



Becker County Planning & Zoning 915 Lake Ave Detroit Lakes, MN 56501 (218) 846-7314 www.co.becker.mn.us

Certificate of Compliance

Inspection Report - Permit #: SS2020-823

Owner & Property Information

Owner Name: DAVID DEHAUT
DAVID DEHAUT

Mailing Address: 37105 BRIETBACH RD

PARK RAPIDS MN 56470

Parcel #: 270039000

Secondary Parcel #:

Site Address:	37105 BRIETBACH RD
Township - Sec/Twp/Rng:	SAVANNAH - 13/142/036
Legal Description:	LOTS 3 & 4 & SW1/4
Designer:	Don Umthun, L1867 (Don Umthun)
Installer:	OTHER – Not listed (please add in next field and we will add to our list)

Inspector Verified Specifications

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Insp- Effluent Screen Installed:	No
Insp- Alarm Required:	Yes
Insp- Lift Pump in System:	Yes
Insp- Number of Bedrooms:	4

Insp- Tank Nbr/Size:	2/1500 and 750
Insp- Drainfield Type:	Mound
Insp- Drainfield Size:	500
Insp- Soil Verification:	#1:N/A #2:N/A #3:N/A

Inspector Verified Setbacks

Insp- Tank Dist to Road	200+
Insp- Tank Dist to Nearest Prop Line	200+
Insp- Tank Dist to Nearest Structure	200+
Insp- Tank Dist to Well	54
Insp- Tank Dist to OHW	na
Insp- Tank Dist to Pond/Wetland	50+
Insp- Tank Dist to Pressure Line	

Insp- Drainfield Dist to Road	200+
Insp- Drainfield Dist to Nearest Prop Line	200+
Insp- Drainfield Dist to Nearest Structure	87
Insp- Drainfield Dist to Well	87
Insp- Drainfield Dist to OHW	na
Insp- Drainfield Dist to Pond/Wetland	50+
Insp- Drainfield Dist to Pressure Line	

Certificate of Compliance

(Yes) Certificate is hereby granted based upon the application, addendum from, plans, specifications and all other supporting data. With proper maintenance, this system can be expected to function satisfactory, however this is not a guarantee.

Certification Date: 9/17/2021

Zoning Office Signature:

Joe Doll - ISTS Inspector

^{*} Certificate of Compliance is not valid unless signed by a Registered Qualified Employee *

Permit # SS2020-823 Field Review Form **Property and Owner** Owner: DAVID DEHAUT Parcel Number: 270039000 Site Address: 37105 BRIETBACH RD Secondary Parcel: Home Information Inspector verified Does the structure contain any of the following Designer submitted elements? Garbage disposal? Y Garbage disposal: No Dishwasher? Y 🕪 Dishwasher: Invalid Field Grinder pump: Invalid Field Grinder pump? Y 5 Lift pump in basement? Y 🖎 Lift pump in bsmt: Invalid Field Number of bedrooms: 4 Review - Number of bedrooms: Effluent screen Effluent screen installed? Y N Mfr: Alarm: Yes Type: electric Review - Alarm? Y N Type & Mfr: Lift pump in system: Yes Review - Lift pump in system? Mfr: Component Information Mfr: Tank size: 1500gal septic / 750gal lift Review - Tank nbr: size: Drainfield type: Mound Review - Drainfield type: Review - Drainfield status: none / installed / next spring Drainfield size: Full size - 500 Reduced/warr. size -Review - Drainfield size: Absorption area size: 6in Review - Absorption area size: Review - Chamber type: Num: Chamber type/num: Review - Trench sqft/chamber: Trench sqft/chamber -Review - Rock depth: Drainfield rock depth: 6in Soil Verification Vertical separation verified Boring #1: Boring #2: Boring #3: Setback Verification Inspector verified Designer submitted Drainfield Drainfield Tank Distance to... Tank 200+ 200+ Road Nearest prop line 200+ 200+ 200+ 87 Nearest structure 87 54 Well OHW 150+ 166 Pond/Wetland 50+ 50+ 50+ 50+ Pressure line

Date System Installed:

/17/2/Installer: The few

Inspector:

etor:



Pond/Wetland(50):

