

ENVIRONMENTAL SYSTEMS LLC.

*2358 HWY# 23
MORA MN. 55051
Ph. 320-241-7036*

***EXISTING SITE DESIGN
(LIMITED SPACE)***

07/26/2024

LOCATION: 20814 363rd Lane McGregor MN

PID: 30-1-062600

OWNER: MILLE LACS BAND OF OJIBWE

SYSTEM TYPE: TYPE III MOUND

DESIGN FLOW: BEDROOM DESIGNED @ GPD

TREATMENT AREA: 380 SQ.FT.

SLOPE: 7 %

SEPTIC TANK: 2500 GAL. SPLIT/COMBO

PUMP TANK: BROWN -WILBERT 1000 GAL.

PUMP: GOULDS WE 511H

FLOW METER: SJE RHOMBUS

MODEL# EZP11W6COH1JV8G10EP17A22C

KEVIN HERWIG M.P.C.A. 3945



**MOUND SYSTEM
Type III
ON EXISTING SITE**

The existing mound is to be totally removed and disposed of offsite.

Care needs to be taken during removal to protect existing rough up under existing mound. Leave a thin layer of sand over top of the existing rough up to protect the soil during the period.

Elevations may vary from the elevations on the design a minimum of 3' of washed sand is required above the highest elevation in the rock bed area.

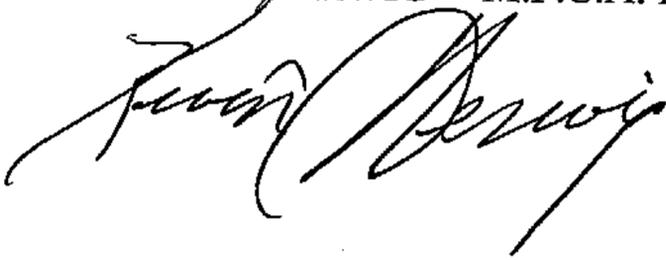
New washed sand will be added to achieve a minimum of 3' on upslope side of rock bed.

It is crucial that the removable area be allowed to dry before any construction commences!

The existing septic tank is to be used as a holding tank during the construction and drying process.

The holding tank must be maintained and pumped for the entire time of the mound construction.

KEVIN HERWIG M.P.C.A. Lic # 3945



ENVIRONMENTAL SYSTEMS LLC.

