



Transmittal Number PT 18-070	Date August 2018
Publication Title / Publication Number <i>Environmental Manual M 31-11.20</i>	
Originating Organization Development Division, Environmental Services Office	

**Remarks and Instructions**

For updating printed manuals, page numbers indicating portions of the manual that are to be removed and replaced are shown below.

Chapter	Remove Pages	Insert Pages
Title Page	1 – 2	1 – 2
Contents	5 – 12	5 – 12
Chapter 430 Surface Water Quality	430-1 – 430-10	430-1 – 430-10
Chapter 630 Construction Close Out for Environmental	630-1 – 630-2	630-1 – 630-2
Appendix B Interagency Agreements	B-1 – B-2	B-1 – B-2

The complete manual, revision packages, and individual chapters can be accessed at [www.wsdot.wa.gov/publications/manuals/m31-11.htm](http://www.wsdot.wa.gov/publications/manuals/m31-11.htm).

Please contact Ashley Carle at 360-705-7493 or [carleas@wsdot.wa.gov](mailto:carleas@wsdot.wa.gov) with comments, questions, or suggestions for improvement to the manual.

To get the latest information, please sign up for email updates for individual publications at [www.wsdot.wa.gov/publications/manuals](http://www.wsdot.wa.gov/publications/manuals).

Washington State Department of Transportation  
Environmental Services Office  
PO Box 47331  
Olympia, WA 98504

Approved By

Signature





**Washington State  
Department of Transportation**

---

# **Environmental Manual**

M 31-11.20

August 2018

**Engineering and Regional Operations**  
Development Division, Environmental Services Office

## Americans with Disabilities Act (ADA) Information

### English

**Title VI Notice to Public** It is the Washington State Department of Transportation's (WSDOT) policy to assure that no person shall, on the grounds of race, color, national origin or sex, as provided by Title VI of the Civil Rights Act of 1964, be excluded from participation in, be denied the benefits of, or be otherwise discriminated against under any of its federally funded programs and activities. Any person who believes his/her Title VI protection has been violated, may file a complaint with WSDOT's Office of Equal Opportunity (OEO). For additional information regarding Title VI complaint procedures and/or information regarding our non-discrimination obligations, please contact OEO's Title VI Coordinator at 360-705-7090.

**Americans with Disabilities Act (ADA) Information** This material can be made available in an alternate format by emailing the Office of Equal Opportunity at [wsdotada@wsdot.wa.gov](mailto:wsdotada@wsdot.wa.gov) or by calling toll free, 855-362-4ADA(4232). Persons who are deaf or hard of hearing may make a request by calling the Washington State Relay at 711.

### Spanish

**Notificación de Título VI al Público** Es la póliza de el Departamento de Transportes del Estado de Washington de asegurar que ninguna persona sea excluida de participación o sea negado los beneficios, o sea discriminado bajo cualquiera de sus programas y actividades financiado con fondos federales sobre la base de raza, color, origen nacional o sexo, como proveído por el Título VI de el Acto de Derechos Civiles de 1964. Cualquier persona que cree que sus protecciones de Título VI han sido violadas, puede hacer una queja con la Oficina de Igualdad de Oportunidades (OEO). Para información adicional con respecto a procedimientos de quejas de Título VI y/o información con respecto a nuestras obligaciones sin discriminación, por favor de comunicarse con el Coordinador de Título VI de la Oficina de Igualdad de Oportunidades (OEO) 360-705-7090.

#### Información del Acta Americans with Disabilities Act (ADA)

Este material es disponible en un formato alternative. Envíe su petición por correo electrónico al equipo de Oficina de Igualdad de Oportunidades (OEO) en [wsdotada@wsdot.wa.gov](mailto:wsdotada@wsdot.wa.gov) o llamando gratis, 855-362-4ADA (4232). Personas sordas o con problemas de audición pueden solicitar llamando el relé de estado de Washington al 711. For public events (like Open Houses, etc) English Accommodation requests for people with disabilities can be made by contacting the WSDOT Diversity/ADA Affairs team at [wsdotada@wsdot.wa.gov](mailto:wsdotada@wsdot.wa.gov) or by calling toll-free, 855-362-4ADA (4232). Persons who are deaf or hard of hearing may make a request by calling the Washington State Relay at 711. Spanish Solicitudes de alojamiento para personas con discapacidad pueden hacer comunicándose con el equipo de Asuntos de diversidad/ADA WSDOT en [wsdotada@wsdot.wa.gov](mailto:wsdotada@wsdot.wa.gov) o llamando al número gratuito, 855-362-4ADA (4232). Personas sordas o con problemas de audición pueden solicitar llamando el relé del estado de Washington al 711.