Becker County Planning & Zoning 915 Lake Ave Detroit Lakes, MN 56501 (218) 846-7314 www.co.becker.mn.us

Yes

Septic Permit #: SS2020-823

next field and we will add to our list)

Owner & Prope	erty Information		
Owner Name:	DAVID DEHAUT	Parcel #:	270039000
Mailing Address:	DAVID DEHAUT 37105 BRIETBACH RD	Secondary Parcel #:	
_	PARK RAPIDS MN 56470	Site Address:	37105 BRIETBACH RD
Phone #:	732-7734	Township -	SAVANNAH - 13/142/036
Lake/River(1000/300):	Yes	Sec/Twp/Rng:	
Lake/River Name:	Boogun (Savannah) [NE Tier 3]	Designer:	Don Umthun, L1867 (Don Umthun)
Pond/Wetland(50)	Yes	14-11	OTHER - Not listed (please add in

Installer:

Specifications	3			
Tank to be Installed:	emine edition in an	Single Septic Tank	Type of Drainfield:	Mound
Total # Tanks Installed:	3	2	Full Size of Drainfield:	500
System Status:	100 3 00 000000	Replacement System	Reduced/Warrantied Size:	Children of the first of the control
System Serves:		Full-Time Dwelling	Absorbtion Area Size:	800
Number of Bedrooms:	į	4	Rock Depth:	ein 6in
Design Flow/GPD:	(L)	600	Chamber Type and Number:	
Garbage Disposal?	53.	No	Chamber Trench SqFt/Chamber:	maneken un insertan sekre innerne karan maniori eri sis
Size of Lift Pump:	\$37	zoeller 151	Is System Pressurized?	Yes
Size of Lift Line:	. }	2	Alarm?	Yes
Soil Sizing Factor:	* .	1.27	Type of Alarm:	electric

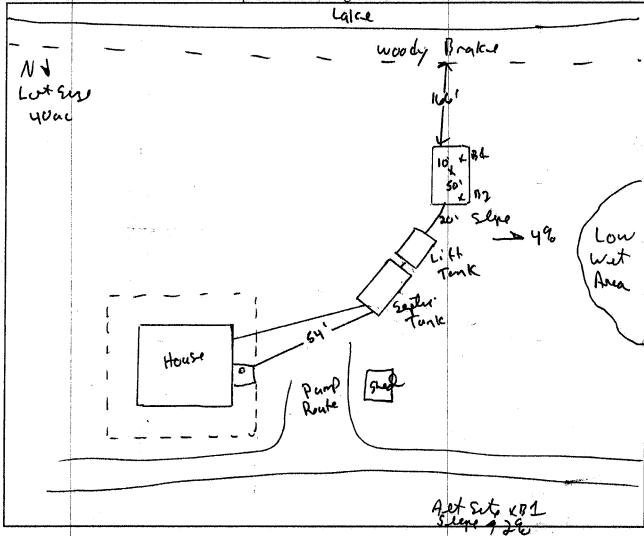
Setbacks			
Road Type:	Public / Township	Right of Way Marked:	No
Tank Dist to Road:	200+	Drainfied Dist to Road:	200+
Tank Dist to Closest Prop Line:	200+	Drainfied Dist to Closest Prop Line:	200+
Tank Dist to Nearest Structure:	200+	Drainfield Dist to Nearest Structure:	87
Tank Dist to Well:	54	Drainfield Dist to Well:	87
Tank Dist to OHW:	150+	Drainfield Dist to OHW:	166
Tank Dist to Pond/Wetland:	50+	Drainfield Dist to Pond/Wetland:	50+
Tank Dist to Pressure Line:	₹50+	Drainfield Dist to Pressure Line:	50+

Other Informa	tion		
Date Approved:	* * * * * * * * * * * * * * * * * * *	11/20/2020	Zoning Office Signature:
Permit Fee:		225.00	
Receipt Number:	7.	1601	Dowise Vi
Date Paid:		8/11/2021	
	with a 2	ptic tank, a 750 gallon li ' sand lift, a 10' X 50' ro ion area	

Property Owner: David Dehaut

Date: November 12, 2020

Please Draw to Scale with North Arrow to top or Left Side of Page



Please show all that apply (Existing or Proposed):

