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430.01 Introduction

WSDOT must evaluate potential stormwater, groundwater, and water quality impacts prior to submitting permit applications to resource agencies so project construction can proceed. These water quality obligations emerge through several laws and regulations including the Clean Water Act (CWA), Safe Drinking Water Act, and Washington State's Water Pollution Control laws and regulations ([RCW 90.48](#) and [WAC 173-201A](#)).

[Chapter 600](#): Construction covers aspects of erosion and sediment control and includes a section on water quality during construction. For additional water-related considerations for other disciplines, see [Chapters 431](#): Wetlands, [432](#): Special flood hazard area, [420](#): Earth (Geology and Soils), and [436](#): Fish, Wildlife & vegetation.

430.02 Applicable statutes, regulations, executive orders, & agreements

This section identifies the primary statutes and regulations applicable to water quality issues.

430.02(1) *Federal*

- **National Environmental Policy Act** – The National Environmental Policy Act (NEPA), [42 USC 4321](#), requires that all major actions sponsored, funded, permitted, or approved by federal agencies undergo environmental planning. This planning ensures that environmental values, such as impacts to water quality, receive appropriate consideration during decision making. [23 CFR 771](#) and [40 CFR 1500–1508](#) (CEQ) contain Federal implementing regulations. For details on NEPA procedures see [Chapter 400](#).
- **Clean Water Act** – The Water Pollution Control Act, better known as the Clean Water Act (CWA), [33 USC 1251](#) et seq., provides federal regulation of water pollution sources. In Washington State, the Environmental Protection Agency (EPA) has delegated administrative authority of the CWA to the Department of Ecology (Ecology) except on tribal and Federal lands (and discharges to tribal waters).
- **Safe Drinking Water Act** – The [Safe Drinking Water Act \(SDWA\)](#) sets national primary drinking water standards, regulates underground injection of fluids, and allows for designation of Sole Source Aquifers (SSA). Implementation of the SDWA is delegated to individual states.

430.02(2) State

- **State Environmental Policy Act** – The State Environmental Policy Act (SEPA) requires that all major actions sponsored, funded, permitted, or approved by state and/or local agencies undergo planning to ensure environmental values receive consideration during decision making, including impacts to water quality. [WAC 197-11](#) and [WAC 468-12](#) (WSDOT) describe state implementing regulations. For details on SEPA procedures see [Chapter 400](#).
- **State Water Quality Laws and Rules** – The Water Pollution Control Act ([RCW 90.48](#)) is the primary water pollution law for Washington State, which requires the use of all known, available, and reasonable methods of prevention, control, and treatment (AKART) to prevent and control the pollution of the waters of the state of Washington. State statute prohibits the discharge of pollutants into waters of the state unless authorized. [WAC 173-201A](#) identifies and mandates water quality standards pertaining to surface waters.

[RCW 90.48](#) also mandates that all underground water be protected. [WAC 173-200](#) identifies and mandates groundwater quality standards to maintain the highest quality of the state’s groundwater and to protect existing and future beneficial uses of the groundwater.

- **Accommodation of Stormwater Runoff Onto Right of Way Executive Order (E 1103)** – This [Secretary’s Executive Order \(E1103.00\)](#) is a reference on accommodation of stormwater from adjacent properties onto WSDOT right of way. It cites multiple offices, manuals, procedures, and state and federal laws that provide requirements and policies on this subject.
- **Drinking Water – Source Water Protection** – Protection of drinking water sources (surface and groundwater) is mandated by the SDWA.

In Washington, [RCW 43.20.050](#) designates the State Department of Health (DOH) as lead agency for assuring safe and reliable public drinking water supplies, in cooperation with local health departments and water purveyors. State regulations ([WAC 246-290-135](#) for Group A systems; [WAC 246-291](#) for Group B systems) provide for two types of area based controls for source protection of wells and springs serving as sources of public water supplies:

- **Underground Injection Control** – The Underground Injection Control (UIC) Program, authorized by the SDWA, is designed to prevent contamination of underground sources of drinking water from the use of injection wells.

