Skokomish Water Quality Program

Skokomish Indian Tribe

Department of Natural Resources

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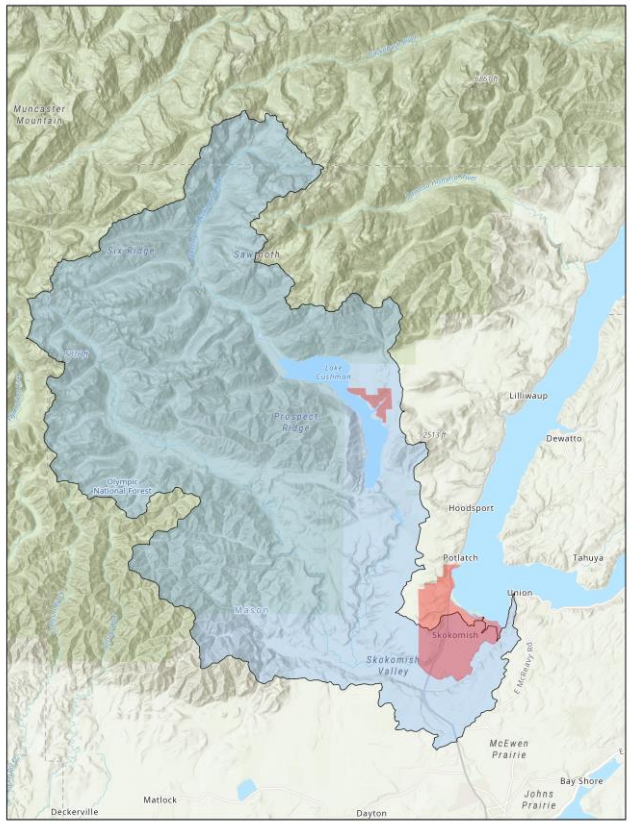
Water Quality Data, Assessment, and Plans

Environmental Law Institute Workshop

June 2nd, 2022

Using the Clean Water Act for Protection of Skokomish Reservation Waters



Reservation:

South Hood Canal-Salish Sea

6085 acres

27 miles of stream length

Skokomish Watershed:

247 square miles

Agriculture (lower river valley)

Flows into Shellfish Beds

The Skokomish River, with Hood Canal and Olympic Mountains

Skokomish Reservation location

FUNDING- EPA Performance Partnership Grant

General Assistance Program - Planning, Program Development, Building Capacity

CWA 106 - Water Quality Monitoring, QA/QC, Assessment, WQX Submission

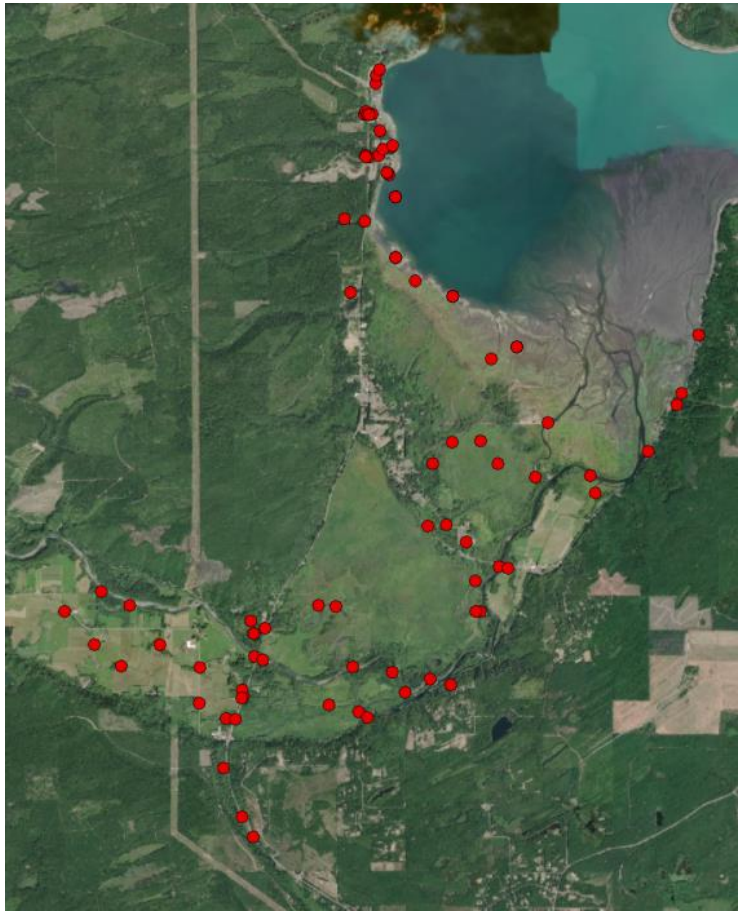
CWA 319 - NPS Programs- Education, 319 Assessment and Management Plans

Using CWA 106 to assess Water Quality

Skokomish Water Quality Monitoring (SWQM) Program

Monitor TMDL sites, Reservation ground and surface waters for **Tribal Assessment Report**.

