FIELD EVALUATION SHEET

| PRELIMINARY EVALUATION DATE 1/27/24, FIELD EVALUATION DATE PROPERTY OWNER: KY/C + Strong PHONE ADDRESS: 1 - 7/3 1/4 7/4 | | | | | | | |
|--|--|--|--|--|--|--|--|
| LEGAL DESCRIPTION: CITY, STATE, ZIP: MCG/ugar MN 55760 | | | | | | | |
| FIRE# LAKE/RIVER SEC T R TWP NAME Show 1001C FIRE# LAKE/RIVER LAKE CLASS OHWL FT. | | | | | | | |
| DESCRIPTION OF SOIL TREATMENT AREAS AREA #1 AREA #2 DISTURBED AREAS YES NO X YES NO X COMPACTED AREAS YES NO X YES NO X FLOODING YES NO X YES NO X RUN ON POTENTIAL YES NO X YES NO X SLOPE % DIRECTION OF SLOPE LANDSCAPE POSITION VEGETATION TYPES PARTICLE BM ELEV. 100 FT REFERENCE B | | | | | | | |
| DEPTH TO STANDING WATER OR MOTTLED SOIL: BORING# 1 10, 1A 10, 2 12, 2A 18 BOTTOM ELEVATION—FIRST TRENCH OR BOTTOM OF ROCK BED: #1 FT., #2 FT. SOIL SIZING FACTOR: SITE #1 76, SITE #2 76 CONSTRUCTION RELATED ISSUES: | | | | | | | |
| ic# 559 site evaluator signature: | | | | | | | |
| UG REVIEW TELEPHONE# | | | | | | | |
| Comments: Designed with 1650 Combo Seffic fork with additional 500 gallon | | | | | | | |
| Zuthiai Ba 152 fund Soil Boring Logs on Reverse Side | | | | | | | |

SOILS CHARTS FOR BOTH PROPOSED AND ALTERNATE SITES

1 (PROPOSED) SOILS DATA

| DEPTH (INCHES) | 1 | MUNSELL COLOR |
|-------------------|------------|--------------------|
| 61-2011 | topsoil | |
| | Smely loon | 10485/6 10487/2 |
| | 7 | Mottled |
| | | |
| | | |

1 (ALTERNATE) SOILS DATA

| DEPTH (INCHES) | | UKE ZON | (0)10 25 25 25 25 |
|-------------------|------|----------|------------------------|
| 0-6" | TO | P5011 | |
| 6"-12" | 10a | my scrol | 10 YR 5/4 |
| 12"-16" | Sond | y 100m | 10 y R 4/6 |
| | | v | Moffed |
| | | | * |
| | | | ¥ 2 |