The national UIC Program is administered by the EPA under [40 CFR 144](#). Ecology was delegated authority by the EPA to administer the program in Washington State, and operates under [RCW 43.21A.445](#) and [RCW 90.48](#) and [WAC 173-218](#). All new underground control activities must treat the “waste” fluid before injection.

- **Growth Management Act (GMA)** – This statute ([RCW 36.70A](#)), combined with Article 11 of the Washington State Constitution, mandates development and adoption by local jurisdictions of ordinances that classify, designate, and regulate land use in order to protect critical areas. Aquifer recharge areas are one type of critical area and are regulated through local Critical Aquifer Recharge Area (CARA) ordinances. Under the GMA, state agencies must comply with local comprehensive plans and development regulations; likewise, local agencies should coordinate with WSDOT. See the section of Local Critical areas Ordinances below for more information and links.

- **Local Critical Areas Ordinances** – The purpose of Critical Aquifer Recharge Area (CARA) ordinances is to provide cities and counties with a mechanism to classify, designate, and regulate areas deemed necessary to provide adequate recharge and protection to aquifers used as sources of potable (drinking) water. Unless the local laws conflict with state law, WSDOT must meet the requirements of local regulations. Local planning departments should be contacted to determine the location or descriptive criteria of geologically hazardous areas that may impact the project.

Additional information on local implementation of CARAs may be available at websites for the appropriate local jurisdictions.

430.02(3) Local

- N/A

430.02(4) Tribal

- Several federal environmental laws authorize EPA to [treat eligible federally recognized Indian tribes as a state \(TAS\)](#) for the purpose of implementing and managing certain environmental programs and functions, and for grant funding. Tribes must apply for and receive EPA approval for each specific program or function.

Some tribes have applied for and received EPA approval to adopt specific water quality standards that may be stricter than those required by Ecology. For projects where stormwater is discharging within tribal lands or waters, coordinate with your region's environmental staff to determine what standards apply. Information about Section 401 Water Quality Certification is available in Section 430.03 and [Chapter 530: Tribal Approvals](#).

430.02(5) Interagency Agreements

[Appendix B](#) contains the following interagency agreement pertaining to stormwater and water quality:

- **Implementing Agreement Regarding Application of the Highway Runoff Manual (HRM)** – In February 2009, WSDOT and Ecology signed an [implementing agreement](#) committing WSDOT to apply the [HRM](#) statewide to direct the planning, design, construction, and maintenance of stormwater facilities. The implementing agreement was most recently amended and revised in March 2019.
- **Sole Source Aquifers (SSA)** - This 2014 Memorandum of Understanding between the Federal Highway Administration (FHWA) Washington Division, EPA Region 10, and WSDOT assures that each highway project that is to receive FHWA financial assistance is designed and constructed in a manner that will prevent the introduction of contaminants into a SSA in quantities that may create a significant hazard to public health.
- **Highways & Drinking Water Well Sanitary Control Areas “Screening Criteria”** - This [2006 agreement](#) between WSDOT and the DOH clarifies expectations, establishes project screening criteria, and facilitates communication among WSDOT, DOH, and water purveyors when a proposed highway project intersects with the sanitary control area of a public water supply.

430.03 Considerations during project development

430.03(1) Planning

See the [Stormwater & water quality](#) webpage for guidance and resources on the following requirements:

- Determine whether a project has the potential to discharge to impaired waters on the 303(d) list or covered by a Total Maximum Daily Load (TMDL) and identify the pollutants of concern.
- Identify existing BMPs using as-builts, WSDOT's GIS Workbench, hydraulics reports, the Stormwater BMP Specifications (SWABS) database, field verification, and guidance in the [HRM](#).
- Identify stormwater retrofit needs using web guidance.

430.03(2) Scoping

- Due to changes under CWA Section 401, Individual Water Quality Certifications require additional steps be taken prior to application. It is important during scoping to determine whether the project will or has the potential to, discharge pollutants into waters of the United States and defer to the information below in the design stage.

