.mn.us](#); [nathan.redland@co.norman.mn.us](#); [bier.jim@co.olmsted.mn.us](#); [doug.huebsch@gmail.com](#); [blawrence@co.pennington.mn.us](#); [Joshua.Mohr@co.pine.mn.us](#); [chris.hollingsworth@co.pipetstone.mn.us](#); [warren.strandell@co.polk.mn.us](#); [cody.rogahn@co.pope.mn.us](#); [jim.mcdonough@co.ramsey.mn.us](#); [sweiss@gvtel.com](#); [jim_s2@co.redwood.mn.us](#); [douge@renvillecountymn.com](#); [gmaledcha@co.rice.mn.us](#); [greg.burger@co.rock.mn.us](#); [nswanson@wiktel.com](#); [bweckmanbrekke@co.scott.mn.us](#); [tim.dolan@co.sherburne.mn.us](#); [joyc@co.sibley.mn.us](#); [boylep@stlouiscountymn.gov](#); [joe.perske@co.stearns.mn.us](#); [greg.krueger@co.steele.mn.us](#); [jeanneennen@co.stevens.mn.us](#); [edward.pederson@co.swift.mn.us](#); [gary.kneisl@co.todd.mn.us](#); [wingnfintraverse@gmail.com](#); [dspringer@co.wabasha.mn.us](#); [bill.stearns@co.wadena.mn.us](#); [brian.harguth@co.waseca.mn.us](#); [stan.karwoski@co.washington.mn.us](#); [jbranstad@co.watonwan.mn.us](#); [eklindt@wilburellis.com](#); [mkovecsi@co.winona.mn.us](#); [Darek.Vetsch@co.wright.mn.us](#); [greg.renneke@co.ym.mn.gov](#)
Cc: [bmartinson@mncounties.org](#); [ring@mncounties.org](#); [Bob Anderson](#); [Mark Johnson](#); [Joe Pavelko](#); [Sandy Smith](#)
Subject: County Board Notification of Outdoor Heritage Fund Proposals
Date: Wednesday, July 10, 2019 3:43:34 PM
Attachments: [County Notification ML2020 List.pdf](#)

Dear Counties of Minnesota,

Each spring, the Lessard-Sams Outdoor Heritage Council (LSOHC) solicits habitat conservation project proposals to be considered for funding recommendation to the MN Legislature. This letter is to alert you to proposals that could, if they are successful in receiving LSOHC recommendation for funding and ultimate legislative approval of funding during the 2020 Legislative session, have

projects within your county.

In accordance with MN State Statute 97A.056, Subd. 13(j), this letter and the web link listed below are to comply with statutory direction that the Lessard-Sams Outdoor Heritage Council (LSOHC) “provide counties with a list of project proposals that include potential fee title land acquisitions in the county that is based on that year’s funding requests received by the council from nongovernmental organizations.”

As referenced above, the attached document provides a detailed list of project proposals, segregated by county, with potential fee-title activity (with or without PILT) within each county.

In an effort to provide each County Board with additional information beyond fee-title acquisition activities, the linked spreadsheet also includes information of project proposals with habitat restoration, enhancement, and easement acquisition activities within each county.

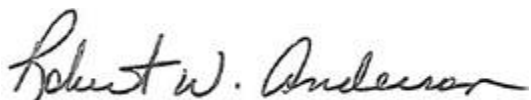
With this information in mind, it is important to remember that these project proposals have not yet received funding. They are simply “proposals” at this time and this is the beginning of the process through which they are requesting funding. Consequently, I would urge you to reach out to the program managers of those project proposals that propose activity in your county. The program managers will be able to provide you with detailed information including why, where, and how they hope to accomplish habitat work. Hopefully, increasing communication between County Boards and nongovernmental organizations who propose working in your county will provide greater knowledge, transparency, and overall collaboration.

Additionally, the LSOHC invites your County Board’s feedback regarding the program proposals seeking funding for work in your county. The LSOHC will conduct hearings on September 4 – 5, 2019. To be of greatest impact, we suggest any feedback be submitted prior to the hearings. It is our hope that this opportunity will increase communication and lead to stronger, more widely beneficial, and more widely supported project proposals in the future.

Ultimately, the Council’s goal is to recommend the use of Outdoor Heritage Fund monies to protect, restore, and enhance Minnesota’s natural habitat resources to the benefit of future generations. With that responsibility in mind, the Council continuously strives to increase communication and promote inclusion of diverse partnerships. Your involvement and feedback are welcomed and can help the Council come to the best decisions.

For further information, please feel free to contact LSOHC staff. Their contact information is available on the LSOHC website; <https://www.lsohc.leg.mn/>.

Sincerely,

A handwritten signature in black ink that reads "Robert W. Anderson". The signature is written in a cursive, flowing style.

Bob Anderson

Chairman
Lessard-Sams Outdoor Heritage Council

Becky Enfield
Commission Assistant
Lessard Sams Outdoor Heritage Council
651-284-6430
Becky.enfield@lsohc.leg.mn

Count	Applicant	Parcel	Address	Reason	Abatement Amount	Approved	Taxes Due	Diff	
1	Miller, Adrian (Sam), and Gordon	02.0143.000	9950 Ridgeview, Brownsville	Homestead was removed in error	\$ (980.00)		979.00	-1.00	
	Miller, Adrian (Sam), and Gordon	02.0059.000	9950 Ridgeview, Brownsville	Homestead was removed in error	\$ (552.00)		551.00	-1.00	
2	Schoh, Carl	20.0316.000	314 Marina Drive, Brownsville	New value did not hold in tax system	\$ (398.00)		3163.00	2765.00	
	Schoh, Carl	25.2013.000	604 12th Court, La Crescent	New value did not hold in tax system	\$ (444.00)		2567.00	2123.00	
3	Schwake, Ron and Shirley	25.0741.000	906 Cedar Drivie, La Crescent	Homestead entered as non-homestead	\$ 244.00		1007.00	1251.00	
4	Schroeder, Dan and Sheila	15.0147.001	20626 Camp Winnebago Rd	Clerical error value was entered twice on new const	\$ (510.00)		1312.00	802.00	
5	Johnson, Tom and Virginia	06.0107.000	425 Sheridan St. South, Houston	Sp Ag application not processed	\$ (1,034.00)		544.00	-490.00	
	Johnson, Tom and Virginia	06.0117.000	425 Sheridan St. South, Houston	Sp Ag application not processed	\$ (604.00)		604.00	0.00	
	Johnson, Tom and Virginia	06.0177.000	425 Sheridan St. South, Houston	Sp Ag application not processed	\$ (98.00)		98.00	0.00	
6	Diaz, Jane	25.0170.000	613 2nd St North, La Crescent	Homestead code error so didn't hold	\$ (778.00)		1090.00	312.00	
7	Wiese, Kim	25.0455.000	436 3rd St, La Crescent	Homestead code error so didn't hold	\$ (392.00)		978.00	586.00	
8	Wiese, Kathy and Kyle	25.0456.000	231 Elm St. S., La Crescent	Homestead code error so didn't hold	\$ (374.00)		1089.00	715.00	
9	ABLE	21.1118.000	504 N Winnebago, Caledonia	Exempt property, coded as homestead	\$ (3,410.00)		3410.00+P	0.00	
	ABLE	21.1254.000	900 Courtney	Exempt property, coded as homestead	\$ (4,546.00)		4546.00+P	0.00	
10	Hitchins, Karen	26.0081.000	212 2nd Ave NW, Spring Grove	Homestead was removed in error	\$ (526.00)		859.00	333.00	
11	Jennings, Mark and Sandra	09.0104.000	8705 County 3, Caledonia	Lost Ag homestead instead of just HGA	\$ (1,700.00)		2137.00	437.00	
	Jennings, Mark and Sandra	09.0111.002	8705 County 3, Caledonia	Lost Ag homestead instead of just HGA	\$ 68.00		1642.00	1574.00	-68
	Jennings, Mark and Sandra	02.0254.001	8705 County 3, Caledonia	Lost Ag homestead instead of just HGA	\$ (108.00)		260.00	152.00	
12	International Owl Center	24.0494.000	205 N Grant, Houston	Classification changed to homestead from Comm.	\$ (876.00)		1562.00	686.00	
13	Zerbe, Ralph	10.0001.001	Stinson Valley	Homestead code error so didn't hold	\$ (440.00)		650.00	210.00	
14	Kletzke, JoAnne	20.0049.000	104 S 3rd, Brownsville	Land value had a clerical error	\$ (178.00)		727.00	549.00	
15	Dakota, Minnesota and Easter RR	20.0270.000	N/A	Certified Value was incorrectly entered	\$ (3,886.00)		5274.00	1388.00	
16	Mason, Patricia and Matthew	25.2025.000	418 Red Apple Drive, La Crescent	Incorrectly classified as non-homestead	\$ (1,218.00)		3083.00	1865.00	
17	Hansen, Karla and Erik	13.0125.002	633 3rd Ave NW Spring Grove	Relative homestead should have carried over until regular o	\$ (242.00)		813.12	571.12	pen ?
18	Tarrence, Joshua and Kara	25.2066.000	513 Red Apple Drive, LC	Error in calc parcel lies in two Counties	\$ (606.00)		2196.00	1590.00	
19	McCormick, Kevin	09.0104.001	10038 County 3, Caledonia	Homested removed when split	\$ (1,928.00)		1929.00	1.00	-1930
20	Olerud, Kevin	13.0164.001	550 Division, Spring Grove	Should have been homestead	\$ (98.00)		97.00	-1.00	
	Olerud, Kevin	13.0161.000	550 Division, Spring Grove	Should have been homestead	\$ (1,462.00)		2128.00	666.00	
	Olerud, Kevin	01.0389.000	550 Division, Spring Grove	Should have been homestead	\$ 490.00		876.00	1366.00	
21	Ellingson	15.0213.000	126 2nd Ave SE, Spring Grove	Split- Seller was charged for both parcels	\$ (5,660.00)		6006.00	346.00	pen ?
22	Dagnon, Courtney and Colin	25.0097.000	632 N 3rd Street, LC	Homestead was removed in error	\$ (322.00)		1439.00	1117.00	
23	Parkington, Lynn and Sharon	20.0237.000	8697 Swan View Ln, Brnsville	Land was doubled and increased	\$ (494.00)		521.00	27.00	
24	Klinski, Gary/Sandy	04.0302.001	12304 Knollwood, Caledonia	Special Ag did not hold	\$ (102.00)		51.00	-51.00	
	Klinski, Gary/Sandy	04.0305.000	12304 Knollwood, Caledonia	Special Ag did not hold	\$ (108.00)		54.00	-54.00	
	Klinski, Gary/Sandy	04.0306.000	12304 Knollwood, Caledonia	Special Ag did not hold	\$ (822.00)		439.00	-383.00	
	Klinski, Gary/Sandy	16.0001.001	12304 Knollwood, Caledonia	Special Ag did not hold	\$ (338.00)		339.00	1.00	
	Klinski, Gary/Sandy	16.0006.001	12304 Knollwood, Caledonia	Special Ag did not hold	\$ (90.00)		89.00	-1.00	
	Klinski, Gary/Sandy	16.0006.002	12304 Knollwood, Caledonia	Special Ag did not hold	\$ (8.00)		0.00	-8.00	
	Klinski, Gary/Sandy	16.0008.001	12304 Knollwood, Caledonia	Special Ag did not hold	\$ (346.00)		346.00	0.00	
	Klinski, Gary/Sandy	16.0011.000	12304 Knollwood, Caledonia	Special Ag did not hold	\$ (140.00)		141.00	1.00	
25	Knutson, Kent	02.0149.001	11847 Ridgeview, Hokah	Ag parcels not correctly linked to each other	\$ (78.00)		1997.00	1919.00	

[illegible]

Houston County Agenda Request Form

Date Submitted: July 29, 2019

BOARD DATE: August 14, 2019

Person requesting appointment with County Board: Brian Pogodzinski

Issue:

Project # CP 2019-05A with Milestone Materials is complete and ready to be finalized.
Maintenance Rock Contract for CSAHs 24 and 32.

Attachments/Documentation for the Board's Review:

Final Contract Voucher (4 need to be signed)
(1-County Claim, 1 Contractor, 1-Auditor's office, and 1-Highway Dept)

Justification:

Action Requested:

Resolution for Final Acceptance needed for contract.

For County Use Only			
Reviewed by:	<u> </u> County Auditor	<u> </u> County Attorney	<u> </u> Zoning Administrator
	<u> </u> Finance Director	<u> </u> County Engineer	<u> </u> Environmental Services
	<u> </u> IS Director	<u> </u> Other (Indicate dept)	<u> </u>
<u>Recommendation:</u>			
<u>Decision:</u>			

All agenda request forms must be submitted to the County Auditor by 4:00 p.m. on Monday in order to be considered for inclusion on the following week's agenda. The Board will review all requests and determine if the request will be heard at a County Board meeting.

HOUSTON COUNTY DEPARTMENT OF TRANSPORTATION



1124 East Washington St.
Caledonia, MN 55921

Project CP 2019-05 A - CP 2019-05 Aggregate Stockpiled (Delivered) Milestone
Final Payment No. 2

Contractor: Milestone Materials
4105 East River Road NE
Rochester, MN 55906

Contract No. 296
Vendor No. 918
For Period: 7/11/2019 - 7/12/2019
Warrant # _____ Date _____

Contract Amounts

Original Contract	\$21,448.00
Contract Changes	\$0.00
Revised Contract	\$21,448.00

Work Certified To Date

Base Bid Items	\$28,778.72
Backsheet	\$0.00
Change Order	\$0.00
Supplemental Agreement	\$0.00
Work Order	\$0.00
Material On Hand	\$0.00
Total	\$28,778.72

Funds Encumbered

Original	\$21,448.00
Additional	N/A
Total	\$21,448.00

	Work Certified This Payment	Work Certified To Date	Less Amount Retained	Less Previous Payments	Amount Paid This Payment	Total Amount Paid To Date
CP 2019-05 A	\$0.00	\$28,778.72	\$0.00	\$27,339.78	\$1,438.94	\$28,778.72
Percent Retained: 0.0000%						
Amount Paid This Final Payment					\$1,438.94	


I hereby certify that a Final Examination has been made of the noted Contract, that the Contract has been completed,
that the entire amount of Work Shown in this Final Voucher has been performed and the Total Value of the Work
Performed

in accordance with, and pursuant to, the terms of the Contract is as shown in this Final Voucher.

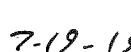
Approved By

Approved By Milestone Materials


County/City/Project Engineer


Contractor


Date


Date

HOUSTON COUNTY DEPARTMENT OF TRANSPORTATION

1124 East Washington St.
Caledonia, MN 55921
Project No. CP 2019-05 A
Final Payment No. 2

**Houston County DOT
Certificate of Final Contract Acceptance**

Low S.P. No.: CP 2019-05 A

Final Voucher No.: 2

Contract No.: 296

This is to certify that to the best of my knowledge, the items of work shown in the Statement of Work Certified herein have actually furnished in accordance with the Plans and Specifications. This Project has been completed in accordance with the Laws, Standards and Procedures of Minnesota as they apply to projects in this category, and if applicable, approved by the Federal Highway Administration.

Dated 7/26/19 Signature [Signature]
County/City/Project Engineer

The undersigned Contractor hereby certifies that the work described has been performed in accordance with the terms of the Contract, and agrees that the Final Value of Work Certified on this Contract is \$28,778.72 and agrees to the amount of \$1,438.94 as Final Payment on this Contract in accordance with this Final Voucher.

Contractor Milestone Materials By Will Mathy

And _____ And _____

State of Minnesota, Houston County DOT

On This 19 Day July, 2019, Before me appeared _____ To me known to

(Individual Acknowledgment)

be the person who executed the foregoing Acceptance and Acknowledged that he/she executed the same as _____ free to act and deed

(Corporate Acknowledgment)

And Will Mathy, to me personally known, who, being each by me duly sworn

each did say that they are respectively the _____ and Vice President of the

Milestone Materials Corporation named in the foregoing instrument, and that the seal affixed to said instrument is the

Corporate Seal of said Corporation, and the said instrument was signed and sealed in behalf of said Corporation by authority of its

_____ and said _____ and

acknowledged said instrument to be the free act and deed of said Corporation.

Notarial

My Commission as Notary Public in Lacrosse County

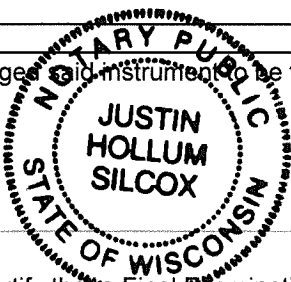
Seal

Expires

N/A

Signature

[Signature]



I hereby certify that a Final Examination has been made of the noted Contract, that the Contract has been completed, that the entire amount of Work Shown in this Final Voucher has been performed and the Total Value of the Work Performed in accordance with, the terms of the Contract is as shown in this Final Voucher.

This Contract is hereby accepted in accordance with the Specification 1516. Final acceptance of the Contract will be effective upon full Execution, by the Contractor and the Department, of the "Certificate of Final Acceptance" included

HOUSTON COUNTY DEPARTMENT OF TRANSPORTATION

1124 East Washington St.
Caledonia, MN 55921
Project No. CP 2019-05 A
Final Payment No. 2

with the Final Voucher.

Dated _____ Signature _____ District _____
Engineer

HOUSTON COUNTY DEPARTMENT OF TRANSPORTATION

1124 East Washington St.
Caledonia, MN 55921
Project No. CP 2019-05 A
Final Payment No. 2

**Houston County DOT
Certificate of Final Acceptance
County Board Acknowledgment**

Contract Number: 296
Contractor: 918 - Milestone Materials
Date Certified: 7/17/2019
Payment Number: 2

Whereas; Contract No. 296 has in all things been completed, and the County Board being fully advised in the premises, now then be it resolved; that we do hereby accept said completed project for and in behalf of the Houston County DOT and authorize final payment as specified herein.

Houston County DOT
State of Minnesota

I, _____, County _____ within and for said county do hereby certify that the foregoing resolution is a true and correct copy of the resolution on file in my office.

Dated this _____ day of _____, 20____

At _____, Minnesota

Signed By _____
County _____

(SEAL)

HOUSTON COUNTY DEPARTMENT OF TRANSPORTATION

1124 East Washington St.

Caledonia, MN 55921

Project No. CP 2019-05 A

Final Payment No. 2

CP 2019-05 A Payment Summary

No.	From Date	To Date	Work Certified Per Payment	Amount Retained Per Payment	Amount Paid Per Payment
1	04/24/2019	07/10/2019	\$28,778.72	\$1,438.94	\$27,339.78
2	07/11/2019	07/12/2019	\$0.00	(\$1,438.94)	\$1,438.94
Totals:			\$28,778.72	\$0.00	\$28,778.72

CP 2019-05 A Funding Category Report

Funding Category No.	Work Certified To Date	Less Amount Retained	Less Previous Payments	Amount Paid This Payment	Total Amount Paid To Date
000	28,778.72	0.00	27,339.78	1,438.94	28,778.72
Totals:	\$28,778.72	\$0.00	\$27,339.78	\$1,438.94	\$28,778.72

CP 2019-05 A Funding Source Report

Accounting No.	Funding Source	Amount Paid This Payment	Revised Contract Amount	Funds Encumbered To Date	Paid To Contractor To Date
030	County Levy	1,438.94	21,448.00	21,448.00	28,778.72
Totals:		\$1,438.94	\$21,448.00	\$21,448.00	\$28,778.72

HOUSTON COUNTY DEPARTMENT OF TRANSPORTATION

1124 East Washington St.

Caledonia, MN 55921

Project No. CP 2019-05 A

Final Payment No. 2

CP 2019-05 A Project Item Status

Line	Item	Description	Units	Unit Price	Contract Quantity	Quantity This Payment	Amount This Payment	Quantity To Date	Amount To Date
CSAH 24									
1	2221.509	STOCKPILE AGGREGATE, CLASS 5 (DELIVERED)	TONS	\$8.93	1600	0	\$0.00	2161.77	\$19,304.61
Totals For Section CSAH 24:							\$0.00		\$19,304.61
CSAH 32									
2	2221.509	STOCKPILE AGGREGATE, CLASS 5 (DELIVERED)	TONS	\$7.16	1000	0	\$0.00	1323.2	\$9,474.11
Totals For CSAH 32:							\$0.00		\$9,474.11
Project Totals:							\$0.00		\$28,778.72

Houston County

Agenda Request Form

This form is not intended for the general public. It is intended for use by county department heads, representatives of other governmental units or vendors/agencies who contract with Houston County. Members of the public may address the Board during the Public Comment Period. (See Policy for Public Comment Period).

Date Submitted: 31-Jul-19

Person requesting appointment with County Board: Aaron Lacher

Issue:

Approve 1 Conditional Use Permit: CUP to build a dwelling on less than 40 acres in an ag district for Robert and Heather Strand in Yucatan Township. (CUP was approved by the Planning Commission on July 25, 2019.)

Justification:

Action Requested:

Final Approval by the County Board. (Agenda, Hearing Notice, Findings and Staff Report are attached.)

For County Use Only			
<u>Reviewed by:</u>	_____ County Auditor	_____ County Attorney	_____ Zoning Administrator
	_____ Finance Director	_____ County Engineer	_____ Environmental Services
	_____ IS Director	_____ Other (indicate dept)	_____
<u>Recommendation:</u>			
<u>Decision:</u>			

All agenda request forms must be submitted to the County Auditor by 4:00 p.m. on Monday in order to be considered for inclusion on the following week's agenda. The Board will review all requests and determine if the request will be heard at a County Board meeting.



HOUSTON COUNTY ENVIRONMENTAL SERVICES

Solid Waste • Recycling • Zoning
304 South Marshall Street – Room 209, Caledonia, MN 55921
Phone: (507) 725-5800 • Fax: (507) 725-5590



STAFF REPORT 7/17/2019

Application Date: 3/6/2019
Hearing Date: 7/25/2019
Petitioner: Robert & Heather Strand
Reviewer: Aaron Lacher
Zoning: Ag Protection
Address: 801 3rd Ave NW Buffalo MN
Township: Yucatan
Parcel Number: 0170343003
Submitted Materials: CUP Application, Septic Design

OVERVIEW

REQUEST

A Conditional Use Permit for a Non-Farm Dwelling (14.3 (10)) is requested.

