

STATE OF NEW HAMPSHIRE

**Impairments Added to Categories
4A, 4B, or 4C
of the 2020/2022 305(b) Report**

February 18, 2022



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Introduction

In accordance with Section 303(d) of the federal Clean Water Act, States must prepare a list of impaired waters that require a Total Maximum Daily Load study every two years (i.e., the 303(d) List). The last approved 303(d) List was prepared by the New Hampshire Department of Environmental Services (NHDES) in 2018.

Downloadable copies of the past lists as well as the 303(d) 2020/2022 list are available on the [NHDES website](#) for review. This document provides a list of all surface waters and parameter combinations that were added as categories 4A, 4B, or 4C impairments on the 2020/2022 305(b) and the reasons why they were added.

Assessment outcomes cover a spectrum from very good to very bad coded as an alpha numeric scale that provides additional distinctions in cases where an impairment exists. In each of the new impairments detailed within this document the 2018 and 2020/2022 assessment status is highlighted applying the categories in the table below.

	Severe Not Supporting, Severe	Poor Not Supporting, Marginal	Likely Bad Insufficient Information – Potentially Not Supporting	No Data No Data	Likely Good Insufficient Information – Potentially Full Supporting	Marginal Full Support, Marginal	Good Full Support, Good	
CATEGORY	Description							
Category 2	Meets standards						2-M or 2-OBS	2-G
Category 3	Insufficient Information							
Category 4	Does not Meet Standards;							
4A	TMDL Completed	4A-P	4A-M or 4A-T					
4B	Other enforceable measure will correct the issue.	4B-P	4B-M or 4B-T					
4C	Non-pollutant (i.e. exotic weeds)	4C-P	4C-M					
Category 5	TMDL Needed	5-P	5-M or 5-T					

Cyanobacteria for Primary Contact Recreation

CAPTAIN POND (NHLAK700061102-03-01)

Assessment Unit Name	Assessment Unit ID	Parameter Name	Town(s) - Primary Town Listed First	2018	2020/2022
Captain Pond	NHLAK700061102-03-01	Cyanobacteria hepatotoxic microcystins	SALEM	3-ND	4A-M

This waterbody experienced a massive bloom in June 2019. An advisory was issued 6/20/19, lasting 12 days. Cell concentrations of Anabaena/Dolichospermum exceeded 6 million cells/ml. Cyanotoxin testing later revealed positive detections of microcystins, anatoxin-a and BMAA. This waterbody should be carefully monitored in the future. Captain Pond (NHLAK700061102-03-01) had a TMDL completed for total phosphorus, approved by EPA on 06/30/2017, that identified cyanobacteria as a response variable that was expected to achieve water quality thresholds as a result of the TMDL. Because of the EPA approved TMDL Captain Pond (NHLAK700061102-03-01) has been moved from category 3-ND to 4A-M for cyanobacteria hepatotoxic microcystins for the primary contact recreation designated use. It should be noted that this new impairment is tied to an assessment unit that falls within EPA's 2017 MS4 General Permit Area.

WWTFs Currently in 'Significant Non-Compliance' for Aquatic Life Integrity

Assessment Category 4B is reserved for cases where a waterbody is impaired or threatened for one or more designated uses but does not require the development of a TMDL because other pollution control requirements are reasonably expected to result in attainment of the water quality standard in the near future.

ATLANTIC OCEAN - STAR ISLAND WWTF OUTFALL (NHOCN000000000-09)

Assessment Unit Name	Assessment Unit ID	Parameter Name	Town(s) - Primary Town Listed First	2018	2020/2022
ATLANTIC OCEAN - STAR ISLAND WWTF OUTFALL	NHOCN000000000-09	BOD, Biochemical oxygen demand	RYE	3-PAS	4B-T

The Star Island Corporation (Summer Conference Center) WWTF was in violation of its NPDES permit (effective June 1, 2010) in June and July 2019 for BOD monthly average and daily maximum concentration. When a parameter has both a monthly average and a non-monthly average limit, a facility would be considered in SNC for the non-monthly limits if the monthly average is also violated to some degree (but less than SNC). The facility was in SNC for TRC for daily maximum concentration BOD loading in one quarter for the reviewed period of September 2018 to January 2020.

SOUHEGAN RIVER - TUCKER BROOK (NHRIV700060902-05)

Assessment Unit Name	Assessment Unit ID	Parameter Name	Town(s) - Primary Town Listed First	2018	2020/2022
SOUHEGAN RIVER - TUCKER BROOK	NHRIV700060902-05	PHOSPHORUS (TOTAL)	WILTON, NEW IPSWICH, GREENVILLE	3-PAS	4B-T

The Greenville WWTF was in violation of its NPDES permit (effective March 1, 2009) in September and October 2019 for effluent phosphorus monthly average concentration limit permit exceedances. The facility was in "significant non-

compliance" for exceeding its effluent phosphorus monthly average concentration limits in excess of 40 percent for at least two months during two consecutive quarter review periods. One quarter was in SNC for Technical Review Criteria (TRC) in the timeframe of September 2018 to January 2020. EPA CWA-AO-R01-F18-10 was effective as of 7/12/2018 and set interim limits of report only for monthly average and daily max concentrations for aluminum and copper. The permittee remains under the order and is to optimize the treatment process for phosphorus, copper and aluminum.

SOUTH BRANCH ASHUELOT RIVER (NHRIV802010303-18)

Assessment Unit Name	Assessment Unit ID	Parameter Name	Town(s) - Primary Town Listed First	2018	2020/2022
SOUTH BRANCH ASHUELOT RIVER	NHRIV802010303-18	PHOSPHORUS (TOTAL)	TROY	3-PAS	4B-T

The Troy WWTF was in violation of its NPDES permit (effective December 1, 2013) in April and May 2019 for effluent total phosphorus monthly average loading limit violations. The facility was in "significant non-compliance" for exceeding its effluent total phosphorus monthly average loading limits in excess of 40%for at least two months during two consecutive quarter review periods. Troy continues to work with NHDES Operations to reduce and/or eliminate its effluent permit violations.