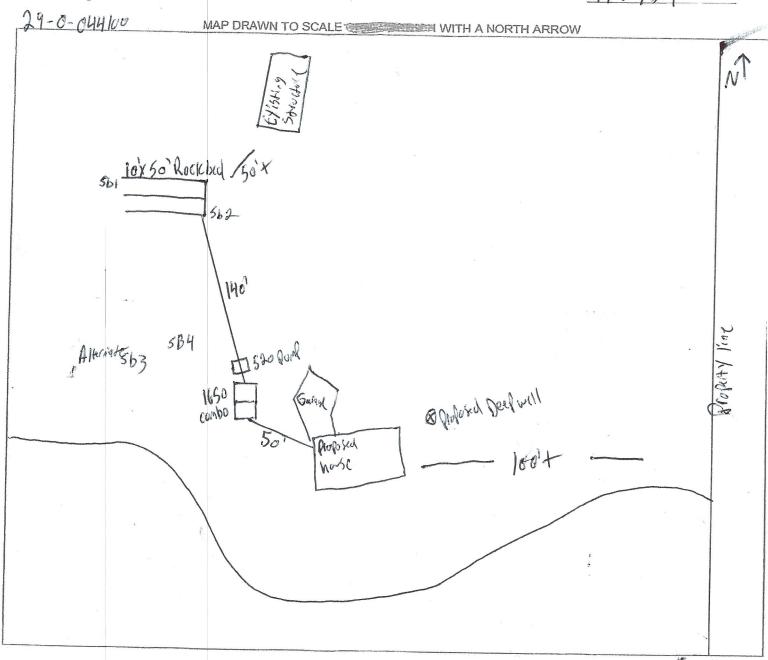
2 (PROPOSED) SOILS DATA

| DEPTH ((NGHES)) | I EXTURE: IV | UNSELL ÖLÖR |
|-----------------------------------|--------------|---|
| 011-411 | Topil | о на на применения в на приме |
| 6-22" | 10am/sod | 104R5/6 |
| 22"-16" | Sordy loan | 10/R6/2 |
| | | mothled |
| | | |
| - Parameter and American American | | |
| * * | | * |

2 (ALTERNATE) SOILS DATA

| | ((((ロギニ))) ((()) (()) (()) (()) (()) (()) (() |
|--|---|
| | 6"-6" Topsoil |
| P. C. | 64 12" 10 un y sand 10 y 18/4 |
| Of small or franchise and an arrangement | 12"-18" gardy lown 10/RE/2 |
| Did Plate Company of the Company of | modified |
| ADDITION OF THE PROPERTY OF THE PARTY OF THE | |
| Physical Companies and Compani | |

ADDITIONAL SOIL BORINGS MAY BE REQUIRED



CHECK OFF LIST-HAVE ALL OF THE FOLLOWING BEEN DRAWN ON THE MAP?? SHOW EXISTING OR PROPOSED WATER WELLS WITHIN 100 FT OF TREATMENT AREAS PRESSURE WATER LINES WITHIN 10 FT OF TREATMENT AREAS STRUCTURES LOT IMPROVEMENTS INDICATE ELEVATIONS ALL SOIL TREATMENT AREAS ☐ ALL ISTS COMPONENTS HORIZONTAL AND VERTICALREFERENCE BENCHMARK POINT OF SOIL BORINGS ☐ DIRECTION OF SLOPE LOT EASEMENTS ELEVATION OF SEWER LINE @ HOUSE 99-16 ALL LOT DIMENSIONS DISTURBED/ COMPACTED AREAS ELEVATION @ TANK INLET SITE PROTECTION-LATHE AND RIBBON EVERY 15 FT ELEVATION @ BOTTOM OF ROCK LAYER 105.82 ACCESS ROUTE FOR TANK MAINTENANCE REQUIRED SETBACKS ELEVATION @ BOTTOM OF BORING OR STRUCTURES PROPERTY LINES RESTRICTIVE LAYER OHWL **ELEVATION OF PUMP** COMMENTS: ELEVATION OF DISTRIBUTION DEVICE 106.82 DESIGNER SIGNATURE LICENSE# L 559 DATE 1/28/24

