RLH OA 2006

APPLICATION FOR APPEAL

Saint Paul City Council – Legislative Hearings

310 City Hall, 15 W. Kellogg Blvd.
Saint Paul, Minnesota 55102
Telephone: (651) 266-8585

RECEIVED
JUN 05 2020
CITY CLERK

We need the following to process your appeal:

- [x] $25 filing fee (non-refundable) (payable to the City of Saint Paul) (if cash: receipt number_____)
- [x] Copy of the City-issued orders/letter being appealed
- [x] Attachments you may wish to include
- [x] This appeal form completed
- [x] Walk-In *OR* ○ Mail-In

for abatement orders only: ○ Email *OR* ○ Fax

HEARING DATE & TIME
(provided by Legislative Hearing Office)
Tuesday, June 16, 2020

Time 3:00 p.m.

~~*Location of Hearing:*~~
~~*Room 330 City Hall/Courthouse*~~
Teleconference call.
Call between 3:00 p.m. and 4:00 p.m.

Address Being Appealed:

Number & Street: 2108 SKYWAY DRIVE City: SAINT PAUL State: MN Zip: 55119

Appellant/Applicant: ERANDI LINDSEY Email ERANDI.I.LINDSEY.MIL@MAIL.MIL

Phone Numbers: Business _____ Residence _____ Cell 651-424-9915

Signature _____ Date: 06/04/2020

Name of Owner (if other than Appellant): _____

Mailing Address if Not Appellant's: _____

Phone Numbers: Business _____ Residence _____ Cell _____

What Is Being Appealed and Why? *Attachments Are Acceptable*

- ○ Vacate Order/Condemnation/ Revocation of Fire C of O
- ○ Summary/Vehicle Abatement
- ○ Fire C of O Deficiency List/Correction
- ○ Code Enforcement Correction Notice
- ○ Vacant Building Registration
- ◉ Other (Fence Variance, Code Compliance, etc.)

Variance to Chapter 50

Comments:

Requesting well distance variance to St. Paul City Ordinance in Chapter 50 which requires a 75 foot setback. We wish to purse the attached design indicating a 50 foot setback. A 75 foot setback would cause the system to be put in disturbed soil which isn't not conducive and will cause much more of an issue than being within that 75 ft of the well from a public health standpoint. There is no disturbed soil in the proposed location at the 50 foot setback per design which is the state minimum (Septic Manual 4-13).

Septic Designer Alex Pepin 612-248-4281
Septic Installer Tony Scully 651-802-5730

From: Jacobs, Rick (CI-StPaul)
To: Alex Pepin
Cc: Haddow, Ross (CI-StPaul); tony_scully@yahoo.com; McManus, Troy (CI-StPaul)
Subject: RE: Septic Design For Property Located at 2108 Skyway Drive in St. Paul
Date: Wednesday, May 13, 2020 9:03:29 AM
Attachments: image001.png

Alex,

The design you presented indicating a 50 foot setback from the well or any well cannot be approved.

I was hoping there was an opportunity for a 75 foot setback without causing the system to be put in disturbed soil could be designed.

To answer your question, there is a process to go through to request a variance to the well setback once a permit is applied for. The City Ordinance indicating the process is included below. It is from The City of Saint Paul Municipal Code Chapter 50.

All other corrections, verifications, and/or revisions indicated in my earlier email would first be needed and the design updates to reflect them.

As you stated, DSI also needs a plumbing permit.

* Sec. 50.16. - Variances.

The legislative hearing officer, in accordance with the provisions of Chapter 18, may, with the approval of the city council, modify or revoke any order and may grant an extension of time where the legislative hearing officer finds that there is undue hardship based upon cost connected with compliance with chapter, or any applicable rules or regulations. In no event shall a variance be granted if to do so would cause a threat to the public health, safety or welfare. Also, no action by the legislative hearing officer shall exempt an owner from meeting the inspection and reporting requirements set forth herein.

* Sec. 18.01. - Legislative hearing officer.

In order to hear and decide appeals of orders, decisions or determinations made by the enforcement officers relative to the enforcement of health, housing, building or fire codes contained in the Saint Paul Legislative Code, and in order to hear appeals and make determinations relative to safe pedestrian crossing areas under section 156.05 and newsracks under chapter 131 of the Saint Paul Legislative Code, there shall be and is hereby created a legislative hearing officer. The legislative hearing officer shall be a city employee appointed by the president of the city council. The legislative hearing officer shall have the authority to hear appeals to orders, decisions or determinations of the enforcement officers or others and make recommendations to the city council. The hearing officer shall not have the power to grant waivers of the Minnesota State Building Code. All matters, orders, decisions and determinations of the hearing officer shall be forwarded to the city council in resolution form within ten (10) days of the hearing officer's actions. The city council shall have the authority to approve, modify, reverse, revoke, wholly or partly, the hearing officer's orders, decisions or determinations and shall make such order, decision or determination as ought to be made. All matters, orders, decisions and determinations of the hearing officer, being recommendations to the city council, are not subject to judicial review.

* Sec. 18.02. - Hearing petition, filing, fee, notice.

Any property owner affected by any order which has been issued in connection with the enforcement of a health, housing, building or fire code, or any rule or regulation adopted pursuant thereto, or any newsrack owner affected by any decision made pursuant to section 131.70(B) of the St. Paul Legislative Code, may request and shall be granted

a hearing before the legislative hearing officer on all matters set forth in such notice; provided, that such property or newsrack owner shall first file with the legislative hearing officer a written petition requesting such hearing and setting forth a brief statement of grounds therefor within ten (10) days after the date the original notice of code violations, or within ten (10) days after the date on which notice of the newsrack decision under section 131.70 <https://www.municode.com/library/mn/st._paul/codes/code_of_ordinances?nodeId=PTIILECO_TITXIISTSIBROTPUWA_CH131NE_S131.70AP> (B), was issued.

The filing fee for such petition shall be twenty-five dollars ($25.00) except that where there is financial hardship, the hearing officer may waive this filing fee subject to the approval of the city council.

Upon receipt of such petition, the hearing officer shall set a time and place for such hearing and shall give the petitioner written notice thereof. The hearing shall be commenced not later than thirty (30) days after the date on which the petition was filed. s

From: Alex Pepin <alex.pepin@tenthirtyenvironmental.com>
Sent: Tuesday, May 12, 2020 3:40 PM
To: Jacobs, Rick (CI-StPaul) <rick.jacobs@ci.stpaul.mn.us>
Cc: Haddow, Ross (CI-StPaul) <ross.haddow@ci.stpaul.mn.us>; tony_scully@yahoo.com; McManus, Troy (CI-StPaul) <troy.mcmanus@ci.stpaul.mn.us>
Subject: Re: Septic Design For Property Located at 2108 Skyway Drive in St. Paul

Think Before You Click: This email originated outside our organization.

Hello Rick,

Is there a process to go through to get a variance to that well setback once a permit is applied for? The 75 ft setback will end up causing a system to be put in that is in disturbed soil down by the garage on the lot just below the one with the home. This is the only location where a type I system can be installed. Having a system in disturbed soil is something that will cause much more of an issue than being within that 75 ft of the well from a public health standpoint.

There is no disturbed soil in the proposed location and I can do a boring with DSI once we get the permit process going and clarification on the well setback variance process. Thanks for the help!

Alex Pepin

612-248-4281

Ten Thirty Environmental Solutions

www.tenthirtyenvironmental.com <http://www.tenthirtyenvironmental.com>

On Tue, May 12, 2020 at 3:00 PM Jacobs, Rick (CI-StPaul) <rick.jacobs@ci.stpaul.mn.us <mailto:rick.jacobs@ci.stpaul.mn.us> > wrote:

Tony and Alex,

Forgot to add one thing.

DSI will also need a Plumbing Permit from a MN Licensed Septic Installer. The permit will be required prior to any additional reviews.

Plumbing Permit item #23" Private Disposal" $235.00.

If either of you have any questions, please email me or call.