See the [Stormwater & water quality](#) webpage for guidance and resources on the following requirements:

- Confirm whether a project has the potential to discharge to impaired waters on the 303(d) list or covered by a Total Maximum Daily Load (TMDL) and identify the pollutants of concern. Use the guidance found in Identifying Impaired Water Bodies for the Environmental Review Summary (ERS).
- Document stormwater features and discharge points when preparing hydraulics reports.

See the [Hydraulics & hydrology](#) and [Highway Runoff Manual](#) webpages for guidance and resources on the following requirements:

- Confirm impacts to existing BMPs and address mitigation for those impacts. See the [HRM](#) for more information about assessing impacts on existing BMPs.
- Read the Stormwater Retrofit Guidance section on the [Hydraulics & hydrology](#) webpage which includes considerations for scoping stand-alone stormwater retrofits, a site visit checklist, and instructions for determining cost-effectiveness and feasibility of stormwater retrofits. The scoping engineer must include seed money for the Puget Sound Basin retrofit requirement (if applicable) following the guidelines in the [Retrofit Cost-Effectiveness and Feasibility](#) (RCEF) document.
 - Complete a [stormwater retrofit assessment](#) for all fish passage projects prior to Project Summary submittal for HQ review. A separate assessment is required for each fish passage site in a project.
 - Determine if the project will add enough new impervious surface to trigger [HRM](#) requirements for stormwater treatment and/or flow control. If so, preliminarily select BMPs that could be used from Chapter 5 of the [HRM](#) to meet these requirements and the potential locations where they would be cited.

430.03(3) Design

- Document stormwater treatment and flow control BMP information in SWABS.
- Review [Geotechnical Design Manual Chapter 3](#) for well decommissioning and piezometer removal requirements.
- Identify any man-made stormwater connections to our system and follow the [Accommodation of Stormwater Runoff Onto Right of Way Executive Order \(E1103.00\)](#) to permit each accordingly.
- Apply for a water rights permit for project work that uses surface water or groundwater. Temporary water rights can be granted for dust control during construction. Find information about water rights permits on the [Wetlands & other waters webpage](#).
- If a project may alter groundwater and impact a wetland, (e.g., draining a wetland, altering natural drainage patterns, increasing or decreasing water levels), see [Chapter 431: Wetlands](#) or the [Wetlands & other waters](#) webpage for guidance.

See the [Stormwater & water quality](#) webpage for guidance and resources on the following requirements:

- Projects that require a federal permit or approval and discharge or have the potential to discharge pollutants into water of the United States must receive a Water Quality Certification (WQC) from the appropriate Section 401 certifying agency or tribe.
- As of September 11, 2020, **Individual 401 certifications** require: a prefilling request to be submitted 30 days prior to application as well as a Draft Water Quality Monitoring and Protection Plan (WQMPP). The pre-filling request is a mandatory precursor that starts the application process. The WQMPP needs to be prepared to ensure State Water Quality Standards will be met during in-water work.
- Prior to beginning in-water work, review environmental permits and approvals to determine project-specific requirements for in-water work and sampling.
- Whether or not a sampling report is prepared for a project, WSDOT must comply with the state surface water quality standards ([WAC 173-201A](#)) when performing in-water work unless a project has an extended temporary area of mixing granted by Ecology in a 401 certification.
- Complete the Surface Water Technical Guidance to calculate annual pollutant loads and assess potential impacts to receiving waters. The results help identify differences in impacts between project alternatives and can be included in discipline reports and other NEPA/SEPA documentation.
- Determine if a stormwater discipline report is necessary. Use the [Stormwater Discipline Report Checklist](#) to make sure all project-related stormwater impacts are considered in the discipline report.
- Determine if a groundwater discipline report is necessary. Use the [Groundwater Discipline Report Checklist](#) to make sure all project-related groundwater impacts are considered in the discipline report.
- Consider connections to special flood hazard areas. Refer to [Chapter 432: Special Flood Hazard Area](#) for more information on special flood hazard areas.
- Construction projects must apply for coverage under the Construction Stormwater General Permit (CSWGP) if the project has the potential to discharge stormwater to surface waters and will either disturb one or more acres of soil, or is part of a larger common plan that will disturb one or more acres of soil.