DESIGN-INSPECTION

2358 HYY#23 MORA MN. 55051

07/26/2024

Ph. 320-679-4031

CONSTRUCTION NOTES

PRODUCT BRAND & MODEL LISTED IN DESIGN MUST BE USED: BROWN-WILBERT 2500 SPLIT SEPTIC TANK

BROWN-WILBERT 1000 PUMP TANK

*****PUMP CHAMBER AND PUMP SETTINGS WILL NOT BE CORRECT IF OTHER PRODUCTS ARE USED.**

GOULDS WE511 PUMP, EFFLUENT FILTER POLYLOK PL-122 W/ALARM

A TWO-WAY

CLEANOUT IS TO BE INSTALLED 1 FOOT OUTSIDE HOME

FLOW CONTROL, METER, AND ALARM: SJE RHOMBUS

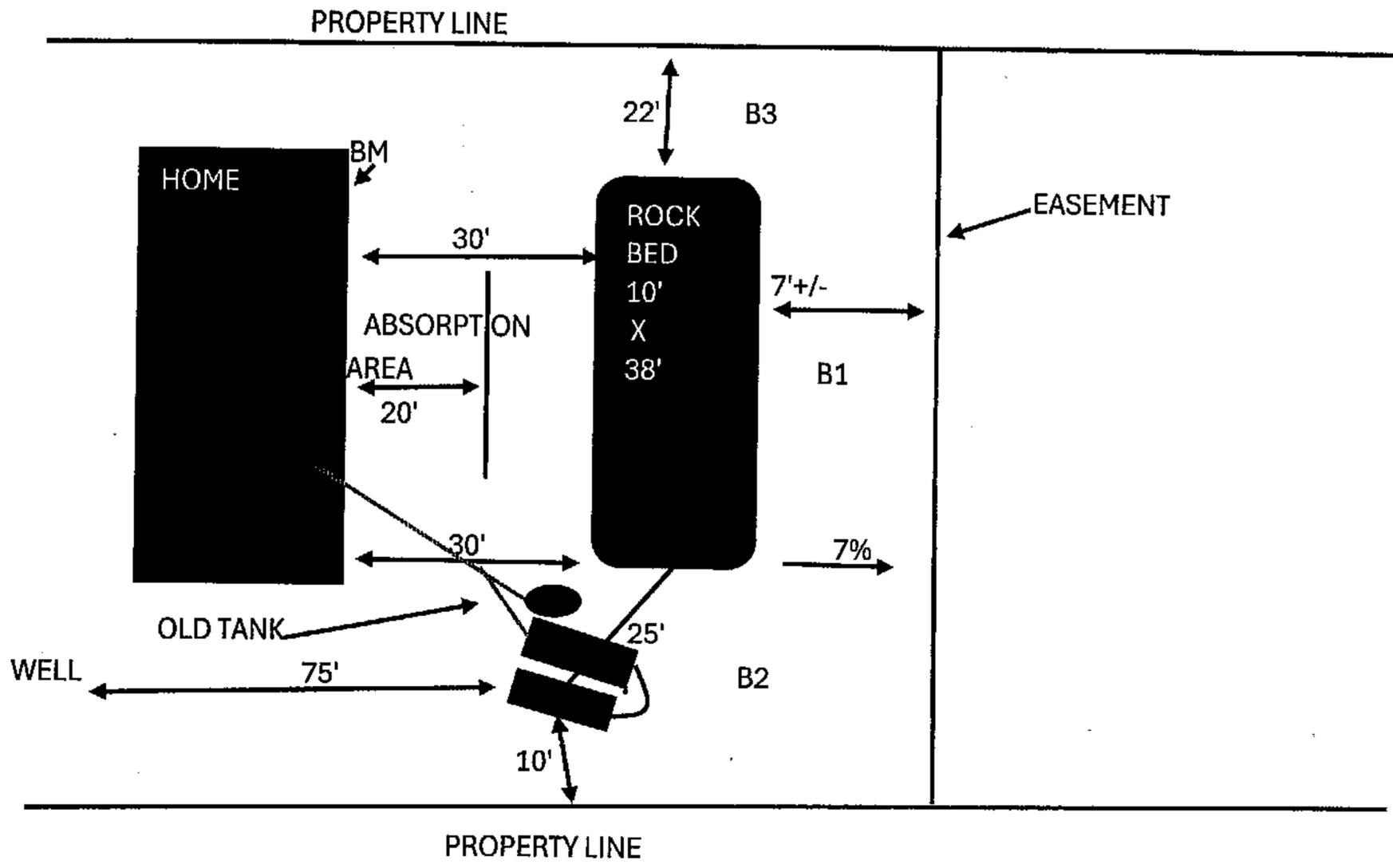
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IT IS THE DESIGNER'S DISCRETION TO APPROVE OR DISAPPROVE SUBSTITUTIONS. THE INSTALLER WILL BE RESPONSIBLE FOR DESIGN CHANGE FEE

KEVIN HERWIG LIC # 3945



NOT TO SCALE



Preliminary & Field Evaluation Form

Owner Information

Date	<u>7/27/2024</u>	Sec / Twp / Rng	<u>20-47-23</u>
Parcel ID	<u>30-1-062600</u>	LUG (county, city, township)	<u>AITKIN COUNTY</u>
Property Owner:	<u>Mille Lacs Band of Ojibwe</u>	Owners address (if different)	
Property Address:	<u>20814 363rd</u>	<u>43408 OoDena Dr</u>	
City / State / Zip:	<u>McGREGOR MN.</u>	<u>Onamia Mn. 56359</u>	

Flow Information and Waste Type / Strength

Estimated Design flow	<u>450</u>	Anticipated Waste strength	<input type="checkbox"/> Hi Strength	<input checked="" type="checkbox"/> Domestic
Comments:		Any Non-Domestic Waste	<input type="checkbox"/> Yes (class V)	<input checked="" type="checkbox"/> No
		Sewage ejector/grinder pump	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
		Water softener	<input type="checkbox"/> Yes	<input type="checkbox"/> No
		Garbage Disposal	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
		Daycare / In home business	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

Site Information

Existing & proposed lot improvements located (see site map)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Well casing depth	<u>>55'</u>	
Easements on lot located (see site map)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Drainfield w/in 100' of residential well	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Property lines determined (see site map)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Site w/in 200' of transient noncommunity water supply (TNCWS)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Req'd setbacks determined (see site map)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Site w/in an inner wellhead mgmt zone (CWS/NTNCWS)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Utilities located & identified (gopher state one call)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Buried water supply pipe w/in 50' of system	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Access for system maintenance (shown on site map)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Site located in Shoreland (w/in 1000' of lake, 300' of river)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Soil treatment area protected	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Site map prepared with previous items included	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

Construction related issues

Soil Information

Evidence of site:

Cut Yes No
Filled Yes No
Compacted Yes No
Disturbed Yes No

Original soils Yes No

Soil logs completed and attached Yes No

Perk test completed and attached (if applicable) Yes No

Soil loading rate (gpd/ft²) 0.60

Percolation rate (if applicable) _____

Depth/elev to SHWT 0.00

Flooding or run-on potential Yes No

Depth to system bottom maximum (or elev minimum) -36.00

Flood elevation (if applicable) _____

Depth/elev to standing water (if applicable) _____

Elevation of ordinary high water level (if applicable) _____

Depth/elev to bedrock (if applicable) _____

Floodplain designation and elev - 100 yr/10 yr (if applicable) _____

Soil Survey information determined (see attachment) Yes No

Differences between soil survey and field evaluation (if applicable) VERY CLOSE

I hereby certify this evaluation was completed in accordance with MN 7080 and any local req's.