From: Jacobs, Rick (CI-StPaul)
Sent: Tuesday, May 12, 2020 2:33 PM
To: Haddow, Ross (CI-StPaul) <ross.haddow@ci.stpaul.mn.us <mailto:ross.haddow@ci.stpaul.mn.us> >; tony_scully@yahoo.com <mailto:tony_scully@yahoo.com> ; alex.pepin@tenthirtyenvironmental.com <mailto:alex.pepin@tenthirtyenvironmental.com>
Cc: McManus, Troy (CI-StPaul) <troy.mcmanus@ci.stpaul.mn.us <mailto:troy.mcmanus@ci.stpaul.mn.us> >
Subject: Septic Design For Property Located at 2108 Skyway Drive in St. Paul

Hi Tony and Alex,

It has been verified by St. Paul Department of Safety and Inspections and St. Paul Sewer Utilities that the closest sewer available is in Skyway Dr. approximately 600 or more feet away from the residence. For this reason it has been determined a sewer is not available. It appears a subsurface soil treatment system can be reviewed for approval.

I have performed a preliminary review of your proposed Septic Design for the Property Located St 2108 Skyway Drive in St. Paul forwarded to me by Ross Haddow on May 5 2020.

Please revise these items and resubmit the design for additional review.

1. The well setback you indicate is 50 feet. Although this is the state minimum (Septic Manual 4-13), the city ordinance in Municipal Code Chapter 50 Sec. 50.20 (4) Table VII requires the setback to be a minimum of 75 feet from sewage tank to any potable drinking water well or irrigation well. In addition, please verify 75 feet from any and all wells, including but not limited to, the neighbors wells.

2. Please add page numbers to the design.

3. The Field Evaluation indicates Disturbed Area under General Soils Information "East of system is some fill areas toward the garage". Verify no fill or compaction is within the system foot print.

4. The Preliminary Evaluation Worksheet indicates no clothes washer. Please verify no water-using devices indicated in Flow and General Systems Information A. with asterisk are present.

5. The site has full grown trees and steep grades. Please verify the site can be accessed without disturbing or accessing the neighbor's property as we have had issues with assuming access from neighbors before.

6. Lastly, DSI Plumbing Inspections will require witnessing a soil observation performed by you. This can be scheduled after the above issues are addressed and/or verified.

Thank you.

From:	Jacobs, Rick (CI-StPaul)
To:	Lindsey, Frandi I SSG USARMY NG MNARNG (USA); tony_scully@yahoo.com; alex.pepin@tenthirtyenvironmental.com
Cc:	Ubl, Stephen (CI-StPaul); Moermond, Marcia (CI-StPaul); Vang, Mai (CI-StPaul); Haddow, Ross (CI-StPaul); Graybar, Matthew (CI-StPaul); Fernlund, Steve (CI-StPaul)
Subject:	[Non-DoD Source] Septic proposal for 2108 Skyway Drive
Date:	Friday, May 22, 2020 12:01:33 PM
Attachments:	image001.png REVISIONS 5.13.20 - 2108 Skyway Drive Design by Ten Thirty Environmental - Alex Pepin v1.1.pdf Septic Design For Property Located at 2108 Skyway Drive in St. Paul.msg ORIGINAL DESIGN 2108 Skyway Drive Design by Ten Thirty Environmental - Alex Pepin.pdf RICK & TROY - Septic Design For Property Located at 2108 Skyway Drive in St Paul.msg

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Hi all,

Please see this update and additional information required for the proposed Subsurface Soil Treatment System (Septic system) design at 2108 Skyway Drive, Saint Paul, MN.

Plans have been submitted to the St. Paul Department of Safety and Inspections (DSI) Plumbing Section, Rick Jacobs, Senior Plumbing Inspector, atrick.jacobs@ci.stpaul.mn.us < Caution-mailto:rick.jacobs@ci.stpaul.mn.us > (651-266-9051) and Steve Ubl, Senior Building Inspector, atstephen.ubl@ci.stpaul.mn.us < Caution-mailto:stephen.ubl@ci.stpaul.mn.us > (651-266-9021).

5/4/20 – Original Plans were submitted.(See attachment: ORIGINAL DESIGN)

5/6/20 – Verification via DSI and Sewer Utilities that no connection to the municipal sewer is feasible.(See attachment: Septic Design For Property Located at 2108 Skyway Drive in St. Paul).

5/6-12/20 – DSI Plumbing reviewed the original plans and respond to the designer with corrections and additional information required.(see attachment: RICK & TROY…)

5/13/20 – Updated revised plans were sent to DSI still indicating a 50 foot well to tank setback. A same day DSI Plumbing Review was performed and a response was sent on the plan revisions. An indication was received via email from the designer to DSI that a variance to Chapter 50 will be entertained. An email was sent by DSI Plumbing to the designer indicating the variance request would require a patition sent to the Legislative Hearing Officer and the Chapter 50 section on variances was sent to the designer.

5/21/20 – A call was received by Rick Jacobs from the owner and a conversation was held on questions and comments about the system design and the procedure for filing a variance for SSTS systems.

5/22/20 – This Email sent by Rick J.

Based on the review, DSI has these recommendations for next steps.

1. Apply for a DSI Plumbing Permit.
2. After the Plumbing Permit is received, DSI will require an onsite visit for the purpose of design review, soil verification, and to witness existing conditions. Attendees will be Department of Safety and Inspections (DSI) Senior Plumbing Inspector and MPCA SSTS Certified Inspector Rick Jacobs, DSI Plumbing Inspector and MPCA SSTS Certified Inspector Troy McManus, the MPCA Certified Installer, and the MPCA SSTS Certified Designer.
3. The cesspool will need to be pumped and filled per MPCA requirements with DSI being sent a pump report.
4. Verify if there is any tree removal that tree removal will be allowed, indicate the Authority Having Jurisdiction over any tree removal, indicate any requirements from that authority and the approval to remove the trees. (The requirements for the Tree Preservation District?)
5. Show all wells within 100 feet in the design, indicated the distances from the system and that they are at least 75 feet or greater away from the system. The revised plans still indicate a 50 foot setback from the well to the tank. St. Paul City Ordinance in Chapter 50 requires a 75 foot setback. If the owner and designer wish to further pursue this design indicating a 50 foot setback, the owner must apply for a well distance variance with the Legislative Hearing Officer.
6. The owner of 2108 Skyway Drive must sign all design paperwork.
7. Indicate in the design that a "licensed Electrical Contractor" will obtain all required permits for all required Electrical work.

Please make these revisions to the design proposal, attain the necessary approvals or signatures, and send back to DSI for approval.

Please visit the city website for a petition application should you chose to request a variance.

Below is the Legislative Hearing Coordinator contact information who will be better able to assist you with any questions regarding a variance petition.

Mai X. Vang
Legislative Hearing Coordinator
Saint Paul City Council
15 W Kellogg Bvd, Ste. 310
Saint Paul, MN 55102

P: 651-266-8563

F: 651-266-8574

mai.vang@ci.stpaul.mn.us < Caution-mailto:mai.vang@ci.stpaul.mn.us >

Vang, Mai (CI-StPaul)

From: Jacobs, Rick (CI-StPaul) <rick.jacobs@ci.stpaul.mn.us>
Sent: Wednesday, May 13, 2020 9:03 AM
To: Alex Pepin
Cc: Haddow, Ross (CI-StPaul); tony_scully@yahoo.com; McManus, Troy (CI-StPaul)
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To: Jacobs, Rick (CI-StPaul) <rick.jacobs@ci.stpaul.mn.us>
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Alex Pepin

612-248-4281

Ten Thirty Environmental Solutions

<http://www.tenthirtyenvironmental.com> www.tenthirtyenvironmental.com

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2. Please add page numbers to the design.

3. The Field Evaluation indicates Disturbed Area under General Soils Information "East of system is some fill areas toward the garage". Verify no fill or compaction is within the system foot print.

4. The Preliminary Evaluation Worksheet indicates no clothes washer. Please verify no water-using devices indicated in Flow and General Systems Information A. with asterisk are present.

5. The site has full grown trees and steep grades. Please verify the site can be accessed without disturbing or accessing the neighbor's property as we have had issues with assuming access from neighbors before.

6. Lastly, DSI Plumbing Inspections will require witnessing a soil observation performed by you. This can be scheduled after the above issues are addressed and/or verified.