- WSDOT transfers CSWGP coverage to the contractor, except for special cases which must be approved by the Assistant State Construction Engineer, so the contractor becomes responsible for implementing all permit requirements. WSDOT's role shifts to inspecting projects for compliance with the CSWGP and contract enforcement.
- Prepare a Stormwater Pollution Prevention Plan (SWPPP) for all work, even when not applying for coverage under the CSWGP. The SWPPP is made up of two plans, the Spill Control and Countermeasure (SPCC) plan and Temporary Erosion and Sediment Control (TESC) plan. More information about SPCC plans is available in [Chapter 447 Hazardous Materials and Solid Waste](#). The TESC plan must identify stormwater-related erosion risks at construction sites and document plans for minimizing those risks. Develop a preliminary TESC plan to be included in the project contract as an appendix. If the project is design-build, the contractor must develop a TESC plan for WSDOT review and comment.
- Review the SWPPP prior to construction to ensure all requirements are included.
- Submit monthly discharge monitoring reports (DMRs) to Ecology's WQWebPortal once CSWGP coverage is granted, even if construction has not started or there have been no discharges. DMRs must be submitted monthly until the CSWGP coverage terminates or permit coverage is transferred to the contractor.

See the [Highway Runoff Manual](#) and [Hydraulics & hydrology](#) webpages for guidance and resources on the following requirements:

- If the project will add enough new impervious surface to trigger [HRM](#) requirements for stormwater treatment and/or flow control, use the [HRM](#) to select appropriate BMPs for a project. Use the TMDL considerations in Chapter 5 of the [HRM](#) to choose appropriate BMPs if discharging to impaired waters on the 303(d) list or covered by a Total Maximum Daily Load (TMDL) based on the pollutant(s) of concern.
- Develop a Hydraulics Report and *BMP Maintenance Manual* for all BMPs.

430.03(4) Construction

See the [Stormwater & water quality](#) webpage for guidance and resources on the following requirements:

- All WSDOT and contractor staff performing CSWGP-related site inspections must be current Certification for Erosion and Sediment Control Leads (CESCL). See the [Environmental training](#) webpage for more information.
- Report spills and illicit discharges that might impact the stormwater drainage system. If a spill or illicit discharge occurs, immediately follow the reporting procedures on WSDOT's [Report a spill](#) webpage.
- Ensure that all in-water work meets applicable water quality standards and follow reporting protocols. For Individual 401 Certifications, the contractor must prepare a Final WQMPP for Ecology approval prior to in-water work.

For more information on environmental commitments during construction, see [Section 600.03](#).

430.03(5) Maintenance and operations

Perform inspection and maintenance activities and enter records into the Highway Activity Tracking System (HATS) database and conduct quarterly QA/QC.

430.03(6) Stormwater and water quality resources

Refer to the following resources for additional guidance and tools:

1. **GIS Workbench** – The WSDOT GIS Environmental Workbench provides a GIS interface for internal WSDOT users. It has numerous environmental and natural resource management data layers from federal, state, and local agencies that provide useful information for water quality analyses. Available databases include water resource inventory areas (WRIAs) and sub-basins, major shorelines, 303(d)s and TMDLs, and NPDES municipal stormwater permit areas.
2. **FHWA Guidance Documents and Resources**
 - **FHWA Technical Advisory** – FHWA [Technical Advisory T 6640.8A](#) (October 30, 1987) provides guidelines for preparing environmental documents.
 - **FHWA Environmental Review Toolkit and Guidebook** – This online resource contains several guidance documents and federal MOAs on topics related to stormwater and water quality, the CWA, and coastal zone management.
3. **Department of Ecology Resources**
 - **Water Quality 305(b) Assessment** – The CWA Section 305(b) requires Washington State to prepare a water quality assessment report every five years and submit it to EPA. In addition, EPA requires the state to submit certain assessment data annually for compilation in a national report. For access to the data and a description of requirements for ecoregions, stream/river basins, estuaries, and lakes, refer to the [Washington State's Current Water Quality Assessment](#).
 - **Watershed Basin Reports and Action Plans (Local or State Plans)** – Many watershed and basin plans include specific recommended action items on priority environmental issues. The stormwater analysis should address the guidance outlined in watershed/basin action plans related to water quality.
 - **Water Quality Atlas** – The [Water Quality Atlas](#) is a web-based map application to obtain information about water quality in Washington State. Available datasets include 303(d)s and TMDLs, and NPDES municipal stormwater permit areas, among others.