Work with WA Dept of Ecology and local jurisdictions to correct off-Reservation pollution sources.

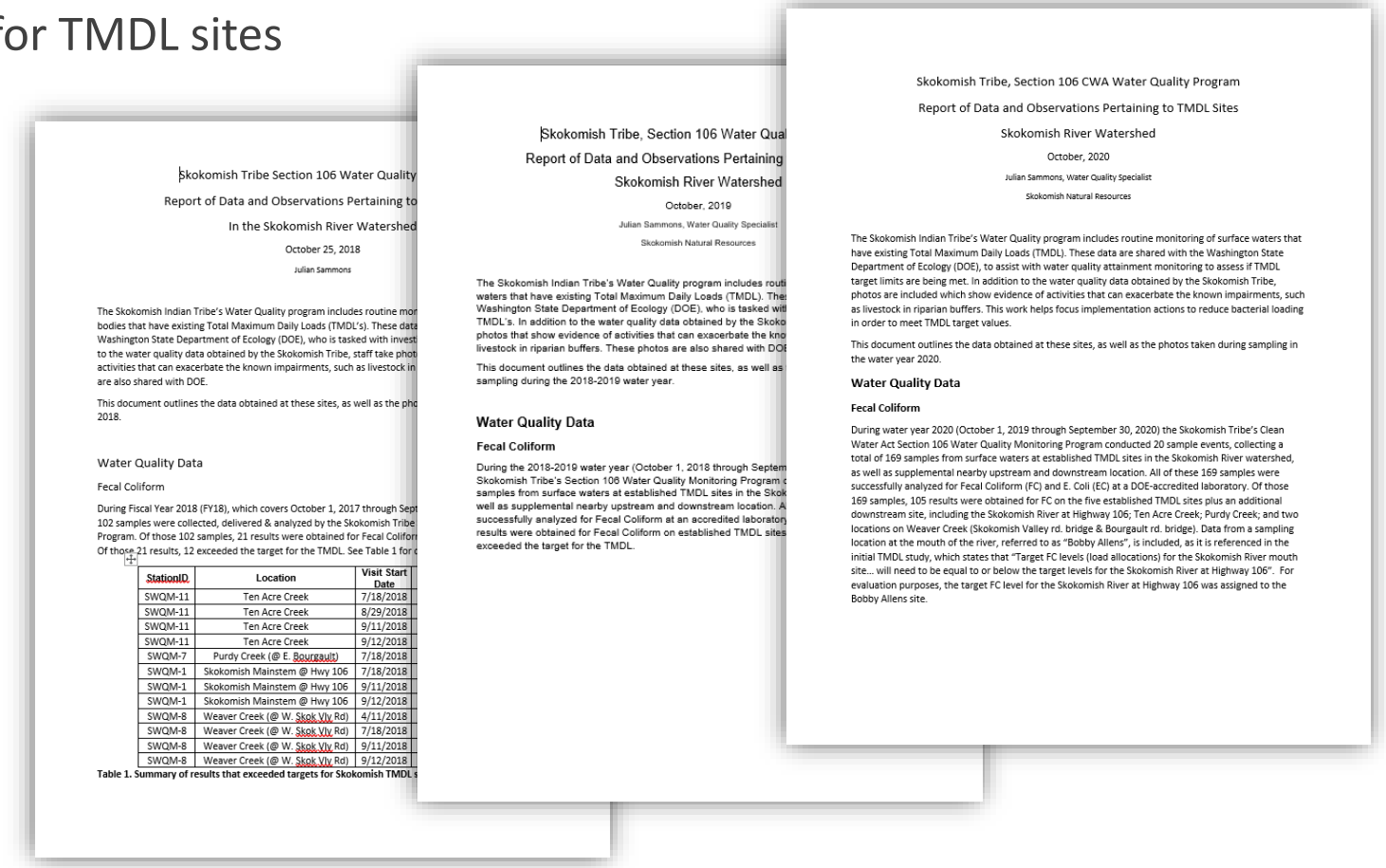


Reporting Data to WA Dept of Ecology

Submit annual summary of data for TMDL sites

Include photo observations

Report WQ violations



Skokomish Tribe Section 106 Water Quality

Report of Data and Observations Pertaining to

In the Skokomish River Watershed

October 25, 2018

Julian Sammons

The Skokomish Indian Tribe's Water Quality program includes routine mon
bodies that have existing Total Maximum Daily Loads (TMDL's). These data
Washington State Department of Ecology (DOE), who is tasked with invest
to the water quality data obtained by the Skokomish Tribe, staff take phot
activities that can exacerbate the known impairments, such as livestock in
are also shared with DOE.