2011 purple code

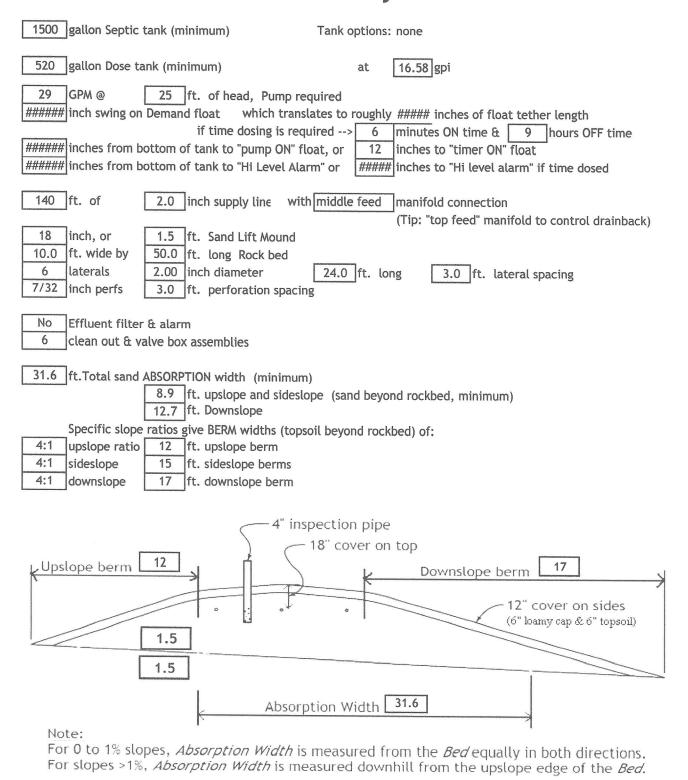
Mound Design - Aitkin county

www.SepticResource.com (vers 15.2)

| | Property Owner: | Kyle & Satcy Strang | Date: 1/28/2024 |
|---------|---------------------------------|--|---|
| | Site Address: | 20713 487th In Mcgregor MN 55760 | PID: 29-0-044100 |
| | Comments: | | |
| instruc | tions: = ente | er data = adjust if desired | = computer calculated - DO NOT CHANGE! |
| 1) | 4 bedroom | Type I Residential | System |
| 2) | 600 GPD design fl | ow | |
| 3) | No Garbage dispo | osal or pumped to septic | |
| 4) | 1500 Gal Septic tar | Immerity to the internation of t | eptic tank (design size / LUG req'd) options: none |
| 5) | 1.2 GPD/ft ² mour | nd sand loading rate contour loading | rate of 12 req's a min 50 ft. long rockbed |
| 6) | 10.0 ft rockbed w | idth 50.0 ft rockbed length | |
| 7) | 3.0 ft lateral space | | (maximum of 3 for both) old connection |
| 8) | 6 laterals | 24.0 feet long 8.5 perfs / latera (1/2 a perf means the | l 51 perfs total e first perf starts at the middle feed manifold) |
| 9) | 7/32 inch perfs at | 1 feet residual head gives 0.56 | gpm flow rate per perforation |
| | for this perf size & sp | acing, & pipe size on line 12, max perfs/later | ral = 30, line #8 must be less> |
| 10) | 4.0 doses per day | (4 minimum) | |
| 11) | 150 gallons per do | ose (treatment volume) | |
| 12) | 2.00 inch diameter | r laterals must be used to meet "4x pipe volun | |
| 13) | 140 feet of | 2.0 inch supply line leads to 24 | 2.00 3x gallons of drainback volume |
| 14) | 174 gallons TOTAI | _ pump out volume (treatment + drainback) | (Tip: "top feed" manifold to control the drainback) |
| 15) | 16 feet vertical l | ift from pump to mound laterals, leads to a: | |
| 16) | 29 GPM @ | 25 feet of head, Pump requirement | (note: >50gpm may require an extra 3-6' of head) |
| 17) | 500 gal Dose tank leads to a | (code minimum) 500 gal Dose tank | (design size / LUG req'd) at gpi |
| 18) | ###### inch swing on | Demand float, or timed dosing of 6 verage flow, =70% of Peak design flow) 9 | min ON (confirm pump rate with drawdown hrs OFF test and adjust as necessary) |
| 19) | 12 inches from b | ottom of tank to "Pump OFF" float | hrs OFF test and adjust as necessary) |
| 20) | | ottom of tank to "Pump ON" float, or 12 ottom of tank to "Hi Level" float, or ##### | inches to "Timer ON" float if time dosed |
| 21) | | Accompany | |
| 22) | ###### gallons reserv | e capacity (after High Level Alarm is activat | ted) |