430.04 Analysis & documentation requirements

This section describes analysis and documentation requirements based on regulatory requirements. Determine level of detail based on complexity/size of project, expected severity of impacts, and potential for public controversy.

430.04(1) Analysis & documentation for NEPA

WSDOT estimates potential water quality impacts during scoping and through the NEPA and SEPA environmental documentation process. If the project may result in adverse impacts to water quality, NEPA and SEPA require impact analyses to be completed and recorded in the environmental document (see [Chapter 400](#)).

1. Determining the Necessary Level of Effort

Stormwater - A proposed project generally needs to analyze stormwater impacts when the project could affect receiving waters by:

- Increasing the amount of pollutants discharged to receiving waters.
- Presenting a risk of eroded sediments or spilled pollutants entering receiving waters.
- Involving construction or other work in or over surface water bodies, their buffers, or floodplains.
- Using, diverting, obstructing, or changing the natural flow or bed of receiving waters.

Groundwater - A proposed project generally needs to analyze groundwater impacts when:

- Introducing enough stormwater or wastewater into an aquifer or its recharge zone to create a significant adverse environmental impact.
- Stormwater or wastewater discharges produced by any project alternatives are likely to enter [SSAs](#), [CARAs](#), or [WPAs](#) in quantities sufficient to produce a significant adverse environmental impact.
- When other potential impacts to groundwater are identified.

Situations where build options reduce the amount of pollutants to receiving waters may also require impact analyses if significant differences exist in the water quality benefits provided by each of the alternatives. Document the analysis of stormwater and groundwater impacts as part of the environmental document for the project (i.e., ECS, EA, or EIS). In rare cases, when warranted by the nature of the project, the analysis can be documented in a separate discipline report which supplements the environmental document. In these situations, use the [Stormwater Discipline Report Checklist](#) or the [Groundwater Discipline Report Checklist](#) to help ensure adequate consideration of all project-related impacts in the report.

If uncertainty exists as to whether impacts may occur, perform a preliminary investigation of the impacts from each of the alternatives. Project managers can also contact the regional water quality lead for assistance. End the investigation if it becomes apparent no significant impacts or differences exist among the alternatives. In the project file, explain why the project did not need a stormwater or groundwater impact analysis.

2. **Methodology for Analyzing Surface Water Impacts** - Calculate annual pollutant loads to assess potential impacts of a project. The [Surface Water Technical Guidance](#) describes the two appropriate methods to use in the scoping stage of a project. Do not use other pollutant loading methodologies when analyzing impacts from stormwater.
3. **Highway Runoff Manual** - The [Highway Runoff Manual](#) M 31-16 summarizes stormwater management requirements and describes approved methods of managing stormwater runoff known as Best Management Practices. Used together, [HRM](#) and [Hydraulics Manual](#) M 23-03, provide tools for designing effective stormwater collection, conveyance, and treatment systems for highways, ferry terminals, park and ride lots, and other transportation-related facilities.

The project stormwater designer must first follow [HRM](#) Chapter 2 guidelines for integrating the planning and design of stormwater-related project elements into the context of WSDOT's project development process. Then the designer must use Chapter 3 to determine the applicable minimum requirements for a specific project. In

most cases, this process will spur the need to design construction and post construction BMPs according to the criteria in Chapters 4, 5, and 6. Chapter 6 describes and links to WSDOT's [Temporary Erosion and Sediment Control Manual M 3109 \(TESCM\)](#).

The [TESCM](#) describes how to meet the requirements of the National Pollutant Discharge and Elimination System (NPDES) Construction Stormwater General Permit (CSWGP). It covers Stormwater Pollution Prevention Plans (SWPPP), BMP selection, discharge sampling and reporting, and other compliance-related issues, as well as potential effects to receiving water during construction.

Ecology approved the [TESCM](#) and [HRM](#) as equivalent to the Ecology *Stormwater Management Manuals* for Western and Eastern Washington for compliance with Ecology-issued stormwater permits.

Standard BMP options from the [HRM](#) fit most projects. See [HRM](#) Section 1-4 on who to contact when a site presents a challenge and does not lend itself easily to the approaches prescribed in the manual.

4. 303(d) and TMDL Impaired Water Bodies

Ecology may assign WSDOT specific action items, compliance timelines, and waste load allocations (WLAs) when a TMDL identifies WSDOT discharges as a source or conveyer of the pollutant of concern. Ecology includes EPA-approved TMDLs that contain WLAs and/or actions for WSDOT in Appendix 3 of WSDOT's NPDES Municipal Stormwater Permit.

For 303(d)s and TMDLs approved by EPA that do not specifically identify WSDOT stormwater discharges as a pollutant source, projects should avoid discharging stormwater to the impaired water body and avoid adverse impacts where feasible. Follow the guidance on WSDOT's [Stormwater & water quality](#) webpage to determine if stormwater from a project will discharge to an impaired water body. For more information on TMDLs or 303(d) listings, contact the Stormwater Branch in the Environmental Services Office, or visit [Ecology's Water Quality Improvement](#) website.

430.04(2) Analysis & documentation for SEPA only (No federal nexus)

SEPA requirements are the same as federal requirements.

430.05 External engagement

WSDOT participates in external engagement during the project development process. WSDOT develops Environmental Impact Statements (EIS) to describe environmental impacts, project benefits, and mitigation measures for projects with probable impacts to the natural or built environment. Through the EIS, the public is consulted and involved in the decision-making process.

430.06 Internal roles and responsibilities

430.06(1) Region/Modal Environmental Manager

- Signs water quality permit applications.
- Oversees the development of stormwater and groundwater discipline reports.
- Supports and decides on conflicting environmental issues.

- Evaluates stormwater and water quality non-compliance and determines if ECAP is applicable.
- Supports stormwater compliance during design and construction phases of projects.

430.06(2) Project Engineer/Design and Construction

- Prepares design plans in compliance with water quality requirements.
- Develops and completes stormwater hydraulic reports.
- Identifies stormwater BMPs that are necessary and included in a project.
- Ensures mitigation requirements are incorporated into the design and contract.
- Ensures stormwater and other water quality permit commitments are covered in the project contract.
- Develops and gets approval on any stormwater deviation from the [HRM](#).
- Ensure construction compliance with stormwater and water quality permit conditions and mitigation requirements.
- Identifies non-compliance with permit requirements or regulations and completes ECAP documentation.
- Develops stormwater BMP Maintenance Plans for stormwater features.

430.06(3) Region Environmental Coordinator/Permit Specialist/Biologist/ Stormwater Hydraulic Engineer

- Identifies in the ERS stormwater treatment needs and water quality discharges to TMDLs, impaired waters, and 303d waters.
- Identifies the need for stormwater and groundwater discipline reports.
- Identifies in the ECS stormwater treatment needs and water quality discharges to TMDLs, impaired waters, and 303d waters.
- Coordinates the internal review of stormwater and groundwater discipline reports.
- Submits for water quality permits and approvals.
- Identifies stormwater and water quality mitigation and permit commitments through CTS to the Design PE.
- Identifies stormwater and water quality non-compliance and processes with Construction ECAP documentation.
- Identifies and coordinates mitigation for listed endangered species.

430.06(4) HQ Environmental Services Office

- Supports regions and modes on the development and completion of impact analysis documents.
- Provides technical assistance on impact analysis documents.
- Provides policy and guidance on stormwater and water quality reports.

430.06(5) Area Maintenance

- Responsible for maintaining stormwater treatment facilities.