Thank you.

TEN THIRTY ENVIRONMENTAL SOLUTIONS

Ten Thirty Environmental Solutions, SBC
1684 132nd Ave NE
Blaine, MN 55448

Regarding Septic Design For Property Located At: 2108 Skyway Drive in St. Paul

September 17, 2019

Please find the enclosed design for the property located at 2108 Skyway Drive in St. Paul Minnesota. This design was completed on September 10th, 2019 to be in compliance with local and state requirements.

Please note that the design calls for three gravity fed trenches totalling 256 lineal feet or 85.33 ft for each trench with three trenches of equal length. The elevations are fairly tight to get gravity to the trenches so get the 1,500 gallon septic tank tucked up as high as possible towards the house. See site plan for details.

If there are any questions or concerns with the design please do not hesitate to call or email.

Sincerely,

Alex Pepin
612-248-4281
alex.pepin@tenthirtyenvironmental.com

ONSITE SEWAGE TREATMENT PROGRAM

Design Summary Page

MINNESOTA POLLUTION CONTROL AGENCY

1. PROJECT INFORMATION

v 04.02.2019

Property Owner/Client:	Erandi and Jacob Lindsey	Project ID:	
Site Address:	2108 Skyway Drive, St. Paul, MN 55119	Date:	09/17/19
Email Address:	-	Phone:	

2. DESIGN FLOW & WASTE STRENGTH

Attach data / estimate basis for Other Establishments

Design Flow: 600 GPD Anticipated Waste Type: Residential

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

Treatment Level: C *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): 4

Code Minimum **Septic Tank** Capacity: 1500 Gallons in 1 Tanks or Compartments

Recommended **Septic Tank** Capacity: 1500 Gallons in 1 Tanks or Compartments

Effluent Screen & Alarm (Y/N): No 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. Dose Vol:	Gal

ONSITE SEWAGE TREATMENT PROGRAM

Design Summary Page

MINNESOTA POLLUTION CONTROL AGENCY

6. SYSTEM AND DISTRIBUTION TYPE

Project ID:

Soil Treatment Type:	Trench	Distribution Type:	Gravity Distribution
Elevation Benchmark:	100 ft	Benchmark Location:	slab at garage corner
MPCA System Type:	Type I	Distribution Media:	Rock
Type III/IV Details:			

7. SITE EVALUATION SUMMARY:

Describe Limiting Condition: Depth of Observation

Layers with >35% Rock Fragments? (yes/no) 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: Some larger rocks present that made digging fun, but not over 10% rock.

	Depth		Depth		Elevation	
Limiting Condition:	84	inches	7.0	ft	87.80	ft
Minimum Req'd Separation:	36	inches	3.0	ft		
					Elevation	
Code Max System Depth:	48	inches	4.0	ft	90.80	ft

Critical for system compliance

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

Soil Texture:	Sandy Loam		
Soil Hyd. Loading Rate:	0.78 GPD/ft^2	Percolation Rate:	MPI
Contour Loading Rate:	12	Note:	
Measured Land Slope:	12.0 %	Note:	
Comments:			

8. SOIL TREATMENT AREA DESIGN SUMMARY

Trench:

Dispersal Area	769 ft^2	Sidewall Depth	6 in	Trench Width	3 ft
Total Lineal Feet	256 ft	No. of Trenches	3	Code Max. Trench Depth	48.0 in
Contour Loading Rate	12.0 ft	Min. Length	50 ft	Designed Trench Depth	48.0 in

Bed:

Dispersal Area	ft^2	Sidewall Depth	in	Maximum Bed Depth	in
Bed Width	ft	Bed Length	ft	Designed Bed Depth	in

Mound:

Dispersal Area	ft^2	Bed Length	ft	Bed Width	ft
Absorption Width	ft	Clean Sand Lift	ft	Berm Width (0-1%)	ft
Upslope Berm Width	ft	Downslope Berm	ft	Endslope Berm Width	ft
Total System Length	ft	System Width	ft	Contour Loading Rate	gal/ft

ONSITE SEWAGE TREATMENT PROGRAM

Design Summary Page

MINNESOTA POLLUTION CONTROL AGENCY

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			Perforation Spacing		ft	Perforation Diameter		in
Lateral Diameter		in	Min Dose Volume		gal	Max Dose Volume		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							
Lateral 2							
Lateral 3							
Lateral 4							
Lateral 5							
Lateral 6							

Minimum Dose Volume: _____ gal

Maximum Dose Volume: _____ gal

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 ÷ _____ ft^2 = _____ $lbs./day/ft^2$

10. Comments/Special Design Considerations:

Crush and fill existing cesspool. Put 1,500 gallon Septic Tank in as high up as possible to ensure gravity to trenches. Very close with getting gravity, only a half foot or so to spare.

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

Alex Pepin		L4082	9/17/2019
(Designer)	(Signature)	(License #)	(Date)

MapRamsey

100.0 0 50.00 100.0 Feet

NAD_1983_HARN_Adj_MN_Ramsey_Feet

Legend

- City Halls
- Schools
- Hospitals
- Fire Stations
- Police Stations
- Recreational Centers
- 2012 Contours
- Parcel Points
- Parcel Boundaries