| [continuous | | | | | | | | |
|-------------|--|--|--|--|--|--|--|--|
| 23) | 0.78 gpd/ft ² Absorption area Soil Loading Rate, which gives a mound ratio of (minimum) (this must match the soil boring log) desired mound ratio 1.5 | | | | | | | |
| 24) | 3 percent site slope (0-20% range) 3 (% downslope site slope, if different than upslope) | | | | | | | |
| 25) | 18 inches, or 1.5 ft. to Redox or other limiting condition (need at least 12" to be a Type I) | | | | | | | |
| 26) | Treatment zone contains 0 inches of 0% soil credit, and 0 inches of 50% soil credit. Giving a: 18 inch, or 1.5 ft. Sand Lift Mound CRITICAL FOR FUTURE CERTIFICATIONS!!! | | | | | | | |
| 27) | 15.0 ft. base absorption width (with sand beyond rockbed as follows:) | | | | | | | |
| | 31.6 greater of: absorption width OR sand slope | | | | | | | |
| 28) | 0.0 ft. upslope and sideslope sand upslope 8.9 | | | | | | | |
| | 5.0 ft. Downslope sand down slope 12.7 | | | | | | | |
| | Individual slope ratios give BERM widths (topsoil beyond rockbed) of: | | | | | | | |
| 20) | Production of the Production o | | | | | | | |
| 29) | 4:1 upslope ratio 12 ft. upslope berm | | | | | | | |
| 30) | 4:1 sideslope 15 ft. sideslope berms | | | | | | | |
| 31) | 4:1 downslope 17 ft. downslope berm | | | | | | | |
| | | | | | | | | |
| 32) | Overall Dimensions: 10.0 ft. wide by 50.0 ft. long Rock bed | | | | | | | |
| | 39 ft. wide by 80 ft. long Mound footprint | | | | | | | |
| | Manufacture description Construction Constructi | | | | | | | |
| | | | | | | | | |
| | 4" inspection pipe | | | | | | | |
| | | | | | | | | |
| | Upslope berm 12 Downslope berm 17 | | | | | | | |
| | DOWNStope Delini | | | | | | | |
| | 12" cover on sides | | | | | | | |
| | (6" loamy cap & 6" topsoil) | | | | | | | |
| | 1.5 | | | | | | | |
| • | 1.3 | | | | | | | |
| | 1.5 | | | | | | | |
| | | | | | | | | |
| | Absorption Width 31.6 | | | | | | | |
| | | | | | | | | |
| | Note: | | | | | | | |
| | For 0 to 1% slopes, <i>Absorption Width</i> is measured from the <i>Bed</i> equally in both directions. | | | | | | | |
| | For slopes >1%, Absorption Width is measured downhill from the upslope edge of the Bed. | | | | | | | |
| 33) | Rock Bed: | | | | | | | |
| | 10.0 ft. by 50.0 ft. by 6 inches under pipe, plus 20% gives 17 yd ³ or *1.4= 24 ton | | | | | | | |
| | | | | | | | | |
| 34) | Mound Sand: (note: volume is based on 3:1/4:1 slope from top of rockbed, Exchange sand for loamy cap if desired) | | | | | | | |
| | 29.8 up + 47.5 downslope + 11.6 ends + 30.6 under rock = 143 yd ³ or *1.4= 201 ton | | | | | | | |
| | plus 20% | | | | | | | |
| 35) | Loamy Cap: | | | | | | | |
| | 35 ft. by 76 ft. 6" deep, plus 20% gives 60 yd3 or *1.4= 84 ton | | | | | | | |
| 36) | Topsoil: | | | | | | | |
| 30) | | | | | | | | |
| | 39 ft. by 80 ft. 6" deep, plus 20% gives 70 yd or *1.4= 98 ton | | | | | | | |
| | I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws. | | | | | | | |
| | 10120 | | | | | | | |
| | | | | | | | | |
| L | Designer Signature Company License# Date | | | | | | | |

Installer Summary



| Rock Bed: | 17.0 yd ³ or *1.4= | 24 ton | 6 inches under pipe |
|-------------|-------------------------------|---------|--|
| Mound Sand: | 143 yd ³ or *1.4= | 201 ton | calculation based on 3:1/4:1 slope from top of rockber |
| Loamy Cap: | 60 yd ³ or *1.4= | 84 ton | 6" deep |
| Topsoil: | 70 yd ³ or *1.4= | 98 ton | 6" deep |