SUMMARY OF NOTEWORTHY TOPICS

Non-farm dwellings are subject to the following:

- (a) No more than one (1) dwelling per quarter-quarter section.
- (b) Non-farm dwellings built after the adoption of this Ordinance shall be setback at least one-fourth, (1/4), mile from all feedlots, except as otherwise provided in this Ordinance.
- (c) Non-farm dwelling units shall not be permitted on land which is of soil classifications of Class I-III soils rated in the Soil Survey - Houston County by the U. S. D. A. Natural Resource Conservation Service, except in cases where the land has not been used for the production of field crops or enrolled in a government program whereby compensation is received in exchange for the

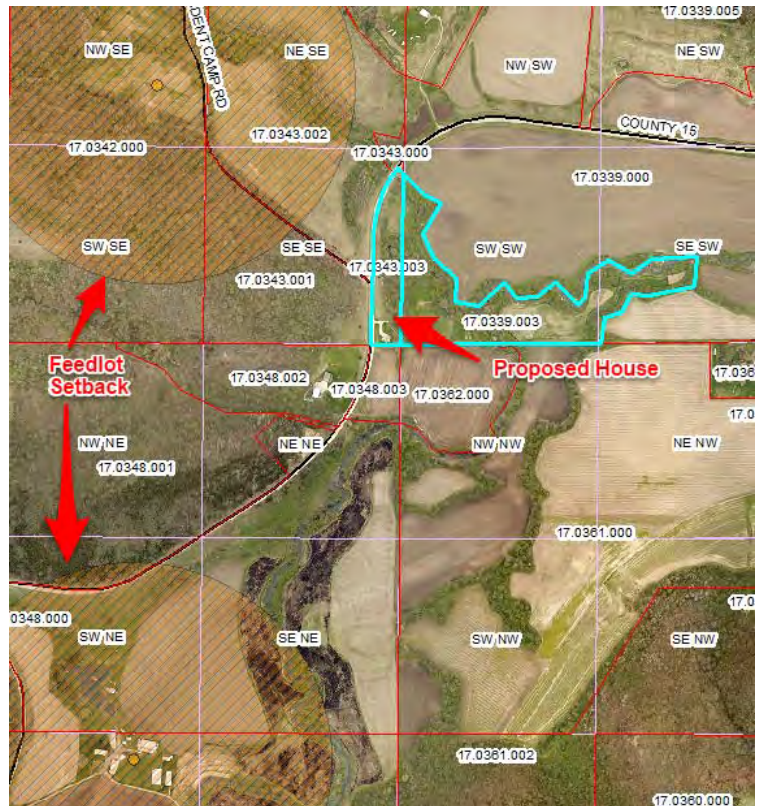


Figure 1 Feedlot Setbacks

removal of an area from production, for a period of ten years or more.

(d) Non-farm dwelling units shall only be permitted on sites considered Buildable

Lots as defined by this Ordinance, and shall not be permitted in areas classified wetlands, flood plain, peat and muck areas and other areas of poor drainage. Non-farm dwelling units shall not be permitted on land which has a slope of twenty-four (24) percent or greater. All non-farm dwellings must have an erosion control plan as required by Section 24.

(e) Non-farm dwelling units shall be required to be located on lots having ownership of at least thirty-three (33) feet of road frontage on a public roadway or a legally recorded perpetual access at least thirty-three (33) feet wide from an existing public roadway and a minimum lot area of one (1) acre.

The proposed location is within an open qtr qtr (no dwelling currently). Feedlots are located approximately 2,100' to the NW and 3,300' to the SW, beyond the require ¼ mile setback (Figure 1). The house is proposed on class VI soils which are not believed to have been in agricultural production previously. The minimum lot size in the ag district is one acre. The subject parcel is 4.6 acres, and there is contiguous 17

acre parcel owned by the applicants. A one acre building envelop was identify (Figure 2). Additionally, a second (replacement) septic location was identified. The parcel has 1,200' of frontage on County 15.



Figure 2 Building Envelope

A driveway and parking area are currently installed on the property, and an RV is currently kept on site.

TOWNSHIP AND NEIGHBORHOOD COMMENTS

Yucatan Township and the ten nearest property owners were notified. No comments or inquiries were received.

SITE CHARACTERISTICS

The property is located in the SE SE of 30-103-7. There are dwelling presently in this qtr qtr.

The subject parcel consists of a narrow strip atop a bank along a county highway. An addition parcel is owned to the east having a small field, creek, wetland, and wooded areas. The house is proposed atop the bank, which drops 26' at slopes ranging from 16-21% (Figure 3). These slopes are not considered to be a bluff as defined by ordinance.

Several water features are present on the parcels. Floodplains and wetlands boarder Girl Scout Camp Creek as it meanders into the South Fork of the Root River (Figure 4). The proposed house location is above the base flood elevation of 747', with the lowest adjacent grade estimated to be 770'. The house is proposed just outside of the Shoreland overlay district (i.e. 300' from ordinary high water mark).

Silt loam soils are present at the site. According to the soil survey, slopes represent the primary limitation to building, and buildings should be designed to conform to the natural slope of the land.



Figure 3 Slopes



Figure 4 Creek and Floodplain

EVALUATION

Section 11.05 of the Houston County Zoning Ordinance requires the following:

FINDINGS NOT APPLICABLE: 8, 9, 12, 14

Subdivision 1. Findings. The Planning Commission shall not recommend a conditional use permit unless they find the following:

1. That the proposed use conforms to the County Land Use Plan.

Staff Analysis: The proposal satisfies the all ordinance requirements applicable to non-farm dwellings.

2. That the applicant demonstrates a need for the proposed use.

Staff Analysis: The applicants have elected to live in Houston County and will require housing.

3. That the proposed use will not degrade the water quality of the County.

Staff Analysis: Wastewater is a potential pollutant associated with any dwelling. The applicants will install an onsite sewage treatment system meeting all applicable standards. No other impacts are anticipated.

4. That the proposed use will not adversely increase the quantity of water runoff.

Staff Analysis: An erosion control plan will be required with the application for a zoning permit, which will address post construction site drainage. The effects of increased runoff due to impervious surfaces (e.g. roof, driveway) are estimated to be negligible. The field downslope provides ample buffer and infiltration area between the house and the creek.

5. That soil conditions are adequate to accommodate the proposed use.

Staff Analysis: The soil survey indicates ground slope to be the primary challenge for construction at the location. The applicants proposed a walkout style structure, designed to complement the existing slopes.

6. That potential pollution hazards been addressed and that standards have been met.

Staff Analysis: Wastewater and erosion are two potential hazards. Both will be mitigated to an acceptable extent for the reasons stated in findings 3 and 4.

7. That adequate utilities, access roads, drainage and other necessary facilities have been or are being provided.

Staff Analysis: A septic design has been completed. A connection to the county road was approved in 2012 (DW2012-01). The placement of a house on the site is not thought to create drainage problems.

8. That adequate measures have been or will be taken to provide sufficient off-street parking and loading space to serve the proposed use.

Staff Analysis: NA

9. That facilities are provided to eliminate any traffic congestion or traffic hazard which may result from the proposed use.

Staff Analysis: NA

10. That the Conditional Use will not be injurious to the use and enjoyment of other property in the immediate vicinity for the purposes already permitted.

Staff Analysis: No impacts on permitted uses on neighboring properties are anticipated, and no comments were received from property owners on the application.

11. That the establishment of the Conditional Use will not impede the normal and orderly development and improvement of surrounding vacant property for predominant uses in the area.

Staff Analysis: Granting the permit will close the SE SE qtr qtr in due to the dwelling density policy. All remaining property in the SE SE is owned by the MNDNR, an entity whose predominant uses does not include dwellings.

12. That adequate measures have been or will be taken to prevent or control offensive odor, fumes, dust, noise and vibration, so that none of these will constitute a nuisance, and to control lighted signs and other lights in such a manner that no disturbance to neighboring properties will result.

Staff Analysis: NA

13. That the density of any proposed residential development is not greater than the density of the surrounding neighborhood or not greater than the density indicated by the applicable Zoning District.

Staff Analysis: The application conforms to the one dwelling per qtr qtr density limitation.

14. That the intensity of any proposed commercial or industrial development is not greater than the intensity of the surrounding uses or not greater than the intensity characteristic of the applicable Zoning District.

Staff Analysis: NA

15. That site specific conditions and such other conditions are established as required for the protection of the public's health, safety, morals, and general welfare.

Staff Analysis: The addition of a house is not anticipated to have any effect on the public's health, safety, morals, and general welfare.

RECOMMENDATION

The Planning Commission must consider the criteria above. Should the permit be granted, staff recommend requiring the following conditions:

1. The Permittee shall comply with all federal, state, and local laws and regulations.

Proposed Motion: Recommend approval of Conditional Use Permit for Non-farm dwelling, with one condition (above).

Aaron Lacher

From: Brian Pogodzinski
Sent: Thursday, June 27, 2019 2:16 PM
To: Aaron Lacher
Subject: RE: Conditional Use Notice for Public Meeting

Aaron,

I issued a driveway permit for residential usage to Mr. Strand in 2012. If you want to tie our permit from 2012 to the current application, our driveway permit number is DW2012-01. No modification or permit would be needed from me to convert from the current usage to the proposed.

Brian K. Pogodzinski, P.E.
Houston County Engineer

From: aaron.lacher@co.houston.mn.us <aaron.lacher@co.houston.mn.us>
Sent: Thursday, June 27, 2019 1:45 PM
To: Brian Pogodzinski <Brian.Pogodzinski@co.houston.mn.us>
Subject: Conditional Use Notice for Public Meeting

Notice of Public Hearing. A hearing on a Conditional Use request will be held at 7:00 PM on 7/25/2019 at the Houston County Courthouse.

Applicant: STRAND,ROBERT & HEATHER:
Parcel ID: 170343003
Request: Non Farm Dwelling Section 14.3 (10)

If you wish to provide comments regarding this request, please respond to this email.

Aaron Lacher

Number: [2019-CUP-47443](#)
Project: Conditional Use Request
Description: STRAND,ROBERT & HEATHER | 170343003 |
Created On: 6/24/2019

[View this application](#)

Aaron Lacher

From: Schnell, Tracy (DOT) <tracy.schnell@state.mn.us>
Sent: Tuesday, July 2, 2019 1:22 PM
To: Aaron Lacher
Cc: Lukes, Heather A (DOT); Schnell, Tracy (DOT)
Subject: 2019-CUP-47443

This proposal appears to have no significant impact on MnDOT roadways and is acceptable to MnDOT.

Applicant: STRAND, ROBERT & HEATHER:
Parcel ID: 170343003
Request: Non-Farm Dwelling Section 14.3 (10)

Thanks,

Tracy Schnell
Senior Planner | District 6

Minnesota Department of Transportation
2900 48th Street NW
Rochester, MN 55901
O: 507-286-7599
mndot.gov/



From: aaron.lacher@co.houston.mn.us [mailto:aaron.lacher@co.houston.mn.us]
Sent: Thursday, June 27, 2019 1:45 PM
To: Schnell, Tracy (DOT)
Subject: Conditional Use Notice for Public Meeting

Notice of Public Hearing. A hearing on a Conditional Use request will be held at 7:00 PM on 7/25/2019 at the Houston County Courthouse.

Applicant: STRAND, ROBERT & HEATHER:
Parcel ID: 170343003
Request: Non Farm Dwelling Section 14.3 (10)

If you wish to provide comments regarding this request, please respond to this email.

Aaron Lacher

Number: [2019-CUP-47443](#)
Project: Conditional Use Request
Description: STRAND,ROBERT & HEATHER | 170343003 |
Created On: 6/24/2019

[View this application](#)

Number 2019- CUP- 411	STRAND, ROBERT & HEATHER 170343003 Conditional Use Request Submitted by RStrand on 6/24/2019	
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CONDITIONAL USE INTRO [\[Edit\]](#) Last updated: 6/24/2019 12:51:09 PM and saved by: RStrand

A Conditional Use is a land use or development that would not be appropriate generally but may be allowed with appropriate restrictions as provided by official controls upon a finding that specific criteria are met, as outlined in Section 6.5 of the ordinance.

When submitting an application, the information requested in this form is required. You may be asked to provide additional information as deemed necessary by the Zoning Office, the Planning Commission, or the County Board.

A non-refundable application fee and recording fee are required before an application is considered complete.

Prior to completing this form, a pre-application meeting with County Zoning is strongly recommended.

Conditional Use Application **\$500.00**
Fee

Recording Fee **\$46.00**

Application Type:
Conditional Use

APPLICANT INFORMATION [\[Edit\]](#) Last updated: 6/24/2019 12:52:53 PM and saved by: RStrand

Applicant Name	STRAND,ROBERT & HEATHER
Telephone Number	763-355-4093
Address	801 3rd Ave NW
City	Buffalo
Zip	MN
Parcel Tax ID	170343003
Legal Description	Sect-30 Twp-103 Range-007 4.63 AC PT SE1/4 SE1/4 DOC 268325; DOC 281856; DOC 284700
Section-Township-Range	30-103-007
Do you own additional adjacent parcels	Yes

Township of:	Yucatan
--------------	----------------

Applicants are required to inform township boards of their application.

Please reference the table below and contact the official for your township.

I understand I am required to inform my township of my application. **Yes**

Township Contacts

CONDITIONAL USE REQUEST [\[Edit\]](#) Last updated: 6/24/2019 1:02:18 PM and saved by: RStrand

[Click here to view the Houston County Zoning Ordinance](#)

Describe in detail your request. **Non Farm Dwelling Section 14.3 (10)**

Citation of Ordinance
Section from which the
Conditional Use is
requested: **14.3 (10)**

Requested Dimension: **48 ft x 60 ft**

**Please upload any
supporting documents:**
There are no attached documents.

CONDITIONAL USE FINDING OF FACTS [Edit] Last updated: 6/24/2019 2:02:36 PM and
saved by: RStrand

[Click here to view the
Houston County Zoning
Ordinance](#)

Findings Required:

**1. That the proposed
use conforms to the
County Land Use Plan.** **Yes**

Comments: **Worked with the county zoning to make sure the proposed
follows section 14.3(10) in the Houston County Zoning
Ordinance.**

**2. That the applicant
demonstrates a need for
the proposed use.** **Yes**

Comments: **Wife got a teaching job in Spring Grove and would like to
build on proposed site.**

**3. That the proposed
use will not degrade the
water quality of the
County.** **Yes**

Comments: **Working with Septic designer to come up with a septic
system that will preserve water quality. Installing a silt
fence to keep runoff to a minimum while the proposed is
being built.**

**4. That the proposed
use will not adversely** **Yes**

increase the quantity of water runoff.

Comments:

Selected a proposed site that is on flat ground and preserving as many trees as possible to keep the water run off down. Installing a silt fence to keep the run off to a minimum while the proposed is being built.

5. That soil conditions are adequate to accommodate the proposed use.

Yes

Comments:

Minimum lot size of one acre was met for buildable.

6. That potential pollution hazards have been addressed and standards have been met.

Yes

Comments:

Working with a septic designer to design a septic system. Installing a silt fence to keep runoff to a minimum while proposed is being built.

7. That adequate utilities, access roads, drainage and other necessary facilities have been or are being provided.

Yes

Comments:

Electrical power, driveway and parking pad are all ready in place. They were installed for the camper we have parked on site.

8. That adequate measures have been or will be taken to provide sufficient off-street parking and loading space to serve the proposed use.

Yes

Comments:

We have a large parking pad and driveway. All construction materials could be stored on site and off the roads.

9. That adequate facilities are provided to eliminate any traffic congestion or traffic hazard which may result from the proposed use.

Yes

Comments: **Large parking pad and driveway.**

No

10. That the conditional use will not be injurious to the use and enjoyment of other property in the immediate vicinity for the purposes already permitted.

Comments: **Proposed is a single story home placed on the property will it will not obstruct the neighbors views.**

No

11. That the establishment of the Conditional Use will not impede the normal and orderly development and improvement of surrounding vacant property for predominant uses in the area.

Comments: **Proposed construction should not impede any other vacant properties.**

Yes

12. That adequate measures have been or will be taken to prevent or control offensive odor, fumes, dust, noise and vibration, so that none of these will constitute a nuisance, and to control lighted signs and other lights in such a manner that no disturbance to neighboring properties will result.

Comments: **Proposed will be single family with very little disturbance to neighboring properties.**

Yes

13. That the density of any proposed residential development is not greater than the intensity of the surrounding uses or not greater than the intensity characteristic of the applicable zoning district

Comments: **Proposed is the only single family dwelling on the quarter-quarter section.**

Yes

14. That the density of any proposed commercial or industrial development is not greater than the intensity of the surrounding uses or not greater than the intensity characteristic of the applicable zoning district.

Comments: **Proposed is the only single family dwelling on the quarter-quarter section.**

Yes

15. That site specific conditions and such other conditions are established as required for the protection of the public's health, safety, morals, and general welfare.

Comments: **Worked with the county zoning to make sure the proposed follows section 14.3(10) in the Houston County Zoning Ordinance. Also drive way was installed to Houston County codes to make sure visibility was good in both directions of the roadway.**

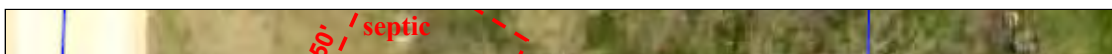
SITE PLAN INFORMATION [Edit] Last updated: 6/24/2019 2:34:32 PM and saved by: RStrand

A site plan MUST accompany all Applications. You can either hand draw your site plan and submit it via scanning and attaching the document, or by drawing said building structure on the map below.

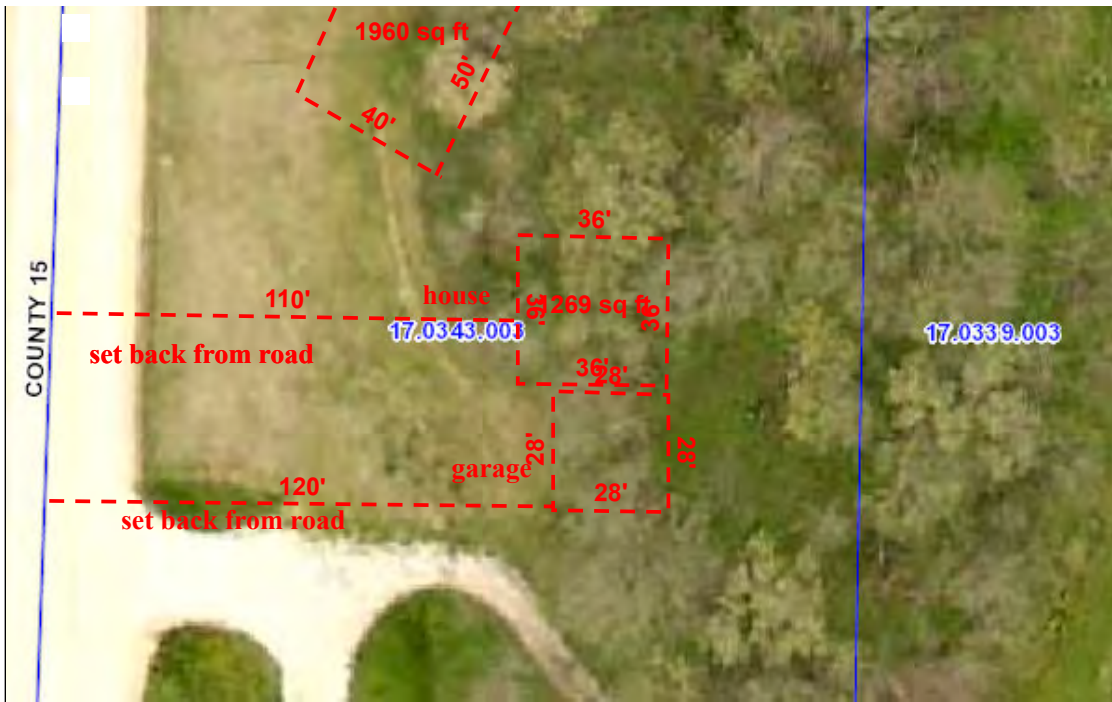
Upload Site Plan

There are no attached documents.

Use Interactive Map to Create Site Plan



Layer List:



- ☒ Septic Permit
- ☒ Corporate Limits
- ☒ Political Townships
- ☐ Subdivisions
- ☐ Blocks
- ☐ Lot Boundaries
- ☒ Parcels
- ☒ Roads
- ☐ Streams
- ☒ 2017 Imagery

APPLICATION SUBMITTAL [\[Edit\]](#) Last updated: 6/24/2019 2:38:27 PM and saved by: RStrand

By checking this box, I **Yes**
grant Houston County
access to my property for
the purpose of evaluating
this application.

By checking this box, I **Yes**
certified that I have notified
my town board of my
application.

By checking this box, I **Yes**
certify that the information
provided in this application
is true and accurate to the
best of my knowledge.

Signature

Randy Strand

Date Signed:
06/24/2019

Check this box if Staff **No**
Signature on behalf of
Applicant.

APP SUBMITTED/PAYMENT SELECTION

Last updated: 6/26/2019 9:59:56 AM and saved by: Holly Felten

Fee amount paid: **\$546**

YUCATAN TOWNSHIP REVIEW

[Edit] Last updated: 6/26/2019 10:00:06 AM and saved by: Holly Felten

Notice to Township

Date email sent:
06/26/2019

DATES

[Edit] Last updated: 6/27/2019 2:45:12 PM and saved by: Holly Felten

Application Date **6/24/2019**

Advertising Date **7/10/2019**

Planning Commission Meeting Date **7/25/2019**

Meeting Time **7:00 PM**

County Board Meeting Date **8/13/2019**

Comments

HOUSTON COUNTY ZONING DEPARTMENT

304 S. MARSHALL ST. - ROOM 202, CALEDONIA, MN 55921
(507) 725-5800 - Phone (507) 725-5590 - Fax

DATE SUBMITTED _____

PARCEL # 17.0343.003

RECEIPT# _____

PERMIT # _____

FEE \$ _____

Phone # 763-355-4093

APPLICATION TO CONSTRUCT AN INDIVIDUAL SEWAGE TREATMENT SYSTEM IN ACCORDANCE WITH STATE OF MINNESOTA RULES & HOUSTON COUNTY ZONING ORDINANCE

LOCATION:

PROPERTY OWNER

ROBERT + HEATHER STRAND

Address 23049 COUNTY RD 15 HOUSTON, MN

INSTALLER

Address _____

License # _____

DESIGNER

CHANCE NELSON

Phone # _____

Address 9211 Co 10 HOUSTON, MN

License # 3647

SOIL TESTER

Address X

Phone # 507-259-9940

License # _____

Phone # _____

LEGAL DESCRIPTION: Lot(s), Blocks, Subdivision Name

Section _____ Township _____ Range _____ Qtr./Qtr. _____

TYPE OF BUILDING SERVED AND WATER USE: Type: I ☒ II ☐ III ☐ IV ☐

If single residence, how many bedrooms? 2 bathrooms? 2 garbage disposal? — hot tub? —

Other water devices? _____

If other than single residence, describe the use of building - What is the maximum sewage flow per day? 300

PURPOSE OF APPLICATION: (Check only one) New system ☒ Replacement system _____ Replacement of Septic Tank Only _____ Reconnection of Existing System _____ Repair of an Existing System _____

TANK INFORMATION:	Capacity in Gallons		# Tanks	Total Gallons	Prefab/Concrete	Plastic	1 st Comp/Gallons	2 nd Comp/Gallons	Pump Tank	Manuf.
	NEW	EXISTING								
Septic Tank	X		1	2250	CONCRETE		882	628	781	AL'S
Holding Tank										

Is a pumping station and pump going to be used? YES ☒ NO ☐

(If the answer is YES, please provide complete specification for pumps and controls - dose volume, elevation differences, friction loss, pump performance curve, pump model and pump manufacturer) _____

Will an alarm system be installed? YES ☒ NO ☐

(If the answer is YES, please describe) _____

SOIL TREATMENT SYSTEM INFORMATION: Trench ☐ Mound ☒ Bed ☐ Graveless Pipe ☐ At-Grade ☐ (Attach design specs)

Number of laterals	Dimensions of each lateral	Square footage of system	Depth into soil	Soil sizing factor	Inches of stone under pipe
3	2" x 30'	2280	12" LIFT	0.45	6"

Drainfield to be covered with geotextile fabric? X

WELL INFORMATION:

Well Type: Dug Well _____ Drilled Well _____
Well Depth _____ Drivepoint/sandpoint _____ Casing Depth _____ Casing Diameter _____ Other _____

NOT YET DRILLED

TO THE APPLICANT:

1. Complete application plans and specifications, as described below, must be submitted before application will be processed.
2. This sanitary permit is valid for (1) year.
3. Your sanitary permit may be renewed before the expiration date and at the time of renewal any new criteria in the Houston County Zoning Ordinance or State of Minnesota Rules will be applicable.
4. All revisions to this permit must be approved by the Houston County Zoning Department. A new permit may be needed if there is a change in your building plans, system location, estimated wastewater flow (number of bedrooms, etc.) depth of system, or type of system.
5. Private sewage systems must be properly maintained. The septic tank(s) should be pumped by a licensed pumper whenever necessary, usually every 2 to 3 years;
6. If you have questions concerning your private sewage system, contact the Houston County Zoning Department.