To get the latest information on WSDOT publications, sign up for individual email updates at [www.wsdot.wa.gov/publications/manuals](http://www.wsdot.wa.gov/publications/manuals).

Washington State Department of Transportation  
Environmental Services Office  
PO Box 47408  
Olympia, WA 98504-7310

Environmental Manual Coordinator  
360-705-7493  
[carleas@wsdot.wa.gov](mailto:carleas@wsdot.wa.gov)

<b>Chapter 100</b>	<b>Purpose and Overview</b> .....	100-1
<b>Chapter 200</b>	<b>Transportation Planning</b> .....	200-1
	200.01 Environmental Considerations in Transportation Planning .....	200-1
<b>Chapter 300</b>	<b>Project Scoping and Programming</b> .....	300-1
	300.01 Introduction and Overview .....	300-1
	300.02 Project Scoping .....	300-2
	300.03 Project Classification .....	300-3
	300.04 NEPA Classifications .....	300-3
	300.05 SEPA Classifications .....	300-5
	300.06 Revision of Project Scope and Classification .....	300-6
	300.06(1) NEPA Reclassification .....	300-6
	300.06(2) SEPA Reclassification .....	300-6
	300.07 Highways Over National Forest Lands .....	300-6
	300.08 Environmental Database Resources .....	300-6
	300.08(1) WSDOT's GIS Workbench .....	300-6
	300.08(2) Expansion of GIS Workbench .....	300-7
	300.08(3) Citing a GIS Database .....	300-7
	300.09 Applicable Statutes and Regulations .....	300-7
	300.10 Abbreviations and Acronyms .....	300-8
	300.11 Glossary .....	300-8
<b>Chapter 400</b>	<b>Environmental Review (NEPA/SEPA) and Transportation Decision Making</b> .....	400-1
	400.01 Defining a Transportation Project for Environmental Review .....	400-1
	400.02 Roles and Responsibilities .....	400-2
	400.02(1) Lead Agencies .....	400-2
	400.02(2) Cooperating/Consulted Agencies .....	400-3
	400.02(3) Participating Agencies .....	400-4
	400.02(4) Tribal Participation .....	400-5
	400.02(5) Public Involvement / Community Engagement .....	400-5
	400.02(6) WSDOT Internal Roles and Responsibilities .....	400-8
	400.03 Identifying the Type of Environmental Document .....	400-9
	400.04 NEPA/SEPA Procedures .....	400-9
	400.05 Ensuring Environmental Document Quality .....	400-10
	400.05(1) Document Standards and Plain Talk .....	400-10
	400.05(2) Publication Standard Messages .....	400-11
	400.06 Using Existing Environmental Documents .....	400-11
	400.06(1) Re-evaluations .....	400-11
	400.06(2) Supplemental Documents .....	400-13
	400.06(3) Using NEPA Documents for SEPA .....	400-14

400.07	Documenting an Environmental Impact Statement (EIS) . . . . .	400-14
400.07(1)	Scoping Process . . . . .	400-14
400.07(2)	Draft Environmental Impact Statement (DEIS) . . . . .	400-17
400.07(3)	Final EIS (FEIS) . . . . .	400-19
400.07(4)	Record of Decision (ROD) . . . . .	400-20
400.08	Documenting an Environmental Assessment (EA) or SEPA Checklist . . . . .	400-20
400.08(1)	NEPA Environmental Assessments . . . . .	400-20
400.08(2)	SEPA Threshold Determination (SEPA Checklist) . . . . .	400-21
400.09	Categorical Exclusions/Exemptions (CE) . . . . .	400-21
400.09(1)	NEPA CEs (Categorical Exclusions) . . . . .	400-22
400.09(2)	SEPA CEs (Categorical Exemptions) . . . . .	400-22
400.10	Environmental Document Legal Considerations . . . . .	400-22
400.10(1)	Statute of Limitations . . . . .	400-22
400.10(2)	Administrative Record . . . . .	400-23
400.11	Applicable Statutes and Regulations . . . . .	400-25
400.11(1)	National Environmental Policy Act (NEPA) . . . . .	400-25
400.11(2)	Other Federal Environmental Statutes . . . . .	400-25
400.11(3)	State Environmental Policy Act (SEPA) . . . . .	400-26
400.12	Abbreviations and Acronyms . . . . .	400-26
400.13	Glossary . . . . .	400-27
<b>Chapter 412</b>	<b>Indirect and Cumulative Impacts . . . . .</b>	<b>412-1</b>
412.01	Introduction . . . . .	412-1
412.02	Summary of Requirements . . . . .	412-1
412.03	Type of Impacts Included in the Cumulative Impacts Analysis . . . . .	412-4
412.04	Analyzing Cumulative Impacts . . . . .	412-4
412.05	Climate Change and Greenhouse Gases . . . . .	412-5
412.06	Case Law and Cumulative Impacts Analysis . . . . .	412-5
412.07	Additional Resources of Indirect and Cumulative Effects . . . . .	412-6
412.08	Applicable Statutes and Regulations . . . . .	412-7
412.09	Glossary . . . . .	412-7
<b>Chapter 420</b>	<b>Earth (Geology and Soils) . . . . .</b>	<b>420-1</b>
420.01	Summary of Requirements for Geology and Soils . . . . .	420-1
420.02	Resources for Analyzing Geology and Soils Impacts . . . . .	420-2
420.03	Applicable Statutes and Regulations . . . . .	420-2
420.03(1)	Federal . . . . .	420-2
420.03(2)	State and Local . . . . .	420-2