Subsurface Sewage Treatment System Management Plan

| Property | Owner: Kyle & Stacy Strong | Phone: | | Date: 1/28/24 | | |
|---|---|---|--|---|--|--|
| Mailing Address: | | City: | | Zip: | | |
| Site Address: 20713 487 1 | | City: Mc 6 A | | | | |
| ***ADECULE OF THE PARTY OF THE | | City: 190 0 M | , 40 | Zip: 55760 | | |
| must be pe System De Local Gove State Requ | ernment: Recommends SSTS check every | must be perforn maintenance pro months. months. months. | med by you, the home by der. My System nee | e long-term eowner. Other tasks eds to be checked months. | | |
| | | | | | | |
| | er Management Tasks: | | | | | |
| Surfacina s | eck (look, listen) for leaks in toilets and dripping f newage — Regularly check for wet or spongy soil a | aucets. Repair le | aks promptly. | | | |
| Effluent filt | ter — Inspect and clean twice a year or more. | round your son tr | reatment area. | | | |
| | larm signals when there is a problem. Contact a s | service or mainte | nance provider any t | ime an alarm signals | | |
| Event coun | ter or water meter – Record your water use. | | process any co | an aların signais. | | |
| -re | commend meter readings be conducted (circle of | ne: <u>DAILY</u> <u>W</u> | VEEKLY MONTHLY | <u>N/A</u>) | | |
| Licensed se | eptic service provider or maintenance provider (| Charle all that | | | | |
| | Check to make sure tank is not leaking | Cneck all that ap | ply): | | | |
| | Check and clean the in-tank effluent filter (if exi | ete) | | | | |
| | Check the sludge/scum layer levels in all septic | | | | | |
| | Recommend if tank should be pumped | | | | | |
| | Check inlet and outlet baffles | | | | | |
| | Check the drainfield effluent levels in the rock la | ayer | | | | |
| | Check the pump and alarm system functions | | | | | |
| | Check wiring for corrosion and function | | | | | |
| | Check dissolved oxygen and effluent temperatu | re in tank | | | | |
| | Provide homeowner with list of results and any | action to be take | n en | | | |
| | Flush and clean laterals if cleanouts exist | | | | | |
| necessary co system." | ad it is my responsibility to properly operate and maining the Plan. If requirements in the Management Plan are no prective actions. If I have a new system, I agree to addresses where Signature | ot met. I will prom | ptly notify the permitti ne reserve area for futu | ing authority and take re use as a soil treatment | | |
| Designer Si | gnature: Dissolution | | Date: | 128/24 | | |

Maintenance Log

| Activities | | | | | | | | |
|--|--|-------------------------------|------|---|---------|--|--|------------------|
| Activity Date Accomplished Check frequently: | | | | | | | | |
| Leaks: check for all all a | | | | | | - | | |
| Leaks: check for plumbing leaks | | | | | | | | |
| Soil treatment area check for surfacing | | | | | | | | |
| Lint filter: check, clean if needed | | | | | | | | - |
| Effluent screen: if owner-maintained | | | | | | | | |
| Water usage rate (monitor frequency | _) | | | | | | | |
| Check annually: | The state of the s | more Assessment of the second | | | <u></u> | | | |
| Caps: inspect, replace if needed | | | | 1 | T | | | |
| Sludge & Scum/Pump | | | | | | | *************************************** | |
| Inlet & Outlet baffles | | | | | | | | |
| Drainfield effluent leaks | | | | | | | | |
| Pump, alarm, wiring | | | | | | | | |
| Flush & clean laterals if cleanouts exists | | | | _ | | | | |
| Other: | | | | | | | ······································ | |
| Other: | | | _ | | | | | |
| Notes: | | | | | | Namental de la descrica de la fractica por la fractica por la fractica por la fractica por la fractica de la composición del composición de la composición del composición de la composición de la composición de la composición del composición de la composición del composición del composición del compo | | |
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| | | | | | | | terilden en de la region de la r | P-70-0-Auditions |
| | | | | | | | | *haditous |
| | | | | | | in the second se | | |
| | | | | | | | | - Children |