Designer Signature

ENVIRONMENTAL SYSTEMS

Company

3945

License #

Mound Design - Aitkin county

Property Owner: Mille Lacs Band of Ojibwe Date: 7/26/2024
 Site Address: 20814 363rd McGregor Mn. PID: 30-0-062300 & 30-0-
 Comments: BUILDING ON THE OLD MOUND SITE (LACK OF SPACE)

Instructions: = enter data = adjust if desired = computer calculated - DO NOT CHANGE!

- 1) bedroom Type Residential System
- 2) GPD design flow
- 3) Garbage disposal or pumped to septic
- 4) Gal Septic tank (code minimum) Gal Septic tank (design size / LUG req'd)
 Tank options: none
- 5) GPD/ft² mound sand loading rate contour loading rate of req's a min ft. long rockbed
- 6) ft rockbed width ft rockbed length
- 7) ft lateral spacing ft perforation spacing (maximum of 3 for both)
 manifold connection
- 8) laterals feet long perfs / lateral perfs total
 (1/2 a perf means the first perf starts at the middle feed manifold)
- 9) inch perfs at feet residual head gives gpm flow rate per perforation
 for this perf size & spacing, & pipe size on line 12, max perfs/lateral = , line #8 must be less --> OK
- 10) doses per day (4 minimum)
- 11) gallons per dose (treatment volume)
- 12) inch diameter laterals must be used to meet "4x pipe volume" requirement
- 13) feet of inch supply line leads to gallons of drainback volume
 (Tip: "top feed" manifold to control the drainback)
- 14) gallons TOTAL pump out volume (treatment + drainback)
- 15) feet vertical lift from pump to mound laterals, leads to a:
- 16) GPM @ feet of head, Pump requirement (note: >50gpm may require an extra 3-6' of head)
- 17) gal Dose tank (code minimum) gal Dose tank (design size / LUG req'd) at gpi
 leads to a:
- 18) inch swing on Demand float, (this delivers Average flow, =70% of Peak design flow)

<input type="text" value="4"/>	min ON
<input type="text" value="8.5"/>	hrs OFF
<input type="text" value="12"/>	inches to "Timer ON" float
<input type="text" value="30"/>	inches to "Hi Level" float
- 19) inches from bottom of tank to "Pump OFF" float
- 20) inches from bottom of tank to "Pump ON" float
- 21) inches from bottom of tank to "Hi Level" float
- 22) gallons reserve capacity (after High Level Alarm is activated-demand dosed)

23) gpd/ft² Absorption area Soil Loading Rate, which gives a mound ratio of (minimum)
 (this must match the soil boring log) desired mound ratio

24) percent site slope (0-20% range) (% downslope site slope, if different than upslope)

25) inches, or ft. to Redox or other limiting condition (need at least 12" to be a Type I)

26) inch, or ft. Sand Lift Mound **CRITICAL FOR FUTURE CERTIFICATIONS!!!**
 Treatment zone contains inches of 0% soil credit, and inches of 50% soil credit. Giving a:

27) ft. Total ABSORPTION width (with sand beyond rockbed as follows:)

28) ft. upslope and sideslope
 ft. Downslope

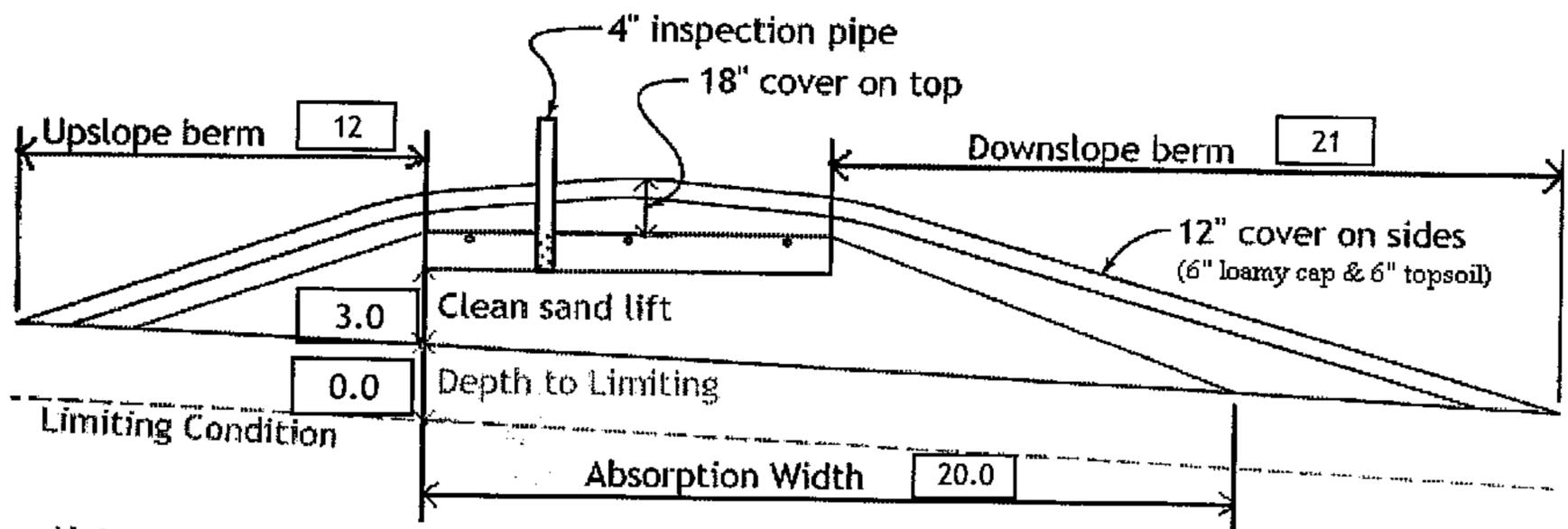
Individual slope ratios give BERM widths (topsoil beyond rockbed) of:

