

Mound Design Notes - Aitkin county Revised Tank MFG 4/11/24

Property Owner: Luke Magness

Date: 4/11/24

Site Address: 41505 400th Ln. Aitkin Mn 56431

PID: 01-0-004400

Comments: **Mound design may not follow Aitkin co. Auto fill form for mound design.**

- 1 This is a type I mound for a 4 bedroom House. Existing deep well location is North of House (+ 125').
- 2 Owner Will be installing his owner septic system.
- 3 Owner will be installing a Sather 1500 2/Compartment septic tank and a 500 Sather 500 gal. pump tank
- 4 Bench Mark Elevation = 100' , is a nail on a Cottonwood tree West of mound area.
- 5 Install 1500 Sather 2/ Compartment Septic tank for gravity flow from main floor of house (lift in basement)
Install 500 Sather pump tank with gravity flow from septic tank.
- 6 The bench mark is the nail on the Cottonwood tree West of the mound area, BM = Elv. 100'.
Installer to double check bench mark. Installer should confirm bench mark and sand height Elv. with inspector.
Installer should record bench mark Elv. and sand height on installation inspection form.
- 7 The Sather 500 pump tank will be gravity flow from septic tank. Install the pump for 6 demand doses per day. approx. 112 gallons per dose, 7.9 inches of tank level. Install alarm at 3 inches from pump on level.
Install all manholes, inspection pipes and clean-outs to grade or above. (recommend manholes 4" above grade).

MPCA recommends Installing an Effluent filter and Alarm on septic tank outlet.

Designed to Aitkin Co. and MPCA recommendations and requirements.