Notes

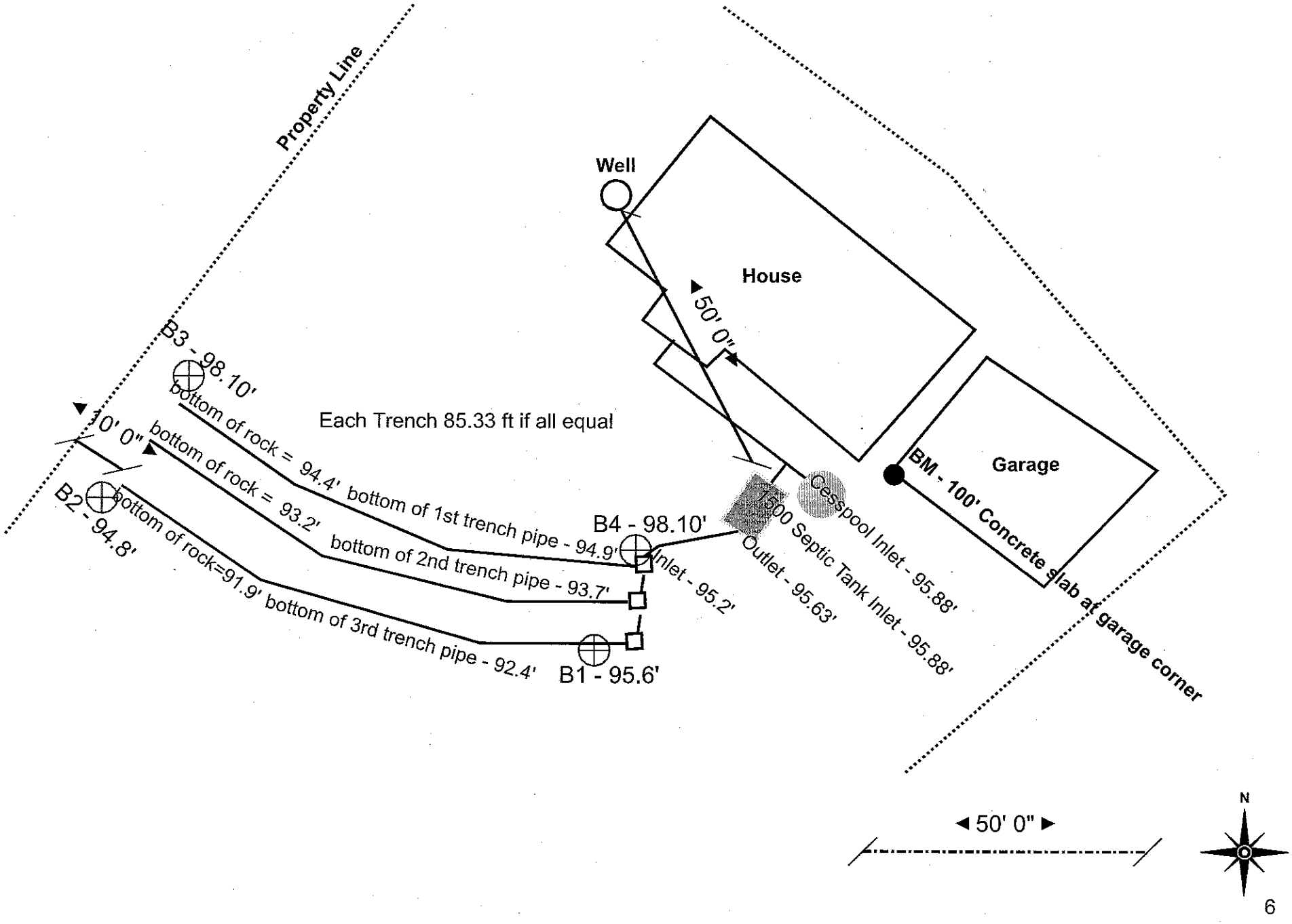
Enter Map Description


Property Line
Well
Total: 50.00 ft
50.00 ft
50' 0"
B3 - 98.10'
10' 0"
Each Trench 85.33 ft if all equal
bottom of rock = 94.4' bottom of 1st trench pipe - 94.9'
bottom of rock = 93.2' bottom of 2nd trench pipe - 93.7'
B2 - 94.8'
bottom of rock=91.9' bottom of 3rd trench pipe - 92.4'
B4 - 98.10'
B1 - 95.6'
Inlet - 95.2'
Outlet - 95.63'
Inlet - 95.88'
Inlet
95.88'
BM - 100' Concrete slab at garage corner
2108

◄ 50' 0" ►

N

5


Property Line
Well
House
50' 0"
B3 - 98.10'
10' 0"
Each Trench 85.33 ft if all equal
bottom of rock = 94.4' bottom of 1st trench pipe - 94.9'
bottom of rock = 93.2' bottom of 2nd trench pipe - 93.7'
B2 - 94.8'
bottom of rock=91.9' bottom of 3rd trench pipe - 92.4'
B1 - 95.6'
B4 - 98.10'
Inlet - 95.2'
Outlet - 95.63'
1500 Septic Tank Inlet - 95.88'
Cesspool Inlet - 95.88'
Garage
BM - 100' Concrete slab at garage corner
50' 0"
N

Preliminary Evaluation Worksheet

Onsite Sewage Treatment Program

Minnesota Pollution Control Agency

1. Contact Information

v 04.02.2019

Property Owner/Client:	Erandi and Jacob Lindsey	Date Completed:	9/17/2019
Site Address:	2108 Skyway Drive, St. Paul, MN 55119	Project ID:	
Email:	-	Phone:	
Mailing Address:	SAA		
Legal Description:			
Parcel ID:	142822420017	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: 4 Dwelling Sq.ft.: Unfinished Sq. Ft.:

Adults: 2 # Children: 2 # Teenagers:

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

Water-using devices: *(check all that apply)*

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

* Clear water source - should not go into system

Additional current or future uses: Currently 3 Bedroom, may add 4th so sizing for fourth bedroom

Anticipated non-domestic waste: None

The above is complete & accurate: *Client signature & date*

B. Designer-determined flow Information

Attach additional information as necessary.

Design Flow: 600 GPD Anticipated Waste Type: Residential

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

#	Description	Mn. ID#	Well Depth (ft.)	Casing Depth (ft.)	Confining Layer	STA Setback	Source
1	Deep well not on Well Index						
2							
3							
4							

Additional Well Information:

ONSITE SEWAGE TREATMENT PROGRAM

Preliminary Evaluation Worksheet

MINNESOTA POLLUTION CONTROL AGENCY

Site within 200' of noncommunity transient well (Y/N)	No	Yes, source:	
Site within a drinking water supply management area (Y/N)	No	Yes, source:	
Site in a Well Head Protection inner wellhead management zone (Y/N)	No	Yes, source:	
Buried water supply pipes within 50 ft of proposed system (Y/N)	No		
B. Site located in a shoreland district/area?	No	Yes, name:	
Elevation of ordinary high water level:	ft	Source:	
Classification:	Tank Setback: ft.	STA Setbk: ft.	
C. Site located in a floodplain?	No	Yes, Type(s):	
Floodplain designation/elevation (10 Year):	ft	Source:	
Floodplain designation/elevation (100 Year):	ft	Source:	

D. Property Line Id / Source: ☐ Owner ☐ Survey ☑ County GIS ☐ Plat Map ☐ Other:

E. ID distance of relevant setbacks on map: ☐ Water ☐ Easements ☑ Well(s) ☑ Building(s) ☑ Property Lines ☐ OHWL ☐ Other:

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

Map Units: 302B Rosholt Sandy Loam — Slope Range: 2-6 %

List landforms:

Landform position(s): Back/ Side Slope

Parent materials: loamy glaciofluvial deposits over stratified sandy and gravelly outwash

Depth to Bedrock/Restrictive Feature: 84 in — Depth to Watertable: in

Map Unit Ratings

Septic Tank Absorption Field- At-grade:	Not Limited
Septic Tank Absorption Field- Mound:	Slightly Limited
Septic Tank Absorption Field- Trench:	Moderately Limited

5. Local Government Unit Information

Name of LGU: City of St. Paul

LGU Contact:

LGU-specific setbacks:

LGU-specific design requirements:

LGU-specific installation requirements:

Notes: No fill in proposed area. Fill in other areas of the lot that require variance to 50' from well from 75'.

Field Evaluation Worksheet

Onsite Sewage Treatment Program

MINNESOTA POLLUTION CONTROL AGENCY

1. Project Information

v 04.02.2019

Property Owner/Client:	Erandi and Jacob Lindsey	Project ID:	
Site Address:	2108 Skyway Drive, St. Paul, MN 55119	Date Completed:	

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):	Lawn			Landscape position:	Back/ Side Slope
Percent slope:	12 %	Slope shape:	Linear, Linear	Slope direction:	southwest

Describe the flooding or run-on potential of site: no flooding potential

Describe the need for Type III or Type IV system:

Note:

Elevations and Benchmarks identified on map? (Y/N):	Yes	If yes, describe:	Concrete slab by garage
Proposed soil treatment area protected? (Y/N):	Yes	If yes, describe:	staked onsite

4. General Soils Information

Filled, Compacted, Disturbed areas (Y/N): Yes

If yes, describe: East of the system is some fill areas towards the garage. No fill in area proposed.

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: 4

Soil observation logs attached (Y/N): Yes

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

5. Phase I. Reporting Information

	Depth		Elevation			
Periodically saturated soil:	none	in		ft	Soil Texture:	medium sandy loam
Standing water:		in		ft	Percolation Rate:	min/inch
Bedrock:		in		ft	Soil Hyd Loading Rate:	gpd/ft^2
Benchmark:				ft		

Benchmarck Location: slab by corner of garage

Differences between soil survey and field evaluation: soil borings were all over the place. In transition zone.

Site evaluation issues / comments:

Anticipated construction issues: Access to area is up significant slope.