<b>Chapter 425</b>	<b>Air</b>	<b>425-1</b>
425.01	Air Quality Overview	425-1
425.02	Conformity Requirements	425-1
	425.02(1) Exempt Projects	425-2
	425.02(2) Region-Level Analysis	425-2
	425.02(3) Project-Level Analysis	425-2
425.03	NEPA Requirements	425-3
	425.03(1) Criteria Pollutants	425-4
	425.03(2) Mobile Source Air Toxics (MSATs)	425-4
	425.03(3) Greenhouse Gas Emissions (GHG)	425-4
	425.03(4) Temporary Construction Emissions	425-4
	425.03(5) Fugitive Dust	425-4
425.04	Modeling Requirements	425-5
425.05	Air Quality Permits and Approvals	425-5
425.06	Multi-Modal and Non-Road Air Quality Requirements	425-5
425.07	Air Quality Statutes, Regulations, and Guidance	425-5
	425.07(1) Federal	425-5
	425.07(2) State	425-6
	425.07(3) Regional	425-6
425.08	Abbreviations and Acronyms	425-6
425.09	Glossary	425-7
<b>Chapter 430</b>	<b>Surface Water Quality</b>	<b>430-1</b>
430.01	Surface Water Quality Requirements	430-1
430.02	Analyzing Surface Water Impacts	430-2
430.03	303(d) and TMDL Impaired Water Bodies	430-3
430.04	Surface Water Interagency Agreements	430-4
430.05	Water Quality Permits and Approvals	430-4
	430.05(1) Federal	430-4
	430.05(2) State	430-5
	430.05(3) Local	430-5
430.06	Non-Road Project Surface Water Requirements	430-5
	430.06(1) Ferries	430-5
	430.06(2) Airports, Rail, and Nonmotorized Facilities	430-5
430.07	Surface Water Quality Resource Materials	430-6
430.08	Applicable Statutes and Regulations	430-6
	430.08(1) Federal	430-6
	430.08(2) State	430-7
	430.08(3) Tribal	430-7
430.09	Abbreviations and Acronyms	430-8
430.10	Glossary	430-9

<b>Chapter 431</b>	<b>Wetlands</b>	431-1
431.01	Wetlands and Other Waters	431-1
431.02	Assessing Wetlands and Other Waters	431-2
431.03	Identifying Impacts to Wetlands and Other Waters	431-3
431.04	Mitigating for Impacts to Wetlands and Other Waters	431-3
431.04(1)	Selecting a Compensatory Mitigation Option	431-4
431.04(2)	Developing Detailed Mitigation Plans	431-5
431.04(3)	Joint Aquatic Resources Permit Application (JARPA) Submittals and Final Plan Development	431-6
431.05	Policies, Regulations, and Agreements	431-6
431.05(1)	Policies	431-6
431.05(2)	Federal Statutes and Regulations	431-6
431.05(3)	State Statutes and Regulations	431-7
431.05(4)	Local Requirements	431-7
431.06	Abbreviations and Acronyms	431-7
431.07	Glossary	431-7
<b>Chapter 432</b>	<b>Floodplains</b>	432-1
432.01	Summary of Floodplain Requirements	432-1
432.02	Applicable Statutes and Regulations	432-1
432.02(1)	National Environmental Policy Act/State Environmental Policy Act	432-1
432.02(2)	Endangered Species Act	432-2
432.02(3)	Floodplain Management	432-2
432.02(4)	Flood Control Management Act	432-2
432.02(5)	Local Ordinances	432-2
432.03	Governor’s Directive on Acquisitions of Agricultural Resource Land	432-4
432.04	WDFW Memorandum of Agreement (MOA) for Transportation Activities	432-4
432.05	Floodplain Discipline Report	432-4
432.06	FHWA Floodplain Technical Advisory	432-5
432.07	FHWA Federal-Aid Highway Program Policy & Guidance Center	432-5
432.08	Flood Emergency Procedures	432-6
432.09	Flood Control Assistance Account Program (FCAAP)	432-6
432.10	Floodplain Permits and Approvals	432-6
432.11	Non-Road Project Requirements	432-6
432.12	Floodplain Resources	432-7
432.12(1)	Comprehensive Flood Hazard Management Plans	432-7
432.12(2)	Local Floodplain Management	432-7
432.12(3)	<i>Emergency Relief Procedures Manual</i> M 3014	432-7
432.12(4)	Climate Change	432-7
432.12(5)	WSDOT GIS Workbench	432-8