This document outlines the data obtained at these sites, as well as the pho
2018.

Water Quality Data

Fecal Coliform

During Fiscal Year 2018 (FY18), which covers October 1, 2017 through Sept
102 samples were collected, delivered & analyzed by the Skokomish Tribe
Program. Of those 102 samples, 21 results were obtained for Fecal Colifor
Of those 21 results, 12 exceeded the target for the TMDL. See Table 1 for

StationID	Location	Visit Start Date
SWQM-11	Ten Acre Creek	7/18/2018
SWQM-11	Ten Acre Creek	8/29/2018
SWQM-11	Ten Acre Creek	9/11/2018
SWQM-11	Ten Acre Creek	9/12/2018
SWQM-7	Purdy Creek (@ E. Bourgault)	7/18/2018
SWQM-1	Skokomish Mainstem @ Hwy 106	7/18/2018
SWQM-1	Skokomish Mainstem @ Hwy 106	9/11/2018
SWQM-1	Skokomish Mainstem @ Hwy 106	9/12/2018
SWQM-8	Weaver Creek (@ W. Skok Vly Rd)	4/11/2018
SWQM-8	Weaver Creek (@ W. Skok Vly Rd)	7/18/2018
SWQM-8	Weaver Creek (@ W. Skok Vly Rd)	9/11/2018
SWQM-8	Weaver Creek (@ W. Skok Vly Rd)	9/12/2018

Table 1. Summary of results that exceeded targets for Skokomish TMDL

Skokomish Tribe, Section 106 Water Qual

Report of Data and Observations Pertaining

Skokomish River Watershed

October, 2019

Julian Sammons, Water Quality Specialist

Skokomish Natural Resources

The Skokomish Indian Tribe's Water Quality program includes routi
waters that have existing Total Maximum Daily Loads (TMDL). Thes
Washington State Department of Ecology (DOE), who is tasked wit
TMDL's. In addition to the water quality data obtained by the Skoko
photos that show evidence of activities that can exacerbate the kno
livestock in riparian buffers. These photos are also shared with DO

This document outlines the data obtained at these sites, as well as
sampling during the 2018-2019 water year.

Water Quality Data

Fecal Coliform

During the 2018-2019 water year (October 1, 2018 through Septem
Skokomish Tribe's Section 106 Water Quality Monitoring Program
samples from surface waters at established TMDL sites in the Skok
well as supplemental nearby upstream and downstream location. A
successfully analyzed for Fecal Coliform at an accredited laboratory
results were obtained for Fecal Coliform on established TMDL sites
exceeded the target for the TMDL.

Skokomish Tribe, Section 106 CWA Water Quality Program

Report of Data and Observations Pertaining to TMDL Sites

Skokomish River Watershed

October, 2020

Julian Sammons, Water Quality Specialist

Skokomish Natural Resources

The Skokomish Indian Tribe's Water Quality program includes routine monitoring of surface waters that have existing Total Maximum Daily Loads (TMDL). These data are shared with the Washington State Department of Ecology (DOE), to assist with water quality attainment monitoring to assess if TMDL target limits are being met. In addition to the water quality data obtained by the Skokomish Tribe, photos are included which show evidence of activities that can exacerbate the known impairments, such as livestock in riparian buffers. This work helps focus implementation actions to reduce bacterial loading in order to meet TMDL target values.

This document outlines the data obtained at these sites, as well as the photos taken during sampling in the water year 2020.

Water Quality Data

Fecal Coliform

During water year 2020 (October 1, 2019 through September 30, 2020) the Skokomish Tribe's Clean Water Act Section 106 Water Quality Monitoring Program conducted 20 sample events, collecting a total of 169 samples from surface waters at established TMDL sites in the Skokomish River watershed, as well as supplemental nearby upstream and downstream location. All of these 169 samples were successfully analyzed for Fecal Coliform (FC) and E. Coli (EC) at a DOE-accredited laboratory. Of those 169 samples, 105 results were obtained for FC on the five established TMDL sites plus an additional downstream site, including the Skokomish River at Highway 106; Ten Acre Creek; Purdy Creek; and two locations on Weaver Creek (Skokomish Valley rd. bridge & Bourgault rd. bridge). Data from a sampling location at the mouth of the river, referred to as "Bobby Allens", is included, as it is referenced in the initial TMDL study, which states that "Target FC levels (load allocations) for the Skokomish River mouth site… will need to be equal to or below the target levels for the Skokomish River at Highway 106". For evaluation purposes, the target FC level for the Skokomish River at Highway 106 was assigned to the Bobby Allens site.