*MINIMUM SEPARATION OR "ISOLATION" DISTANCES
BETWEEN BUILDINGS, PROPERTY LINES AND SEPTIC
TANK/DRAINFIELDS*

TO BE COMPLETE AND ACCURATE, THE SEWAGE TREATMENT SYSTEM PERMIT APPLICATION MUST INCLUDE:

- A. **LOCATION:** Provide name and mailing address from property owner, installer, designer and soil tester.
- B. **LEGAL DESCRIPTION:** Provide the legal description where the system is to be installed.
- C. **TYPE OF BUILDING SERVED AND WATER USE:** If other than single residence, indicate type of use (i.e. 10 unit apartment, 30 seat restaurant, etc.). Fill in number of bedrooms if building is one or two family dwelling.
- D. **PURPOSE OF APPLICATION:** Check only one.
- E. **TANK INFORMATION:** Fill in the capacity of every new and or existing tank, list the total gallons to be installed, number of tanks and manufacturer's name. Indicate prefab or site constructed and tank material. Complete for all septic tanks, holding tanks and pumping stations for this system. If alarm system is needed, give name of manufacturer.
- F. **SOIL TREATMENT SYSTEM INFORMATION:** Must provide all information requested. (Soil treatment system type, number of laterals proposed, length and width of laterals proposed, depth of system, amount of filter rock under distribution pipe, type of cover over system.)

HOUSTON COUNTY ZONING DEPARTMENT
COURTHOUSE – 304 S. MARSHALL ST. – ROOM 202, CALEDONIA, MN 55921
(507) 725-5800 – Phone (507) 725-5590 – Fax

Site Evaluation Report

Chapter 7080.0110 requires that a preliminary and field evaluation shall be conducted for all proposed sites for individual sewage treatment systems. This information must be conducted by a licensed site Designer with no soils restrictions. Much of the following information may be indicated on the required site plan also.

Preliminary evaluation:

- *Flow determination for the dwelling or other establishment 300 GPD gpm.
- *Any water supply wells (proposed or existing) within 50 feet of proposed system. Yes ☒ No
- *Existing and proposed buildings on lot.
- *Existing and proposed buried water lines within 50 feet of proposed system. Yes ☒ No
- *Easements on the lot. Yes ☒ No
- *High water levels.
- *Designated Floodplain areas ☒ Yes No
- *Property lines.
- *All required setbacks from the system.
- *The soil map unit _____. Applicable soil characteristics _____ and soil suitability as determined by the soil survey report.
- *Legal description and lot dimensions _____.
- *Name of property owners ROBERT + HEATHER STRAND

Field evaluation:

- *Percent slope 13%
- *Vegetation type WOODS
- *Any evidence of disturbed or compacted area Yes ☒ No Evidence of flooding Yes ☒ No
- *Landscape position BACK / SIDE SLOPE

*Soil observation (borings) and soil description. (Please be as detailed as possible).

Soil work being conducted by whom: CHANCE NELSON / AARON LACHER

Type of Auger used: BUCKET AUGER

Depth, Boring # _____
in
feet
0-----

1 --

2 --

3 --

4 --

5 --

6 --

7 --

8 --

Depth, Boring # _____
in
feet
0-----

1 --

2 --

3 --

4 --

5 --

6 --

7 --

8 --

SEE
ATTACHED
SOILS

End of boring at _____ feet
Standing water table:
Present at _____ feet of depth,
_____ hours after boring.
Not present in boring hole _____.

Mottled soil:
Observed at _____ feet of depth.
Not present in boring hole _____.

End of boring at _____ feet
Standing water table:
Present at _____ feet of depth,
_____ hours after boring.
Not present in boring hole _____.

Mottled soil:
Observed at _____ feet of depth.
Not present in boring hole _____.

Septic Design outline for
Robert and Heather Strand
23049 County Rd 15
Houston, MN 55943
PIN# 17.0343.003

- Type

This is a 2 bedroom home with Type I classification (300 GPD).

- Tank

An AI's 2250 SSP will be set. 2250 SSP (882 septic / 628 septic / 781 pump). This tank will have an approximate bury depth of 3'. It will have a Polylok 525 effluent filter installed in the second compartment.

Tank should be insulated with 2" high density foam if less than 2' bury depth.

Tank should be bedded in a material that pass through a 2" screen or per manufactures installation guidelines.

- Absorption Area

This will be a pressurized mound with a 9' x 30' bed. The bed can be either rock or EZ Flo. System will be placed in the woods. Any trees should be cut flush to the ground. Any disturbance to remove the trees from proposed area should be done with a tracked machine during dry conditions.

If washed rock diffuser shields should be used.

Recommended Totals

11 yds. Washed rock
84 yds. Clean Sand
112 yds. Sandy berm
70 yds. Dirt

*additional dirt may be needed to blend contours and for final landscaping.

System should be seeded and mulched immediately after final grading is completed.

- Pumps and Controls

The pump shall meet the requirements of the designer.

System will utilize time dosing. Dosing shall not exceed 300 GPD.

The controls shall have alarm for high water levels.

The controls shall contain event counters to monitor flows.



Overview



Legend

- Corporate Limits
- Political Township
- Parcels
- Roads

Date created: 6/25/2019
Last Data Uploaded: 6/24/2019 11:15:07 PM

Developed by  **Schneider**
GEOSPATIAL

~~NO~~ NO WELL CURRENTLY
TANK PLACEMENT SUBJECT TO CHANGE

Preliminary Evaluation Worksheet

1. Contact Information

v 04.02.2019

Property Owner/Client: Robert Strand Date Completed: 6/4/2019

Site Address: 23049 County Rd 15 Houston, MN 55943 Project ID:

Email: duckrjs@charter.net Phone: 763-355-4093

Mailing Address: 801 3rd Ave NW Buffalo, MN 55313

Legal Description:

Parcel ID: 17.0343.003 TWP: SEC: RNG:

2. Flow and General System Information

A. Client-Provided Information

Project Type: ☒ New Construction ☐ Replacement ☐ Expansion ☐ Repair

Project Use: ☒ Residential ☐ Other Establishment:

Residential use: # Bedrooms: 2 Dwelling Sq.ft.: Unfinished Sq. Ft.:

Adults: 2 # Children: # Teenagers:

In-home business (Y/N): No If yes, describe:

Water-using devices: (check all that apply)

<input type="checkbox"/> Garbage Disposal/Grinder	<input checked="" type="checkbox"/> Dishwasher	<input type="checkbox"/> Hot Tub*
<input type="checkbox"/> Sewage pump in basement	<input checked="" type="checkbox"/> Water Softener*	<input type="checkbox"/> Sump Pump*
<input checked="" type="checkbox"/> Large Bathtub >40 gallons	<input type="checkbox"/> Iron Filter*	<input type="checkbox"/> Self-Cleaning Humidifier*
<input checked="" type="checkbox"/> Clothes Washing Machine	<input checked="" type="checkbox"/> High Eff. Furnace*	<input type="checkbox"/> Other:

* Clear water source - should not go into system

Additional current or future uses:

Anticipated non-domestic waste:

The above is complete & accurate: See attached homeowner survey

Client signature & date

B. Designer-determined flow Information Attach additional information as necessary.

Design Flow: 300 GPD Anticipated Waste Type: Residential

BOD: 170 mg/L TSS: 60 mg/L Oil & Grease: 25 mg/L

#	Description	Mn. ID#	Well Depth (ft.)	Casing Depth (ft.)	Confining Layer	STA Setback	Source
1	Not yet drilled			> 50		> 50	
2							
3							
4							

Additional Well Information:

Preliminary Evaluation Worksheet

Site within 200' of noncommunity transient well (Y/N)	<input type="text" value="No"/>	Yes, source: <input type="text"/>
Site within a drinking water supply management area (Y/N)	<input type="text" value="No"/>	Yes, source: <input type="text"/>
Site in a Well Head Protection inner wellhead management zone (Y/N)	<input type="text" value="No"/>	Yes, source: <input type="text"/>
Buried water supply pipes within 50 ft of proposed system (Y/N)	<input type="text" value="No"/>	
B. Site located in a shoreland district/area?	<input type="text" value="Yes"/>	Yes, name: <input type="text"/>
Elevation of ordinary high water level:	<input type="text"/> ft	Source: <input type="text"/>
Classification: <input type="text"/>	Tank Setback: <input type="text"/> ft.	STA Setbk: <input type="text"/> ft.
C. Site located in a floodplain?	<input type="text" value="No"/>	Yes, Type(s): <input type="text"/>
Floodplain designation/elevation (10 Year):	<input type="text"/> ft	Source: <input type="text"/>
Floodplain designation/elevation (100 Year):	<input type="text"/> ft	Source: <input type="text"/>
D. Property Line Id / Source:	<input type="checkbox"/> Owner <input type="checkbox"/> Survey <input type="checkbox"/> County GIS <input type="checkbox"/> Plat Map <input checked="" type="checkbox"/> Other:	<input type="text" value="Beacon"/>
E. ID distance of relevant setbacks on map:	<input type="checkbox"/> Water <input type="checkbox"/> Easements <input type="checkbox"/> Well(s) <input type="checkbox"/> Building(s) <input type="checkbox"/> Property Lines <input type="checkbox"/> OHWL <input type="checkbox"/> Other:	<input type="text"/>

4. Preliminary Soil Profile Information From Web Soil Survey (attach map & description)

Map Units:	<input type="text" value="322TE / 388D2 / 455B2"/>	Slope Range:	<input type="text" value="1 to 45"/> %
List landforms:	<input type="text" value="Terraces / Valley Sides"/>		
Landform position(s):	<input type="text" value="Riser / Tread / Footslope"/>		
Parent materials:	<input type="text" value="Alluvium / Loess"/>		
Depth to Bedrock/Restrictive Feature:	<input type="text" value="> 80"/> in	Depth to Watertable:	<input type="text" value="> 80"/> in
Map Unit Ratings	Septic Tank Absorption Field- At-grade:	<input type="text" value="Extreme / Moderate / Not limited"/>	
	Septic Tank Absorption Field- Mound:	<input type="text" value="Extreme / Extreme / Slight"/>	
	Septic Tank Absorption Field- Trench:	<input type="text" value="Extreme / Moderate / Not limited"/>	

5. Local Government Unit Information

Name of LGU:	<input type="text" value="Houston County Zoning"/>
LGU Contact:	<input type="text" value="507-725-5800"/>
LGU-specific setbacks:	<input type="text" value="MN Rules Chapters 7080 - 7083"/>
LGU-specific design requirements:	<input type="text" value="MN Rules Chapters 7080 - 7083"/>
LGU-specific installation requirements:	<input type="text" value="MN Rules Chapters 7080 - 7083"/>
Notes:	<input type="text"/>

Homeowner Survey

- 1) Name Robert Strand
2) Phone 763-355-4093
3) Email Duckrjs@charter.net
4) Site Address 23049 County Road 15 Houston, MN
5) Mailing Address 801 3rd Ave N.W. Buffalo, MN 55313
6) County Houston
7) Township Yucatan
8) Parcel ID 170343003
9) Number of Bedrooms 2
10) Number of Occupants 2 adults _____ 12-18 _____ 0-11

Water using devices in home

- | | | | |
|------------------|---|-----------------------------|---|
| Garbage Disposal | <input checked="" type="radio"/> yes / <input type="radio"/> no | Discharges to septic system | yes / <input type="radio"/> no |
| Dishwasher | <input checked="" type="radio"/> yes / <input type="radio"/> no | Discharges to septic system | <input checked="" type="radio"/> yes / <input type="radio"/> no |
| Large Bathtub | <input checked="" type="radio"/> yes / <input type="radio"/> no | Discharges to septic system | <input checked="" type="radio"/> yes / <input type="radio"/> no |
| Clothes Washer | <input checked="" type="radio"/> yes / <input type="radio"/> no | Discharges to septic system | <input checked="" type="radio"/> yes / <input type="radio"/> no |

1) Loads Per Week 3

Clear water sources that should NOT go into the septic system

- | | | | |
|-----------------------------|---|-----------------------------|--------------------------------|
| Iron Filter | yes / <input type="radio"/> no | Discharges to septic system | yes / <input type="radio"/> no |
| Water Softener | <input checked="" type="radio"/> yes / <input type="radio"/> no | Discharges to septic system | yes / <input type="radio"/> no |
| High Efficiency Furnace | <input checked="" type="radio"/> yes / <input type="radio"/> no | Discharges to septic system | yes / <input type="radio"/> no |
| Sump Pump or Basin | yes / <input type="radio"/> no | Discharges to septic system | yes / <input type="radio"/> no |
| Hot tub | yes / <input type="radio"/> no | Discharges to septic system | yes / <input type="radio"/> no |
| Water Treatment | yes / <input type="radio"/> no | Discharges to septic system | yes / <input type="radio"/> no |
| Floor, Roof, Footing Drains | <input checked="" type="radio"/> yes / <input type="radio"/> no | Discharges to septic system | yes / <input type="radio"/> no |

Cleaning products, long term prescription drugs, anti-bacterial soaps:

NONE

If existing home:

Number of septic tanks 0 Capacity in gallons _____

Last time pumped _____ whom completed service

Have tanks ever frozen or failed yes / no

Any alarms or screens yes / no

Well Depth _____ feet

Well Casing Depth _____ feet

Type of Current System _____

Are property lines established yes/no

If no who will establish property lines? _____

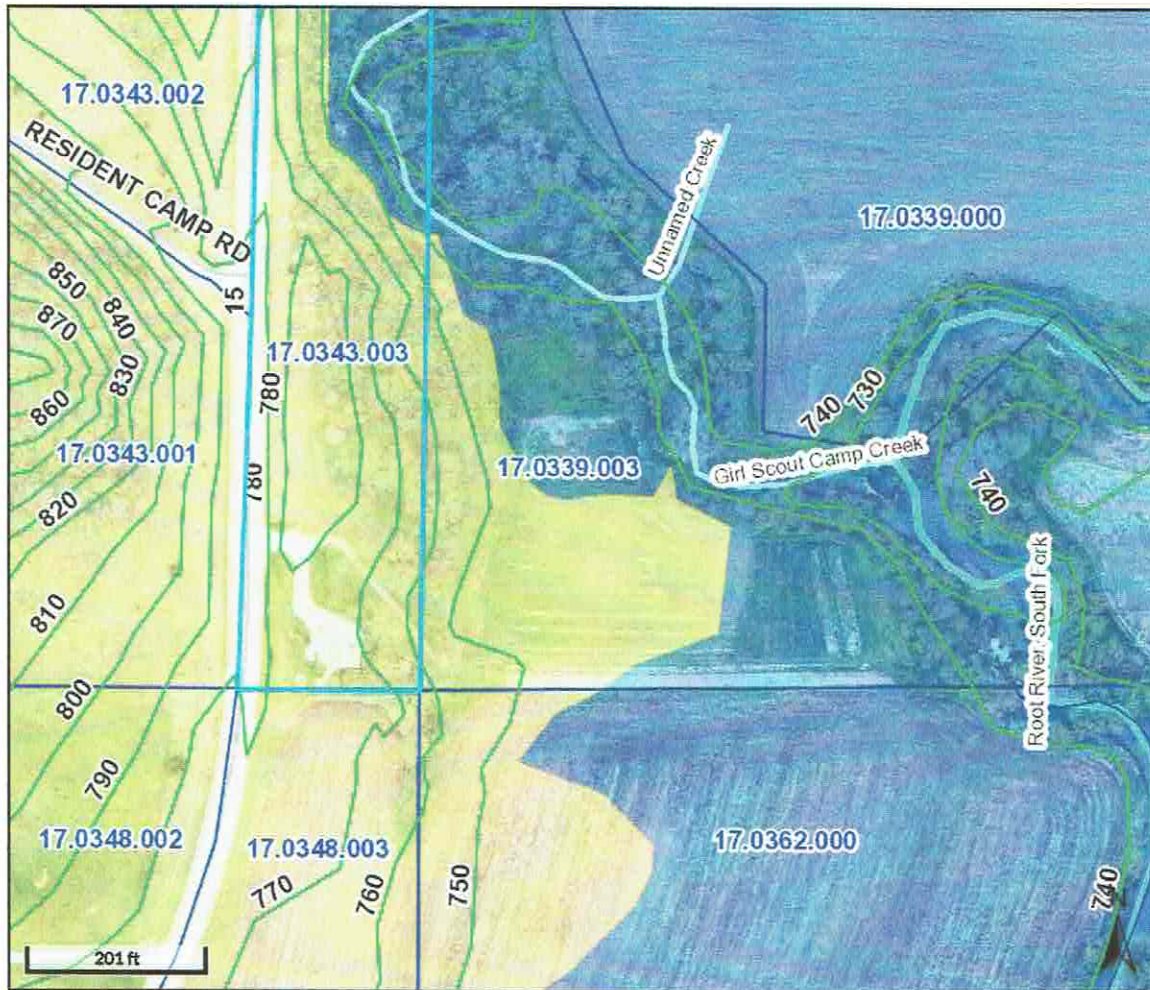
Homeowner Printed Name: Robert Strand

Homeowner Signature: Robert Strand Date: 6-1-2019



Beacon™

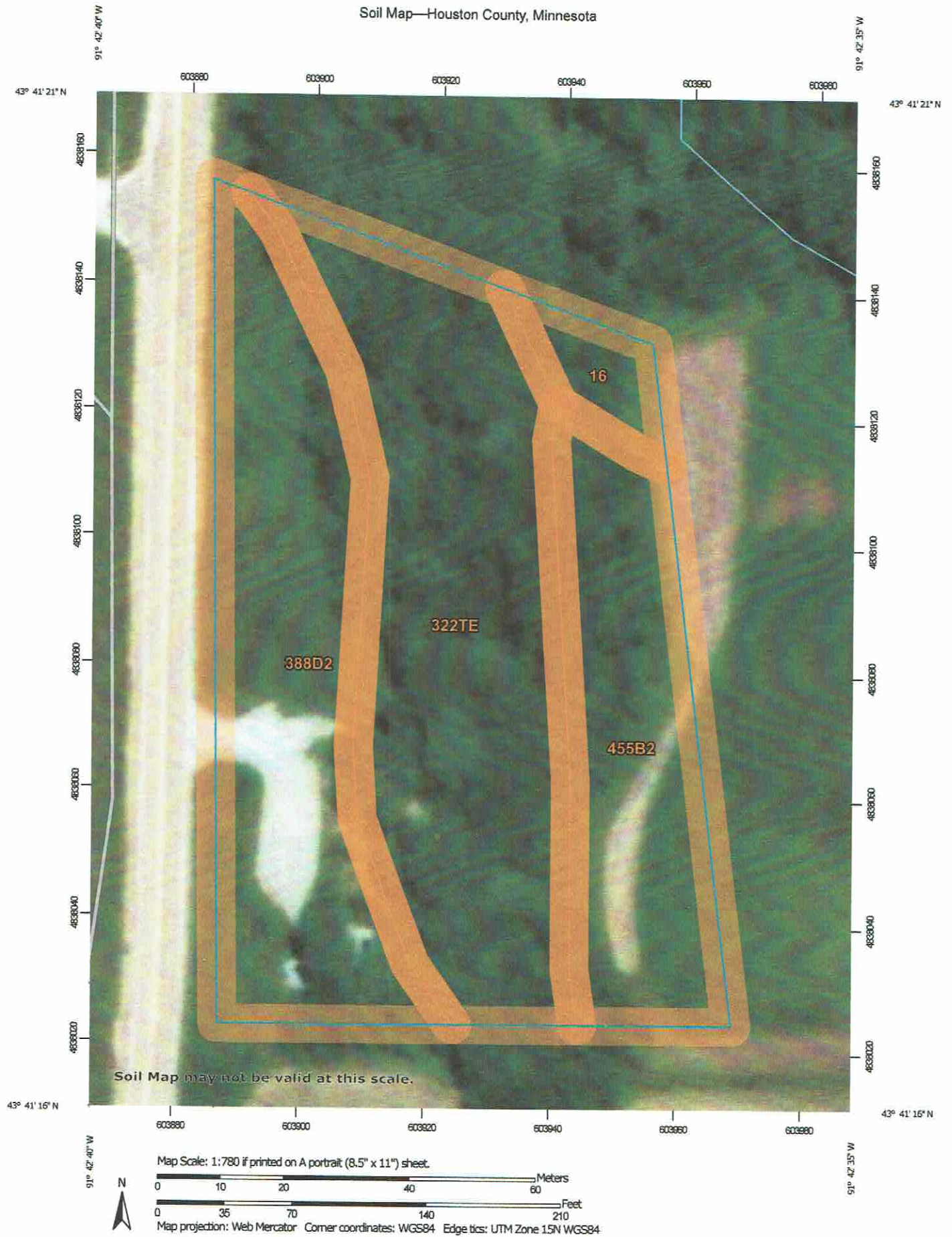
Houston County, MN



Overview



Soil Map—Houston County, Minnesota



Houston County, Minnesota

322TE—Plumcreek silt loam, 20 to 45 percent slopes

Map Unit Setting

National map unit symbol: 2xpm2
Elevation: 560 to 1,740 feet
Mean annual precipitation: 31 to 39 inches
Mean annual air temperature: 41 to 50 degrees F
Frost-free period: 120 to 190 days
Farmland classification: Not prime farmland

Map Unit Composition

Plumcreek and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Plumcreek

Setting

Landform: Terraces
Landform position (three-dimensional): Riser
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Silty and loamy alluvium over stratified sandy and silty alluvium

Typical profile

Ap - 0 to 9 inches: silt loam
Bt - 9 to 28 inches: silt loam
2Bt - 28 to 36 inches: silt loam
2C - 36 to 79 inches: silt loam

TRENCH - EXTREME (SLOPE / SATURATION)
AT GRADE - EXTREME (SLOPE)
MOUND - EXTREME (SLOPE)

Properties and qualities

Slope: 20 to 45 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat):
Moderately low to moderately high (0.14 to 1.42 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: High (about 9.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Forage suitability group: High AWC, adequately drained with limitations (G105XY009WI)
Hydric soil rating: No

Minor Components

Ella, moderately eroded

Percent of map unit: 5 percent

Landform: Terraces

Landform position (three-dimensional): Tread

Down-slope shape: Concave

Across-slope shape: Linear

Hydric soil rating: No

Festina, moderately eroded

Percent of map unit: 5 percent

Landform: Terraces

Landform position (three-dimensional): Tread

Down-slope shape: Linear

Across-slope shape: Linear

Hydric soil rating: No

Data Source Information

Soil Survey Area: Houston County, Minnesota

Survey Area Data: Version 13, Sep 12, 2018

Houston County, Minnesota

388D2—Churchtown silt loam, 12 to 20 percent slopes, moderately eroded

Map Unit Setting

National map unit symbol: 2v3fq
Elevation: 800 to 1,400 feet
Mean annual precipitation: 31 to 39 inches
Mean annual air temperature: 41 to 50 degrees F
Frost-free period: 120 to 190 days
Farmland classification: Not prime farmland

Map Unit Composition

Churchtown and similar soils: 92 percent
Minor components: 8 percent
Estimates are based on observations, descriptions, and transects of
the mapunit.