Soil Observation Log

Project ID: v 04.02.2019

Client:	Erandi and Jacob Lindsey	Location / Address:	2108 Skyway Drive, St. Paul, MN 55119

Soil parent material(s): (Check all that apply) ☑ Outwash ☐ Lacustrine ☐ Loess ☐ Till ☐ Alluvium ☐ Bedrock ☐ Organic Matter

Landscape Position: (check one) ☐ Summit ☐ Shoulder ☑ Back/Side Slope ☐ Foot Slope ☐ Toe Slope — Slope shape: Linear, Linear

Vegetation:	Lawn	Soil survey map units: 302B	Slope %:	12.0	Elevation: 95.6

Weather Conditions/Time of Day:	partly sunny to cloudy	Date	09/13/19
Observation #/Location:	B1	Observation Type:	Shovel, post hole digger and auger

Depth (in)	Texture	Rock Frag. %	Matrix Color(s)	Mottle Color(s)	Redox Kind(s)	Indicator(s)	Structure: Shape	Structure: Grade	Structure: Consistence
0-8	Sandy Loam	none	10 YR 3/2				Granular	Weak	Friable
8-24	Loamy Fine Sand	less than 10%	10YR 4/4				Single grain	Structureless	Loose
24-31	Sandy Loam	less than 10%	10YR 4/4				Blocky	Moderate	Firm
31-84	Sand	less than 10%	10YR 4/4				Single grain	Structureless	Loose

Comments: some slight reds around rocks and root channels, but no redox

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

Alex Pepin		L4082	9/13/2019
(Designer/Inspector)	(Signature)	(License #)	(Date)

Additional Soil Observation Logs

Project ID:

Client:	Erandi and Jacob Lindsey	Location / Address:	2108 Skyway Drive, St. Paul, MN 55119

Soil parent material(s): (Check all that apply) ☑ Outwash ☐ Lacustrine ☐ Loess ☐ Till ☐ Alluvium ☐ Bedrock ☐ Organic Matter

Landscape Position: (check one) ☐ Summit ☐ Shoulder ☑ Back/Side Slope ☐ Foot Slope ☐ Toe Slope — Slope shape: Linear, Linear

Vegetation:	Lawn	Soil survey map units:	302B	Slope %:	12.0	Elevation:	94.8
Weather Conditions/Time of Day:	2:00 PM partly sunny to mostly cloudy				Date:		09/13/19

Observation #/Location: B2 — Observation Type: Shovel, post hole digger and auger

Depth (in)	Texture	Rock Frag. %	Matrix Color(s)	Mottle Color(s)	Redox Kind(s)	Indicator(s)	Structure: Shape	Structure: Grade	Structure: Consistence
0-10	Sandy Loam	none	10 YR 3/2				Granular	Weak	Friable
10-28	Loamy Fine Sand	less than 10%	10YR 4/4				Single grain	Structureless	Loose
28-84	Sandy Loam	less than 10%	10YR 4/4				Blocky	Moderate	Firm

Comments: similar to B1 but no sand encountered... no redox observed.

Soil Observation Log

Project ID: v 04.02.2019

Client:	Erandi and Jacob Lindsey	Location / Address:	2108 Skyway Drive, St. Paul, MN 55119

Soil parent material(s): (Check all that apply) ☑ Outwash ☐ Lacustrine ☐ Loess ☐ Till ☐ Alluvium ☐ Bedrock ☐ Organic Matter

Landscape Position: (check one) ☐ Summit ☐ Shoulder ☑ Back/Side Slope ☐ Foot Slope ☐ Toe Slope — Slope shape: Linear, Linear

Vegetation:	Lawn	Soil survey map units:	302B	Slope %: 12.0	Elevation (ft): 98.1

Weather Conditions/Time of Day:	2:00 PM party sunny to cloudy	Date:	09/13/19
Observation #/Location:	B3	Observation Type:	Shovel, post hole digger and auger

Depth (in)	Texture	Rock Frag. %	Matrix Color(s)	Mottle Color(s)	Redox Kind(s)	Indicator(s)	Structure		
							Shape	Grade	Consistence
0-8	Sandy Loam	none	10 YR 3/2				Granular	Weak	Friable
8-36	Sandy Loam	less than 10%	10YR 4/4				Blocky	Moderate	Firm
36-60	Sandy Loam	less than 10%	10YR 4/6				Blocky	Moderate	Firm
60-84	Loamy Sand	less than 10%	10YR 4/4				Single grain	Structureless	Loose

Comments: some reds observed around rocks and some depletions observed around root channels. No redox seen.

Additional Soil Observation Logs

Project ID:

University of Minnesota Onsite Sewage Treatment Program

Client:	Erandi and Jacob Lindsey	Location / Address:	2108 Skyway Drive, St. Paul, MN 55119

Soil parent material(s): (Check all that apply) ☑ Outwash ☐ Lacustrine ☐ Loess ☐ Till ☐ Alluvium ☐ Bedrock ☐ Organic Matter

Landscape Position: (check one) ☐ Summit ☐ Shoulder ☑ Back/Side Slope ☐ Foot Slope ☐ Toe Slope — Slope shape: Linear, Linear

Vegetation:	Lawn	Soil survey map units:	302B	Slope %:	12.0	Elevation (ft):	98.1

Weather Conditions/Time of Day:	2:30 PM party sunny to cloudy	Date:	09/13/19
Observation #/Location:	B4	Observation Type:	Shovel, post hole digger and auger

Depth (in)	Texture	Rock Frag. %	Matrix Color(s)	Mottle Color(s)	Redox Kind(s)	Indicator(s)	Structure: Shape	Structure: Grade	Structure: Consistence
0-8	Sandy Loam	none	10 YR 3/2				Granular	Weak	Friable
8-36	Loamy Sand	less than 10%	10YR 4/4				Single grain	Structureless	Loose
36-57	Sandy Loam	less than 10%	10YR 4/6				Blocky	Moderate	Firm
57-84	Sand	less than 10%	10YR 4/4				Single grain	Structureless	Loose

Comments

1. SYSTEM SIZING: Project ID: v 04.02.2019

A. Design Flow: 600 GPD

B. Code Maximum Depth: 48 inches Designers Maximum Depth: 48.0 inches

C. Soil Loading Rate: 0.78 GPD/ft² Contour Loading Rate: 12 gal/ft

D. Required Bottom Area: Design Flow (1.A) ÷ Loading Rate (1.C) = Initial Required Bottom Area

600 GPD ÷ 0.78 GPD/ft² = 769 ft²

E. Select Dispersal Media: ☐ Rock
(selection required) ☐ Registered Product

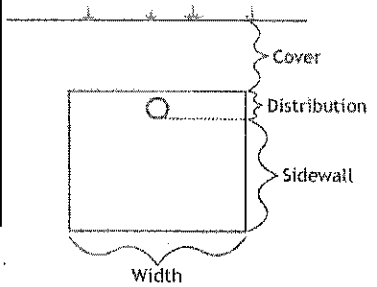
F. Select Distribution Method: ☐ Pressure ☐ Gravity-Drop Box
☐ Gravity-Other Rock with Gravity Drop box

G. If distribution media is installed in contact with sand or loamy sand or with a percolation rate of 0.1 to 5 mpi indicate distribution or treatment method:

2. TRENCH CONFIGURATION: ROCK

A.

Initial required trench bottom area (ft²): (from 1.D)	Sidewall Absorption (inches)	Bottom Area Reduction	Bottom Area Multiplier	Design trench bottom area
	6 to 11		1	
	12 to 17	20%	0.8	
	18 to 23	34%	0.66	
	24	40%	0.6	



B. Select Sidewall Height: 6 inches = 0.5 ft

C. Design Bottom Area (2.A): 769 ft²

D. Select Trench Width: 3 ft

E. Total Designed Trench Length: Bottom Area ÷ Trench Width = Total Required Trench Length

769 ft² ÷ 3.0 ft = 256 ft

F. Calculate Minimum length of each trench based on Contour Loading Rate: Design Flow ÷ CLR =

600 gpd ÷ 12.0 gal/ft = 50.0 ft

G. Number of Trenches: 5 Minimium base on CLR 3 Designed Number of Trenches

H. Length per trench = Actual Trench Length ÷ Number of Trenches (*recommended* to be equal or exceed 2F)

256 ft ÷ 3.0 = 85.4 ft

J. Select Trench Spacing : 7 ft (typically 5 - 12 ft from center to center)

K. Calculate Lawn Area: Trench Length (2.E) X Trench Spacing (2.G) = square feet of lawn area

256 ft X 7 ft = 1794 ft² lawn area

L. Select Depth Required to Cover Distribution Pipe: 0.5 ft (0.33 ft for pressure, 0.5 ft for gravity)

M. Calculate Rock Volume: (Sidewall Height (2.B) + Depth to Cover Pipe (2.J)) X Bottom Area (2.C) = cubic feet ÷ 27 = cubic yards

(0.50 ft + 0.50 ft) X 769 ft² = 769 ft³ ÷ 27 28 yd³

3. TRENCH CONFIGURATION: REGISTERED PRODUCTS - CHAMBERS AND EZFLOW

A.

