

MONTANA DEPARTMENT OF ENVIRONMENTAL QUALITY

NUTRIENT-REDUCING WASTEWATER TREATMENT SYSTEM DESIGNATION FORM

DATE: December 10, 2007 (Updated January 2018)

APPLICATION SUBMITTAL DATE(S): July 6, 2007; September 28, 2007; December 3, 2007

SYSTEM MANUFACTURER: Norweco, Inc.

SYSTEM NAME(S): Singlair Model TNT

DESIGNATED TREATMENT LEVEL¹: Level 2 (Can use 24 mg/L for effluent total nitrogen concentration in nitrate sensitivity analysis)

CONDITIONS:

A. Due to start-up time lag associated with all biologically mediated nutrient reduction systems, Singlair Model TNT systems may not be suitable for commercial-type systems (for example, campgrounds, RV parks, etc) that are designed to be used seasonally. The applicability of Singlair Model TNT systems for nutrient reduction purposes at seasonal commercial-type systems should be based on a case-by-case analysis.

B. Approval is only for Singlair Model TNT systems that include a separate effluent pumping chamber, which is placed between the Singlair tank and the final disposal location. The effluent pumping chamber will include a pump that is electronically connected to the aerator in the Singlair tank. If there is a malfunction with the aerator the effluent pump chamber will not pump any effluent to the disposal location. Systems that siphon or gravity feed to the discharge location are not included in this approval.

C. Approval is valid for residential and non-residential facilities, with no limit on design flows as long as all other applicable laws, rules and design circulars are met.

D. Approval is valid for residential and non-residential facilities with residential strength wastewater as defined in section 1.2.72 of DEQ 4 – 2013 edition). For systems accepting high strength wastes (as defined in section 1.2.39 of DEQ 4 - 2013 edition) the level 2 designation is valid with proper pre-treatment in compliance with all applicable rules, design standards and as approved by the Department.

APPROVED BY: Eric Regensburger

NOTES:

1 The definitions of level 1a, level 1b, and level 2 are in ARM 17.30.702(9), (10) and (11), respectively.