Wells within 100 ft. of a Drainfield Water lines within 10 ft. of a Drainfield

Drainfield Areas Boring Locations Disturbed/Compacted Areas
Component Location

OHW

Lot Easements

Access Route for Tank Maintenance

Property Lines Structures Setbacks

Elevations:

Benchmark Elevation:

Elevation of Sewer Line at House:

Tank Inlet Elevation: Drainfield Elevation:

Pump Elevation:

Pump Discharge Elevation: Restricting Layer Elevation:

evation:

Designer Signature:

Dan 1x

Date: 1- 16 QOLicense Number: 1867

Submit Form

Click the "Submit Form" button to the left to submit the design sheet and an new e-mail message will open with the completed design sheet attached. Please attach the site drawing if applicable and any other necessary paperwork to this e-mail before sending.

Reset Form

Click the "Reset Form" button to the left to clear all information from the form and start again.

Property Owner: David Dehaut

Date: November 12, 2020

Mailing Address: 37105 Brietbach Rd

City: Park Rapids

State: Mn

Zip: 56467

Phone Number: 732-7734

Site Address (if different from Mailing address):

City:

Zip:

Driving directions if no E911 number:

Legal Description:

Sec: 13

Twp: 142

Range: 36

Twp Name: \$avannah

Parcel Number: 270039000

Lake/River:

Lake/River Classification: General Development

Choose the GPD below OR type in the amount in the "Other GPD" box below.

Estimated Flow in Gallons per Day (GPD) Class I | Class II | Class III Bedrooms 300 225 180 218 3 | 450 300 4 600 375 256 750 450 294

900

1050

1200

Other GPD Amount:

Flow Data

Number of Bedrooms: 4 Dwelling Classification: |

System Type: 1 GPD: 600

Wells

Deep Well: Exisiting Deep

Shallow Well: None

Wells to be sealed (if applicable)?

Setbacks

Tank(s) to: Well 54

Drainfield to: Well 87

House 85

House 53 Property Line 10+

Property Line 10+

Sewer Line to well: 50+

525

600

675

332

370

Air Test: No

Additional System Notes and Information:

Designer Name: Don umthun

License Number: 1867

Address: P.O. Box 391

City: Nevis

State: Mn

Zip: 56467

Phone Number: 218-252-6411

E-Mail Address: donumthun@hotmail.com

Property Owner: David Dehaut

Date: November 12, 2020

MPI]

Designer's Initials: du

Tank Sizing

A. Septic Tank Capacity: 1500 Gallons

Tank Type: 1 Compartment Filter: No

Garbage Disposal/Basement Lift Station: No Disposal or Lift

B. Pump Tank Capacity: 750 Gallons (7080.2100)

a. Alarm Type: Electric

Soils

C. Depth to Restricting Layer: 1 ft

D. Depth of Clean Sand at Upslope Edge: 2 ft

E. Native SSF: 1.27 (from table to the right) [Perc. Rate (Optional)

F. Land Slope: 3 %

Rock Bed Dimensions

G. Total square feet: 498 sq. ft

H. Rock Bed Width: 10 ft

I. Rock Bed Length: 50,00 ft

J. Rock Depth: 1 ft Cubic Yards of Rock: 18.52 yds³

Mound Size Calculations

K. AWR (from table to the right): 1.52 Absorption Width: 15.20 ft

L. Downslope Minimum: 5.20 ft

M. Upslope Height: 4.00 ft

N. Enter upslope berm value from Berm Multiplier Table (below): 3,00

O. Upslope Width: 12,00 ft

P. Drop in Elevation: 0.30 ft

Q. Downslope Height: 4.30 ft

R. Enter downslope berm value from Berm Multiplier Table (below): 3.00

S. Downslope Width: 12,90 ft

T. Select the larger number of Step (L) and Step (S): 12.90 ft

U. Mound Width: 34.90 ft

V. Mound Length: 74.00 ft

W. Final Mound Dimensions Are: Width: 34 90 ft by Length: 74.00 ft

Septic Tank Capacity								
Bedrooms	Minimum	GD/BL						
4 or less	1,000	1,500						
5 or 6	1,500	2,250						
7, 8 or 9	2,000	3,000						