29) upslope ratio ft. upslope berm

30) sideslope ft. sideslope berms

31) downslope ft. downslope berm

32) Overall Dimensions: ft. wide by ft. long Rock bed
 ft. wide by ft. long Mound footprint



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

33) Rock Bed: ft. by ft. by inches under pipe, plus 20% gives yd³ or *1.4= 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)
 up + downslope + ends + under rock = yd³ or *1.4= ton
 plus 20%

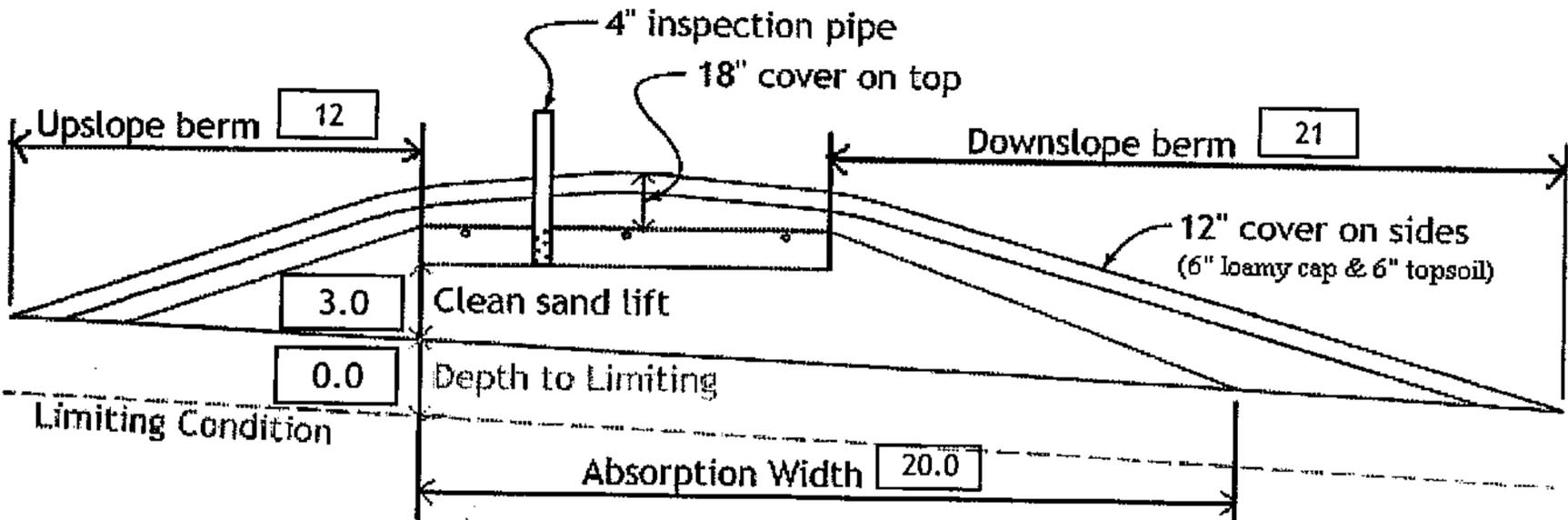
35) Loamy Cap: ft. by ft. 6" deep, plus 20% gives yd³ or *1.4= ton

36) Topsoil: ft. by ft. 6" deep, plus 20% gives yd³ or *1.4= ton

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

Installer Summary

gallon Septic tank (minimum) Tank options: none
 gallon Dose tank (minimum) at gpi
 GPM @ ft. of head, Pump required
 inch swing on Demand float which translates to roughly inches of float tether length
Optional Time dosing of:
 minutes ON
 hours OFF
 inches from bottom of tank to "pump ON" float, or
 inches from bottom of tank to "Hi Level Alarm" or
 inches to "timer ON" float
 inches to "Hi level" float
 ft. of inch supply line with manifold connection
 (Tip: "top feed" manifold to control drainback)
 inch, or ft. Sand Lift Mound
 ft. wide by ft. long Rock bed
 laterals inch diameter ft. long ft. lateral spacing
 inch perfs ft. perforation spacing
 Effluent filter & alarm
 clean out & valve box assemblies
 ft. Total sand ABSORPTION width (minimum)
 ft. upslope and sideslope (sand beyond rockbed, minimum)
 ft. Downslope (sand beyond rockbed, minimum)
 Specific slope ratios give BERM widths (topsoil beyond rockbed) of:
 upslope ratio ft. upslope berm
 sideslope ft. sideslope berms
 downslope ft. downslope berm



