

# Saint Louis County

Environmental Services Department • Onsite Wastewater Division • 1-800-450-9278

Duluth: 325 W. First St., Suite 300, Duluth, MN 55802, (218) 725-5200  
Virginia: 307 First St. So., East Wing 2R, Virginia, MN 55792, (218) 749-0625

## System Design Summary Sheet

Date: \_\_\_\_\_

Property Owner: \_\_\_\_\_ Phone: (\_\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_

Property Address: \_\_\_\_\_ Township: \_\_\_\_\_

System Designer: \_\_\_\_\_ Phone: (\_\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_

Type of Use: Residential: Y / N # of Bedrooms: \_\_\_\_\_ Commercial: Y / N Type \_\_\_\_\_

Design Max Flow: \_\_\_\_\_ gal./day Average Flows: \_\_\_\_\_ gal./day (generally 67% of design flow)

System Description: \_\_\_\_\_ gallon septic tank to \_\_\_\_\_

Predominate Soil Type: \_\_\_\_\_ Seasonal High Water Table: \_\_\_\_\_ inches from surface

Linear Loading Rate: \_\_\_\_\_ gal./ft./day Soil Loading Rate: \_\_\_\_\_ gal./ft.<sup>2</sup>/day

Water Meter: Y / N Plumbing Pressure Test Required: Y / N

### TANKS (Circle Choice\*)

Number of septic tanks \_\_\_\_\_ # chambers \_\_\_\_\_

\*Septic Tank(s)/chamber(s) size \_\_\_\_\_ gal. & \_\_\_\_\_ gal.

Number of pump tanks \_\_\_\_\_

\*Pump tank(s)/chamber(s) size(s) \_\_\_\_\_ gal. \_\_\_\_\_ gal.

Tank(s) sand/rock bedded: Y/N &/or Insulated: Y/N

ATU – Manufacturer \_\_\_\_\_ Model \_\_\_\_\_

### MOUND

Bed Width \_\_\_\_\_ feet

Bed Length \_\_\_\_\_ feet

Uphill fill depth \_\_\_\_\_ inches

Downhill fill depth \_\_\_\_\_ inches

Downhill berm width \_\_\_\_\_ feet

Uphill berm width \_\_\_\_\_ feet

Adjusted Sand Volume \_\_\_\_\_ cubic yards

### IN GROUND (Circle Type\*)

\*Trench: Rock / Chamber / Synthetic / Gravelless

Total treatment area: \_\_\_\_\_ square feet

Trench length: \_\_\_\_\_ lineal feet

Trench width: \_\_\_\_\_ feet

Number of trenches \_\_\_\_\_

\*Bed dimensions: \_\_\_\_\_ ft x \_\_\_\_\_ ft

Distribution		Laterals	
Drop Box		Gravity	
Distribution Box		Pressurized	
Pressure Manifold			

\_\_\_ Pre-Engineered filter on back. (check if applicable)

### AT GRADE

Rock cell length \_\_\_\_\_ feet

Rock width \_\_\_\_\_ feet

Downhill berm width \_\_\_\_\_ feet

### PRESSURE DISTRIBUTION

Pump performance requirements:

\_\_\_\_\_ gallons/minutes @ \_\_\_\_\_ feet of head

Pump type and size (if known) \_\_\_\_\_

Pump to field line diameter \_\_\_\_\_ inch(es)

Manifold diameter \_\_\_\_\_ inch(es)

Manifold location: Center Feed \_\_\_ End Feed \_\_\_

Number of laterals \_\_\_\_\_

Diameter of laterals \_\_\_\_\_ inch(es)

Orifice size \_\_\_/\_\_\_ inch Spacing \_\_\_\_\_ inches

Dose volume: To Network \_\_\_\_\_ gallons

For Drainback \_\_\_\_\_ gallons

Lateral flush ports Y / N

Orifice shields: Y/N

Time Dose Panel: Y / N

Specify type if known: \_\_\_\_\_

\*Event Counter: Y / N \*Elapsed Time Meter: Y / N

\*(At least one is required for slower soils)

**PRE-ENGINEERED SAND FILTER**

Manufacturer \_\_\_\_\_

Lined \_\_\_\_\_

Bottom Draining \_\_\_\_\_

Length \_\_\_\_\_ feet

Width \_\_\_\_\_ feet

Sand Source: \_\_\_\_\_

Intermittent: \_\_\_\_\_

Recirculating: \_\_\_\_\_

**PRE-ENGINEERED PEAT FILTER**

Manufacturer \_\_\_\_\_

Number of modules \_\_\_\_\_

Bottom draining: Y / N

Dispersal field: Y / N

Type: \_\_\_\_\_

**PRE-ENGINEERED TEXTILE FILTER**

Manufacturer \_\_\_\_\_

Model \_\_\_\_\_

Number of Filters \_\_\_\_\_

Comments: