

SOIL EVALUATION

FOR A PRIVATE ONSITE WASTE TREATMENT SYSTEM (POWTS)

OWNER

STEVEN M SORENSON REVOCABLE TRUST

LEGAL DESCRIPTION

GOVERNMENT LOT 2, S12, T24N-R19E

VILLAGE OF HOWARD

BROWN COUNTY

WISCONSIN

PARCEL NO: VH-72

Physical Site Address: 4021 Woodland Road



SUGGESTED POWTS COMPONENT

- In-Ground Conventional
- Pressurized In-Ground
- Mound w/<24" to Limitation
- Mound w/24"+ to Limitation
- At-Grade
- Holding Tank
- Pre-Treated
- Individual Site Design Requirement
- Interpretive Soil Report

Date: November 18, 2024

6350 Nero Lane
Sobieski, WI 54171
Phone: 920-822-9918
Fax: 920-822-9937
Email: email@georgeandholdt.com
Web: georgeandholdt.com

SOIL EVALUATION REPORT

George & Holdt - Soil Consultants LLC

In accordance with SPS 385, Wis. Adm. Code

Attach complete site plan on paper not less than 8 1/2 x 11 inches in size. Plan must include, but not limited to: vertical and horizontal reference point (BM), direction and percent slope, scale or dimensions, north arrow, and location and distance to nearest road.

Please print all information.

Personal information you provide may be used for secondary purposes (Privacy Law, s. 15.04(1)(m)).

County BROWN	
Parcel I.D. VH-72	
Reviewed by	Date

Property Owner STEVEN M SORENSON REVOCABLE TRUST				Property Location <input checked="" type="checkbox"/> <input type="checkbox"/> Govt. Lot 2 ¼ ¼ S 12 T 24 N R 19 E (or) W			
Property Owner's Mailing Address 5270 GLENDALE AVENUE				Lot # "B"	Block # NA	Subd. Name or CSM# PLAT OF SURVEY	
City GREEN BAY	State WI	Zip Code 54313	Phone Number ()	<input type="checkbox"/> City	<input checked="" type="checkbox"/> Village HOWARD	<input type="checkbox"/> Town	Nearest Road 4021 WOODLAND ROAD

New Construction Use: Residential / Number of bedrooms 4 Code derived design flow rate 600 GPD
 Replacement Public or commercial - Describe: _____
 Parent material AEOLIAN SAND (OUTWASH IN PLACES) Flood Plan elevation if applicable NA ft.
 General comments and recommendations: -Suggest an IN-GROUND (Conventional) Component **See page 3 for additional site/design considerations.

1 Boring # Boring Pit Ground surface elev. 99.66 ft. Depth to limiting factor >80 in.

Horizon	Depth In.	Dominant Color Munsell	Redox Description Qu. Az. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	Roots	Soil Application Rate	
									GPD/Ft ²	
									*Eff#1	*Eff#2
Ap	0-14	10YR3/4	NONE	LFS	2MGR	MVFR	AS	2F	0.50	1.00
Bs	14-36	7.5YR4/4	NONE	LFS	SG	ML	CW	2F	0.50	1.00
C	36-80	7.5YR6/4	NONE	FS	SG	ML	---	---	0.50	1.00
-Design Soil Loading Rate: 0.50 gpd/ft ² (1200 square feet of absorption area)										
-Infiltrative Depth of Cells: Stepped cells required, install each cell ~24" deep with a Distribution Box (D-Box)										
-A pump chamber will be required.										
-The proposed system area was field staked with hardwood stakes on 11/18/2024										

2 Boring # Boring Pit Ground surface elev. 104.86 ft. Depth to limiting factor >85 in.

Horizon	Depth In.	Dominant Color Munsell	Redox Description Qu. Az. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	Roots	Soil Application Rate	
									GPD/Ft ²	
									*Eff#1	*Eff#2
Ap	0-10	10YR3/4	NONE	LFS	SG	ML	AW	2F	0.50	1.00
Bw	10-26	7.5YR5/4	NONE	S	SG	ML	CW	2F	0.70	1.60
C	26-85	7.5YR6/4	NONE	S	SG	ML	---	---	0.70	1.60

* Effluent #1 = BOD, > 30 ≤ 220 mg/L and TSS > 30 ≤ 150 mg/L * Effluent #2 = BOD, > 30 ≤ 220 mg/L and TSS > 30 ≤ 150 mg/L

CST Name (Please Print) DAVE GEORGE / GEORGE & HOLDT LLC	Signature 	CST Number 048800004-SP
Address 6350 NERO LANE SOBIESKI, WI 54171	Date Evaluation Conducted November 18, 2024	Telephone Number OFFICE: 920-822-9918 CELL PHONE: 920-366-0655

3

Boring #

Boring
 Pit

Ground surface elev. 107.07 ft.

Depth to limiting factor >86 in.

Horizon	Depth In.	Dominant Color Munsell	Redox Description Qu. Az. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	Roots	Soil Application Rate	
									GPD/Ft ²	
									*Eff#1	*Eff#2
Ap	0-12	10YR3/4	NONE	LFS	2MGR	MVFR	AS	2F	0.50	1.00
Bs	12-29	7.5YR4/4	NONE	FS	SG	ML	CW	2F	0.50	1.00
C	29-86	7.5YR6/4	NONE	FS	SG	ML	---	---	0.50	1.00

Boring #

Boring
 Pit

Ground surface elev. ____ ft.

Depth to limiting factor ____ in.

Horizon	Depth In.	Dominant Color Munsell	Redox Description Qu. Az. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	Roots	Soil Application Rate	
									GPD/Ft ²	
									*Eff#1	*Eff#2
		Soil Auger								

Boring #

Boring
 Pit

Ground surface elev. ____ ft.

Depth to limiting factor ____ in.

Horizon	Depth In.	Dominant Color Munsell	Redox Description Qu. Az. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	Roots	Soil Application Rate	
									GPD/Ft ²	
									*Eff#1	*Eff#2

* Effluent #1 = BOD, > 30 ≤ 220 mg/L and TSS > 30 ≤ 150 mg/L

* Effluent #2 = BOD, > 30 ≤ 220 mg/L and TSS > 30 ≤ 150 mg/L

Steven M Sorenson Revocable Trust

Gov Lot 2, S12, T24N-R19E
Village of Howard
Brown County
Wisconsin
Tax ID: VH-72
Physical Site Address: 4021 Woodland Road

Department of Safety and Professional Services (DSPS), Division of Safety and Buildings

Additional Comments and Design Suggestions

Landscape Position: The IN-GROUND (Conventional) Component site is located on a shoulder position on an aeolian dune. Preliminary soil borings conducted in the vicinity of the proposed home revealed a deep (>40") of earthy fill overburden. Based on the fill depth and fill quality in places, the area immediately surrounding the proposed home is not a viable area for a POWTS (septic absorption field).

Site & Design Comments:

- ❖ Home Occupancy: 2
 - ❖ Suggested Design Soil Loading Rate: 0.50 gpd/ft² (1200 square feet of absorption area required)
 - ❖ Infiltrative Depth of Cells: Stepped cells required with a D-Box (see site diagram for elevation detail)
 - ❖ The absorption area was field staked with hardwood stakes on November 18, 2024
 - ❖ **The test areas should remain free of any disturbance; no heavy equipment traffic, no filling, cutting, or grading should take place in or around the proposed POWTS system area.**
 - ❖ **The absorption systems should be installed when soil conditions are dry.**
 - ❖ *It is the responsibility of the owner and septic contractor to know where the proposed POWTS site is and to ensure that the site is not compromised (filling, grading, compaction or vehicle and equipment traffic, etc.*
-

AFTER THE SYSTEM IS INSTALLED/ SUGGESTED MAINTENANCE

(These recommendations are given regardless of the system type)