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

Rock Bed:	<input type="text" value="13.0"/> yd ³ or *1.4=	<input type="text" value="18"/> ton	6 inches under pipe
Mound Sand:	<input type="text" value="267"/> yd ³ or *1.4=	<input type="text" value="374"/> ton	calculation based on 3:1/4:1 slope from top of rockbed
Loamy Cap:	<input type="text" value="59"/> yd ³ or *1.4=	<input type="text" value="83"/> ton	6" deep

Topsoil: yd³ or *1.4= ton 6" deep

INSPECTOR CHECKLIST - mound

20814 363rd McGregor Mn.

- WELL setbacks: 20'- 50' to sewer line req's MDH pressure test form (5 psi for 15 min)
50' to everything 100' to drainfield with shallow well
- PROPERTY LINES setback: 10' to everything
- Road setback: platted: 10' prop line. Metes & bounds: out of road easement, or outer ditch.
- LAKE / BLUFF setback: 20' for bluff. Lakes: GD ____, RD ____, NE _____. Protected wetland ____.
- Building setbacks: 10' for everything, 20' for dispersal area.
- WATER LINE under pressure 10' to bed, tank & sewer line. (else sewer line > 12" below)

- Sewer line & tank connection (no hard 90's, long sweep 90 or 2-45's, slope minimum 1" in 8' = 1%)
(no depth req's, clean out every 100', Sch 40 pipe)

- Septic tank and risers (water tight risers, baffles, insulated, proper depth, existing verified by pumping)
mfg _____ 2500 gallons none _____

- Riser over outlet, riser over inlet or center, and 6"+ inspection pipe over any remaining baffles.
- No effluent filter & alarm
- Dose tank, risers and piping (water tight risers, insulated, proper depth, drainback)
mfg _____ 1000 gallons

- dose pump _____ 29 gpm 19 head VERIFY PUMP CURVE
verify that installed "vertical lift from pump to laterals" is no more than design value of 13 feet
float setting drop 4.8 inches at 24.5 gpi "DESIGNED" 3.4 inches approx float tether length
117.0 gal dose divided by _____ gpi "INSTALLED" = _____ inches float drop (field corrected)

Optional Time dosing of:
4 min ON 8.5 hr OFF

LABEL pump requirements and drawdown on riser or panel

- Cam lock reachable from grade - 30" max. J-hook weep hole. Supply line access (no hard 90's)
2.0 inch supply pipe: Sch40, sloped 1/8"+, supported by 4" sch40 sleeve or compacted, and buried 6"+.
splice box / control panel / electrical connections / Hi Level Alarm
flow measurement: CT, ETM, time dosed, home water meter
mound absorption area rough up
mound rock dimensions 10.0 X 38.0
Sand lift depth 36 inches. (Jar test : 2" sand leaves < 1/8" silt after 30 min)

- Absorption Sand beyond rock 0.0 upslope 10.0 downslope

- Bermed topsoil beyond rockbed 12 upslope 17 sideslope 21 downslope

- cover depth of 12-18"+ VERIFY
3 laterals (1-2' from edge of rock)
2.00 inch pipe size (Sch40 pipe & fittings)
3.0 ft lateral spacing

- 1/4" inch perforations
3.0 ft perforation spacing

- Air inlet at end of laterals, and at top feed manifold if necessary. VERIFY
clean outs (no hard 90's)
- 4" inspection pipe to bottom of rock, anchored VERIFY

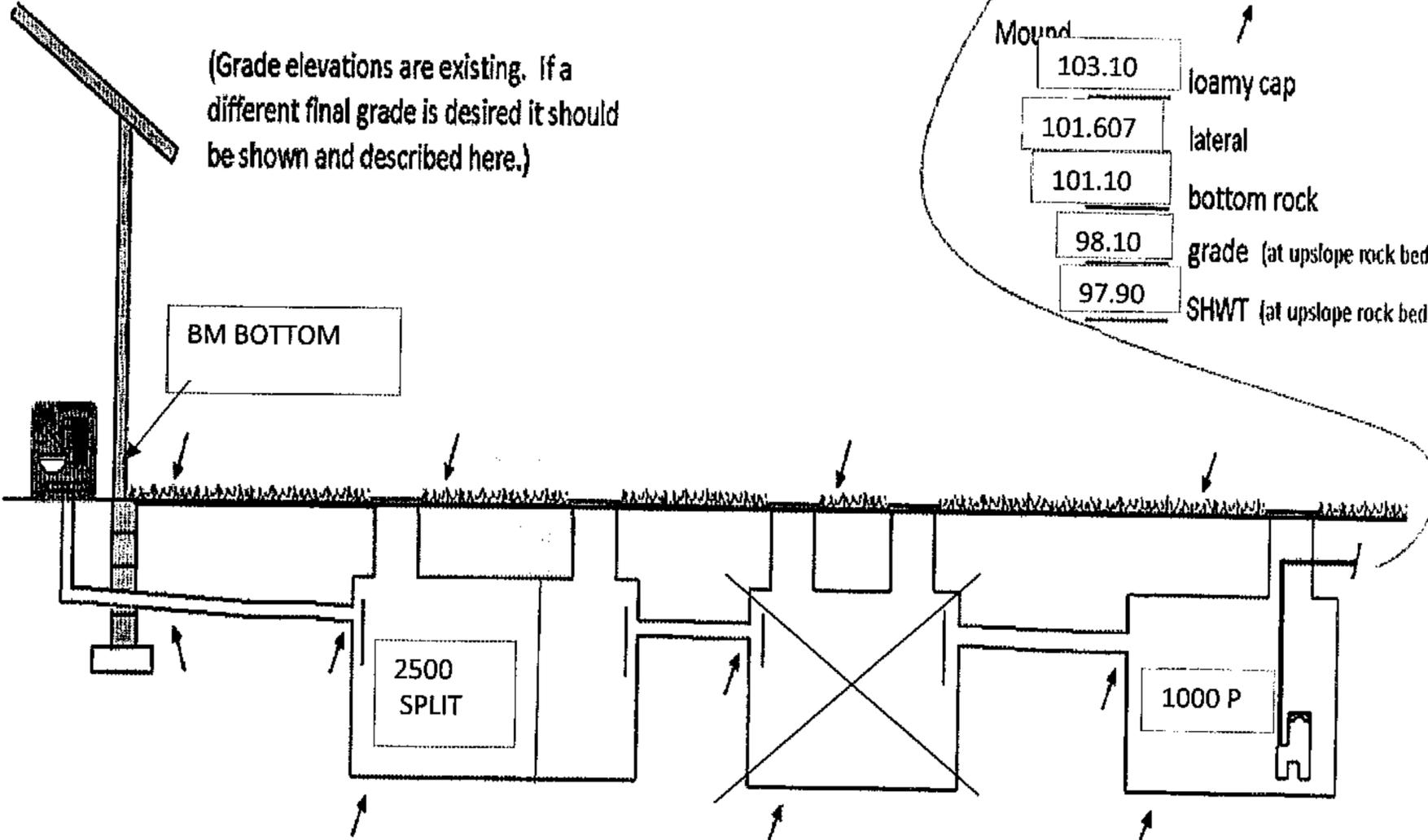
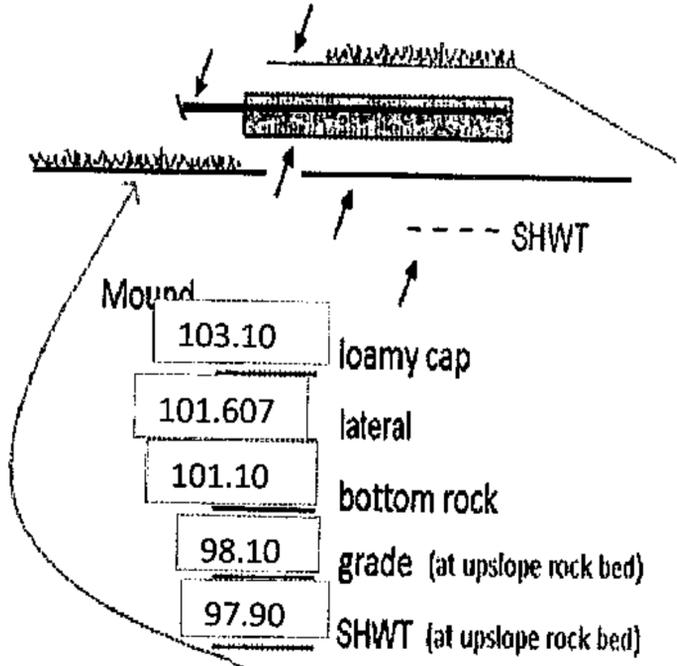
- Abandon existing system - if necessary Re-use existing tank certification

- monitoring plan and type _____
- well abandonment form - if necessary _____

System Elevations

100.00 benchmark BOTTOM OF SIDING

(Grade elevations are existing. If a different final grade is desired it should be shown and described here.)



Sewer pipe exiting house	Septic Tank	Septic Tank (if applicable)	Pump Tank
99.50 Grade	99.25 Grade	_____ Grade	97.70 Grade
97.90 Pipe	96.70 Inlet	_____ Inlet	96.10 Inlet
	91.50 Tank bottom	_____ Tank bottom	92.00 Tank bottom

Soil Observation Log

Owner Information

Property Owner / project: Mille Lacs Band of Ojibwe Date 7/26/2024
 Property Address / PID: 20814 363rd McGregor Mn.

