

AGENCY OF NATURAL RESOURCES
Department of Environmental Conservation
1 National Life Drive, Main 2
Montpelier, VT 05620-3521

INDIRECT DISCHARGE PERMIT
FACT SHEET

February 2018

PERMIT NO.: ID-9-0015
 PERMITTEE: Notch Brook Condominium Owners Association
 NATURE OF WASTE: Treated Domestic Sewage
 DISPOSAL METHOD: Leachfields
 DISPOSAL LOCATION: Latitude N 44° 30' 53" and Longitude W 72° 45' 30"
 RECEIVING WATERS: West Branch Waterbury River
 DRAINAGE BASIN: Winooski River

Aquatic Permitting Criteria

Based on water quality monitoring data for the period February 2013 – October 2017, the following table demonstrates that the indirect discharge of treated domestic sewage from the Notch Brook Condominiums in Stowe, Vermont meets the aquatic permitting criteria of the Indirect Discharge Rules in the West Branch of the Waterbury River:

Parameter	Discharge Conc. (a)	Upstream Conc. (b)	Calculated Downstream Conc. (c)	Downstream Conc. (d)	IDR Limits
TDP	0.012 mg/L	0.014 mg/L	0.014 mg/L	0.013 mg/L	0.015 mg/L (e)
NO3	2.61 mg/L	0.38 mg/L	0.39 mg/L	0.37 mg/L	2.0 mg/L
pH	5.35 S.U.	6.20 S.U.	-	6.10 S.U.	5.68 - 6.93 (f)

Notes:

All total dissolved phosphorus (TDP) and Nitrate (NO3) values based on normal distribution of raw or transformed data.

- (a) Mean value based on 40 groundwater sampling results from monitoring wells downgradient of leachfields.
- (b) 95% Confidence Value based on 10 upstream sampling results from West Branch of Waterbury River. Mean value used for pH.
- (c) Based on permitted discharge of 13,770 gpd and estimated low median monthly flow of 2,947,000 gpd in West Branch of Waterbury River.
- (d) 95% Confidence Value based on 10 downstream sampling results from West Branch of Waterbury River. Mean value used for pH.
- (e) Reflects 0.001 mg/L allowed increase above background concentration.
- (f) Based on background pH range.

Proposed Action

The Department of Environmental Conservation intends to issue an indirect discharge permit renewal to the permittee. The following changes have been made to the draft permit:

- Condition D2(C) (Implementation Schedule): The implementation schedule is now due by August 1st each year.
- Condition E2 (Effluent Monitoring): Total dissolved phosphorus has been removed from the analytical list, and nitrate nitrogen replaces nitrite nitrogen.
- Condition E4 (Receiving Stream Monitoring): Surface water sampling is no longer required unless requested by the Agency. Historical results indicate that surface water quality has not been impacted by the discharge, and the dilution provided by the receiving stream assures that under normal operation, the discharge will not impact surface water quality.

No other significant changes to permit conditions have been made.

Tentative determinations regarding conditions to be included in the pending Vermont Indirect Discharge Permit have been made by the Vermont Agency of Natural Resources, Department of Environmental Conservation. The conditions imposed will assure that the Vermont Water Quality Standards and applicable provisions of 10 V.S.A. Chapter 47 will be met.