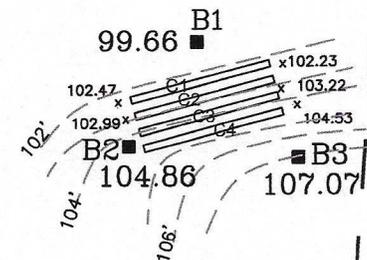
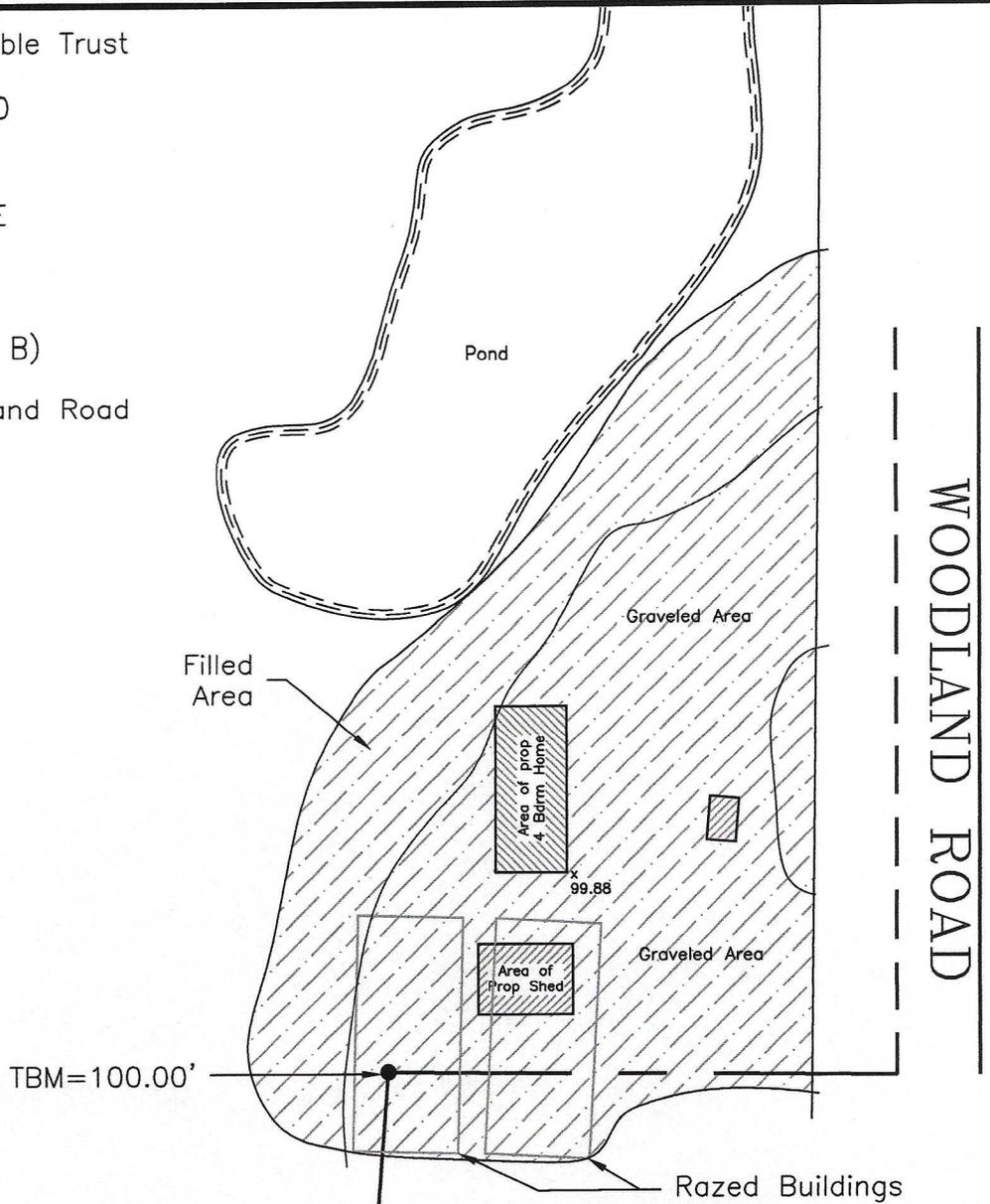
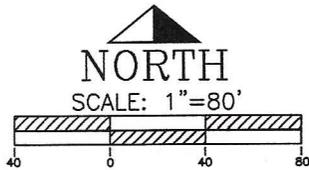
- 1) Pump the septic tank on an annual basis if there are 4 or more occupants.
- 2) **Stagger laundry days, i.e.: do a load or 2 on one day and then again, a day or two later. Avoid shocking the system by doing numerous loads of laundry in one day.**
- 3) Have a water management plan; do not allow 30-minute showers, etc.
- 4) **Avoid using a garbage disposal (this increases BOD and TSS up to 30%)**
- 5) Use high-capacity hot tubs, spa tubs, etc. sparingly.
- 6) Do not dispose of medications by flushing them into the system.
- 7) **Do not discharge iron treatment systems, reverse osmosis systems, sump pumps, water softeners etc. into the septic system.**
- 8) **Do not flush baby wipes, paper towels, pet hair, inorganics, etc. into the septic tank/septic system.**
- 9) Keep woody vegetation off the absorption area.

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Steven M Sorenson Revocable Trust
 5270 Glendale Avenue
 Green Bay, WI 54313-4430

Tax Parcel #VH-72
 Gov't Lot 2,S12,T24N-R19E
 Village of Howard
 Brown County

Parcel Size: 21.83 (Parcel B)
 Land Use: Open Field
 Site Location: 4021 Woodland Road



INFILTRATIVE DEPTH OF CELLS

- C1 = ~100.00'
- C2 = ~101.00'
- C3 = ~101.00'
- C4 = ~102.00'

Key

- Observation Boring
- TBM & HRP(Top of Iron Pipe at P/L Corner = 100.00')

Well must be >50' from the absorption cells and >25' from the treatment tank

House must be >10' from the absorption cells

S.T.H "29-32"



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ACLT Drawing #24-7362