Description of Churchtown

Setting

Landform: Valley sides
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Loamy slope alluvium over loess

Typical profile

Ap - 0 to 9 inches: silt loam
Bt - 9 to 30 inches: silt loam
2Bt - 30 to 60 inches: silt loam
2BC - 60 to 79 inches: silt loam

TRENCH - MODERATE (SLOPE)
AT GRADE - MODERATE (SLOPE)
MOUND - EXTREME (SLOPE / FLOODING)

Properties and qualities

Slope: 12 to 20 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat):
Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 5 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0
to 2.0 mmhos/cm)
Available water storage in profile: Very high (about 12.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: B
Forage suitability group: High AWC, adequately drained
(G105XY008WI)
Hydric soil rating: No

Minor Components

La farge

Percent of map unit: 4 percent
Landform: Valley sides
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: No

Beavercreek

Percent of map unit: 2 percent
Landform: Valley sides
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: No

Brownchurch

Percent of map unit: 2 percent
Landform: Valley sides
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: No

Data Source Information

Soil Survey Area: Houston County, Minnesota
Survey Area Data: Version 13, Sep 12, 2018

Houston County, Minnesota

455B2—Festina silt loam, 1 to 6 percent slopes, moderately eroded

Map Unit Setting

National map unit symbol: 2xpm4
Elevation: 560 to 1,740 feet
Mean annual precipitation: 31 to 39 inches
Mean annual air temperature: 41 to 50 degrees F
Frost-free period: 120 to 190 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Festina, moderately eroded, and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Festina, Moderately Eroded

Setting

Landform: Terraces
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Silty alluvium over stratified sandy and silty alluvium

Typical profile

Ap - 0 to 9 inches: silt loam
BE - 9 to 11 inches: silt loam
Bt1 - 11 to 32 inches: silt loam
Bt2 - 32 to 65 inches: silt loam
BC - 65 to 68 inches: silt loam
2C - 68 to 79 inches: silt loam

TRENCH - NOT LIMITED

AT-GRADE - NOT LIMITED

MOUND - SLIGHT (SLOPE)

Properties and qualities

Slope: 1 to 6 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat):
Moderately low to moderately high (0.14 to 1.42 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Very high (about 12.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: B

Forage suitability group: High AWC, adequately drained
(G105XY008WI)

Hydric soil rating: No

Minor Components

Plumcreek, moderately eroded

Percent of map unit: 5 percent

Landform: Terraces

Landform position (three-dimensional): Riser

Down-slope shape: Linear

Across-slope shape: Linear

Hydric soil rating: No

Ella, moderately eroded

Percent of map unit: 5 percent

Landform: Terraces

Landform position (three-dimensional): Tread

Down-slope shape: Concave

Across-slope shape: Linear

Hydric soil rating: No

Data Source Information

Soil Survey Area: Houston County, Minnesota

Survey Area Data: Version 13, Sep 12, 2018

Field Evaluation Worksheet

1. Project Information

v 04.02.2019

Property Owner/Client: Robert Strand

Project ID:

Site Address: 23049 County Rd 15 Houston, MN 55943

Date Completed: 6/5/2019

2. Utility and Structure Information

Utility Locations Identified ☐ Gopher State One Call #

☐ Any Private Utilities:

Locate and Verify (see Site Evaluation map)

☐ Existing Buildings

☐ Improvements

☐ Easements

☐ Setbacks

3. Site Information

Vegetation type(s): Forest

Landscape position: Back/ Side Slope

Percent slope: 14 %

Slope shape: Linear, Convex

Slope direction: East

Describe the flooding or run-on potential of site: No flooding / Minimal Run-on

Describe the need for Type III or Type IV system:

Note:

Elevations and Benchmarks identified on map? (Y/N): Yes

If yes, describe: See Summary

Proposed soil treatment area protected? (Y/N): Yes

If yes, describe: Flags

4. General Soils Information

Filled, Compacted, Disturbed areas (Y/N): No

If yes, describe:

Soil observations were conducted in the proposed system location (Y/N): Yes

A soil observation in the most limiting area of the proposed system (Y/N): Yes

Number of soil observations: 3

Soil observation logs attached (Y/N): Yes

Percolation tests performed & attached (Y/N): No

5. Phase I. Reporting Information

	Depth	Elevation
Periodically saturated soil:	26 in	See attached soil ft
Standing water:	> 40 in	See attached soil ft
Bedrock:	> 40 in	See attached soil ft
Benchmark:		100 ft

Soil Texture: silty clay loam

Percolation Rate: N/A min/inch

Soil Hyd Loading Rate: 0.45 gpd/ft²

Benchmark Location: Top of Wood Fence Post -next to power pole

Differences between soil survey and field evaluation:

Site evaluation issues / comments:

Anticipated construction issues: Tank placement



Soil Observation Log

Project ID: v 04.02.2019

Client: Robert Strand		Location / Address: GPS N 43 41.330' W 091 42.646'							
Soil parent material(s): (Check all that apply)		<input type="checkbox"/> Outwash	<input type="checkbox"/> Lacustrine	<input type="checkbox"/> Loess	<input type="checkbox"/> Till	<input type="checkbox"/> Alluvium	<input type="checkbox"/> Bedrock	<input type="checkbox"/> Organic Matter	
Landscape Position: (check one)		<input type="checkbox"/> Summit	<input type="checkbox"/> Shoulder	<input checked="" type="checkbox"/> Back/Side Slope	<input type="checkbox"/> Foot Slope	<input type="checkbox"/> Toe Slope	Slope shape Linear, Convex		
Vegetation: Forest		Soil survey map units: 388D2		Slope %: 11.0		Elevation: 101.06			
Weather Conditions/Time of Day: Sunny / 3:30 - 4:30 PM		Date: 06/05/19							
Observation #/Location: Boring # 1		Observation Type: Auger							
Depth (in)	Texture	Rock Frag. %	Matrix Color(s)	Mottle Color(s)	Redox Kind(s)	Indicator(s)	Shape	Grade	Consistence
0 to 9	Silt Loam	0	10YR 3/2				Blocky	Weak	Loose
9 to 22	Silt Loam	0	10YR 5/4	10YR 3/2			Blocky	Weak	Friable
22 to 36	Silty Clay Loam	0	10YR 4/6				Blocky	Strong	Firm
36 to 40	Silty Clay Loam	0	10YR 4/6				Blocky	Strong	Extremely Firm
37	Silty Clay Loam	0	10YR 4/6	7.5YR 5/8	Concentrations, depletions	S2	Blocky	Strong	Extremely Firm
				10YR 6/1					
Comments		Limiting Layer 37". Ground Elevation of 101.06'. Soils verified with Aaron Lacher (Houston County)							
I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws.									
Chance Nelson (Designer/Inspector)		3647 (License #)		6/5/2019 (Date)					



Additional Soil Observation Logs

Project ID:

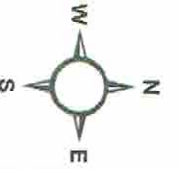
Client: Robert Strand				Location / Address: GPS N 43 41.337 W 091 42.646			
Soil parent material(s): (Check all that apply) <input type="checkbox"/> Outwash <input type="checkbox"/> Lacustrine <input type="checkbox"/> Loess <input type="checkbox"/> Till <input type="checkbox"/> Alluvium <input type="checkbox"/> Bedrock <input type="checkbox"/> Organic Matter							
Landscape Position: (check one) <input type="checkbox"/> Summit <input type="checkbox"/> Shoulder <input type="checkbox"/> Back/Side Slope <input type="checkbox"/> Foot Slope <input type="checkbox"/> Toe Slope Slope shape Linear, Convex							
Vegetation: Forest		Soil survey map units: 388D2		Slope %: 12.0		Elevation: 101.06	
Weather Conditions/Time of Day: Sunny / 3:30 - 4:30 PM				Date: 06/05/19			
Observation #/Location: Boring # 2				Observation Type: Auger			
Depth (in)	Texture	Rock Frag. %	Matrix Color(s)	Mottle Color(s)	Redox Kind(s)	Indicator(s)	Structure-----I
0 to 6	Silt Loam	0	10YR 3/2				Shape Grade Consistence
6 to 18	Silt Loam	0	10YR 5/4	10YR 4/4			Blocky Weak Loose
18 to 24	Silty Clay Loam	0	10YR 4/6	10YR 5/6			Blocky Weak Friable
24 to 37	Silty Clay Loam	0	10YR 4/6				Blocky Strong Friable
34	Silty Clay Loam	0	10YR 4/6	7.5YR 7/8	Concentrations, depletions	52	Blocky Strong Firm
Comments: Limiting Layer 34". Ground Elevation of 101.06'. Soils verified with Aaron Lacher (Houston County)							



Soil Observation Log

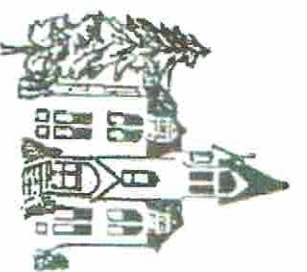
Project ID: v 04.02.2019

Client:		Robert Strand		Location / Address:		GPS W 43 41.328' W 091 42.642'	
Soil parent material(s): (Check all that apply)				<input type="checkbox"/> Outwash	<input type="checkbox"/> Lacustrine	<input type="checkbox"/> Loess	<input type="checkbox"/> Till
				<input type="checkbox"/> Alluvium	<input type="checkbox"/> Bedrock	<input type="checkbox"/> Organic Matter	
Landscape Position: (check one)				<input type="checkbox"/> Summit	<input type="checkbox"/> Shoulder	<input checked="" type="checkbox"/> Back/Side Slope	<input type="checkbox"/> Foot Slope
				<input type="checkbox"/> Toe Slope	Slope shape		
				Slope %:			Linear, Convex
Vegetation:				Forest		Soil survey map units:	Elevation (ft):
						322TE	14.0
Weather Conditions/Time of Day:				Sunny / 3:30 - 4:30 PM		Date:	06/05/19
Observation #/Location:				Boring # 3			
Observation Type:				Auger			
Depth (in)	Texture	Rock Frag. %	Matrix Color(s)	Mottle Color(s)	Redox Kind(s)	Indicator(s)	Shape
							Grade
							Consistence
0 to 7	Silt Loam	0	10YR 3/2				Blocky
							Weak
							Loose
7 to 19	Silt Loam	0	10YR 5/4				Blocky
							Weak
							Friable
19 to 29	Silty Clay Loam	0	10YR 5/6				Blocky
							Strong
							Firm
26	Silty Clay Loam	0	10YR 5/6	7.5YR 5/8	Concentrations	S2	Blocky
							Strong
							Firm
Comments							
Limiting Layer 26". Ground Elevation of 99.16'. Soils verified with Aaron Lacher (Houston County)							



See attached table

HOUSTON COUNTY, MN



MAP LEGEND

- Parcels
- NG911 Address Points
- NG911 Road Centerlines
- Soil Bore Hole

Aaron Lacher CS06
C. Lacher

The information on this page represents current data from a working file which is updated continuously. Its accuracy cannot be guaranteed. No warranty, expressed or implied, is provided for the data hereby, or its use. Houston County digital cadastral data are a representation of recorded plats and surveys for use within the Geographic Information System for purposes of data access and analysis.

Soil Bore Hole - Updated

Job Name	Bore Number	Limiting	Contractor	Notes	CREATEBY	CREATEDATE	Latitude	Longitude
Strand, Robert	2	34	Chance Nelson #3647	Silty clay loam.	Alacher	6/5/2019 9:00:41 PM	43.688949	-91.710754
Strand, Robert	1	37	Chance Nelson #3647	Silty clay loam.	Alacher	6/5/2019 9:03:32 PM	43.688814	-91.710785
Strand, Robert	3	26	Chance Nelson #3647	Silty clay loam. System location may vary and be within 2 of 3 Borings. County approves based on consistency of limiting layer and multiple preliminary borings	Alacher	6/5/2019 9:18:58 PM	43.688841	-91.710681



Design Summary Page

1. PROJECT INFORMATION

v 04.02.2019

Property Owner/Client: Project ID:

Site Address: Date:

Email Address: Phone:

2. DESIGN FLOW & WASTE STRENGTH

Attach data / estimate basis for Other Establishments

Design Flow: GPD Anticipated Waste Type:

BOD: mg/L TSS: mg/L Oil & Grease: mg/L

Treatment Level: *Select Treatment Level C for residential septic tank effluent*

3. HOLDING TANK SIZING

Minimum Capacity: Residential = 400 gal/bedroom, Other Establishment = Design Flow x 5.0, Minimum size 1000 gallons

~~Code Minimum Holding Tank Capacity: Gallons in Tanks or Compartments~~

~~Recommended Holding Tank Capacity: Gallons in Tanks or Compartments~~

~~Type of High Level Alarm: (Set @ 75% tank capacity)~~

~~Comments:~~

4. SEPTIC TANK SIZING

A. Residential dwellings:

Number of Bedrooms (Residential):

Code Minimum Septic Tank Capacity: Gallons in Tanks or Compartments

Recommended Septic Tank Capacity: Gallons in Tanks or Compartments

Effluent Screen & Alarm (Y/N): Model/Type:

B. Other Establishments:

~~Waste received by: GPD x Days Hyd. Retention Time~~

~~Code Minimum Septic Tank Capacity: Gallons in Tanks or Compartments~~

~~Recommended Septic Tank Capacity: Gallons in Tanks or Compartments~~

~~Effluent Screen & Alarm (Y/N): Model/Type:~~

5. PUMP TANK SIZING

Pump Tank 1 Capacity (Minimum): Gal Pump Tank 2 Capacity (Minimum): Gal

Pump Tank 1 Capacity (Recommended): Gal Pump Tank 2 Capacity (Recommended): Gal

Pump 1 GPM Total Head ft Pump 2 GPM Total Head ft

Supply Pipe Dia. in Dose Vol: gal Supply Pipe Dia. in Dose Vol: Gal



Design Summary Page

6. SYSTEM AND DISTRIBUTION TYPE

Project ID:

Soil Treatment Type:

Distribution Type:

Elevation Benchmark: ft

Benchmark Location:

MPCA System Type:

Distribution Media:

Type III/IV Details:

7. SITE EVALUATION SUMMARY:

Describe Limiting Condition:

Layers with >35% Rock Fragments? (yes/no) If yes, describe below: % rock and layer thickness, amount of soil credit and any additional information for addressing the rock fragments in this design.

Note:

	Depth	Depth	Elevation
Limiting Condition:	<input type="text" value="26"/> inches	<input type="text" value="2.2"/> ft	<input type="text" value="See Soils"/> ft
Minimum Req'd Separation:	<input type="text" value="36"/> inches	<input type="text" value="3.0"/> ft	<input type="text" value="Elevation"/> ft
Code Max System Depth:	<input type="text" value="Mound"/> inches	<input type="text" value="-0.8"/> ft	<input type="text" value=""/> ft

Critical for system compliance

This is the maximum depth to the bottom of the distribution media. Negative Depth (ft) means it must be a mound.

Soil Texture:

Soil Hyd. Loading Rate: GPD/ft²

Percolation Rate: MPI

Contour Loading Rate:

Note:

Measured Land Slope: %

Note:

Comments:

8. SOIL TREATMENT AREA DESIGN SUMMARY

Trench:

Dispersal Area	<input type="text"/>	ft ²	Sidewall Depth	<input type="text"/>	in	Trench Width	<input type="text"/>	ft
Total Lineal Feet	<input type="text"/>	ft	No. of Trenches	<input type="text"/>		Code Max. Trench Depth	<input type="text"/>	in
Contour Loading Rate	<input type="text"/>	ft	Min. Length	<input type="text"/>	ft	Designed Trench Depth	<input type="text"/>	in

Bed:

Dispersal Area	<input type="text"/>	ft ²	Sidewall Depth	<input type="text"/>	in	Maximum Bed Depth	<input type="text"/>	in
Bed Width	<input type="text"/>	ft	Bed Length	<input type="text"/>	ft	Designed Bed Depth	<input type="text"/>	in

Mound:

Dispersal Area	<input type="text" value="270.0"/>	ft ²	Bed Length	<input type="text" value="30.0"/>	ft	Bed Width	<input type="text" value="9.0"/>	ft
Absorption Width	<input type="text" value="23.4"/>	ft	Clean Sand Lift	<input type="text" value="1.0"/>	ft	Berm Width (0-1%)	<input type="text"/>	ft
Upslope Berm Width	<input type="text" value="8.7"/>	ft	Downslope Berm	<input type="text" value="22.3"/>	ft	Endslope Berm Width	<input type="text" value="13.5"/>	ft
Total System Length	<input type="text" value="57.0"/>	ft	System Width	<input type="text" value="40.0"/>	ft	Contour Loading Rate	<input type="text" value="10.8"/>	gal/ft



Design Summary Page

Project ID: _____

At-Grade:

Bed Width ft Bed Length ft Finished Height ft
 Contour Loading Rate gal/ft Upslope Berm ft Downslope Berm ft
 Endslope Berm ft System Length ft System Width ft

Level & Equal Pressure Distribution

No. of Laterals 3 Perforation Spacing 2.5 ft Perforation Diameter 1/4 in
 Lateral Diameter 2.00 in Min Dose Volume 0 gal Max Dose Volume 75 gal

Non-Level and Unequal Pressure Distribution

	Elevation (ft)	Pipe Size (in)	Pipe Volume (gal/ft)	Pipe Length (ft)	Perf Size (in)	Spacing (ft)	Spacing (in)	
Lateral 1								Minimum Dose Volume
Lateral 2								<input type="text"/> gal
Lateral 3								
Lateral 4								Maximum Dose Volume
Lateral 5								<input type="text"/> gal
Lateral 6								

9. Additional Info for At-Risk, HSW or Type IV Design

A. Starting BOD Concentration = Design Flow X Starting BOD (mg/L) X 8.35 ÷ 1,000,000

gpd X mg/L X 8.35 ÷ 1,000,000 = lbs. BOD/day

B. Target BOD Concentration = Design Flow X Target BOD (mg/L) X 8.35 ÷ 1,000,000

gpd X mg/L X 8.35 ÷ 1,000,000 = lbs. BOD/day

Lbs. BOD To Be Removed:

PreTreatment Technology: *Must Meet or Exceed Target

Disinfection Technology: *Required for Levels A & B

C. Organic Loading to Soil Treatment Area:

mg/L X gpd x 8.35 ÷ 1,000,000 ÷ ft² = lbs./day/ft²

10. Comments/Special Design Considerations:

I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws.

Chance Nelson

(Designer)

(Signature)

3647

(License #)

6/5/2019

(Date)

Mound Design Worksheet

≥1% Slope

1. SYSTEM SIZING:		Project ID:	v 04.02.2019																																																																
<p>A. Design Flow:</p> <p>B. Soil Loading Rate:</p> <p>C. Depth to Limiting Condition</p> <p>D. Percent Land Slope:</p> <p>E. Design Media Loading Rate:</p> <p>F. Mound Absorption Ratio:</p>	<div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">300</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">0.45</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">2.2</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">13.0</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">1.2</div> <div style="border: 1px solid black; padding: 2px;">2.60</div>	<p>GPD</p> <p>GPD/ft²</p> <p>ft</p> <p>%</p> <p>GPD/ft²</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="5">TABLE IXa</th> </tr> <tr> <th colspan="5">LOADING RATES FOR DETERMINING BOTTOM ABSORPTION AREA AND ABSORPTION RATIOS USING PERCOLATION TESTS</th> </tr> <tr> <th rowspan="2">Percolation Rate (MPI)</th> <th colspan="2">Treatment Level C</th> <th colspan="2">Treatment Level A, A-2, B,</th> </tr> <tr> <th>Absorption Area Loading Rate (gpd/ft²)</th> <th>Mound Absorption Ratio</th> <th>Absorption Area Loading Rate (gpd/ft²)</th> <th>Mound Absorption Ratio</th> </tr> <tr> <td><0.1</td> <td>-</td> <td>1</td> <td>-</td> <td>1</td> </tr> <tr> <td>0.1 to 5</td> <td>1.2</td> <td>1</td> <td>1.6</td> <td>1</td> </tr> <tr> <td>0.1 to 5 (fine sand and loamy fine sand)</td> <td>0.6</td> <td>2</td> <td>1</td> <td>1.6</td> </tr> <tr> <td>6 to 15</td> <td>0.78</td> <td>1.5</td> <td>1</td> <td>1.6</td> </tr> <tr> <td>16 to 30</td> <td>0.6</td> <td>2</td> <td>0.78</td> <td>2</td> </tr> <tr> <td>31 to 45</td> <td>0.5</td> <td>2.4</td> <td>0.78</td> <td>2</td> </tr> <tr> <td>46 to 60</td> <td>0.45</td> <td>2.6</td> <td>0.6</td> <td>2.6</td> </tr> <tr> <td>61 to 120</td> <td>-</td> <td>5</td> <td>0.3</td> <td>5.3</td> </tr> <tr> <td>>120</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </table> <p><i>*Systems with these values are not Type I systems. Contour Loading Rate (linear loading rate) is a recommended value.</i></p>	TABLE IXa					LOADING RATES FOR DETERMINING BOTTOM ABSORPTION AREA AND ABSORPTION RATIOS USING PERCOLATION TESTS					Percolation Rate (MPI)	Treatment Level C		Treatment Level A, A-2, B,		Absorption Area Loading Rate (gpd/ft ²)	Mound Absorption Ratio	Absorption Area Loading Rate (gpd/ft ²)	Mound Absorption Ratio	<0.1	-	1	-	1	0.1 to 5	1.2	1	1.6	1	0.1 to 5 (fine sand and loamy fine sand)	0.6	2	1	1.6	6 to 15	0.78	1.5	1	1.6	16 to 30	0.6	2	0.78	2	31 to 45	0.5	2.4	0.78	2	46 to 60	0.45	2.6	0.6	2.6	61 to 120	-	5	0.3	5.3	>120	-	-	-	-
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≥ 120 mpi*		>5.0*	+	≤ 6*																																																															
2. DISPERSAL MEDIA SIZING																																																																			
<p>A. Calculate Dispersal Bed Area: Design Flow ÷ Design Media Loading Rate = ft²</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; padding: 2px 10px;">300</div> <div style="margin: 0 5px;">GPD ÷</div> <div style="border: 1px solid black; padding: 2px 10px;">1.2</div> <div style="margin: 0 5px;">GPD/ft² =</div> <div style="border: 1px solid black; padding: 2px 10px;">250</div> <div style="margin: 0 5px;">ft²</div> </div> <p style="margin-top: 10px;">If a larger dispersal media area is desired, enter size: 270 ft²</p> <p>B. Enter Dispersal Bed Width: 9.0 ft <i>Can not exceed 10 feet</i></p> <p>C. Calculate Contour Loading Rate: Bed Width X Design Media Loading Rate</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; padding: 2px 10px;">9</div> <div style="margin: 0 5px;">ft² X</div> <div style="border: 1px solid black; padding: 2px 10px;">1.2</div> <div style="margin: 0 5px;">GPD/ft² =</div> <div style="border: 1px solid black; padding: 2px 10px;">10.8</div> <div style="margin: 0 5px;">gal/ft</div> <div style="margin-left: 20px;"><i>Can not exceed Table 1</i></div> </div> <p>D. Calculate Minimum Dispersal Bed Length: Dispersal Bed Area ÷ Bed Width = Bed Length</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; padding: 2px 10px;">270</div> <div style="margin: 0 5px;">ft² ÷</div> <div style="border: 1px solid black; padding: 2px 10px;">9.0</div> <div style="margin: 0 5px;">ft =</div> <div style="border: 1px solid black; padding: 2px 10px;">30.0</div> <div style="margin: 0 5px;">ft</div> </div>																																																																			
3. ABSORPTION AREA SIZING																																																																			
<p>A. Calculate Absorption Width: Bed Width X Mound Absorption Ratio = Absorption Width</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; padding: 2px 10px;">9.0</div> <div style="margin: 0 5px;">ft X</div> <div style="border: 1px solid black; padding: 2px 10px;">2.6</div> <div style="margin: 0 5px;">=</div> <div style="border: 1px solid black; padding: 2px 10px;">23.4</div> <div style="margin: 0 5px;">ft</div> </div> <p>B. For slopes >1%, the Absorption Width is measured downhill from the upslope edge of the Bed.</p> <p style="margin-left: 40px;">Calculate Downslope Absorption Width: Absorption Width - Bed Width</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; padding: 2px 10px;">23.4</div> <div style="margin: 0 5px;">ft -</div> <div style="border: 1px solid black; padding: 2px 10px;">9.0</div> <div style="margin: 0 5px;">ft =</div> <div style="border: 1px solid black; padding: 2px 10px;">14.4</div> <div style="margin: 0 5px;">ft</div> </div>																																																																			
4. DISTRIBUTION MEDIA: ROCK																																																																			
<p>A. Rock Depth Below Distribution Pipe</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; padding: 2px 10px;">6</div> <div style="margin: 0 5px;">in</div> <div style="border: 1px solid black; padding: 2px 10px;">0.50</div> <div style="margin: 0 5px;">ft</div> </div>																																																																			

