



Septic System Management Plan
Wexco, Inc
SMART-Treat Onsite MBBR System
Flows < 10,000 gpd with High Strength Waste

This Management Plan identifies some basic requirements for proper operation and maintenance of the **SMART-Treat Onsite MBBR** wastewater treatment device for high strength wastewater with design flows up to 10,000 GPD. Refer to the manufacturer’s Operation and Maintenance Manual for SMART-Treat wastewater treatment products for detailed instructions on proper system operation and maintenance. Refer to your soil treatment system management plan (below or above-grade) for additional management requirements.

The SMART-Treat Onsite Manual, submitted by the manufacturer as part of the registration of this product in Minnesota, can be found at the University of Minnesota’s website at <https://septic.umn.edu/ssts-professionals/manual>. Additional items related to the products registration are available at the MPCA’s website: <http://www.pca.state.mn.us/programs/ists/productregistration.html>.

SYSTEM COMPONENT	TASK	MINIMUM FREQUENCY	RESPONSIBLE PARTY
EHS <u>SMART-Treat Onsite MBBR</u> with Flows up to 10,000 gpd with High Strength Wastewater	Monitor System Operation	On-going	User
	Clean or replace air intake filter	3 times per year, for first year, Adjusted based on performance thereafter	Service Provider
	Monitor flow		
	Check unit for structural integrity: <ul style="list-style-type: none"> • Flexible Air Outlet to blower in place • Retention screen: water flowing through it • Even aeration & media movement • Airlift or submersible biosolids removal pump operational 		
	Verify motor runs smoothly, check amperage.		
	Perform operational field tests on inf. &/eff. quality including odor, color, turbidity, temperature, D.O. and pH as appropriate		
	Sample effluent as required in Operating Permit		
	Check sludge level in grease trap, septic tanks, biosolids clarifier; remove solids in these tanks as appropriate.		
	Check floating matter level in biosolids clarifier tank(s); remove floating matter at normal septic pumping intervals		
	For seasonal use, start aeration 2 weeks prior to flow, maintain aeration 2 weeks at season end, stop blower operation during non-use/		
Check sludge level in grease trap and septic tanks, biosolids clarifier, remove solids if when approach 25% tank volume or 12” of outlet baffle bottom, remove bottom layer (if any) & floating matter in biosolids clarifier	Service Provider and Maintainer		
DO NOT PUMP or remove solids or media from AERATION TANK AT ANY YIME			



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At the time of each service visit, the CIDWT Form 7-2: Aerobic Treatment Unit should be completed or a similar form. See <http://www.onsiteconsortium.org/omspchecklists.html>. **Sampling requirements** are specified in local operating permits. The protocol for collection of wastewater samples is within the effluent baffle area for grease trap or septic tank, and in pump tank downstream of biosolids clarifier. If there is no pump tank, then at effluent baffle or downstream from effluent filter in a gravity flow system.

Minimum sampling frequencies:

Treatment Goal	Design Flow (gpd)	Parameter	Minimum Sampling Requirement*
C	<10,000 gpd	BOD, TSS & O&G	Quarterly for year one Bi-annual, thereafter

*These minimum sampling requirements assume a system that is operated year round. These values may be reduced if the system is not used year round or system performance is established.