Designer Signature

Brummer Septic LLC.
Design Company

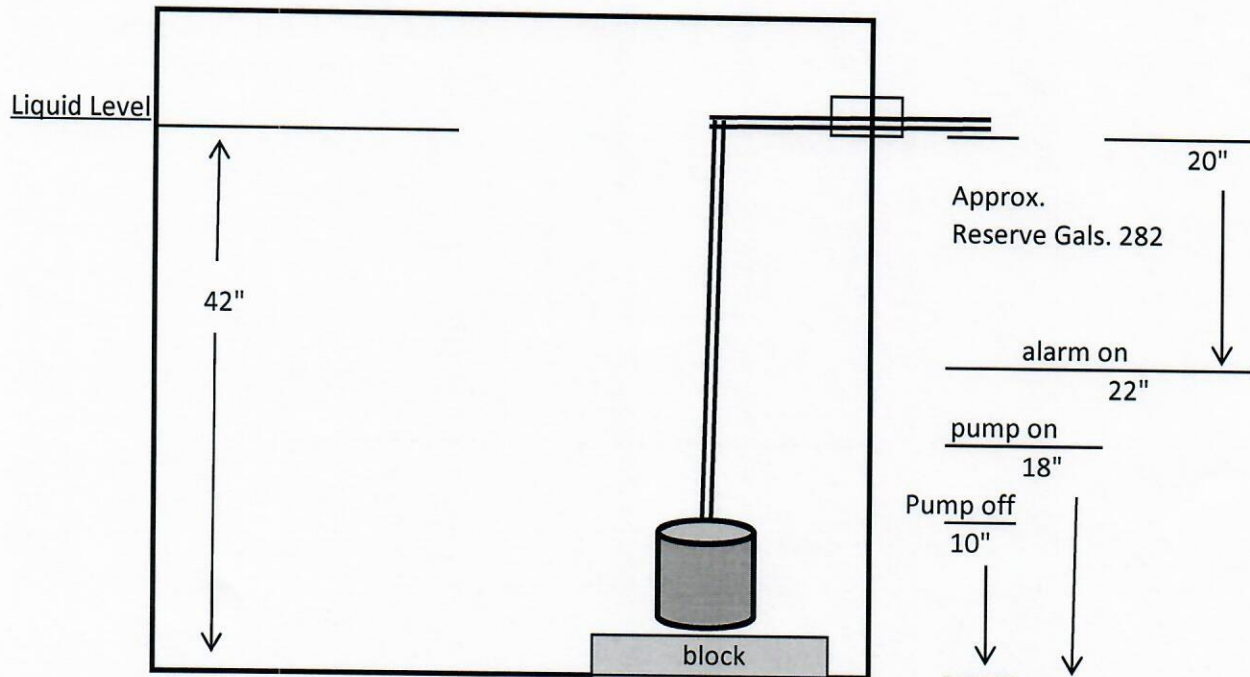
L-1347
License#

Pump settings for Sather 500 gal pump tank.

Luke Magness

Parcel ID. 01-0-004400

Tank Mfg. Sather 500 Gallon Pump tank
Tank Size: MFG. 14.13 gals. Per inch



Assumes 10" pump

Pump out dose at 7.9" = (100 gals. dose + 12 drain back) = 112 pump out gals.

600 gpd ÷ 6 = 100 gals. Per Dose



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SIZE	WIDTH	LENGTH	INLET	OUTLET	GPI
150		48"ROUND	35"	35"	5.71
350		60"ROUND	40"	40"	9.63
500	5'8"	5'3"	42"	42"	14.13
660	5'8"	5'3"	46.5"	46.5"	14.13
800	5'8"	8'3"	42"	42"	23.43
1000	5'8"	8'3"	48"	46"	23.43
1350	6'	11'	46"	44"	33.16
1500	6'	12'	44"	42"	38.18
2500	7'	14'	53"	51"	53.77
2950	7'	14'	61"	59"	53.79

COMBINATION AND COMPARTMENTS

1500	5'8"	12'	48"	46"	23.80/11.81
1600	6'	12'	49"	47"	23.07/14.12
2450	7'	14'	53"	51"	35.70/16.83
2850	7'	14'	61"	59"	35.70/16.83

3-COMPARTMENT

2250	7'	14'	49"	47"	24.77/10.50/16.79
2400	special order 7'	14'	53"	51"	24.50/10.28/16.83
2800	7'	14'	61"	59"	24.50/10.28/16.83

2 Compartment Gals.

3 Compartment Gals.

- 1500 --- 1024 / 503
- 1600 --- 1003 / 614
- 2450 --- 1650 / 800
- 2850 --- 1960 / 925

- 2250 --- 1065 / 451 / 722
- 2850 --- 1340 / 565 / 950

Sather Tank Burial Depths

All models are approved by MPCA

MODEL#	GALLONS	MAX DEPTH
150LL	180	8FT
350JL	356	6FT
500EL	551	7FT
600EL	615	7FT
800EL	914	4FT
1000FS	1111	5FT
1000EL/ES/EH	1019	4FT
1000DS/DL/DH	1059	4FT
1350FS	1376	5FT
1500DL/DS/DH	1508	4FT
1500AC/AP	1002/543	5FT
1500BC/BP	1023/508	6FT
1500CC/CP	1025/504	4FT
1600DC/DP	1004/614	4FT
2250GT	1065/452/722	8FT
2450HC/HP	1651/809	5FT
2500HH/HL/HS	2500	5FT
2950HH/HL/HS	2958	5FT
2400IT	1152/483/791	4FT
2450IC/IP	1678/791	4FT
2500IH/IL/IS	2503	4FT
2900IH/IL/IS	2931	4FT
2800IT	1348/565/926	4FT
2850IC/IP	1964/926	4FT

LAST LETTER IN MODEL#

P=PUMP IN LAST COMPARTMENT

C=COMPARTMENT TWO GRAVITY FLOW

S=SEPTIC GRAVITY TANK

L=LIFT PUMP ONLY

T=TWO COMPARTMENT SEPTIC WITH PUMP IN THIRD COMPARTMENT

H=HOLDING TANK