5. DISTRIBUTION MEDIA: REGISTERED TREATMENT PRODUCTS: CHAMBERS AND EZFLOW

- A. Enter Dispersal Media:
- B. Enter the Component: Length: ft Width: ft Depth: ft
- C. Number of Components per Row = Bed Length divided by Component Length (Round up)
 ft ÷ ft = components/row
- D. Actual Bed Length = Number of Components/row X Component Length:
 components X ft = ft
- E. Number of Rows = Bed Width divided by Component Width (Round up)
 ft ÷ ft = rows Adjust width so this is a whole number.
- F. Total Number of Components = Number of Components per Row X Number of Rows
 X = components

Check registered product information for specific application details and design

6. MOUND SIZING

- A. Calculate Minimum Clean Sand Lift: 3 feet minus Depth to Limiting Condition = Clean Sand Lift
 3.0 ft - ft = ft Design Sand Lift (optional):

- B. Upslope Height: Clean Sand Lift + Depth of Media + Depth of Cover cover (1 ft.)

ft + ft + ft = ft

Land Slope %	0	1	2	3	4	5	6	7	8	9	10	11	12
Upslope Berm Ratio	3:1	3.00	2.91	2.83	2.75	2.68	2.61	2.54	2.48	2.42	2.36	2.31	2.26
	4:1	4.00	3.85	3.70	3.57	3.45	3.33	3.23	3.12	3.03	2.94	2.86	2.78

- C. Select Upslope Berm Multiplier (based on land slope):

- D. Calculate Upslope Berm Width: Multiplier X Upslope Mound Height = Upslope Berm Width

ft X ft = ft

- E. Calculate Drop in Elevation Under Bed: Bed Width X Land Slope ÷ 100 = Drop (ft)

ft X % ÷ 100 = ft

- F. Calculate Downslope Mound Height: Upslope Height + Drop in Elevation = Downslope Height

ft + ft = ft

Land Slope %	0	1	2	3	4	5	6	7	8	9	10	11	12
Downslope Berm Ratio	3:1	3.00	3.09	3.19	3.30	3.41	3.53	3.66	3.80	3.95	4.11	4.29	4.48
	4:1	4.00	4.17	4.35	4.54	4.76	5.00	5.26	5.56	5.88	6.25	6.67	7.14

- G. Select Downslope Berm Multiplier (based on land slope):

- H. Calculate Downslope Berm Width: Multiplier X Downslope Height = Downslope Berm Width

X ft = ft

- I. Calculate Minimum Berm to Cover Absorption Area: Downslope Absorption Width + 4 feet

ft + ft = ft

- J. Design Downslope Berm = greater of 4H and 4I: ft

- K. Select Endslope Berm Multiplier: (usually 3.0 or 4.0)

- L. Calculate Endslope Berm X Downslope Mound Height = Endslope Berm Width

ft X ft = ft

- M. Calculate Mound Width: Upslope Berm Width + Bed Width + Downslope Berm Width

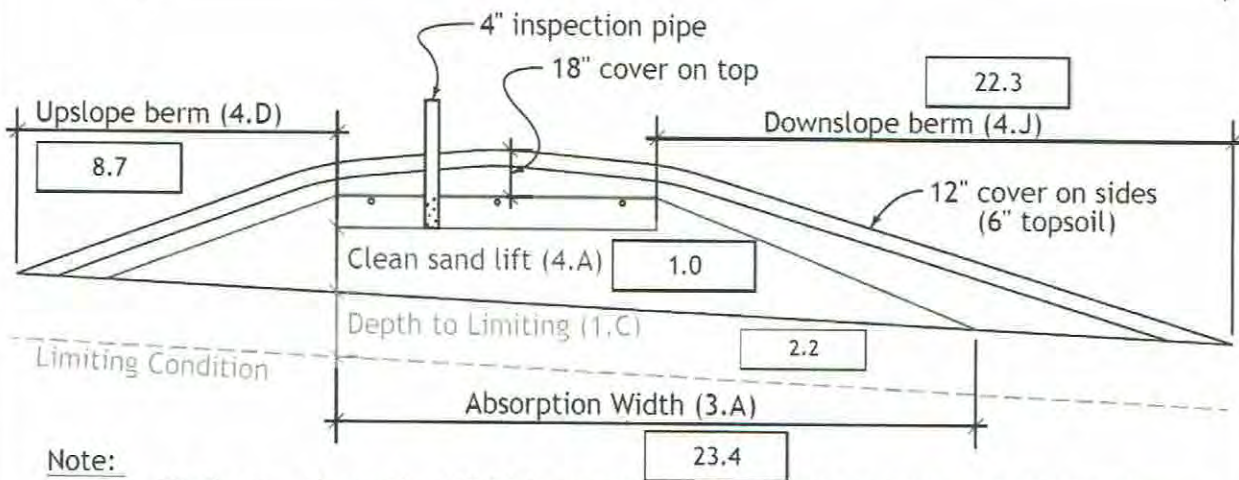
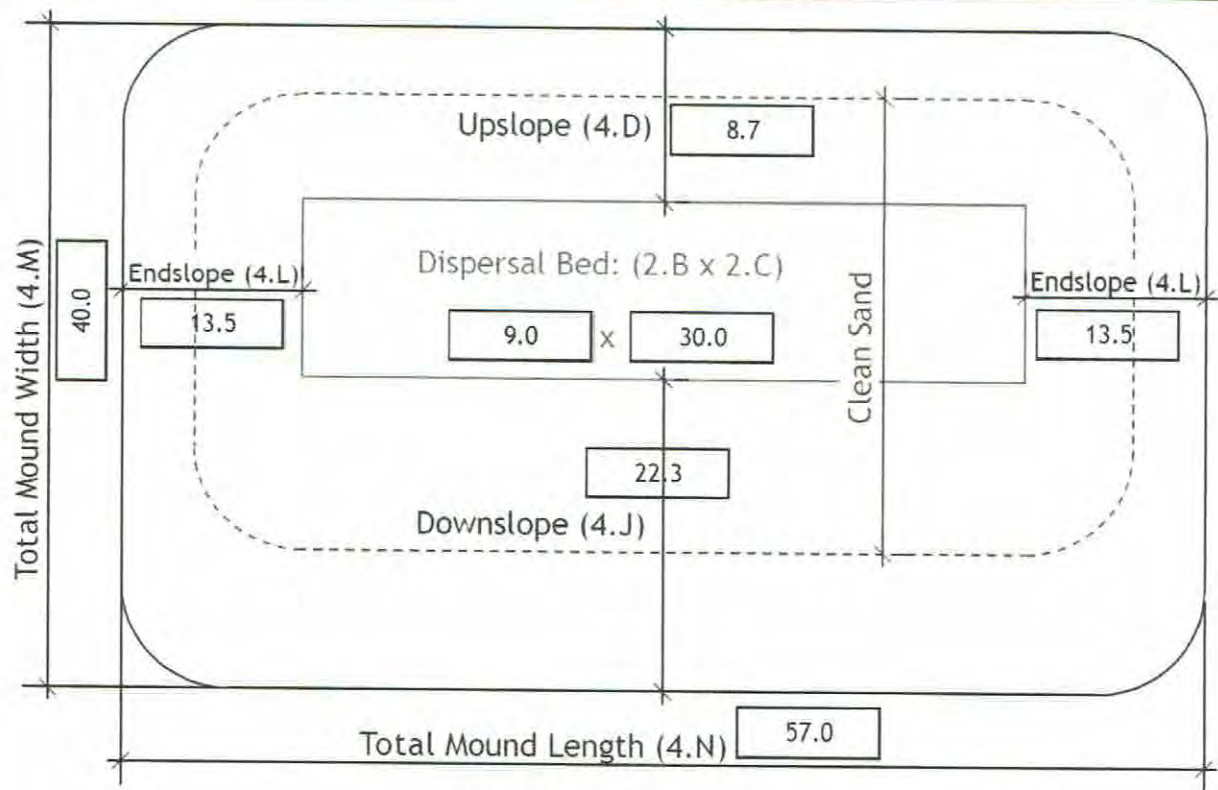
ft + ft + ft = ft

- N. Calculate Mound Length: Endslope Berm Width + Bed Length + Endslope Berm Width

ft + ft + ft = ft

7. MOUND DIMENSIONS

Project ID:



Note:

For 0 to 1% slopes, *Absorption Width* is measured from the *Bed* equally in both directions.
For slopes >1%, *Absorption Width* is measured downhill from the upslope edge of the *Bed*.

Comments:

Til Slopes. Recommended Totals: Rock 11yds / Clean Sand 84 yds / Sandy berm 112 / Dirt 70



Mound Materials Worksheet

Project ID:

v 04.02.2019

A. Rock Volume : (Rock Below Pipe + Rock to cover pipe (pipe outside dia + ~2 inch)) X Bed Length X Bed Width = Volume

$$(\boxed{6} \text{ in} + \boxed{3.5} \text{ in}) \div 12 \times \boxed{30.0} \text{ ft} \times \boxed{9.0} \text{ ft} = \boxed{213.8} \text{ ft}^3$$

Divide ft^3 by $27 \text{ ft}^3/\text{yd}^3$ to calculate cubic yards: $\boxed{213.8} \text{ ft}^3 \div 27 = \boxed{7.9} \text{ yd}^3$ (11)

Add 30% for constructability: $\boxed{7.9} \text{ yd}^3 \times 1.3 = \boxed{10.3} \text{ yd}^3$

B. Calculate Clean Sand Volume:

Volume Under Rock bed : Average Sand Depth x Media Width x Media Length = cubic feet

$$\boxed{1.9} \text{ ft} \times \boxed{9.0} \text{ ft} \times \boxed{30.0} \text{ ft} = \boxed{517.1} \text{ ft}^3$$

For a Mound on a slope from 0-1%

Volume from Length = ((Upslope Mound Height - 1) X Absorption Width Beyond Bed X Media Bed Length)

$$\boxed{} \text{ ft} - 1 \times \boxed{} \times \boxed{} \text{ ft} = \boxed{}$$

Volume from Width = ((Upslope Mound Height - 1) X Absorption Width Beyond Bed X Media Bed Width)

$$\boxed{} \text{ ft} - 1 \times \boxed{} \times \boxed{} \text{ ft} = \boxed{}$$

Total Clean Sand Volume : Volume from Length + Volume from Width + Volume Under Media

$$\boxed{} \text{ ft}^3 + \boxed{} \text{ ft}^3 + \boxed{} \text{ ft}^3 = \boxed{} \text{ ft}^3$$

For a Mound on a slope greater than 1%

Upslope Volume : ((Upslope Mound Height - 1) x 3 x Bed Length) + 2 = cubic feet

$$((\boxed{3.3} \text{ ft} - 1) \times 3.0 \text{ ft} \times \boxed{30.0}) \div 2 = \boxed{104.9} \text{ ft}^3$$

Downslope Volume : ((Downslope Height - 1) x Downslope Absorption Width x Media Length) + 2 = cubic feet

$$((\boxed{4.5} \text{ ft} - 1) \times \boxed{14.4} \text{ ft} \times \boxed{30.0}) \div 2 = \boxed{756.0} \text{ ft}^3$$

Endslope Volume : (Downslope Mound Height - 1) x 3 x Media Width = cubic feet

$$(\boxed{4.5} \text{ ft} - 1) \times 3.0 \text{ ft} \times \boxed{9.0} \text{ ft} = \boxed{94.5} \text{ ft}^3$$
 (84)

Total Clean Sand Volume : Upslope Volume + Downslope Volume + Endslope Volume + Volume Under Media

$$\boxed{104.9} \text{ ft}^3 + \boxed{756.0} \text{ ft}^3 + \boxed{94.5} \text{ ft}^3 + \boxed{517.1} \text{ ft}^3 = \boxed{1472.4} \text{ ft}^3$$

Divide ft^3 by $27 \text{ ft}^3/\text{yd}^3$ to calculate cubic yards: $\boxed{1472.4} \text{ ft}^3 \div 27 = \boxed{54.5} \text{ yd}^3$

Add 30% for constructability: $\boxed{54.5} \text{ yd}^3 \times 1.3 = \boxed{70.9} \text{ yd}^3$

C. Calculate Sandy Berm Volume:

Total Berm Volume (approx) : ((Avg. Mound Height - 0.5 ft topsoil) x Mound Width x Mound Length) + 2

$$(\boxed{3.9} - 0.5) \text{ ft} \times \boxed{40.0} \text{ ft} \times \boxed{57.0} \text{ ft} \div 2 = \boxed{3893.1} \text{ ft}^3$$

Total Mound Volume - Clean Sand volume - Rock Volume = cubic feet

$$\boxed{3893.1} \text{ ft}^3 - \boxed{1472.4} \text{ ft}^3 - \boxed{213.8} \text{ ft}^3 = \boxed{2206.9} \text{ ft}^3$$
 (112)

Divide ft^3 by $27 \text{ ft}^3/\text{yd}^3$ to calculate cubic yards: $\boxed{2206.9} \text{ ft}^3 \div 27 = \boxed{81.7} \text{ yd}^3$

Add 30% for constructability: $\boxed{81.7} \text{ yd}^3 \times 1.2 = \boxed{106.3} \text{ yd}^3$

D. Calculate Topsoil Material Volume: Total Mound Width X Total Mound Length X .5 ft

$$\boxed{40.0} \text{ ft} \times \boxed{57.0} \text{ ft} \times 0.5 \text{ ft} = \boxed{1140.0} \text{ ft}^3$$

Divide ft^3 by $27 \text{ ft}^3/\text{yd}^3$ to calculate cubic yards: $\boxed{1140.0} \text{ ft}^3 \div 27 = \boxed{42.2} \text{ yd}^3$ (70)

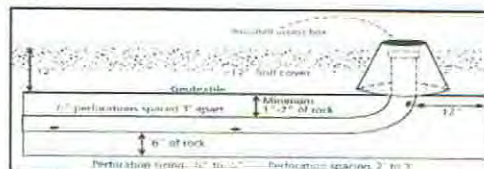
Add 30% for constructability: $\boxed{42.2} \text{ yd}^3 \times 1.3 = \boxed{54.9} \text{ yd}^3$

Pressure Distribution Design Worksheet

Project ID:

v 04.02.2019

- Media Bed Width: ft
- Minimum Number of Laterals in system/zone = Rounded up number of $[(\text{Media Bed Width} - 4) \div 3] + 1$.
 $[(\text{9} - 4) \div 3] + 1 = \text{3} \text{ laterals}$ *Does not apply to at-grades*
- Designer Selected Number of Laterals: laterals
Cannot be less than line 2 (Except in at-grades)
- Select Perforation Spacing: ft
- Select Perforation Diameter Size: in
- Length of Laterals = Media Bed Length - 2 Feet.
 - 2ft = ft *Perforation can not be closer then 1 foot from edge.*
- Determine the Number of Perforation Spaces. Divide the Length of Laterals by the Perforation Spacing and round down to the nearest whole number.
 Number of Perforation Spaces = ft \div ft = Spaces
- Number of Perforations per Lateral is equal to 1.0 plus the Number of Perforation Spaces. Check table below to verify the number of perforations per lateral guarantees less than a 10% discharge variation. The value is double with a center manifold.



Perforations Per Lateral = Spaces + 1 = Perfs. Per Lateral

Maximum Number of Perforations Per Lateral to Guarantee <10% Discharge Variation											
1/4 Inch Perforations						7/32 Inch Perforations					
Perforation Spacing (Feet)	Pipe Diameter (Inches)					Perforation Spacing (Feet)	Pipe Diameter (Inches)				
	1	1 1/4	1 1/2	2	3		1	1 1/4	1 1/2	2	3
2	10	13	18	30	60	2	11	16	21	34	68
2 1/2	8	12	16	28	54	2 1/2	10	14	20	32	64
3	8	12	16	25	52	3	9	14	19	30	60
3/16 Inch Perforations						1/8 Inch Perforations					
Perforation Spacing (Feet)	Pipe Diameter (Inches)					Perforation Spacing (Feet)	Pipe Diameter (Inches)				
	1	1 1/4	1 1/2	2	3		1	1 1/4	1 1/2	2	3
2	12	18	26	46	87	2	21	33	44	74	149
2 1/2	12	17	24	40	80	2 1/2	20	30	41	69	135
3	12	16	22	37	75	3	20	29	38	64	128

- Total Number of Perforations equals the Number of Perforations per Lateral multiplied by the Number of Perforated Laterals.

Perf. Per Lat. X Number of Perf. Lat. = Total Number of Perf.

- Spacing of laterals; Must be greater than 1 foot and no more than 3 feet: ft

- Select Type of Manifold Connection (End or Center):

- Select Lateral Diameter (See Table): in

Pressure Distribution Design Worksheet

12. Calculate the *Square Feet per Perforation*. Recommended value is 4-11 ft² per perforation.

Does not apply to At-Grades

- a. *Bed Area* = Bed Width (ft) X Bed Length (ft)

$$\boxed{9} \text{ ft} \times \boxed{30} \text{ ft} = \boxed{270} \text{ ft}^2$$

- b. *Square Foot per Perforation* = *Bed Area* divided by the *Total Number of Perforations*.

$$\boxed{270} \text{ ft}^2 \div \boxed{36} \text{ perforations} = \boxed{7.5} \text{ ft}^2/\text{perforations}$$

13. Select *Minimum Average Head*: $\boxed{1.0}$ ft

14. Select *Perforation Discharge* (GPM) based on Table: $\boxed{0.74}$ GPM per Perforation

15. Determine required *Flow Rate* by multiplying the *Total Number of Perfs.* by the *Perforation Discharge*.

$$\boxed{36} \text{ Perfs} \times \boxed{0.74} \text{ GPM per Perforation} = \boxed{27} \text{ GPM}$$

16. *Volume of Liquid Per Foot of Distribution Piping* (Table II): $\boxed{0.170}$ Gallons/ft

17. *Volume of Distribution Piping* =

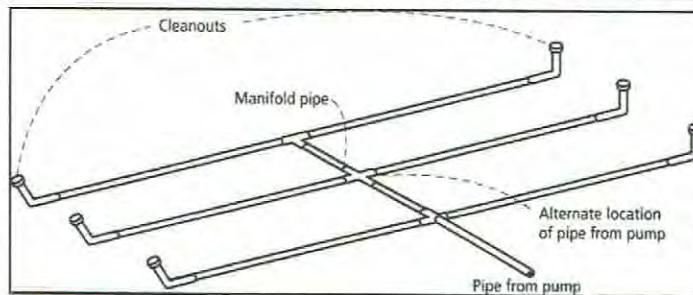
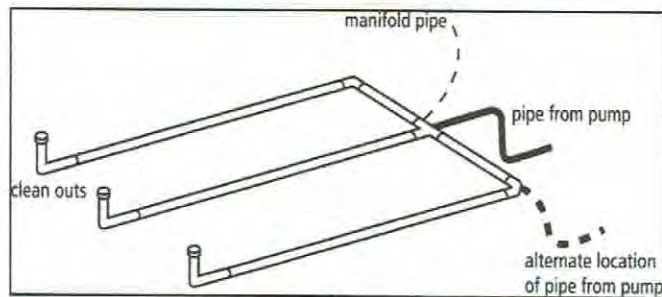
= [Number of Perforated Laterals X Length of Laterals X (Volume of Liquid Per Foot of Distribution Piping)]

$$\boxed{3} \times \boxed{28} \text{ ft} \times \boxed{0.170} \text{ gal/ft} = \boxed{14.3} \text{ Gallons}$$

18. *Minimum Delivered Volume* = *Volume of Distribution Piping* X 4

$$\boxed{14.3} \text{ gals} \times 4 = \boxed{57.1} \text{ Gallons}$$

Table II Volume of Liquid in Pipe	
Pipe Diameter (inches)	Liquid Per Foot (Gallons)
1	0.045
1.25	0.078
1.5	0.110
2	0.170
3	0.380
4	0.661



Comments/Special Design Considerations:

Recommended use of orifice shields if rock is used.

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Basic Pump Selection Design Worksheet

m MINNESOTA POLLUTION CONTROL AGENCY

1. PUMP CAPACITY

Project ID:

v 04.02.2019

Pumping to Gravity or Pressure Distribution:

Pressure

1. If pumping to gravity enter the gallon per minute of the pump: GPM (10 - 45 gpm)

2. If pumping to a pressurized distribution system: 27.0 GPM

3. Enter pump description:

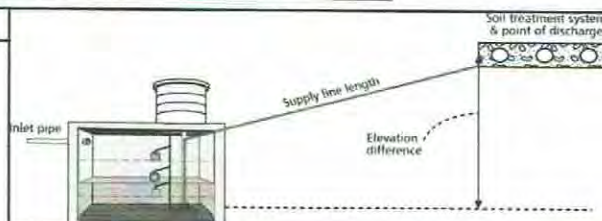
Equalization/Time Dosing

2. HEAD REQUIREMENTS

A. Elevation Difference 22 ft
between pump and point of discharge:

B. Distribution Head Loss: 5 ft

C. Additional Head Loss: ft (due to special equipment, etc.)



Distribution Head Loss	
Gravity Distribution = 0ft	
Pressure Distribution based on Minimum Average Head Value on Pressure Distribution Worksheet:	
Minimum Average Head	Distribution Head Loss
1ft	5ft
2ft	6ft
5ft	10ft

D. 1. Supply Pipe Diameter: 2.0 in

2. Supply Pipe Length: 100 ft

E. Friction Loss in Plastic Pipe per 100ft from Table I:

Friction Loss = 1.95 ft per 100ft of pipe

F. Determine *Equivalent Pipe Length* from pump discharge to soil dispersal area discharge point. Estimate by adding 25% to supply pipe length for fitting loss. *Supply Pipe Length (D.2) X 1.25 = Equivalent Pipe Length*

100 ft X 1.25 = 125.0 ft

G. Calculate *Supply Friction Loss* by multiplying *Friction Loss Per 100ft* (Line E) by the *Equivalent Pipe Length* (Line F) and divide by 100.