Soil Survey Information

refer to attached soil survey

Parent mat'l's: Till Outwash Lacustrine Alluvium Organic Bedrock
 landscape position: Summit Shoulder Side slope Toe slope
 soil survey map units: 243 slope 7 % direction- downhill

Soil Log #1

Boring

Pit

Elevation 97.4

Depth to SHWT 97.1

Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0-2	Silt Loam	<35	10YR3/1		Friable	Weak	Granular
2-6	Sandy Loam	<35	10YR3/1	10YR5/6	Friable	Weak	Platy
6-11	Sandy Loam	<35	2.5YR5/4	10YR5/6 7.5YR4/6	Friable	Weak	Platy
11-15	Sandy Loam	<35	2.5YR5/2	10YR5/6	Friable	Weak	Platy
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive

Comments:

20814 363rd McGregor Mn.

Soil Log #2

Boring

Pit

Elevation 98.55

Depth to SHWT 98.15

Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0-2	Silt Loam	<35	10YR3/1		Friable	Weak	Granular
2-6	Sandy Loam	<35	10YR3/1	10YR5/6	Friable	Weak	Platy
6-11	Sandy Loam	<35	2.5YR5/4	10YR5/6 7.5YR4/6	Friable	Weak	Platy
11-16	Sandy Loam	<35	2.5YR5/2	10YR5/6	Friable	Weak	Platy
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive

20814 363rd McGregor Mn.

Soil Log #3

Boring

Pit

Elevation 98.08

Depth to SHWT 97.8

Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0-2	Silt Loam	<35	10YR3/1		Friable	Weak	Granular
2-6	Sandy Loam	<35	10YR3/1	10YR5/6	Friable	Weak	Platy
6-11	Sandy Loam	<35	2.5YR5/4	10YR5/6 7.5YR4/6	Friable	Weak	Platy
11-16	Sandy Loam	<35	2.5YR5/2	10YR5/6	Friable	Weak	Platy
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive

I hereby certify this work was completed in accordance with MN 7080 and any local req's.

ENVIRONMENTAL SYSTEMS

3945

Subsurface Sewage Treatment System Operating Permit Application

Use this form to apply for an operating permit.
* Indicates required field

**Aitkin County Environmental Services
Planning & Zoning**
307 Second St. NW, Room 219
Aitkin, MN 56431
218-927-7342
aitkinpz@co.aitkin.mn.us

Facility Information:

*Permittee name:	MILLE LACS BAND of OJIBWE						
*Mailing address:	43408 OoDENA DR	*City:	ONAMIA	*State:	MN	*Zip:	56359
*Email:			*Phone:				
*Parcel ID:	30-1-062600						
Property address:	20814 363rd McGregor Mn. 56359						
*System type:	TYPE III MOUND			*Treatment level:	C		
*System design flow (gpd):	450		*Residential/Commercial:	RESIDENTIAL			
*System components:	2500 SPLIT TANK, 1000 PUMP TANK, 3' SAND MOUND 10'X38' ROCK BED						

Service Provider:

*Name:		*Signed Contract:	<input type="checkbox"/> Yes	<input type="checkbox"/> No
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Monitoring Requirements:

Parameter	Effluent limits	Frequency	Location
*Design flow (gpd)	450	MONTHLY	EVENT COUNTER
Average flow (gpd)			
*Ponding/Surfacing in soil treatment	NONE ALLOWED	ANNUALY	MOUNDh
CBOD ₅ (mg/L)			
TSS (mg/L)			
FO&G (mg/L)			
Fecal Coliform bacteria (#/100mL)			
Total Nitrogen, Total Phosphorus (mg/L)			
Operational Field Tests, may include: Temperature, Dissolved Oxygen and pH			

Monitoring Requirements Comment Field:

Maintenance Requirements:

Maintenance requirements shall be performed as specified in the Management Plan as prepared by the system's Designer.

System component	Maintenance	Frequency
External grease interceptor		
*Septic tank/Trash tank	Check component functions and settings	Annually
*Pump tank and controls		
Effluent screen	Check and clean	Every three months and when pumped
Advanced treatment product		
UV light disinfection device		
*Soil treatment and dispersal		

Monitoring Protocol

Any sampling and laboratory testing procedures shall be performed in accordance with the proprietary treatment product's protocol, Standard Methods, and at a Minnesota Department of Health approved laboratory. Results shall be submitted to the permitting authority at: Aitkin County Environmental Services, 307 2nd St NW, Room 219, Aitkin, MN 56431 no later than the expiration date listed.

Contingency Plan

In the event the wastewater treatment system does not meet required performance requirements as contained in this operating permit, the owner shall notify Aitkin County Environmental Services within thirty (30) days of receiving non-compliant information. The owner is responsible to obtain the services of a Minnesota Pollution Control Agency (MPCA) licensed Service Provider or other qualified practitioner to complete the required corrective measures.

Authorization

Aitkin County Environmental Services authorizes the Permittee to operate a wastewater treatment and dispersal system at the address named above in accordance with the requirements of this operating permit, attached Management Plan and contract with the Service Provider/Inspector.