Initial required trench bottom area (ft^2): (from 1.D)	Sidewall Absorption (inches)	Bottom Area Reduction	Bottom Area Multiplier	Design trench bottom area
	6 to 11		1	
	12 to 17	20%	0.8	
	18 to 23	34%	0.66	
	24	40%	0.6	

B. Registered Product: _____

Check registered product information for specific applicationdetails and design

C. Select Sidewall Height: _____ inches = _____ ft

D. Design Bottom Area (3.A): _____ ft^2

E. Registered Width: _____ ft

F. Minimum Designed Trench Length = Bottom Area (3.C) ÷ Trench Width (3.D)

_____ ft^2 ÷ _____ ft = _____ ft

G. Enter the Registered Product Component Length: _____ ft

H. Number of Components = Minimum Total Length Required divided by Component Length (Round up)

_____ ft ÷ _____ ft = _____ components

I. Actual Total Trench Length = Number of Components X Component Length:

_____ components X _____ ft = _____ ft

J. Calculate Minimum length per trench based on Contour Loading Rate: Design Flow ÷ CLR =

_____ gpd ÷ _____ gal/ft = _____ ft

K. Select No. of Trenches: _____ Minimium based on CLR _____ Designers Number of Trenches

L. Length per trench = Actual Trench Length ÷ Number of Trenches. *Recommended* to be equal or exceed 3.J.

_____ ft ÷ _____ trenches = _____ ft

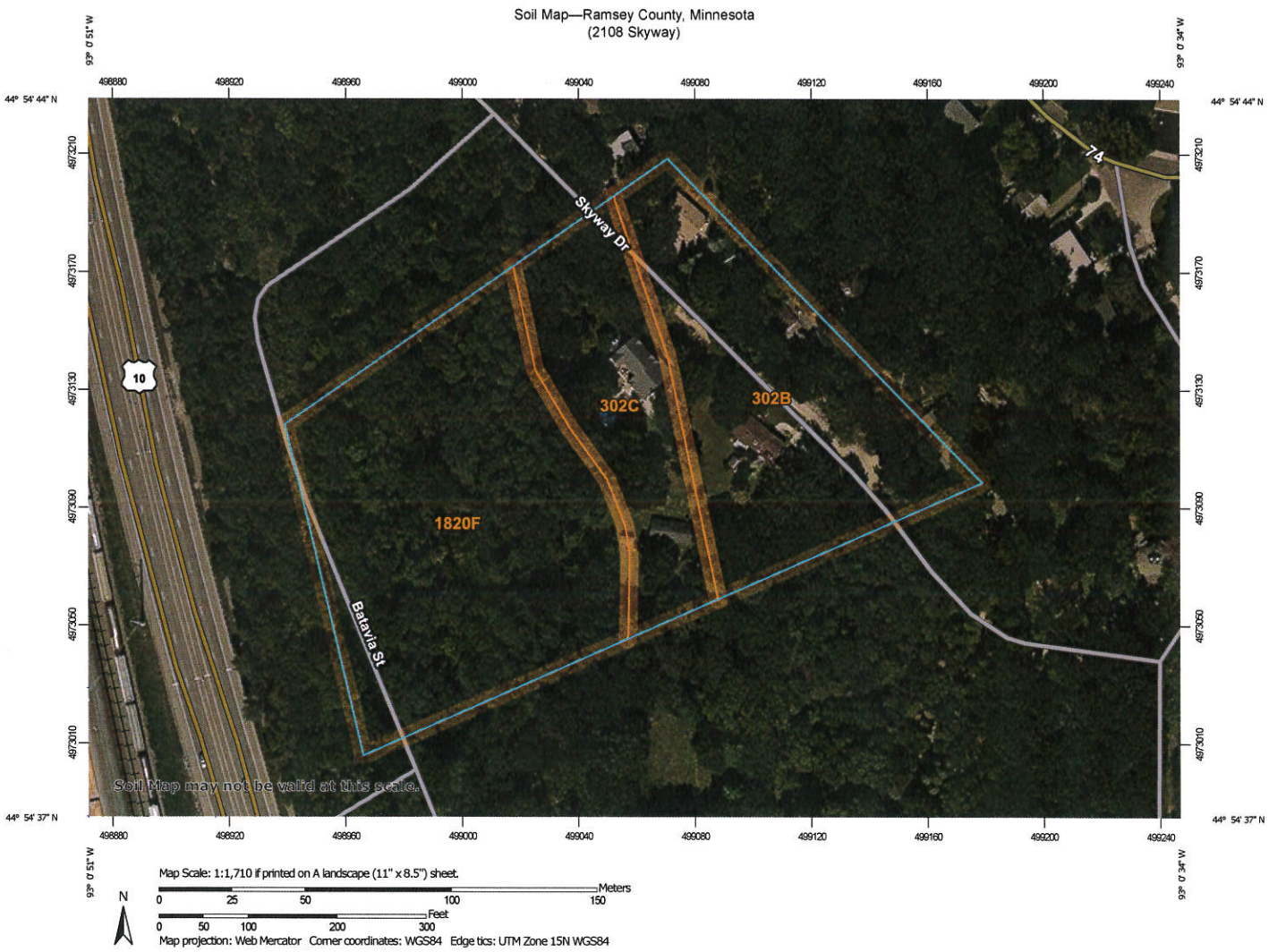
M. Select Trench Spacing : _____ ft (typically 5 - 12 ft from center to center)

N. Calculate Lawn Area: Trench Length X Trench Spacing = square feet of lawn area

_____ ft X _____ ft = _____ ft^2 lawn area

Comments:

Soil Map—Ramsey County, Minnesota
(2108 Skyway)



Map Scale: 1:1,710 if printed on A landscape (11" x 8.5") sheet.

N

0 25 50 100 150 Meters

0 50 100 200 300 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 15N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Ramsey County, Minnesota
Survey Area Data: Version 13, Oct 9, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

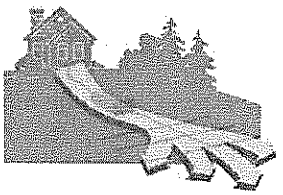
Date(s) aerial images were photographed: Aug 26, 2014—Sep 7, 2014

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
302B	Rosholt sandy loam, 2 to 6 percent slopes	2.1	32.9%
302C	Rosholt sandy loam, 6 to 15 percent slopes	1.2	19.2%
1820F	Mahtomedi variant-Rock outcrop complex, 25 to 60 percent slopes	3.0	47.8%
Totals for Area of Interest		**6.3**	**100.0%**

UNIVERSITY
OF MINNESOTA



Septic System Management Plan for Below 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	Erandi and Jacob Lindsey	Email	
Property Address	2108 Skyway Drive	Property ID	142822420017
System Designer	Alex Pepin	Contact Info	612-248-4281
System Installer		Contact Info	
Service Provider/Maintainer		Contact Info	
Permitting Authority	City of St. Paul	Contact Info	
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.

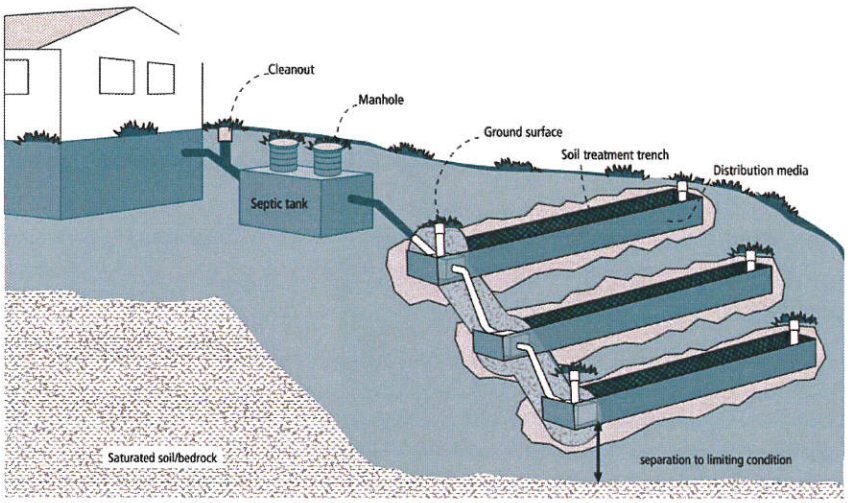
For more information see http://septic.umn.edu