Supply Friction Loss =

1.95 ft per 100ft X 125.0 ft ÷ 100 = 2.4 ft

H. *Total Head* requirement is the sum of the *Elevation Difference* (Line A), the *Distribution Head Loss* (Line B), *Additional Head Loss* (Line C), and the *Supply Friction Loss* (Line G)

22.0 ft + 5.0 ft + ft + 2.4 ft = 29.4 ft

3. PUMP SELECTION

A pump must be selected to deliver at least **27.0** GPM (Line 1 or Line 2) with at least **29.4** feet of total head.

Comments:

Elevations and distances to be verified at time of installation

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Table I. Friction Loss in Plastic Pipe per 100ft

Flow Rate (GPM)	Pipe Diameter (inches)			
	1	1.25	1.5	2
10	9.1	3.1	1.3	0.3
12	12.8	4.3	1.8	0.4
14	17.0	5.7	2.4	0.6
16	21.8	7.3	3.0	0.7
18		9.1	3.8	0.9
20		11.1	4.6	1.1
25		16.8	6.9	1.7
30		23.5	9.7	2.4
35			12.9	3.2
40			16.5	4.1
45			20.5	5.0
50				6.1
55				7.3
60				8.6
65				10.0
70				11.4
75				13.0
85				16.4
95				20.1



Pump Tank Design Worksheet (Time Dose)



DETERMINE TANK CAPACITY AND DIMENSIONS				Project ID: _____	v 04.02.2019															
1.	A. Design Flow (Design Sum. 1A): 300 GPD C. 70% of Design Flow 210 Gal D. Min. required pump tank capacity: 500 Gal		B. Tank Use: Dosing E. Recommended capacity: 750 Gal																	
2.	A. Tank Manufacturer: Al's Concrete C. Capacity from manufacturer: 781 Gallons D. Gallons per inch: 16.6 Gallons per inch E. Liquid depth of tank from manufacturer: 47.0 inches		B. Tank Model: 2250 SSP	<i>Note: Design calculations are based on this specific tank. Substituting a different tank model will change the pump float or timer settings. Contact designer if changes are necessary.</i>																
DETERMINE DOSING VOLUME																				
3. Calculate Volume to Cover Pump (The Inlet of pump should be 4 in from the bottom of the tank & 2 inches of water covering the pump is recommended) (Pump and block height + 2 inches) X Gallons Per Inch (2D) (12 in + 2 inches) X 16.6 Gallons Per Inch = 232 Gallons																				
4. Minimum Delivered Volume = 4 X Volume of Distribution Piping: -Item 18 of the Pressure Distribution or Item 11 of Non-level 57 Gallons (minimum dose) 3.4 inches/dose																				
5. Calculate Maximum Pumpout Volume (25% of Design Flow) Design Flow: 300 GPD X 0.25 = 75 Gallons (maximum dose) 4.5 inches/dose																				
6. Select a pumpout volume that meets both Minimum and Maximum: 60 Gallons																				
7. Calculate Doses Per Day = Design Flow X 70% ÷ Delivered Volume 210 gpd ÷ 60 gal = 2.5 Doses																				
8. Calculate Drainback: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 35%;">A. Diameter of Supply Pipe =</td> <td style="width: 20%;">2 inches</td> <td style="width: 45%;"></td> </tr> <tr> <td>B. Length of Supply Pipe =</td> <td>100 feet</td> <td></td> </tr> <tr> <td>C. Volume of Liquid Per Lineal Foot of Pipe =</td> <td>0.170 Gallons/ft</td> <td></td> </tr> <tr> <td colspan="3">D. Drainback = Length of Supply Pipe X Volume of Liquid Per Lineal Foot of Pipe</td> </tr> <tr> <td>100 ft X 0.170 gal/ft =</td> <td>17.0 Gallons</td> <td></td> </tr> </table>						A. Diameter of Supply Pipe =	2 inches		B. Length of Supply Pipe =	100 feet		C. Volume of Liquid Per Lineal Foot of Pipe =	0.170 Gallons/ft		D. Drainback = Length of Supply Pipe X Volume of Liquid Per Lineal Foot of Pipe			100 ft X 0.170 gal/ft =	17.0 Gallons	
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D. Drainback = Length of Supply Pipe X Volume of Liquid Per Lineal Foot of Pipe																				
100 ft X 0.170 gal/ft =	17.0 Gallons																			
9. Total Dosing Volume = Delivered Volume plus Drainback 60 gal + 17.0 gal = 77 Gallons																				
10. Minimum Alarm Volume = Depth of alarm (2 or 3 inches) X gallons per inch of tank 3 in X 16.6 gal/in = 49.8 Gallons																				
				<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <caption>Volume of Liquid in Pipe</caption> <thead> <tr> <th>Pipe Diameter (inches)</th> <th>Liquid Per Foot (Gallons)</th> </tr> </thead> <tbody> <tr><td>1</td><td>0.045</td></tr> <tr><td>1.25</td><td>0.078</td></tr> <tr><td>1.5</td><td>0.110</td></tr> <tr><td>2</td><td>0.170</td></tr> <tr><td>3</td><td>0.380</td></tr> <tr><td>4</td><td>0.661</td></tr> </tbody> </table>		Pipe Diameter (inches)	Liquid Per Foot (Gallons)	1	0.045	1.25	0.078	1.5	0.110	2	0.170	3	0.380	4	0.661	
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2	0.170																			
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4	0.661																			
TIMER FLOAT SETTINGS*																				
11. Required Flow Rate: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 35%;">A. From Pump Curve - Must be Validated after Installation:</td> <td style="width: 20%;"> GPM</td> <td style="width: 45%;"></td> </tr> <tr> <td colspan="3">B. Calculated GPM = Change in Depth (in) x Gallons Per Inch / Time Interval in Minutes</td> </tr> <tr> <td> in X 16.6 gal/in ÷ min =</td> <td> GPM</td> <td></td> </tr> </table>						A. From Pump Curve - Must be Validated after Installation:	 GPM		B. Calculated GPM = Change in Depth (in) x Gallons Per Inch / Time Interval in Minutes			 in X 16.6 gal/in ÷ min =	 GPM							
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 in X 16.6 gal/in ÷ min =	 GPM																			
12. Select Flow Rate from Line 11.A or 11.B above: GPM*																				
13. Calculate TIMER ON setting: Total Dosing Volume x GPM 77 gal x gpm = #VALUE! Minutes ON*																				
14. Calculate TIMER OFF setting: Minutes Per Day (1440) / Doses Per Day - Minutes On 1440 min ÷ 2 doses/day - min = #VALUE! Minutes OFF*																				
15. Pump Off Float - Measuring from bottom of tank: Distance to set Pump Off Float = Gallons to Cover Pump / Gallons Per Inch: 232 gal ÷ 16.6 gal/in = 14.0 Inches																				
16. Alarm Float - Measuring from bottom of tank (90% recommended): Distance to set Alarm Float = Tank Depth X % of Tank Depth (0.9 recommended) 47.0 in X 0.9 = 42.3 in																				

**Note: This value must be adjusted after installation based on pump calibration.*

AL'S 2250 SSP

1500 2 Compartment Septic/Septic 750 Pump

1510 Gallon Septic/Septic Capacity 781 Gallon Pump Chamber

2291 Gallon Total Capacity

Depth of bury = 7ft

DIMENSIONS:

Length: 13'2"

Width: 7'0"

Height: 69"

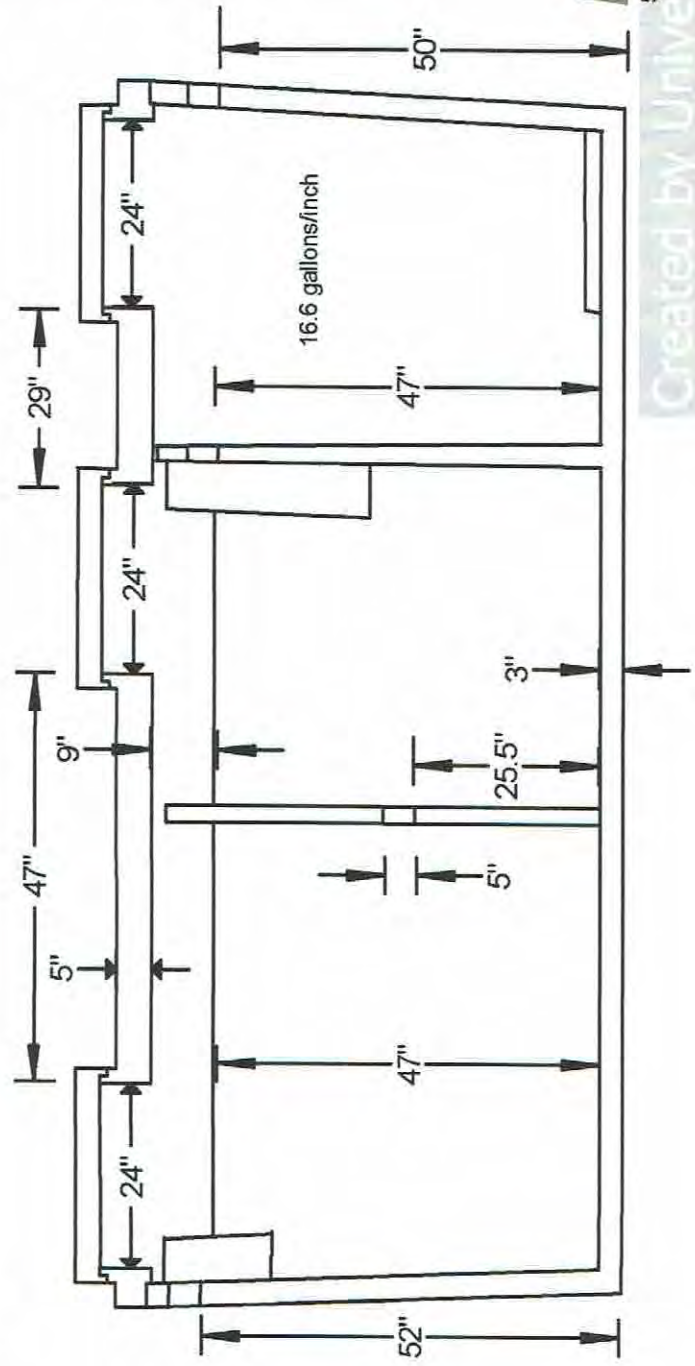
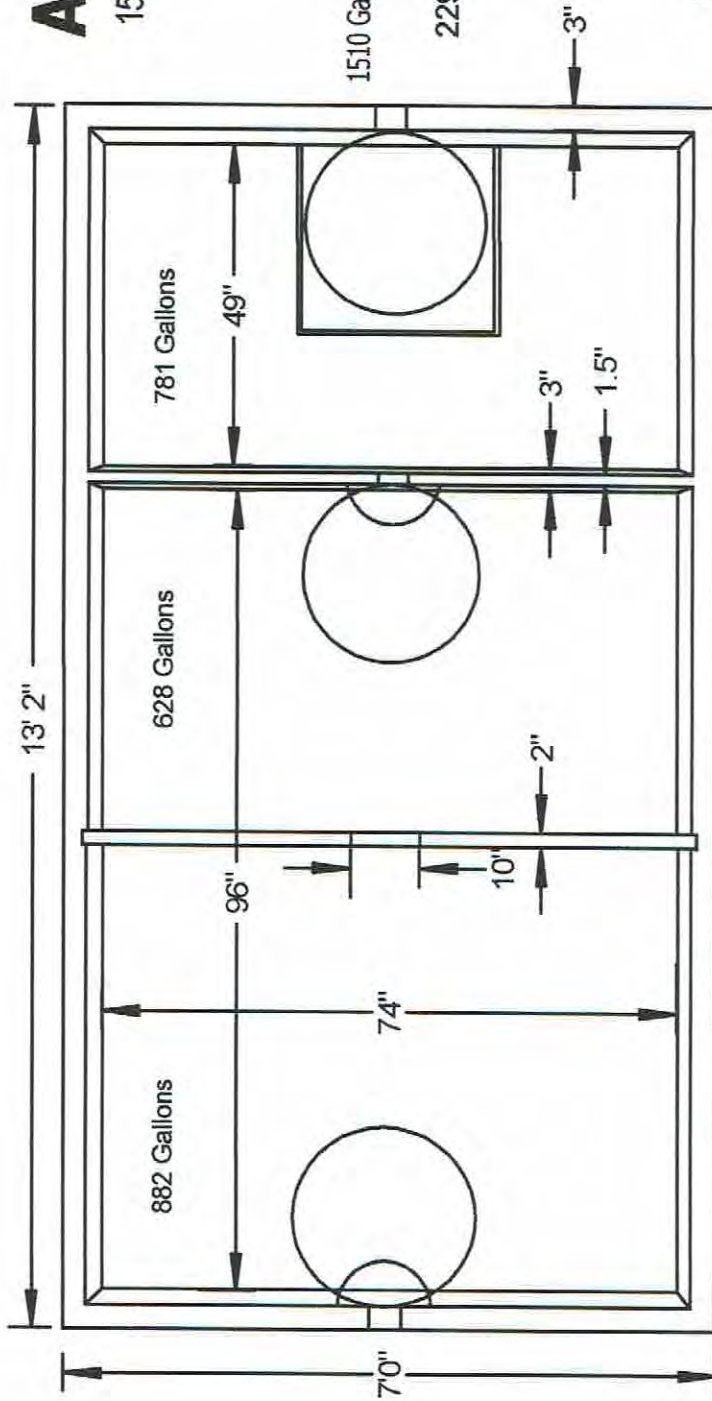
Below Inlet: 52"

Below Outlet: 50"

Tank Weight: 11582 lbs.

Cover Weight: 5808 lbs.

Total Weight: 17390 lbs.



AL'S Concrete Products, Inc.

800 Townhall Road . La Crescent, MN 55947

507-895-4509 1-800-982-9263 507-895-6805 Fax

www.alconcrete.com



Septic System Management Plan for Above Grade Systems

The goal of a septic system is to protect human health and the environment by properly treating wastewater before returning it to the environment. Your septic system is designed to kill harmful organisms and remove pollutants before the water is recycled back into our lakes, streams and groundwater.

This **management plan** will identify the operation and maintenance activities necessary to ensure long-term performance of your septic system. Some of these activities must be performed by you, the homeowner. Other tasks must be performed by a licensed septic maintainer or service provider. However, it is **YOUR** responsibility to make sure all tasks get accomplished in a timely manner.

The University of Minnesota's *Septic System Owner's Guide* contains additional tips and recommendations designed to extend the effective life of your system and save you money over time.

Proper septic system design, installation, operation and maintenance means safe and clean water!

Property Owner	Robert Strand	Email	duckrjs@charter.net
Property Address	23049 County Rd 15 Houston, MN 55943	Property ID	17.0343.003
System Designer	Chance Nelson	Contact Info	507-259-9940
System Installer		Contact Info	
Service Provider/Maintainer	A1 Precision Pumping INC	Contact Info	608-790-6615
Permitting Authority	Houston County Planning and Zoning	Contact Info	507-725-5800
Permit #		Date Inspected	

Keep this Management Plan with your Septic System Owner's Guide. The Septic System Owner's Guide includes a folder to hold maintenance records including pumping, inspection and evaluation reports. Ask your septic professional to also:

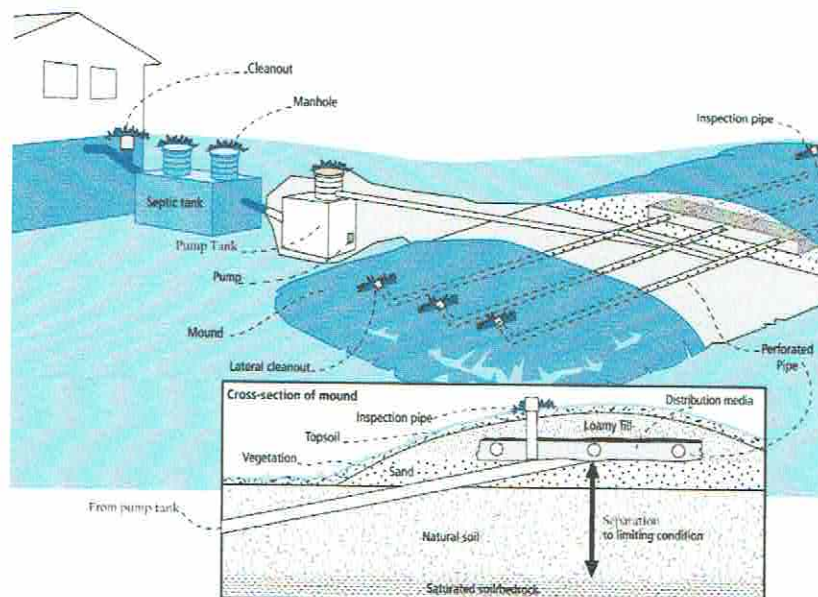
- Attach permit information, designer drawings and as-built of your system, if they are available.
- Keep copies of all pumping records and other maintenance and repair invoices with this document.
- Review this document with your maintenance professional at each visit; discuss any changes in product use, activities, or water-use appliances.

For a copy of the *Septic System Owner's Guide*, visit www.bookstores.umn.edu and search for the word "septic" or call 800-322-8642.

For more information see <http://septic.umn.edu>



Your Septic System



Septic System Specifics

System Type: ☒ I ☐ II ☐ III ☐ IV* ☐ V*

(Based on MN Rules Chapter 7080.2200 – 2400)

*Additional Management Plan required

☐ System is subject to operating permit*

☐ System uses UV disinfection unit*

Type of advanced treatment unit _____

Dwelling Type

Number of bedrooms: 2

System capacity/ design flow (gpd): 300

Anticipated average daily flow (gpd): 100

Comments _____

Business? : ☐ Y ☐ N What type? _____

Well Construction

Well depth (ft): Not yet drilled

☐ Cased well Casing depth: _____

☐ Other (specify): _____

Distance from septic (ft): _____

Is the well on the design drawing? ☐ Y ☒ N

Septic Tank

☐ First tank Tank volume: 1500 gallons

Does tank have two compartments? ☒ Y ☐ N

☐ Second tank Tank volume: _____ gallons

☐ Tank is constructed of Concrete

☐ Effluent screen: ☒ Y ☐ N Alarm ☒ Y ☐ N

☐ Pump Tank 781 gallons

☐ Effluent Pump make/model: _____

Pump capacity 27 GPM

TDH 29.4 Feet of head

☐ Alarm location _____

Soil Treatment Area (STA)

Mound/At-Grade area (width x length): 40 ft x 57 ft

Rock bed size (width x length): 9 ft x 30 ft

Location of additional STA: available but limited

Type of distribution media: EZ Flo or Equivalent

☒ Inspection ports ☒ Cleanouts

☐ Surface water diversions

☐ Additional STA not available



Homeowner Management Tasks

These operation and maintenance activities are your responsibility. Chart on page 6 can help track your activities.

Your toilet is not a garbage can. Do not flush anything besides human waste and toilet paper. No wet wipes, cigarette butts, disposal diapers, used medicine, feminine products or other trash!

The system and septic tanks needs to be
checked every 24 -36 months

Your service provider or pumper/maintainer should evaluate if your tank needs to be pumped more or less often.

Seasonally or several times per year

- *Leaks.* Check (listen, look) for leaks in toilets and dripping faucets. Repair leaks promptly.
- *Soil treatment area.* Regularly check for wet or spongy soil around your soil treatment area. If surfaced sewage or strong odors are not corrected by pumping the tank or fixing broken caps and leaks, call your service professional. *Untreated sewage may make humans and animals sick.* Keep bikes, snowmobiles and other traffic off and control borrowing animals.
- *Alarms.* Alarms signal when there is a problem; contact your service professional any time the alarm signals.
- *Lint filter.* If you have a lint filter, check for lint buildup and clean when necessary. If you do not have one, consider adding one after washing machine.
- *Effluent screen.* If you do not have one, consider having one installed the next time the tank is cleaned along with an alarm.

Annually

- *Water usage rate.* A water meter or another device can be used to monitor your average daily water use. Compare your water usage rate to the design flow of your system (listed on the next page). Contact your septic professional if your average daily flow over the course of a month exceeds 70% of the design flow for your system.
- *Caps.* Make sure that all caps and lids are intact and in place. Inspect for damaged caps at least every fall. Fix or replace damaged caps before winter to help prevent freezing issues.
- *Water conditioning devices.* See Page 5 for a list of devices. When possible, program the recharge frequency based on *water demand (gallons)* rather than *time (days)*. Recharging too frequently may negatively impact your septic system. Consider updating to demand operation if your system currently uses time,
- *Review your water usage rate.* Review the Water Use Appliance chart on Page 5. Discuss any major changes with your service provider or pumper/maintainer.

During each visit by a service provider or pumper/maintainer

- Make sure that your service professional services the tank through the manhole. (NOT though a 4" or 6" diameter inspection port.)
- Ask how full your tank was with sludge and scum to determine if your service interval is appropriate.
- Ask your pumper/maintainer to accomplish the tasks listed on the Professional Tasks on Page 4.



Professional Management Tasks

These are the operation and maintenance activities that a pumper/maintainer performs to help ensure long-term performance of your system. At each visit a written report/record must be provided to homeowner.

Plumbing/Source of Wastewater

- Review the Water Use Appliance Chart on Page 5 with homeowner. Discuss any changes in water use and the impact those changes may have on the septic system.
- Review water usage rates (if available) with homeowner.

Septic Tank/Pump Tanks

- *Manhole lid.* A riser is recommended if the lid is not accessible from the ground surface. Insulate the riser cover for frost protection.
- *Liquid level.* Check to make sure the tank is not leaking. The liquid level should be level with the bottom of the outlet pipe. (If the water level is below the bottom of the outlet pipe, the tank may not be watertight. If the water level is higher than the bottom of the outlet pipe of the tank, the effluent screen may need cleaning, or there may be ponding in the soil treatment area.)
- *Inspection pipes.* Replace damaged or missing pipes and caps.
- *Baffles.* Check to make sure they are in place and attached, and that inlet/outlet baffles are clear of buildup or obstructions.
- *Effluent screen.* Check to make sure it is in place; clean per manufacturer recommendation. Recommend retrofitted installation if one is not present.
- *Alarm.* Verify that the alarm works.
- *Scum and sludge.* Measure scum and sludge in each compartment of each septic and pump tank, pump if needed.

Pump

- *Pump and controls.* Check to make sure the pump and controls are operating correctly.
- *Pump vault.* Check to make sure it is in place; clean per manufacturer recommendations.
- *Alarm.* Verify that the alarm works.
- *Drainback.* Check to make sure it is draining properly.
- *Event counter or elapsed time meter.* Check to see if there is an event counter or elapsed time meter for the pump. If there is one or both, calculate the water usage rate and compare to the anticipated use listed on Design and Page 2. Dose Volume: _____ gallons: Pump run time: _____ Minutes

Soil Treatment Area

- *Inspection pipes.* Check to make sure they are properly capped. Replace caps and pipes that are damaged.
- *Surfacing of effluent.* Check for surfacing effluent or other signs of problems.
- *Lateral flushing.* Check lateral distribution; if cleanouts exist, flush and clean at recommended frequency.
- *Vegetation* - Check to see that a good growth of vegetation is covering the system.