Absorption V	Vidth R atio	Table
Texture	SSF	AWR
Sand 🔲	0.83	1.00
Fine Sand	1.67 🔲	2.00
Sandy Loam 🗸	1.27 🔽	1.52 🗸
Loam 🔲	1.67	2.00
Silt Loam	2.00	2.40
Clay Loam	2,20	2.67

					Bern	n Multi	plier Tab	le						
Laı	nd Slope→	0%	1%	2%	3%	4%	5%	6%	7%	8%	9%	10%	11%	12%
Upslope Be	rm↓ 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	2.21
	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	2.70
	5/1	5.00	4.76	4.54	4.35	4.17	4.00	3.85	3.70	3.57	3.45	3.33	3.23	3.12
	6/1	6.00	5.66	5.36	5.08	4.84	4.62	4.41	4.23	4.05	3.90	3.75	3.61	3,49
	7/1	7.00	6.54	6.14	5.79	5.46	5.19	4.93	4.70	4.49	4.30	4.12	3.95	3,80
Downslope l	Berm ↓ 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	4.69
	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	7,69
	5/1	5.00	5.26	5.56	5.88	6.25	6.67	7.14	7.69	8,33	9.09	10.00	11.11	12.5
	6/1	6.00	6.38	6.82	7.32	7.89	8.57	9.38	10.34	11.54	13.04	15.00	17.65	21.4
	7/1	7.00	7.53	8.14	8.86	9.72	10.77	12.07	13.73	15.91	18.92	23.33	30,43	43.7

Property Owner: David Dehaut

Date: November 12, 2020

Determine Pump Capacity

1) Gravity Distribution Pump Capacity Range: 10 - 45 GPM

*Skip to Pump Head Requirements if pumping to gravity

2) Pressure Distribution:

a) Number of laterals: 3

b) Lateral Size: 2 in.

c) Perforation spacing: 3 ft

d) Check Table 4 to see the maximum number of perforations per lateral.

3) Lateral Length (choose):

Rock Bed Length: 50 ft

a) End manifold: 48 ft

b) Center manifold: 24 ft

c) Choose 3a or 3b: 48

4) Total Perforation Determination:

a) 17 Perforations / Lateral

b) 51 Total Number of Perforations

c) Select perforation discharge from Table 1 = .74 GPM/Perf.

d) 37.7 GPM

PUMP HEAD REQUIREMENTS

5) Elevation difference:

a) Elevation difference between pump and point of discharge 7 ft

b) If pumping to a pressure distribution system: 12.0 ft

c) Choose \(\mathbb{O} \) 5a if pumping to gravity or \(\mathbb{O} \) 5b for pressure: 12.0 ft

6) Friction loss:

a) Select a value from Table 2: 2.64 ft / 100 ft of pipe

b) Pipe length to drainfield: $ft \times 1.25 = 25.0 ft$

c) 0.7 Friction Loss

7) Drainback:

a) 20 × gal/ft (Table 3) = 3.4 gal

8) 12.7 Total Head Required

9) Minimum Pump Size 37.7 GPM & 12.7 ft of dynamic head Pump Model: zoeller 151

Designer's Initials: du

	Table 1				
Perforation Discharge (GPM/perf.)					
Ft. of	7/32 Perf	1/4 Perf			
Head	Diameter	Diameter			
1.0	0.56 in.	0.74 in.			
2.0	0.80 in.	1.04 in.			

Table 2							
Friction Loss in Plastic Pipe							
Flow (GPM)	1.5"	2"	3"				
20	2,47	0.73	0.11				
25	3,73	1.11	0.16				
30	5.23	1.55	0.23				
35	6.96	2.06	0.30				
40	8.91	2.64	0.39				
45	11.07	3.28	0.48				
50	13.46	3.99	0.58				
55		4.76	0.70				
60		5.60	0.82				
65		6.48	0.95				
70		7.44	1.09				

Use 1.0 for single homes, 2.0 for everything else

Ta	ble 3		
Volume of I	Liquid in Pipe		
Pipe Diameter	Gal/Ft.		
1.25 in. 0.078			
1.5 in.	0.11		
2.0 in.	0.17		

