Using the BMP Facility Results View

The BMP Facility Results View can be used to view a summary of the performance of existing BMP's. To access the viewer, select **WQ Results Viewer** from the dropdown menu at the top menu bar, or from the homepage.

You can view individual BMP results by selecting the **BMP Facility Results View** card or by selecting the icon on the left-hand menu bar.

Results are summarized by climate epoch. The tables below describe the items associated with facility results.

Overview Tab

Table 1: Facility Overview parameters

Name	Description
Facility Type	Facility type used for water quality modeling
Node Type	Modeled type (Simple Facility, Volume-based Facility, or Flow Based Facility)
Captured Pct	How much runoff is captured by the facility annually.
Treated Pct	How much runoff is treated by the facility annually.
Retained Pct	How much runoff is retained or infiltrated by the facility annually.
Retained Pct	How much runoff is bypassed by the facility annually.

Runoff Stats Tab

Table 2: Runoff Stats Parameters

Name	Description
Runoff Volume Cuft Inflow	Annual influent volume to the facility *(ft3/yr)*
Runoff Volume Cuft Treated	Annual volume that is treated by the facility *(ft3/yr)*
Runoff Volume Cuft Retained	Annual volume that is retained or infiltrated by the facility *(ft3/yr)*
Runoff Volume Cuft Captured	Annual volume that is captured by the facility *(ft3/yr)*
Runoff Volume Cuft Bypassed	Annual influent volume that is bypassed by the facility *(ft3/yr)*

Pollutant Mass Flow Tab

Table 3: Pollutant Mass Flow Parameters

Name	Description
Tss Load Lbs Inflow	Total Suspended Solids load entering the facility *(lbs/yr)*
Tss Load Lbs Removed	Total Suspended Solids removed by the facility *(lbs/yr)*
Tn Load Lbs Inflow	Total Nitrogen load entering the facility *(lbs/yr)*
Tn Load Lbs Removed	Total Nitrogen removed by the facility *(lbs/yr)*
Tp Load Lbs Inflow	Total Phosphorus load entering the facility *(lbs/yr)*
Tp Load Lbs Removed	Total Phosphorus removed by the facility *(lbs/yr)*
Tzn Load Lbs Inflow	Total Zinc Load entering the facility *(lbs/yr)*
Tzn Load Lbs Removed	Total Zinc removed by the facility *(lbs/yr)*
Tcu Load Lbs Inflow	Total Copper load entering the facility *(lbs/yr)*

Name	Description
Tcu Load Lbs Removed	Total Copper removed by the facility *(lbs/yr)*

Pollutant Concentration Tab

Table 4: Pollutant Concentration Parameters

Name	Description
Tss Conc Mg/L Influent	Average annual Total Suspended Solids influent concentration *(mg/L)*
Tss Conc Mg/L Effluent	Average annual Total Suspended Solids effluent concentration *(mg/L)*
Tn Conc Mg/L Influent	Average annual Total Nitrogen influent concentration *(mg/L)*
Tn Conc Mg/L Effluent	Average annual Total Nitrogen effluent concentration *(mg/L)*
Tp Conc Mg/L Influent	Average annual Total Phosphorus influent concentration *(mg/L)*
Tp Conc Mg/L Effluent	Average annual Total Phosphorus effluent concentration *(mg/L)*
Tzn Conc Ug/L Influent	Average annual Total Zinc influent concentration *(µg/L)*
Tzn Conc Ug/L Effluent	Average annual Total Zinc effluent concentration *(µg/L)*
Tcu Conc Ug/L Influent	Average annual Total Copper influent concentration *(µg/L)*
Tcu Conc Ug/L Effluent	Average annual Total Copper effluent concentration *(µg/L)*

Using the Subbasins Results View

The water quality results viewer can be used to view the conditions of each stormwater subbasin. To access the viewer, select it from the dropdown menu at the top menu bar, or from the homepage.

You can view aggregated results by subbasin by selecting the **Subbasin Results View** card or by selecting the icon on the left-hand menu bar. To view a chloropleth map of results, select the parameter to visualize from the menu next to the map.

Exporting Results

To export results from the Subbasin Results View, click the **Export** button on the table below the map. This will download a CSV file of all results. To export a selection of data, select the rows you want to export on the table, then click **Export**.

Available Data Layers

Table 5: Available Data Layers in the Subbasin Results View

Name	Description	Data Source
Land Use Breakdown	Percent Land Use Category in Subbasin	Tacoma ArcGIS REST API: Land Use Designations (`General/LandUseDesignations/MapServe`
Land Cover Breakdown	Percent Land Cover Category in Subbasin	TNC Stormwater Heatmap
Runoff	Runoff depth, runoff volume, total volume reduced by stormwater facilities.	Calculated
Treatment Facility Summary	Number of BMPs, Treated Area, Area Treated by Basic Water Quality BMPs, Area Treated by Flow Control BMPs, Effective Area	Calculated
Average Pollutant Washoff Concentration	Average Annual Concentration before treatment	Calculated

Name	Description	Data Source
Annual Load Reductions	Average Annual Pollutant Load reductions from BMPs	Calculated

Introduction

This manual describes how to use the Tacoma Watershed Insights web application. This application lets users track stormwater infrastructure, assess performance, and make informed decisions regarding stormwater and water quality in Tacoma.

Purpose

TODO

Remember to bring milk

Key Concepts

Facility IDs

Subbasins

Scenarios

Climate Epochs

Facility Types

Pollutants

Definitions

Term 1 Definition 1

Term 2 Definition 2a

Definition 2b