All other components – evaluate as listed here:



Water-Use Appliances and Equipment in the Home

Appliance	Impacts on System	Management Tips
Garbage disposal	<ul style="list-style-type: none"> • Uses additional water. • Adds solids to the tank. • Finely-ground solids may not settle. Unsettled solids can exit the tank and enter the soil treatment area. 	<ul style="list-style-type: none"> • Use of a garbage disposal is not recommended. • Minimize garbage disposal use. Compost instead. • To prevent solids from exiting the tank, have your tank pumped more frequently. • Add an effluent screen to your tank.
Washing machine	<ul style="list-style-type: none"> • Washing several loads on one day uses a lot of water and may overload your system. • Overloading your system may prevent solids from settling out in the tank. Unsettled solids can exit the tank and enter the soil treatment area. 	<ul style="list-style-type: none"> • Choose a front-loader or water-saving top-loader, these units use less water than older models. • Limit the addition of extra solids to your tank by using liquid or easily biodegradable detergents. Limit use of bleach-based detergents and fabric softeners. • Install a lint filter after the washer and an effluent screen to your tank • Wash only full loads and think even – spread your laundry loads throughout the week.
Dishwasher	<ul style="list-style-type: none"> • Powdered and/or high-phosphorus detergents can negatively impact the performance of your tank and soil treatment area. • New models promote “no scraping”. They have a garbage disposal inside. 	<ul style="list-style-type: none"> • Use gel detergents. Powdered detergents may add solids to the tank. • Use detergents that are low or no-phosphorus. • Wash only full loads. • Scrape your dishes anyways to keep undigested solids out of your septic system.
Grinder pump (in home)	<ul style="list-style-type: none"> • Finely-ground solids may not settle. Unsettled solids can exit the tank and enter the soil treatment area. 	<ul style="list-style-type: none"> • Expand septic tank capacity by a factor of 1.5. • Include pump monitoring in your maintenance schedule to ensure that it is working properly. • Add an effluent screen.
Large bathtub (whirlpool)	<ul style="list-style-type: none"> • Large volume of water may overload your system. • Heavy use of bath oils and soaps can impact biological activity in your tank and soil treatment area. 	<ul style="list-style-type: none"> • Avoid using other water-use appliances at the same time. For example, don’t wash clothes and take a bath at the same time. • Use oils, soaps, and cleaners in the bath or shower sparingly.
Clean Water Uses	Impacts on System	Management Tips
High-efficiency furnace	<ul style="list-style-type: none"> • Drip may result in frozen pipes during cold weather. 	<ul style="list-style-type: none"> • Re-route water directly out of the house. Do not route furnace discharge to your septic system.
Water softener Iron filter Reverse osmosis	<ul style="list-style-type: none"> • Salt in recharge water may affect system performance. • Recharge water may hydraulically overload the system. 	<ul style="list-style-type: none"> • These sources produce water that is not sewage and should not go into your septic system. • Reroute water from these sources to another outlet, such as a dry well, drain tile or old drainfield.
Surface drainage Footing drains	<ul style="list-style-type: none"> • Water from these sources will overload the system and is prohibited from entering septic system. 	<ul style="list-style-type: none"> • When replacing, consider using a demand-based recharge vs. a time-based recharge. • Check valves to ensure proper operation; have unit serviced per manufacturer directions

Septic System DOs and DON'Ts

A quick reference guide to extend the life of your septic system

A properly constructed and maintained system can last a long time if you follow some common septic system DO's and DON'Ts:

- ✓ **DO** conserve water and fix leaks quickly. Installing high efficiency appliances, such as washers and low-flow toilets, can extend the life of your system while leaky faucets can limit your system's capacity.
- ✓ **DO** have your septic tank routinely serviced as specified by a licensed professional.
- ✓ **DO** regularly check the condition of your septic system and any access covers. Unsecured, or unsafe, lids may allow children or pets to fall into a septic tank, and can be fatal.
- ✓ **DO** try to keep your septic tank cover accessible for inspections and pumping. You may wish to install septic tank risers to avoid having to disturb your lawn for every maintenance event.
- ✓ **DO** keep records of repairs, pumping, inspections, permits issued, and other SSTs maintenance activities.
- ✓ **DO** identify the location of your septic tank and drainfield. A sketch or map allows easier navigation to septic system components.
- ✓ **DO** divert water sources such as roof drains, house footing drains, and sump pumps away from the septic system. These water sources should not be placed in or on top of your system. Excessive water can cause back-ups and premature system failure.
- ✓ **DO** call a licensed professional if you ever experience problems with your system, or if there are any signs of system failure.

✗ **DON'T flush the following items:**

- Lint or clothing fibers
- Diapers
- Cigarette butts
- Facial tissue
- Condoms
- Feminine hygiene products
- Unused medications
- Paint or solvents
- Flammable material
- Coffee grounds
- Cat litter
- Cooking oils and grease
- "Flushable" wipes or paper towels

These items will shorten the life of your system and may cause issues such as component failure, or sewage backup into your yard or home. **ONLY** human waste and toilet paper should ever be flushed.

- ✗ **DON'T** drive over, or park anything on, the septic tank or drainfield. This can limit system life and cause damage.
- ✗ **DON'T** plant deep rooted plants over or near the drainfield. Roots from trees or shrubs may clog and damage drain lines.
- ✗ **DON'T** dig in, or build anything on top of your drainfield.
- ✗ **DON'T** make, or allow, repairs to your septic system without obtaining the required local permits and required professional assistance.
- ✗ **DON'T** enter your septic tank. Working in and around a septic tank is dangerous and gases generated in the tank could be fatal.

Onsite Sewage Treatment Program

Freezing Problems and Septic Systems

Why Might an Onsite System Freeze?

According to many onsite professionals, a winter of cold temperatures and little snow cover can cause freezing of onsite systems. Even in a normal Minnesota winter, freezing can occasionally be a problem. Identifying and correcting a potential freezing problem is far easier than dealing with a frozen system. Here are a few common causes of onsite system freeze-ups.

Lack of Snow Cover:

Snow serves as an insulating blanket over the septic tank(s) and soil treatment area (trenches, drainfield or mound). Snow helps keep the heat of the sewage and the geothermal heat from deep soil layers. Lack of snow allows frost to go deeper into the ground, potentially freezing the system.

Compacted Snow:

Compacted snow will not insulate as well as uncompacted snow. Driving any type of equipment over the system compacts snow and sends the frost down deeper. Automobiles, snowmobiles, ATV's, foot-traffic, and livestock should stay off the system all year long but especially in the winter. Any time traffic over a sewer pipe, septic tank, or soil treatment area is anticipated, insulated pipe should be used.

Compacted Soils:

Areas that have compacted soils such as driveways, paths or livestock enclosures tend to freeze deeper, affecting septic system components that may be in the area.

Lack of Plant Cover:

This often occurs in new systems installed late in the year where a vegetative cover could not be established before winter. The vegetative cover insulates the system and helps hold snow.

Irregular Use of System:

When homes or cabins are unoccupied for long weekends or extended periods of time, no sewage is entering the system to maintain sufficient temperatures to avoid freezing. This can also occur when very low volumes of sewage are being generated. In cases when only one or two people are living in a home, they may use only a small percentage of the designed flow for the system. This low usage may not be sufficient to keep the system from freezing. Frequent use, warmer water temperatures and greater water use are all important in cold temperature stress situations.

Leaking Plumbing Fixtures and Furnace Drips:

When a fixture such as a toilet or showerhead leaks, it sends a small trickle of water to the system. The slow moving and thin film of water form caused by trickle flow can freeze within the pipe and eventually cause the pipe to freeze solid. Appliances such as high efficiency furnaces and humidifiers can also cause water to freeze in the pipes due to the small amount they discharge.

Pipes Not Draining Properly:

A common cause of freeze-ups are sewer pipes and pump lines that are not installed with proper fall (change of elevation), or pipes that settle or sag after installation. Any time a dip or low spot occurs in a pipe, sewage can collect and freeze. Pump lines can develop a dip right next to or above the septic tank as a result of backfilled soil settling from the excavation during the tank installation. All sewage needs to drain out of the pipe from a pump line.

Cold Air Entering the System:

Open, broken and uncapped riser or inspection pipes and manhole covers allow cold air into the system and can cause the system to freeze.

Water Logged System:

If a system was hydraulically failing (e.g. water coming to surface or seeping out the side of a mound) it is a prime candidate to freeze. This effluent will freeze and prevent further effluent from entering the soil.

What Should You Do If Your Onsite System Freezes

If your septic system is frozen, your first step is to call an onsite professional. Unless the cause of freezing is corrected the system will refreeze next winter. If you have a pump and hear water constantly running in a pump tank (a possible indication of a frozen system) shut off your pump and call an onsite professional. This will likely be a pumper or an installer who can help determine the cause of the problem and offer solutions. The University of Minnesota Onsite Program web site is one place to go to locate a professional. Many pumpers and installers have devices called steamers and high-pressure jetters to try to unfreeze system piping. Other methods used to help fix a freezing problem include adding heat tape and tank heaters. Cameras can be sent down the pipes to determine where the freezing is occurring and if repairs are needed. If the soil treatment system is full of ice, or there is evidence of leaking, there is no need to thaw the lines leading to the treatment area, as it cannot accept liquid until the area is thawed in spring.

If it is not feasible to correct the problem or equipment is not available in your area, the only other option is to use the septic tank(s) in the system as a holding tank until the system thaws naturally. You will need to contact a pumper who will empty out the tanks when they are full on a regular basis. This can be very costly, especially with normal volumes of water use (50 to 75 gallons per person per day). Reduce water use by limiting the number of toilet flushes, taking short showers, using the dishwasher at full capacity, limiting running water to get hot or cold and doing laundry at a laundromat. It is smart to find the cause of the freezing problem so that it can be addressed in the spring, preventing future freeze-ups. Then preventative measures can be added to the system such as adding insulation around the tank and pipes or adding additional cover.

There are many misconceptions about how to deal with a frozen onsite system.

- Do NOT add antifreeze, salt or a septic system additive into the system.
- Do NOT pump sewage onto the ground surface.
- Do NOT start a fire over the system to attempt to thaw it out.
- Do NOT run water continually to try to unfreeze system.

What Can You Do to Prevent Your Onsite System From Freezing in the Future

Depending on your system, location, and water use, you may never have a freezing problem. However, there are several steps that you can take if you are concerned about your onsite system freezing. Here are some precautions if you have had a past problem or are concerned about having a future problem. It is not necessary to do all of these, but you may pick and choose based on your situation:

1. Place a layer of mulch (8-12 inches) over the pipes, tank and soil treatment system to provide extra insulation. This mulch could be straw, leaves, hay or any other loose material that will not

compact and stay in place. This is particularly important if you have had a new system installed late in the year and no vegetative cover has been established. If your system is currently frozen ignore this step, as it will delay thawing come spring.

2. Let the grass in your lawn get a little longer in the late summer/fall over the tank and soil treatment area. This will provide extra insulation and help hold any snow that may fall.
3. Use water; the warmer the better if you feel the system is starting to freeze. The Onsite Sewage Treatment Program is usually an advocate of water conservation, but if freezing is a concern, increasing low use to a normal water use can help the system. This includes spreading out your laundry schedule to possibly doing one warm/hot load per day, using your dishwasher and maybe even taking a hot bath. DO NOT leave water running all the time, as this will hydraulically overload the system.
4. If you know you are going to be gone for an extended period, plan accordingly. This could include having someone use sufficient quantities of water in the home regularly or pumping out your tank before leaving. If you live in an area with a high water table, you should only pump out the tank if the tank was designed for high water table conditions. If a tank is left full for several winter months, the sewage will get very cold in shallow tanks and can even freeze. If you then return home before temperatures start to rise, the effluent leaving the tank will be cold. By starting with an empty tank, you can then start fresh with warm effluent. If you use a cabin on a limited basis during the winter months, this may be a good idea as well.
5. Fix any leaky plumbing fixtures or appliances in your home. This will help prevent freezing problems and help your system work better year round.
6. If you have appliances that generate very low flows such as high efficiency furnaces, you can put a heat tape in the pipe, and while on vacation have someone come by and run warm water for a while. Alternately, you could install a small condensate pump that holds and discharges 2 gallons per cycle.
7. Keep all types of vehicles and high traffic people activities off of the system. This is a good rule to follow year round.
8. Make sure all risers; inspections pipes and manholes have covers on them. Sealing them and adding insulation is a good idea. Insulation may be added during construction particularly if the top of the septic tank is within 2 feet of the surface.
9. Keep an eye on your system. If any seeping or ponding occurs contact an onsite professional to help determine the cause and remedy.
10. Add more insulation to your system. This could include replacing pipe with insulated pipe, adding styrofoam over septic tanks or adding more soil cover.



Homeowner Maintenance Log

Track maintenance activities here for easy reference. See list of management tasks on pages 3 and 4.

Activity	Date accomplished									
<i>Check frequently:</i>										
Leaks: check for plumbing leaks*										
Soil treatment area check for surfacing**										
Lint filter: check, clean if needed*										
Effluent screen (if owner-maintained)***										
Alarm**										
<i>Check annually:</i>										
Water usage rate (maximum gpd _____)										
Caps: inspect, replace if needed										
Water use appliances – review use										
Other:										

*Monthly

**Quarterly

***Bi-Annually

Notes:

"As the owner of this SSTS, I understand it is my responsibility to properly operate and maintain the sewage treatment system on this property, utilizing the Management Plan. If requirements in this Management Plan are not met, I will promptly notify the permitting authority and take necessary corrective actions. If I have a new system, I agree to adequately protect the reserve area for future use as a soil treatment system."

Property Owner Signature: _____

Date _____

Management Plan Prepared By: **Chance Nelson**

Certification # **9386**

Permitting Authority: **Houston County Planning and Zoning**

CRITERIA FOR GRANTING CONDITIONAL USE PERMITS

NAME OF APPLICANT: **Robert and Heather Strand** DATE: **July 25, 2019**
C.U.P. REQUESTED: **Build a dwelling in an Agricultural Protection District.**

The Planning Commission shall not recommend a conditional use permit unless they find the following:

FINDINGS OF FACT

Section 11.5 of the Houston County Zoning Ordinance requires the following:

(SA = Staff Analysis)

Subdivision 1. Findings. The Planning Commission shall not recommend a conditional use permit unless they find the following:

1. That the proposed use conforms to the County Land Use Plan.

Staff Analysis: The proposal satisfies the all ordinance requirements applicable to non-farm dwellings.

Bob Conway – Yes, Agrees with SA.
Larry Hafner – Yes
Edward Hammell – Yes
Rich Schild – Yes
Jim Wieser – Yes
Bob Burns – Yes, Agrees with SA.

2. That the applicant demonstrates a need for the proposed use.

Staff Analysis: The applicants have elected to live in Houston County and will require housing.

Bob Conway – Yes
Larry Hafner – Yes, Agrees with SA, township encourages people to build in township.
Edward Hammell – Yes
Rich Schild – Yes
Jim Wieser – Yes
Bob Burns – Yes, Agrees with SA, agrees with Larry.

3. That the proposed use will not degrade the water quality of the County.

Staff Analysis: Wastewater is a potential pollutant associated with any dwelling. The applicants will install an onsite sewage treatment system meeting all applicable standards. No other impacts are anticipated.

Bob Conway – Yes
Larry Hafner – Yes, Agrees with SA.
Edward Hammell – Yes, Looked at proposal, did their homework.
Rich Schild – Yes, Agrees with SA.
Jim Wieser – Yes, Agrees with Ed.
Bob Burns – Yes

4. That the proposed use will not adversely increase the quantity of water runoff.

Staff Analysis: An erosion control plan will be required with the application for a zoning permit, which will address post construction site drainage. The effects of increased runoff due to impervious surfaces (e.g. roof, driveway) are estimated to be negligible. The field downslope provides ample buffer and infiltration area between the house and the creek.

Bob Conway – Yes

Larry Hafner – Yes, Agrees with SA, will have erosion control plan.

Edward Hammell – Yes

Rich Schild – Yes, Agrees with SA.

Jim Wieser – Yes, Agrees with SA.

Bob Burns – Yes, Agrees with SA, relatively small structure, small increase in runoff.

5. That soil conditions are adequate to accommodate the proposed use.

Staff Analysis: The soil survey indicates ground slope to be the primary challenge for construction at the location. The applicants proposed a walkout style structure, designed to complement the existing slopes.

Bob Conway – Yes, Footing will be incorporated.

Larry Hafner – Yes, Agrees with SA.

Edward Hammell – Yes

Rich Schild – Yes

Jim Wieser – Yes, Meets ordinance requirements.

Bob Burns – Yes, Agrees with Bob C.

6. That potential pollution hazards been addressed and that standards have been met.

Staff Analysis: Wastewater and erosion are two potential hazards. Both will be mitigated to an acceptable extent for the reasons stated in findings 3 and 4.

Bob Conway – Yes, Agrees with SA.

Larry Hafner – Yes, Agrees with SA.

Edward Hammell – Yes, Agrees with SA.

Rich Schild – Yes, Agrees with SA.

Jim Wieser – Yes, Agrees with SA.

Bob Burns – Yes, Agrees with SA.

7. That adequate utilities, access roads, drainage and other necessary facilities have been or are being provided.

Staff Analysis: A septic design has been completed. A connection to the county road was approved in 2012 (DW2012-01). The placement of a house on the site is not thought to create drainage problems.

Bob Conway – Yes, Agrees with SA.

Larry Hafner – Yes, Agrees with Bob B.

Edward Hammell – Yes

Rich Schild – Yes

Jim Wieser – Yes, Agrees with SA.

Bob Burns – Yes, Agrees with SA, drive area is already in place.

8. That adequate measures have been or will be taken to provide sufficient off-street parking and loading space to serve the proposed use.

Staff Analysis: NA

9. That facilities are provided to eliminate any traffic congestion or traffic hazard which may result from the proposed use.

Staff Analysis: NA

10. That the Conditional Use will not be injurious to the use and enjoyment of other property in the immediate vicinity for the purposes already permitted.

Staff Analysis: No impacts on permitted uses on neighboring properties are anticipated, and no comments were received from property owners on the application.

Bob Conway – Yes, Agrees with SA.

Larry Hafner – Yes, Discussion of Ag practices makes applicants aware of Ag district.

Edward Hammell – Yes, Agrees with Larry.

Rich Schild – Yes, Township board encouraged building in general.

Jim Wieser – Yes, Agrees with SA.

Bob Burns – Yes

11. That the establishment of the Conditional Use will not impede the normal and orderly development and improvement of surrounding vacant property for predominant uses in the area.

Staff Analysis: Granting the permit will close the SE SE quarter quarter in due to the dwelling density policy. All remaining property in the SE SE is owned by the MNDNR, an entity whose predominant uses does not include dwellings.

Bob Conway – Yes, Agrees with SA.

Larry Hafner – Yes, Agrees with SA.

Edward Hammell – Yes, Agrees with SA.

Rich Schild – Yes, Agrees with SA.

Jim Wieser – Yes, Agrees with SA.

Bob Burns – Yes, Agrees with SA, falls within all county ordinance requirements for situation.

12. That adequate measures have been or will be taken to prevent or control offensive odor, fumes, dust, noise and vibration, so that none of these will constitute a nuisance, and to control lighted signs and other lights in such a manner that no disturbance to neighboring properties will result.

Staff Analysis: NA

13. That the density of any proposed residential development is not greater than the density of the surrounding neighborhood or not greater than the density indicated by the applicable Zoning District.

Staff Analysis: The application conforms to the one dwelling per quarter quarter density limitation.

Bob Conway – Yes, Agrees with SA.

Larry Hafner – Yes, Agrees with SA.

Edward Hammell – Yes, Agrees with SA.

Rich Schild – Yes, Agrees with SA.

Jim Wieser – Yes, Agrees with SA.

Bob Burns – Yes, Agrees with SA.

14. That the intensity of any proposed commercial or industrial development is not greater than the intensity of the surrounding uses or not greater than the intensity characteristic of the applicable Zoning District.

Staff Analysis: NA

15. That site specific conditions and such other conditions are established as required for the protection of the public's health, safety, morals, and general welfare.

Staff Analysis: The addition of a house is not anticipated to have any effect on the public's health, safety, morals, and general welfare.

Bob Conway – Yes, Agrees with SA.

Larry Hafner – Yes, Agrees with SA.

Edward Hammell – Yes, Agrees with SA.

Rich Schild – Yes, Agrees with SA.

Jim Wieser – Yes, Agrees with SA.

Bob Burns – Yes, Agrees with SA.

Larry Hafner made the motion to recommend the Houston County Board approve the Conditional Use application based on the condition below. Bob Burns seconded. Motion carried. The Findings will be submitted to the Houston County Board of Commissioners for their review.

CONDITIONS:

1. The Permittee shall comply with all federal, state, and local laws and regulations.

HOUSTON COUNTY TOWNSHIP OFFICERS ASSOCIATION ANNUAL DINNER MEETING

COUNTY OFFICIALS

The Annual Dinner Meeting for all Township Officers, County Commissioners, Department Heads, Legislators, and Guests will be Wednesday, September 11th 2019 at the Four Seasons, Caledonia, MN.

Spouses or significant others are encouraged to come. Registration will start at 6:00 pm and dinner to follow at 7:00 pm.

It is a good time to visit and socialize with your fellow officers, and friends. Door prizes will be awarded.

The cost for the dinner is \$20.00 per person.

I would like a RSVP by Wednesday, September 4th to aid us in planning the meal.

I hope you can join us this year.

Sincerely,

Richard Nelson,

Secretary

RSVP to Richard Nelson 507-896-3775 or e-mail shorty-63@hotmail.com

From: [State Demographic Center](#)
To: [Jeff Babinski](#)
Subject: Census Bureau to begin address canvassing soon
Date: Monday, August 5, 2019 7:59:03 AM

MN 2020 Census logo



Greetings!

We are reaching out to let you know that the U.S. Census Bureau is soon to begin the next step in making sure Minnesota gets a complete count in the 2020 Census. Address canvassing by Census Bureau workers is set to begin next week.

What is address canvassing?

Address canvassing is the process by which the U.S. Census Bureau validates, corrects, or deletes existing Census Bureau addresses, adds missing addresses, and adds or corrects locations of specific addresses before a decennial census. In previous address canvassing operations, field representatives traversed every road and visited each residential address in the United States. At this time, only select addresses will be canvassed. Census Bureau employees will not be asking for information about individuals but rather about addresses and habitable locations.

How to verify employment

We realize that Census workers may draw the attention of residents or law enforcement personnel who are concerned about the presence of strangers in their neighborhoods. Please share the information below with public safety officials in case a need arises to verify the employment of a Census worker.

Each temporary decennial Census employee will have an official identification card with the employees name, picture, and an expiration date. Regional level staff can be identified by their Personal Identity Verification (PIV) Card. Both temporary and regional level staff can be identified by their laptop computer with a Census Bureau logo on the top, and a black canvas bag with a Census Bureau logo.

TO VERIFY AN EMPLOYEE WITH THIS TYPE OF ID:

Chicago Regional Census Center
175 West Jackson Blvd., Suite 600
Chicago, IL 60604
1-312-579-1500

Thank you,

Minnesota State Demographic Center

Stay Connected with the Minnesota State Demographic Center:



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This email was sent to jeff.babinski@co.houston.mn.us using GovDelivery Communications Cloud on behalf of: Minnesota Department of Administration · 200 Administration Building 50 Sherburne Avenue · St. Paul, MN 55155



Houston County Agenda Request Form

This form is not intended for the general public. It is intended for use by county department heads, representatives of other governmental units or vendors/agencies who contract with Houston County. Members of the public may address the Board during the Public Comment Period. (See Policy for Public Comment Period).

Date Submitted: 8/5/19

Person requesting appointment with County Board: Aaron Lacher

Will you be doing a power point or video presentation: Yes x No

Issue: Purchase of three replacement cover top containers.

Attachments/Documentation for the Board's Review: Quotes from three manufacturers.