Table 4 Max Perforations/Lateral						
Perf.	1.25"	1.5"	2"			
Spacing	Pipe	Pipe	Pipe			
2.5 ft.	14	18	28			
3 ft.	13	17	26			
3.3 ft.	12	16	25			
4 ft,	11	15	23			
5 ft.	10	14	22			

County Mound Design Date: November 12, 2020 Dec

Property Owner: David Dehaut

Designer's Initials: du

Proposed Site Boring #1

Depth (in)	Texture	Coarse Frag. %	Color	Structure	Redox
0-6	sandy loam	0%	10yr 3/2	weak	no
6-16	sandy loam	16	10yr 5/4	weak	no
16+	sandy clay loam	ů.	10yr 5/4	blk	yes
			10yr 6/2		

Proposed site Boring #2

Depth (in)	Texture	Coarse Frag. %	Color	Structure	Redox
0-6	sandy loam	0%	10yr 3/2	weak	no
6-16	sandy loam		10yr 5/4	weak	no
16+	sandy clay loam	п	10yr 5/4	blk	yes
			10yr 6/2		

Alternate Site Boring #1

Depth (in)	Texture	Coarse Frag. %	Color	Structure	Redox
0-6	sandy loam	0%	10yr 3/2	weak	no
6-18	sandy loam	н	10yr 5/4	. weak	no
18+	sandy clay loam	ji ,	10yr 5/4	bik	yes
			10yr 6/2		

Alternate Site Boring #2

Depth (in)	Texture	Coarse Frag. %	Color	Structure	Redox
				and the state of t	
	• •				

Soil Sizing Factors/Hydraulic Loading Rates							
Perc. Rate	Texture	SSF	HLR	Perc. Rate	Texture	SSF	HLR
<0.1	Coarse Sand			16 to 30	Loam	1.67	0.60
0.1 to 5	Sand	0.83	1.20	31 to 45	Silt Loam	2.00	0.50
0.1 to 5	Fine Sand	1.67	0.60	46 to 60	Clay Loam	2.20	0.45
6 to 15	Sandy Loam	1.27	0.78	> 60	Clay Loam	****	0.24

	Description of So	oil Treatment Areas		
	Propo	osed Site	Alteri	nate Site
Disturbed Areas?		no		no
Compacted Areas?		no		no
Flooding Potential?		no		no
Run-on Potential?		no		no
Limiting Layer Depth	Proposed #1: 16in	Proposed #2: 16in	Alternate #1: 18In	Alternate #2
Slope % and Direction	4%		2%	
Landscape Position	hill top		side hill	
Vegetation Types	spruce trees	spruce trees		
Soil Texture	sandy loam	sandy loam		
Soil Sizing Factor	.83		.83	

Subsurface Sewage Treatment System Management Plan

Property Owner: David Dehaut	Phone: <u>732-7734</u>	Date: 11/16/2020
Mailing Address:	City:	Zip:
Site Address: 37105 Brietbach Rd	City: Park Rapids Mn	Zip:56470
This management plan will identify the operation performance of your septic system. Some of the must be performed by a licensed septic service.	nese activities must be performed by you, the	ensure long-term e homeowner. Other tasks
System Designer: check every Local Government: check every State Requirement: check every	months.	needs to be checked 36 months.
Surfacing sewage - Regularly Effluentfilter – Inspect and cle Alarms – Alarm signals when to Event counter or water meter	here is a problem. Contact a service provide	il treatment area.
Professional Management Tasks		
€ Check to make sure to	ank is not leaking	
€ Check and clean the i		
€ Check the sludge/scu	m layer levels in all septic tanks	
€ Recommend iftank sh	↓	
€ Check inlet and outlet	baffles	
€ Check the drainfield e	effluent levels in the rock layer	
€ Checkthe pump and	alarm system functions	
€ Check wiring for corre		
€ Check dissolved oxyg	en and effluent temperature in tank	
€ Provide homeowner v	with list of results and any action to be taken	
€ Flush and clean latera	ls if cleanouts exist	
"I understand it is my responsibility to properly ope Management Plan. If requirements in the Manager necessary corrective actions. If I have a new system system."	ment Plan are not met, I will promptly notify the p	permitting authority and take
Property Owner Name:	David Dehaut	11/16/2020
Decigner Signature: Dus b		11/16/2020

See Reverse Side for Home Owner Management Log