This permit is effective on the issuance date and term identified above. This permit and the authorization to treat and disperse wastewater shall expire on the expiration date identified above. The Permittee is not authorized to discharge after the above date of expiration. The Permittee shall submit monitoring and maintenance information on forms as required by Aitkin County Environmental Services prior to the above date of expiration for operating permit renewal. If not renewed within ninety (90) calendar days of the expiration date, it may be required that the system be abandoned in accordance with MN Rule 7080.2500. This permit is not transferable as to person or place.

The owner is required to obtain the services of a Minnesota Pollution Control Agency (MPCA) licensed and trained: 1) Service Provider or Inspector to provide ongoing system operation, maintenance, and monitoring and 2) Maintainer to pump the system's sewage tanks and components. The owner is responsible to provide the name of the Service Provider or Inspector business prior to the issuance of this operating permit. **The owner has secured the services of (named above) as the Service Provider or Inspector for this system through a signed contract.** The Service Provider or Inspector is hereby authorized to provide the required monitoring data and routine maintenance service records to both Aitkin County Environmental Services.

[For systems that generate high strength wastewater, the following items should be added to the operating permit: "If there is a change of use within the facility (i.e., change in menu, increase in food capacity, change in water use fixtures, etc.), the permittee is required to notify Aitkin County Environmental Services and the Service Provider before any changes occurs. Changes to the facility that could potentially impact performance of the wastewater treatment and dispersal system shall not take place until appropriate evaluation has been completed."]

I hereby certify with my signature as the Permittee that I understand the provisions of the wastewater treatment and dispersal system operating permit including maintenance and monitoring requirements. I agree to indemnify and hold Aitkin County harmless from all loss, damages, costs and charges that may be incurred by the use of this system. If I fail to comply with the provisions of this operation permit, I understand that penalties may be issued. If I sell this property during the life of the permit, I will inform the new owner(s) of the permit requirements and the need to renew the operating permit.

*Permittee Name: (Print)			
*Title:		*Date:	
*Permittee Signature:			

Subsurface Sewage Treatment System Management Plan

Property Owner: Mille Lacs Band of Ojibwe Phone: _____ Date: 07/26/2024
Mailing Address: 43408 Oodena Drv City: Onamia Mn Zip: 56359
Site Address: 20814 363rd City: McGregor Mn. Zip: _____

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 service provider or maintenance provider.

System Designer: Recommends SSTS check every _____ months.
Local Government: Recommends SSTS check every _____ months.
State Requirement: Requires SSTS check every 36 months.
(State requirements are based on MN Rules Chapter 7080.2450, Subp. 2 & 3)

**My System needs to be checked
every 1 months.**

Homeowner Management Tasks:

Leaks – Check (look, listen) for leaks in toilets and dripping faucets. Repair leaks promptly.

Surfacing sewage – Regularly check for wet or spongy soil around your soil treatment area.

Effluent filter – *Inspect and clean twice a year or more.*

Alarms – Alarm signals when there is a problem. Contact a service or maintenance provider any time an alarm signals.

Event counter or water meter – Record your water use.

-recommend meter readings be conducted (circle one: DAILY WEEKLY MONTHLY N/A)

Licensed septic service provider or maintenance provider (Check all that apply):

- Check to make sure tank is not leaking
- Check and clean the in-tank effluent filter (if exists)
- Check the sludge/scum layer levels in all septic tanks
- Recommend if tank should be pumped
- Check inlet and outlet baffles
- Check the drainfield effluent levels in the rock layer
- Check the pump and alarm system functions
- Check wiring for corrosion and function
- Check dissolved oxygen and effluent temperature in tank
- Provide homeowner with list of results and any action to be taken
- Flush and clean laterals if cleanouts exist

"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 the 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: _____

Designer Signature: ENVIRONMENTAL SYSTEMS Date: 07/26/2024

See Reverse Side for Management Log

MONITORING AND MITIGATION

SEPTIC SYSTEM CLASSIFIED AS TYPE III

Should the system fail a new site for the septic system may be considered or the owner agrees to repair the septic system if it is possible. If the septic system is not repairable the homeowner agrees to disconnect the septic tanks from the septic system and use and maintain the septic tanks as holding tanks.

MILLE LACS BAND OF OJIBWE and AITKIN COUNTY are to be notified as soon as possible about any operational problems. If a failure occurs the septic pump must be disconnected immediately and remain disconnected until all repairs are completed. A pumping contract will need to be set up with a septic maintenance contractor. A copy of all documents must be submitted to the county.

The system must be monitored for a minimum of three years. The mound system is to be inspected by the homeowner for leaks or saturated areas. Inspections are to be done every month for 36 months. Any leaks or failures in the system must be reported to the county within 24 hours.

All expenses for repair or replacement are the homeowner's responsibility.

Type III systems are not warranted by the Inspector, Designer, or Installer

I _____ property owner of 20814 363rd McGregor Mn.

Hereby agree that as long as I am the owner of the property, to accept all legal and financial responsibility for future system repair and/or replacement expense in the event that failure of the system on the above referenced property occurs.

Owner

Date