Justification:

Environmental Services requests approval to purchase three cover-top roll-off containers from Nedland Industries at a cost of \$18,085. These containers are used to collect glass, plastic, tin, and paper at the drop sites, and will replace worn containers. Three quotes were obtained:

Nedland Industries	\$18,085
Crysteel Industries	\$21,300
LAX Fabricating	\$27,600

The County has several containers made by Nedland in service, and has been satisfied with their quality. This expenditure was budgeted for (392...6610).

Action Requested: Approval to purchase three containers from Nedland Industries for \$18,085.

For County Use Only

Reviewed by:

County Auditor
Finance Director
IS Director

County Attorney
County Engineer
Other (indicate dept) _____

Zoning/Environmental Service
HR/Personnel

Recommendation:

Decision:

All agenda request forms must be submitted to the County Auditor by 4:00 p.m. on Monday in order to be considered for inclusion on the following week's agenda. The Board will review all requests and schedule appointments as appropriate.



QUALITY PRODUCTS SINCE 1945
Roll Offs • Compactors • Front and Rear Loads • Poly Dura Kans



Quotation

For: Houston County
304 South Marshall Street, Room 202
Caledonia, MN 55921

Inquiry # 5077255800
Fax # 5077255590
Date: 5/21/2019

Attn: Julie Amundson
julie.amundson@co.houston.mn.us
We are pleased to quote your inquiry as follows

Terms Net 30 Days

Quote is delivered to
Caledonia, MN

<u>Qty</u>	<u>Description</u>	<u>Price</u>	<u>Amount</u>
3	14' Dropbox roll off container two compartment, 122" front compartment, 46" second rear compartment all rear discharge with four 24" x 27" feed openings per side with poly lids and single side lid lock bar, 14' Long x 101" wide 60" wall height with 38" wall to start of side angle, 4" mail rails to fit Multi Lift HL5 hook lift roll off system. Any standard color.	\$5,695.00	\$17,085.00

**Julie: to order please sign and fax back
to 715-949-1983 with P.O.**

Approx lead time 10-12 weeks, approx freight \$1,000.00

Plus any applicable taxes.

Total	\$18,085.00
--------------	--------------------

Quoted by: David A. Nedland

Web site links below.

<http://www.nedland.com/products/rolloff-containers/recycling-rolloffs/>
<http://www.nedland.com/media/docs/new-steel-warranty.pdf>

Mailing address:
P.O. Box 217
Ridgeland, Wisconsin 54763

Delivery address:
315 Railroad Street
Ridgeland, Wisconsin 54763

Email: dave@nedland.com
(715) 949-1982

www.nedland.com
(800) 447-4925

www.ezrolloff.com
Fax (715) 949-1983

LaX Fabricating LTD



Spring Grove MN USA

700 E Main St. Phone: (507) 498-6000
Spring Grove, MN. 55974 FAX: (866) 223-6352

July 31, 2019

LAX Job# 19252-00

Attn: Julie Amundson – Houston Co Solid Waste Coordinator:

I would like to personally thank you for taking the time to review LaX Fabricating LTD's quote for the steel Recycle Containers. If there appears to be anything that we've included that should not be included, or if we've excluded something that you would like to be included, please be sure to let us know and we will be happy to supply you with updated prices. We look forward to working with you on this and many more projects in the future, and appreciate any assistance that you can extend to us to ensure that we provide a complete price quote on the material you are looking for.

RE: Recycle Containers:

A. SCOPE OF WORK:

LaX Fabricating LTD proposes to supply all shop labor and material to fabricate the steel.

B. PRICE:

- Base Bid (3) containers \$9,200 each..... \$27,600.00
No Sales Tax Included. FOB – LaX Fabricating Spring Grove, MN.

Above Includes:

1. Three (3) Recycle containers,
 - Enclosed container 14 feet long,
 - Pitched roof with access doors on both sides,
 - Hook on one end for truck pickup and a set of roller wheels on back end,
 - End door for emptying the container,
 - Interior divider wall to separate paper from other products,
2. Single coat of standard Blue top coat,,
3. Detailing,

Above Excludes:

1. Delivery,
 2. Sales tax,
 3. Engineering/seal,
 4. Liquidated damages/retention,
 5. Back charges without prior written authorization,
 6. Any and all exotic or special paints,
 7. Materials not indicated on as included above,
- Bid good after 0 addenda. Price is based on review of drawings. Price may vary based on differences between bid and actual construction drawings.

C. DELIVERY

Shipping terms are FOB – LaX Fabricating, Spring Grove, MN.

Final delivery will be negotiated when order/contract is issued. This bid is based on shipping full truck in a timely manner. LaX Fabricating LTD estimates this job will require 3 truck(s) to meet schedule.

D. TERMS

Per LAX Fabricating LTD Standard Terms and Conditions. These will be provided with the schedule of values upon award of contract. Invoice is due N/10.

This proposal is based on a mutual agreement regarding contract language of any resulting purchase order and / or sub contract.

Any exceptions must be submitted to LaX Fabricating LTD, in writing, for our authorization.

E. QUALIFICATIONS

Bid price is based on the assumption members shown on bid drawings have been sized for all design loads. Any increase in final tonnages, over the estimated tonnages is subject to equitable adjustment in LaX contract value. Base price is based on material availability, such as buyouts, and their available production schedules. Bid price is based on assumption that all lintels not specifically shown are bond beam; by others.

F. PRICE GUARANTEE

Prices will remain firm for Fifteen (15) calendar days from the date of this Bid. After these fifteen days, please call for any material price fluctuations.

Our proposal is based on current day pricing and availability of materials and bought out items. Any change in material or bought out item pricing will require an equivalent adjustment to our pricing.

LaX Fabricating LTD appreciates your business. If there are any questions, or if we can be of further assistance, please do not hesitate to contact us.

Thank you,
LaX Fabricating LTD

Erikk Butzman
Estimator
Phone: 507-498-6000 ext. 108
Cell Phone: 608-498-0504
Fax: 866-223-6352
E-mail: erikkbutzman@laxfabricating.com
www.laxfabricating.com

John D. Mitchell
President
Phone: 507-498-6000 ext. 110
Cell Phone: 608-317-8004
johnmitchell@laxfabricating.com



1130 73rd Avenue NE
Fridley, MN 55432
(763) 571-1902
1-800-795-1280
Fax # (763) 571-5091

Highway 60 East
Lake Crystal, MN 56055
(507) 726-6041
1-800-722-0588
Fax # (507) 726-2984

www.crysteeltruck.com

AN EQUAL OPPORTUNITY EMPLOYER

August 5, 2019

JULIE AMUNDSON
HOUSTON COUNTY
304 S. MARSHALL ST. ROOM #209
CALEDONIA, MN
55921

Phone: (507) 725-5800 Cell:
Email: JULIE.AMUNDSON@CO.HOUSTON.MN.US

Dear JULIE:

Crysteel Truck Equipment is pleased to submit this quote for your approval.

CUSTOM RECYCLING CONTAINERS PER DRAWING:

Four openings
36" A-Frame only
10 ga sides and top
7 ga floor
Fold back gate for ease of dumping
5x2x3/16 guide rails
3" channel structural crossmembers
Rear rollers
Stock paint color

Price: \$ 7,100.00 each x3 = \$21,300.00

Sincerely,

Kurt Krumwiede

Crysteel Truck Equipment Lk Crystal

- **All prices are subject to applicable taxes**
- **Quotes are good for 30 days**



Date: August 7, 2019

To: Houston County Commissioners & Staff

From: Allison Wagner, Houston County EDA

RE: \$75,000 from EDA Revolving Loan Fund to AcenTek for Border-to-Border Grant if grant funds are awarded

Background: On August 8, 2019, Darren Moser from AcenTek, requested on behalf of AcenTek a \$75,000, three year, interest free, loan from the EDA for a broadband expansion grant program. The total project costs for grant project are estimated at \$10,146,038.

The grant project will bring fiber to approximately 800 locations in Houston County including businesses, residences, and farms.

Recommendation: After due consideration and discussion, the EDA Board of Directors passed a motion on August 7, 2019 to recommend that the Houston County Commissioners approve AcenTek's request for assistance by providing a \$75,000 three year loan at zero percent interest pending grant funds are awarded.

Action Required: A motion made by the Board of Commissioners approving AcenTek's request for assistance by providing a \$75,000 loan at zero percent interest for three years pending grant funds are awarded.



Executive Summary

Project Title: Rural Houston Exchange Fiber To The Home

Description: This projected will bring fiber to the home to approximately 800 business, residences, and farms in the rural Houston telephone exchange with an additional 60-70 residents of the Hokah exchange which are fed out of the Houston central office. The fiber will bring a minimum residential internet speed of 200mg/200mg speed and offer upto 1g pre-package speeds and is scalable to significantly higher speeds. Business can get customize quotes as well.

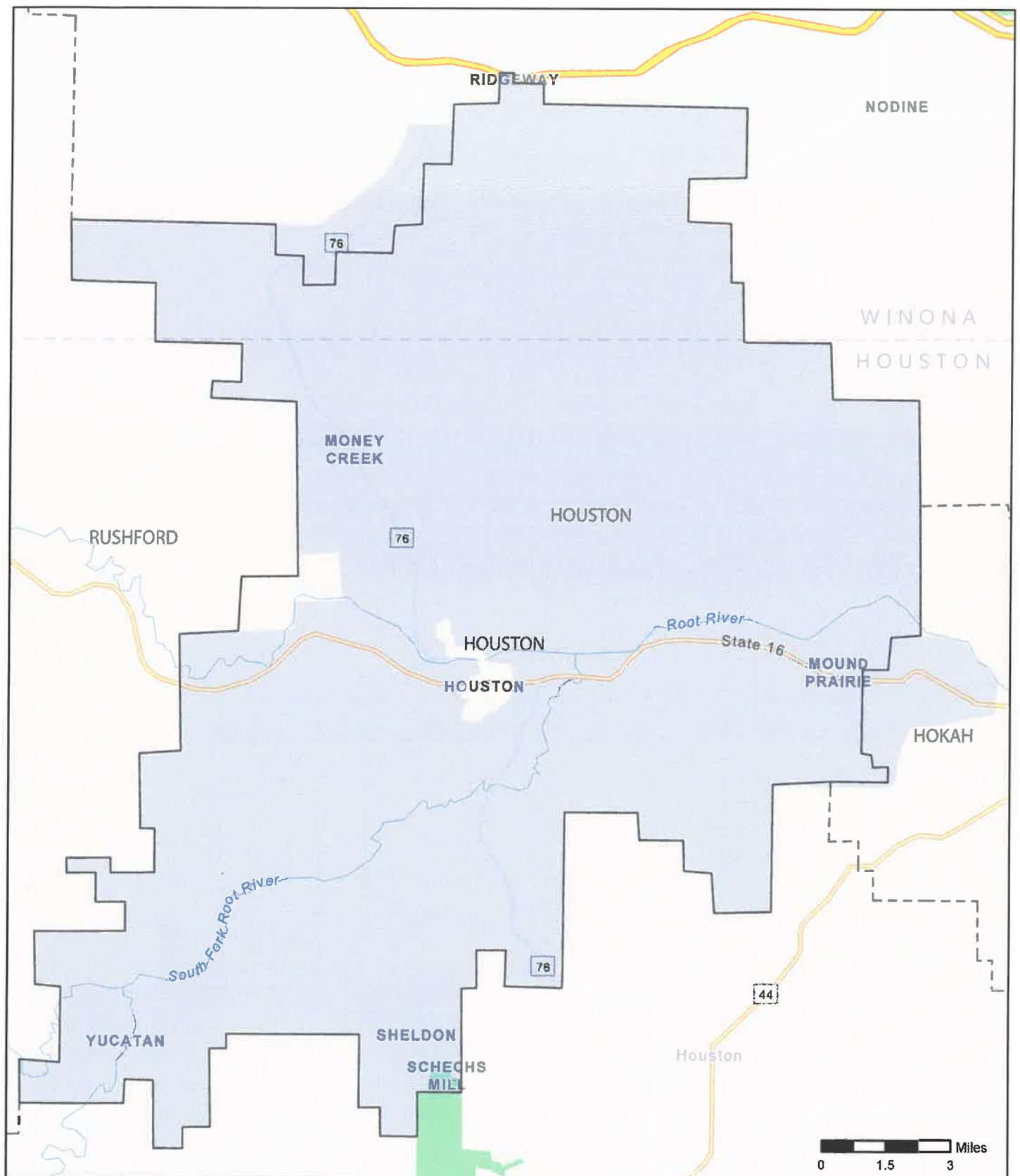
Time Frames:	Grant Application Close Date	September 13, 2019
	Grant Award	4 th Quarter 2019
	Construction Start	2 nd Quarter 2020
	Completion Deadline	June 2022

Costs: Current estimated costs are over \$9,200,000

Funding Sources:	AcenTek	\$6,365,000
	Houston County	\$ 75,000
	DEED Grant	\$2,760,000

Key Component: Each application is scored and one of the key elements or scoring criteria is Community Partner Contribution. Having Houston County partner with AcenTek increases the score and thus the likelihood of a successful application.

Request: AcenTek is seeking the Community Partnership with Houston County by requesting a \$75,000, 3year, interest fee loan to commit to the project.



			
<p>Grant Application Area Houston Exchange Other Acentek Exchanges</p>			

Office of Broadband Development

Call for Border to Border Broadband Applications

Program Description and Background

In order to continue to promote broadband infrastructure expansion for areas of Minnesota that remain unserved or underserved, public sector investment is necessary. The Border-to-Border Broadband Development Grant Program was initially established by the 2014 legislature to assist with costly deployment projects that might not occur without public financial assistance. Pursuant to Minnesota Statutes §§ 116J.394-116J.398, the Minnesota Department of Employment and Economic Development (DEED) has the authority to award grants to assist broadband providers with eligible infrastructure installation costs.

Funding Availability for 2019

As designated in the 2019 legislative session, \$20 million has been appropriated as available funding for this round of the Minnesota broadband grant program. Priority consideration will be given to projects that leverage greater amounts of funding for a project from other private and public sources. The maximum individual grant amount is \$5 million. The maximum grant funding award cannot exceed 50% of the eligible total project costs.

Eligible Applicants

Eligible applicants for this program are an incorporated business or partnership, a political subdivision, an Indian tribe, a Minnesota nonprofit organization organized under chapter 317A, a Minnesota cooperative association organized under chapter 308A or 308B, or a Minnesota limited liability corporation organized under chapter 322B for the purpose of expanding broadband access.

Eligible Project Areas

Broadband development projects located in unserved or underserved areas are eligible. An unserved area is an area of Minnesota in which households or businesses lack access to wire-line broadband service at speeds that meet the Federal Communications Commission's (FCC) threshold of 25 megabits per second (Mbps) download and 3 megabits per second (Mbps) upload. An underserved area is an area of Minnesota in which households or businesses do receive service at or above the FCC threshold of 25 Mbps down and 3 Mbps up, but lack access to wire-line broadband service at speeds of 100 Mbps download and 20 Mbps upload.

Eligible Program Costs

The Broadband Development Grant Program can pay up to 50 percent of the eligible costs for a qualifying project. Eligible costs refer to the costs associated with the acquisition and installation of middle mile and/or last mile infrastructure that can support broadband service scalable to speeds of at least 100 Mbps download and 100 Mbps upload.

Matching Funds Requirement

To obtain a broadband development grant, the applicant must provide for the funding not covered by the grant with matching funds. The match can come from any private and/or public sources available to the Applicant. The state grant funding period begins after the grant application is received, evaluated, and officially approved by the DEED Commissioner with an award letter and executed contract.

Selection Criteria

The prospective applications are eligible for a maximum 120 reviewer scoring points, and will be ranked on the following categories:

- Anticipated broadband improvements – up to 20 points
- Grant funding request amount – up to 10 points
- Community participation – up to 15 points
- Project readiness – up to 25 points
- Project sustainability – up to 25 points
- Economic development and community impact – up to 15 points
- Broadband adoption assistance – up to 10 points

Application Filing Window and Deadlines for 2019

The Minnesota Broadband Grant Program is a competitive grant award cycle for this 2019 legislative appropriation. The grant application window for 2019 will open on July 3, 2019.

***All applications must be received at DEED on or before the application deadline of
September 13, 2019 no later than 4 p.m.***

[Completed applications and all required supporting documentation – 3 paper copies and one electronic copy in Microsoft Word format on a USB drive – must be received by DEED’s Office of Broadband Development on or prior to 4 p.m. on September 13, 2019 to be deemed eligible for funding.]

Contact Information

For more information and application instructions and template forms, consult our website, under Broadband Grant Program – Application details, or contact our OBD Staff at 651-259-7610. OBD/DEED will be hosting three webcast listening sessions during July to provide potential Applicants with more information about the program and to answer questions. Details about these webcasts will be available soon.

RESOLUTION NO. 19-27

**RESOLUTION OF SUPPORT ENDORSING BORDER-TO-BORDER GRANT
APPLICATION OF ACEN TEK, INC. IN HOUSTON COUNTY**

August 13, 2019

WHEREAS, broadband internet connectivity constitutes an essential infrastructural component of residential and commercial development, education, and industry; and

WHEREAS, customers in the rural Houston telephone exchange are either unserved or underserved by the State of Minnesota's established download and upload standards; and

WHEREAS, AcenTek is a locally controlled telecommunications cooperative, providing service to many residents in Houston County; and

WHEREAS, AcenTek intends to deliver new fiber optic connectivity to approximately 800 underserved locations including businesses, residences, and farms; and

WHEREAS, AcenTek intends to submit a grant application to the State of Minnesota's Border-to-Border Grant Program to help make this project economically viable;

NOW, THEREFORE, BE IT RESOLVED, Houston County supports AcenTek's application to the Border-to-Border Grant Program; and

BE IT FURTHER RESOLVED, that Houston County will make available \$75,000 in economic development funds in support of the application if awarded. The \$75,000 will be loaned to AcenTek at zero percent interest for three years pending award of grant funds.

*****CERTIFICATION*****

STATE OF MINNESOTA

COUNTY OF HOUSTON

I, Jeff Babinski, do hereby certify that the above is true and correct copy of a resolution adopted by the Houston County Board of Commissioners at the session dated August 13, 2019.

WITNESS my hand and the seal of my office this 13th day of August 2019.

(SEAL)

Jeff Babinski, County Administrator

From: [Teresa Walter](#)
To: [Jeff Babinski](#)
Subject: Fw: La Crescent Township agreement
Date: Friday, August 9, 2019 9:22:15 AM

From: Teresa Walter
Sent: Friday, August 9, 2019 9:21 AM
To: Brian Pogodzinski
Subject: Re: La Crescent Township agreement

Let's try to keep this going. That shed is ready to cave in. I will leave message for Karen to get on the agenda.
Teresa

From: Brian Pogodzinski
Sent: Friday, August 9, 2019 9:13:34 AM
To: Teresa Walter
Subject: RE: La Crescent Township agreement

I should be available next Monday evening if you want to meet with the full township board at that time. Looking at costs for the salt shed, the county will only be using about 1/3 of the building and the township would be using 2/3 so our portion would be about \$200,000. I'm hoping the township could get better prices.

As for the county affording to put money towards the project, it will all need to come from fund balance, of which we have enough within the highway fund to cover, but it takes away from money available for the new Caledonia facility. If what I am hearing is correct, 2020 preliminary budgets may look bad this year. I struggled to get Hwy down to a \$210k increase over this year. My initial total was a \$338k increase. Last year's budget cuts, along with material price increases, reduced state aid revenue, and not accounting for any salary or benefit increases in the 2019 has really made it difficult. Without accounting for any price increases, we needed to find \$153k just for lost revenue, salary and benefit increases, and reduced equipment and material sales. With all of that said, you saw what the existing building looks like. Something needs to get done with the building, whether it is a new building or repairs.

Brian K. Pogodzinski, P.E.
Houston County Engineer

From: Teresa Walter <Teresa.Walter@co.houston.mn.us>
Sent: Friday, August 9, 2019 8:38 AM
To: Brian Pogodzinski <Brian.Pogodzinski@co.houston.mn.us>
Subject: Re: La Crescent Township agreement

Hi Brian,

It looks good to me to do this approach to the township. Should we get on the agenda for next Monday and present to the whole board? I do like Attorney approach but 650,000 is a lot of money for both entities. Can we afford 1/2 in the budget. Lets get on their agenda for Aug. 12 if you think we should.

Keep Jeff in the loop also. I did not send anything to him at this point.

Teresa

From: Brian Pogodzinski
Sent: Thursday, August 8, 2019 2:11:46 PM
To: Teresa Walter
Subject: La Crescent Township agreement

Teresa,

Attached is a copy of an agreement drafted by Sam, Tess, and myself for the shared use of La Crescent Township's facility with the County. A hard copy was mailed to Bob Schuldt.

I did some research on the cost and process for if the County were going to take the lead on the salt shed replacement structure. Based on MnDOT's salt shed structure costs, and verified by a contractor, it appears it would cost roughly \$600-\$650k for a 70x110' building, of which the township would occupy 2/3 of it. Following MnDOT's process, a simply structure would result in a 200 page bid packet where we would need to advertise for 3 weeks and then open bids like a typical larger County project. The Township may be able to simplify the process.

Sam recommends that the Township would take the lead in the design and construction of the building as it sits on Township land, and they would be the owner, and they may have more liability risk. As he said, you don't have a renter design a house to build on your land.

Are you ok with the township taking the lead on the sand/salt building? I think Sam had some good points. If so, who do we tell at the township and do you want to speak with them or should I?

Brian K. Pogodzinski, P.E.
Houston County Engineer

RESOLUTION NO. 19-26

AQUATIC INVASIVE SPECIES PREVENTION AID

August 13, 2019

WHEREAS, 2014 Session Law Chapter 308 enacted by the Legislature provides Minnesota counties a County Program Aid grant for Aquatic Invasive Species (AIS) prevention. The amount designated for each county is based on the number of watercraft trailer launches as well as the number of watercraft trailer parking spaces within each county. Houston County was allocated \$22,755 for 2020 and years following (5 watercraft trailer launches and 50 watercraft trailer parking spaces), and

WHEREAS, the legislation requires that Houston County must establish, by resolution or through adoption of a plan, guidelines for the use of the proceeds which are to prevent the introduction or limit the spread of aquatic invasive species at all access sites within the county, and

WHEREAS, the county may appropriate the proceeds directly or may use any portion of the proceeds to provide funding to a soil and water conservation district in the county, for a joint powers board or cooperative agreement with another political subdivision, a watershed district in the county, or a lake association located in the county. Any money appropriated by the county to a different entity or political subdivision must be used as required under this section, and

WHEREAS, the county must submit a copy of its guidelines for use of the proceeds to the Department of Natural Resources by December 31 of the year the payments are received, and

WHEREAS, maintaining an ongoing effort to inform the public of resource needs, resource impairments and resource protection matters has been identified as the most important tool in addressing water resource concerns in the Houston County Water Plan, the fight against Aquatic Invasive Species is included in this educational effort and will continue to be a cornerstone of Houston County's Water Plan.

NOW THEREFORE, BE IT RESOLVED the Board of Commissioners of Houston County, Minnesota designate oversight of Houston County's AIS prevention efforts to the Root River Soil and Water Conservation District and delegates to them the responsibility to prepare, implement and report annually a plan to allocate the funding in accordance with the above legislation.

*****CERTIFICATION*****

STATE OF MINNESOTA
COUNTY OF HOUSTON

I, Jeff Babinski, do hereby certify that the above is true and correct copy of a resolution adopted by the Houston County Board of Commissioners at the session dated August 13, 2019.

WITNESS my hand and the seal of my office this 13th day of August 2019.

Jeff Babinski, County Administrator