Version: August 2015

UNIVERSITY OF MINNESOTA

Septic System Management Plan for Below Grade Systems

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: 4

System capacity/ design flow (gpd): 600

Average daily flow (gpd): 420

Comments _____

Business? ☐ Y N What type? _____

Well Construction

Well depth (ft): >100 ft

- ☐ Cased well Casing depth: _____
- ☐ Other (specify): _____

Distance from septic (ft): >50

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 Precast Concrete
- ☐ Effluent screen: ☐ Y N Alarm ☐ Y N
- ☐ Pump tank (*if one*) _____ *gallons*
- ☐ Effluent pump *make/model*: _____

  Pump capacity _____ GPM

  TDH _____ Feet of head
- ☐ Alarm ☐ Y N Location _____

Soil Treatment Area (STA)

Trenches: 256 total lineal feet

Number of trenches: 3 at 85.33 feet each

STA size (width x length): 25 ft x 85 ft

Location of additional STA: _____

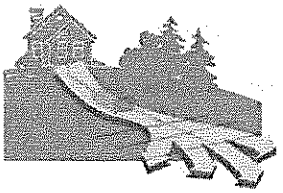
Type of distribution media: Rock

☑ Gravity distribution ☐ Pressure distribution

☑ Inspection ports ☐ Cleanouts

☐ Additional STA not available

☐ Surface water diversions



Homeowner Management Tasks

These op*eration and maintenance ac*tivities 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 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

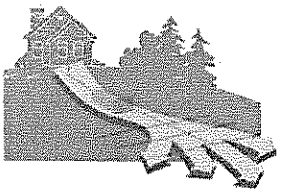
- *Leaks.* Check (listen, look) for leaks in toilets and dripping faucets. Repair leaks promptly.
- *Soil treatment area.* Regularly check for wet or spongy soil around your soil treatment area. If surfaced sewage or strong odors are not corrected by pumping the tank or fixing broken caps and leaks, 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.

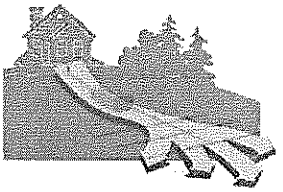
Pump

- *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

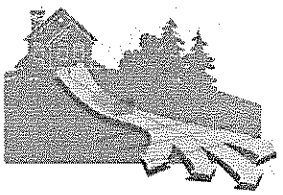
- *Inspection pipes.* Check to make sure they are properly capped. Replace caps and pipes that are damaged.
- *Surfacing of effluent.* Check for surfacing effluent or other signs of problems.
- *Gravity trenches and beds.* Check the number of gravity trenches with effluent ponded in distribution media. Identify the percentage of the system in use. Determine if action is needed.
- *Pressure trenches and beds - 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	• 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.	• 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	• 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.	• 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	• 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.	• 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)	• Finely-ground solids may not settle. Unsettled solids can exit the tank and enter the soil treatment area.	• 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)	• 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.	• 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	• Drip may result in frozen pipes during cold weather.	• Re-route water directly out of the house. Do not route furnace recharge to your septic system.
Water softener Iron filter Reverse osmosis	• Salt in recharge water may affect system performance. • Recharge water may hydraulically overload the system.	• 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, draintile or old drainfield. • 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
Surface drainage Footing drains	• Water from these sources will overload the system and is prohibited from entering septic system.	



Homeowner Maintenance Log

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

Activity	Date accomplished									
Check frequently:										
Leaks: check for plumbing leaks *										
Soil treatment area check for surfacing **										
Lint filter: check, clean if needed *										
Alarms **										
Check annually:										
Water usage rate (max 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: Alex Pepin Certification # C9844

Permitting Authority: _____

08136004

Individual Sewage Treatment System Maintenance Review

City of St Paul
Department of Safety and Inspections
375 Jackson Street, Suite 220
Saint Paul, MN 55101-1806
The Most Livable City in America
P: (651) 266-8989

RECEIVED IN D.S.I.
AUG 28 2015

Address: 2108 Skyway Dr. St. Paul
Owner's Name: Jim Morton
Property Owner's Address:

Date: 8-18-15 Owner's Phone #: 651-738-7658 Current Resident: Jim Morton

Date tank was last pumped: 8-18-15
Please include $20.00 maintenance fee, and deliver entire packet to DSI

Circle if repairs or alterations have been made since the last inspection -- YES (NO)

System Condition: Report must be completed by a Pumper or Inspector licensed by the State of Minnesota

1. System appears to be operating correctly	(YES)	NO
-Dry surface above septic system	(YES)	NO
-Solids accumulation is **not** at a critical level	YES	(NO)
-Scum layer in tank is **not** at a critical level	YES	(NO)
-Pump Stations, distribution devices or drop boxes operating properly and no accumulation of solids	(YES)	NO
2. System **DOES NOT** appear to be operating correctly	YES	NO
-Saturated surface above septic system and/or septage discharge onto surface	YES	NO
- Solids accumulation **IS** at a critical level	YES	NO
-Scum layer in tank **IS** at a critical level	YES	NO
-Pump Stations, distribution devices or drop boxes **ARE NOT** operating properly and accumulation of solids	YES	NO
-Sewer is backing up into building	YES	NO
- Any additional evidence of failure list in comments		

Comments

For Additional Comments use other side

All SSTS work has been completed in Accordance with State and City of St Paul Ordinances

Licensed Inspector/Pumper: Pinky's Sewer Service Inc License #: 1673
Address: P.O. Box 854 Alton mn 51001 Phone #: 651-439-7841

Reporting Information

Date of maintenance: 8-18-15 **Reason for maintenance:** Routine

Property address: 2108 Skyway Drive City: St. Paul State: MN Zip: 55119

Property owner's name: Jim Morton

Property-owner's address *if different*:

City: _____ State: _____ Zip: _____ Phone: _____ Fax: _____

1. **Access used to remove septage:** ☐ Maintenance hole ☒ Other (Go to #3 below)

2. **If maintenance hole was used, were all covers securely replaced?** ☐ Yes ☐ No *please explain*

   Explanation: _____

3. **If owner refuses to allow a Subsurface Sewage Treatment System (SSTS) to be pumped through the maintenance hole, have them complete and sign the following statement.**

   I, _____ , refuse to allow the removal of the solids and liquids through the maintenance hole. I understand that removal of solids and liquids through other access points is not considered maintenance.
   (Owner's name)

   Owner's signature: _____ Date: _____

4. **Is the tank designed as a leaky tank?** *(Example: seepage pit, cesspool, drywell, leaching pit)*

   Tank #1: ☐ Yes ☒ No Verification method used? _____

   Tank #2: ☐ Yes ☐ No Verification method used? _____

5. **Is there evidence of tank leakage from a septic, holding, pretreatment or pump tank below the operating depth or evidence of damaged, cracked or structurally unsound maintenance hole covers?**

Tank	Leaking out	Leaking in	Cover damage
Septic/holding Tank #1	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Septic/holding Tank #2	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Pretreatment Tank	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Pump Tank	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No

6. **How many gallons of septage were removed?**

   Tank #1: 1200 Tank #2: _____ Pretreatment Tank: _____ Pump Tank: _____

7. **Is there any sensory (smell and/or sight) evidence of non-domestic wastes?**

   ☐ Yes ☒ No Please explain: _____

   Disposal site: ☒ Wastewater treatment plant ☐ Land application ☐ Other *(please explain below)*

   Explanation: _____

   List any troubleshooting, minor repairs conducted, tank safety* concerns or other concerns:

8. **Certification:** I hereby certify as a State of Minnesota-certified SSTS Maintainer that I personally conducted the work and made the observations, or directly supervised others in the performance of this job.