430.06(6) Region Maintenance Environmental Coordinator

- Coordinates with services and local agencies.
- Supports area maintenance and ensures correct permits are in place.
- Reviews In-water work windows, interference in streams, critical areas, stormwater runoff, and 303d/TMDL.

430.06(7) Region Hydraulic Engineer

- Responsible for reviewing and accepting the Stormwater Hydraulic Report.
- Ensures designs comply with long term permanent stormwater requirements.
- Evaluates and coordinates deviations from the [HRM](#) for approval with Ecology.
- Supports stormwater compliance for local programs and developer services clients.
- Liaison for local jurisdictions.
- Supports stormwater construction.

430.06(8) State Stormwater Hydraulic Engineer

- Works with regions on [HRM](#) deviations and Ecology approval.

430.07 Applicable permits & approval process

WSDOT must comply with all applicable federal, state, and local laws, regulations, policies, and plans. Consider obligations for each water quality permit or approval listed in this section during design and environmental review.

Stormwater and water quality requirements and BMPs get developed and implemented through Section 401 Water Quality Certifications, NPDES permits, WSDOT's [HRM](#), and project-specific BMPs. See the additional information for [Stormwater & water quality](#) related permits and approvals.

430.07(1) Federal

- N/A

430.07(2) State

- CWA Section 401 – Water Quality Certification – This certification requires tribal consultation or approval under federal statutes. The Confederated Tribes of the Chehalis Reservation, Kalispel Tribe of Indians, Makah Tribe, Port Gamble S'Klallam Tribe, Puyallup Tribe of Indians, Spokane Tribe of Indians, and Tulalip Tribe have authority to approve Section 401 Water Quality Certifications.
- CWA NPDES Construction Stormwater General Permit
- CWA NPDES Industrial Stormwater General Permit
- CWA NPDES WSDOT Municipal Stormwater General Permit
- CWA NPDES Bridge and Ferry Terminal General Permit

430.07(3) Local

For more information on the permitting process, see [Chapter 500](#) Environmental permitting.

430.08 Mitigation

Guidance and resources for mitigation options can be found on the Stormwater & water quality webpage. Mitigation options include:

- Stormwater retrofit
- [HRM](#) required treatment
- Special or newly researched BMPs
- Assistance with watershed priorities set through watershed planning

430.09 Abbreviations and acronyms

AKART	All Known, Available, and Reasonable Methods of Prevention, Control, and Treatment
BA	Biological Assessment
BMP	Best Management Practice
CARA	Critical Aquifer Recharge Area
CEQ	Council on Environmental Quality
CFR	Code of Federal Regulations
CSWGP	Construction Stormwater General Permit
CTS	Commitment Tracking System
CWA	Clean Water Act
DOH	Washington State Department of Health
Ecology	Washington State Department of Ecology
EA	Environmental Assessment
ECS	Environmental Classification Summary
EIS	Environmental Impact Statement
ERS	Environmental Review Summary
EPA	Environmental Protection Agency
ESA	Endangered Species Act
FHWA	Federal Highway Administration
GIS	Geographic Information System
GMA	Growth Management Act
HPA	Hydraulic Project Approval
HIRUN	Highway Runoff Dilution and Loading Stormwater model
HRM	Highway Runoff Manual M 31-16
MHHW	Mean Higher High Water
MOA	Memorandum of Agreement
NEPA	National Environmental Policy Act
NOAA	National Oceanic and Atmospheric Administration
NPDES	National Pollutant Discharge Elimination System
RCEF	Retrofit Cost-Effectiveness and Feasibility
RCW	Revised Code of Washington State
SCA	Sanitary Control Area

SDWA	Safe Drinking Water Act
SEPA	State Environmental Policy Act
SPCC	Spill Prevention, Control, and Countermeasures Plan
SSA	Sole Source Aquifer
SWABS	Stormwater BMP Specifications database
SWPPP	Stormwater Pollution Prevention Plan
TESCM	<i>Temporary Erosion and Sediment Control Manual</i> M 3109
TMDL	Total Maximum Daily Load
UIC	Underground Injection Control
USC	United States Code
USFWS	U.S. Fish and Wildlife Service
WAC	Washington Administrative Code
WLA	Waste Load Allocation
WPA	Wellhead Protection Area
WRIA	Water Resource Inventory Area
WSDOT	Washington State Department of Transportation
WSF	Washington State Ferries
WQMPP	Water Quality Monitoring and Protection Plan

430.10 Glossary

These definitions provided context for the Stormwater process. Some terms may have other meanings in a different context.