   Maintainer's name and address: Pinky's Sewer Service

   Maintainer's license #: 1673 Maintainer's phone: 651-439-4847

   Maintainer's signature: [signature] Date: 8-18-15

Vang, Mai (CI-StPaul)

From: Lindsey, Erandi I SSG USARMY NG MNARNG (USA) <erandi.i.lindsey.mil@mail.mil>
Sent: Thursday, June 4, 2020 4:40 PM
To: Vang, Mai (CI-StPaul)
Cc: erandicaviness@hotmail.com
Subject: Variance Request for Septic proposal for 2108 Skyway Drive
Attachments: image001.png; image002.jpg; RE: Septic Design For Property Located at 2108 Skyway Drive in St. Paul (78.1 KB); REVISIONS 5.13.20 - 2108 Skyway Drive Design by Ten Thirty Environmental - Alex Pepin v1.1.pdf; Septic Design For Property Located at 2108 Skyway Drive in St. Paul (2.95 MB); ORIGINAL DESIGN 2108 Skyway Drive Design by Ten Thirty Environmental - Alex Pepin.pdf; Septic Design For Property Located at 2108 Skyway Drive in St. Paul (2.95 MB); Application for Appeal Form-English - Revised 8-11-14 [Fillable]_0.pdf

Importance: High

Good afternoon Mai,

Per the email traffic below you are list as the POC who would be able to assist me with questions regarding a variance petition.

1. I want to ensure I am using the correct form and the attached "Application for Appeal Form" was the only form I was able to find on https://www.stpaul.gov website.

2. Going through the check list of the appeal form, there wasn't an official City-issued orders/letter but rather email traffic from Rick Jacobs. Will this work?

3. Will the office be open tomorrow to drop this appeal off? Or will you accept this electronically with digital signature?! I can come in tomorrow to pay the filing fee.

4. I see there was a deadline on submission of 10 days. We didn't receive the email from Rick until the afternoon on 22 MAY. I work fulltime for the MNARNG by the airport in St. Paul at the Army Aviation Facility #1 and the state was recently active which has contributed to the delay of our appeal. I hope this will not be an issue for our submission.

Please let me know if there is anything else needed in order to get this process started.

Respectfully,

SSG Erandi I. Lindsey
Rear Det BDE Medical Readiness NCO/
Aviation Medical Operations NCO
34 ECAB

☎ O: (651) 281-3855
☎ C: (651) 424-9915
Fax: 651-281-3485
erandi.i.lindsey.mil@mail.mil

-----Original Message-----

From: Jacobs, Rick (CI-StPaul) [mailto:rick.jacobs@ci.stpaul.mn.us]
Sent: Friday, May 22, 2020 12:21 PM
To: Lindsey, Erandi I SSG USARMY NG MNARNG (USA) <erandi.i.lindsey.mil@mail.mil>; tony_scully@yahoo.com; alex.pepin@tenthirtyenvironmental.com; Harr, Stephanie (CI-StPaul) <Stephanie.Harr@ci.stpaul.mn.us>
Cc: Ubl, Stephen (CI-StPaul) <stephen.ubl@ci.stpaul.mn.us>; Moermond, Marcia (CI-StPaul) <marcia.moermond@ci.stpaul.mn.us>; Vang, Mai (CI-StPaul) <mai.vang@ci.stpaul.mn.us>; Haddow, Ross (CI-StPaul) <ross.haddow@ci.stpaul.mn.us>; Graybar, Matthew (CI-StPaul) <Matthew.Graybar@ci.stpaul.mn.us>; Fernlund, Steve (CI-StPaul) <steve.fernlund@ci.stpaul.mn.us>
Subject: [Non-DoD Source] RE: Septic proposal for 2108 Skyway Drive

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Hi Stephanie,

Below is the email I sent out at about 11:53am today with one additional email attachment - CANNOT BE APPROVED RE_ Septic Design For Property Located at 2108 Skyway Drive in St_ Paul - that indicates via email to the designer the design cannot be accepted.

From: Jacobs, Rick (CI-StPaul) <rick.jacobs@ci.stpaul.mn.us>
Sent: Friday, May 22, 2020 11:53 AM
To: erandi.i.lindsey.mil@mail.mil; tony_scully@yahoo.com; alex.pepin@tenthirtyenvironmental.com
Cc: Ubl, Stephen (CI-StPaul) <stephen.ubl@ci.stpaul.mn.us>; Moermond, Marcia (CI-StPaul) <marcia.moermond@ci.stpaul.mn.us>; Vang, Mai (CI-StPaul) <mai.vang@ci.stpaul.mn.us>; Haddow, Ross (CI-StPaul) <ross.haddow@ci.stpaul.mn.us>; Graybar, Matthew (CI-StPaul) <Matthew.Graybar@ci.stpaul.mn.us>; Fernlund, Steve (CI-StPaul) <steve.fernlund@ci.stpaul.mn.us>
Subject: Septic proposal for 2108 Skyway Drive

Hi all,

Please see this update and additional information required for the proposed Subsurface Soil Treatment System (Septic system) design at 2108 Skyway Drive, Saint Paul, MN.

Plans have been submitted to the St. Paul Department of Safety and Inspections (DSI) Plumbing Section, Rick Jacobs, Senior Plumbing Inspector, atrick.jacobs@ci.stpaul.mn.us < Caution-mailto:rick.jacobs@ci.stpaul.mn.us > (651-266-9051) and Steve Ubl, Senior Building Inspector, atstephen.ubl@ci.stpaul.mn.us < Caution-mailto:stephen.ubl@ci.stpaul.mn.us > (651-266-9021).

5/4/20 – Original Plans were submitted.(See attachment: ORIGINAL DESIGN)

5/6/20 – Verification via DSI and Sewer Utilities that no connection to the municipal sewer is feasible.(See attachment: Septic Design For Property Located at 2108 Skyway Drive in St. Paul).

5/6-12/20 – DSI Plumbing reviewed the original plans and respond to the designer with corrections and additional information required.(see attachment: RICK & TROY...)

5/13/20 – Updated revised plans were sent to DSI still indicating a 50 foot well to tank setback. A same day DSI Plumbing Review was performed and a response was sent on the plan revisions. An indication was received via email from the designer to DSI that a variance to Chapter 50 will be entertained. An email was sent by DSI Plumbing to the designer indicating the variance request would require a patition sent to the Legislative Hearing Officer and the Chapter 50 section on variances was sent to the designer.

5/21/20 – A call was received by Rick Jacobs from the owner and a conversation was held on questions and comments about the system design and the procedure for filing a variance for SSTS systems.

5/22/20 – This Email sent by Rick J.

Based on the review, DSI has these recommendations for next steps.

1. Apply for a DSI Plumbing Permit.
2. After the Plumbing Permit is received, DSI will require an onsite visit for the purpose of design review, soil verification, and to witness existing conditions. Attendees will be Department of Safety and Inspections (DSI) Senior Plumbing Inspector and MPCA SSTS Certified Inspector Rick Jacobs, DSI Plumbing Inspector and MPCA SSTS Certified Inspector Troy McManus, the MPCA Certified Installer, and the MPCA SSTS Certified Designer.
3. The cesspool will need to be pumped and filled per MPCA requirements with DSI being sent a pump report.
4. Verify if there is any tree removal that tree removal will be allowed, indicate the Authority Having Jurisdiction over any tree removal, indicate any requirements from that authority and the approval to remove the trees. (The requirements for the Tree Preservation District?)
5. Show all wells within 100 feet in the design, indicated the distances from the system and that they are at least 75 feet or greater away from the system. The revised plans still indicate a 50 foot setback from the well to the tank. St. Paul City Ordinance in Chapter 50 requires a 75 foot setback. If the owner and designer wish to further pursue this design indicating a 50 foot setback, the owner must apply for a well distance variance with the Legislative Hearing Officer.
6. The owner of 2108 Skyway Drive must sign all design paperwork.
7. Indicate in the design that a "licensed Electrical Contractor" will obtain all required permits for all required Electrical work.

Please make these revisions to the design proposal, attain the necessary approvals or signatures, and send back to DSI for approval.

Please visit the city website for a petition application should you chose to request a variance.

Below is the Legislative Hearing Coordinator contact information who will be better able to assist you with any questions regarding a variance petition.

Mai X. Vang
Legislative Hearing Coordinator
Saint Paul City Council
15 W Kellogg Bvd, Ste. 310
Saint Paul, MN 55102

P: 651-266-8563

F: 651-266-8574

mai.vang@ci.stpaul.mn.us < Caution-mailto:mai.vang@ci.stpaul.mn.us >

Making Saint Paul the Most Livable City in America