Council on Environmental Quality (CEQ) – Coordinates Federal environmental efforts and works closely with agencies and other White House offices on the development of environmental policies and initiatives.

Critical Aquifer Recharge Area (CARA) – An area designated by a city or county for protection under the Growth Management Act that has a critical recharging effect on aquifers used for potable water.

Groundwater – Water that occurs below the surface of the earth, contained in pore spaces. It is either passing through or standing in the soil and underlying strata and is free to move under the influence of gravity.

Group A water systems regularly serve 15 or more residential connections or 25 or more people/day for 60 or more days per year. All remaining systems are designated Group B.

Group B wells serve a single residential connection and are not considered public water supplies but are generally regulated by local ordinances.

Highway Runoff Manual (HRM) – WSDOTs [Highway Runoff Manual](#) M 31-16 directs the planning and design of stormwater management facilities that meet state and Federal regulations for new and redeveloped Washington state highways, rest areas, park-and-ride lots, ferry terminals, and highway maintenance facilities throughout the state.

Injection Well – Any disposal system designed to place fluids, including highway runoff and treated wastewater from on-site sewage disposal systems, into the subsurface. Such systems include bored, drilled, or dug holes; for example, dry wells, French drains, and drain fields.

National Pollution Discharge Elimination System (NPDES) – Pollution control permits that require point source dischargers to obtain permits. These are issued to WSDOT and other entities, by Ecology, for construction stormwater, municipal separate storm sewer systems, industrial, and sand and gravel operations.

Sanitary Control Area (SCA) – An area (minimum radius 100 ft) maintained around a public water source (surface or well) for the purpose of protecting that source from existing and potential sources of contamination. No sources of contamination may be constructed within the sanitary control area without the permission of the DOH and the water purveyor. DOH guidance identifies stormwater runoff and spills resulting from vehicular accidents on roadways as potential sources of contamination.

Sole Source Aquifer (SSA) – An aquifer designated by EPA that (1) supplies 50 percent or more of the drinking water to the population living over the aquifer, (2) has distinct hydrogeological boundaries, and (3) for which there is no economically feasible alternative source of drinking water if it should become contaminated.

Source Water Protection Area – Area protected for drinking water supplies; these include Wellhead Protection Areas and Sanitary Control Areas.

Stormwater – That portion of precipitation that does not naturally percolate into the ground or evaporate, but flows via overland flow, interflow, pipes, and other features of a stormwater drainage system into a defined surface water body or a constructed infiltration facility.

Surface Water – All water naturally open to the atmosphere, such as rivers, lakes, reservoirs, ponds, streams, wetlands, seas, and estuaries.

Total Maximum Daily Load (TMDL) – A requirement of the Clean Water Act, TMDLs consist of a watershed-based pollution control plan developed to address water quality impairment.

Watershed – The land area that drains into a surface waterbody; the watershed for a major river may encompass several smaller watersheds that ultimately combine at a common point.

Waters of the State or State Waters – Lakes, rivers, ponds, streams, inland waters, underground waters, salt waters and all other surface waters and watercourses located within the jurisdiction of the state of Washington. ([RCW 90.48.020](#))

Wellhead Protection Area – Area managed by a community to protect groundwater drinking water supplies.

Wellhead Protection Areas (WPA) – A portion of the zone of contribution for a Group A well or spring, as determined by delineation criteria based on the estimated time of travel for a particle of water from the zone boundary to its eventual arrival at the well. Water purveyors are required to inventory all known and potential groundwater contamination sources within the WPA and complete a susceptibility assessment every five years. Additional information is available in DOH's *Wellhead Protection Guidance Document*.