432.13	Abbreviations and Acronyms . . . . .	432-9
432.14	Glossary . . . . .	432-9
<b>Chapter 433</b>	<b>Groundwater . . . . .</b>	<b>433-1</b>
433.01	Summary of Requirements for Groundwater . . . . .	433-1
433.02	Groundwater Policy Guidance . . . . .	433-2
	433.02(1) State Source Water Assessment and Protection Programs Guidance . . . . .	433-2
433.03	Groundwater Related Interagency Agreements . . . . .	433-2
	433.03(1) Sole Source Aquifers . . . . .	433-2
	433.03(2) Drinking Water Well Sanitary Control Areas – Screening Criteria . . . . .	433-2
433.04	Applicable Statutes and Regulations . . . . .	433-3
	433.04(1) Federal . . . . .	433-3
	433.04(2) State and Local . . . . .	433-3
433.05	Abbreviations and Acronyms . . . . .	433-4
433.06	Glossary . . . . .	433-5
<b>Chapter 436</b>	<b>Fish, Wildlife, and Vegetation . . . . .</b>	<b>436-1</b>
436.01	Fish, Wildlife, and Vegetation Policies and Regulations . . . . .	436-1
436.02	Addressing Fish, Wildlife, and Vegetation in the NEPA/SEPA Process . . . . .	436-1
436.03	Working With Endangered and Threatened Species . . . . .	436-2
	436.03(1) Maintenance Activities and the ESA Section 4(d) Rule . . . . .	436-3
	436.03(2) ESA Section 7 Compliance . . . . .	436-3
	436.03(3) ESA Section 9 Compliance . . . . .	436-6
436.04	Working on Public Lands . . . . .	436-6
436.05	Protecting Birds . . . . .	436-7
436.06	Considering Fisheries Resources . . . . .	436-8
436.07	Protecting Marine Mammals . . . . .	436-9
436.08	Habitat Considerations . . . . .	436-9
436.09	Coordinating With Tribes on Fish, Wildlife, and Vegetation Resources . . . . .	436-10
436.10	Mitigation and Other Policies . . . . .	436-10
436.11	Abbreviations and Acronyms . . . . .	436-11
436.12	Glossary . . . . .	436-12
<b>Chapter 440</b>	<b>Energy . . . . .</b>	<b>440-1</b>
440.01	Energy Background . . . . .	440-1
440.02	Documentation and Modeling Requirements . . . . .	440-1
	440.02(1) Affected Environment . . . . .	440-1
	440.02(2) Energy Consumption . . . . .	440-2
	440.02(3) Greenhouse Gas Emissions . . . . .	440-2
	440.02(4) Conservation Measures and Mitigation . . . . .	440-2

440.03	Applicable Statutes, Regulations, and Guidance . . . . .	440-3
440.03(1)	Federal . . . . .	440-3
440.03(2)	State . . . . .	440-3
440.04	Non-Road Project Requirements . . . . .	440-3
440.05	Abbreviations and Acronyms . . . . .	440-3
440.06	Glossary . . . . .	440-4
<b>Chapter 446</b>	<b>Noise . . . . .</b>	<b>446-1</b>
446.01	Traffic Noise Background . . . . .	446-1
446.02	Traffic Noise Requirements . . . . .	446-1
446.03	Noise Technical and Policy Guidance . . . . .	446-2
446.03(1)	WSDOT Guidance . . . . .	446-2
446.03(2)	FHWA Guidance . . . . .	446-2
446.04	Noise Permits and Approvals . . . . .	446-4
446.05	Noise Considerations for Non-Highway Projects . . . . .	446-4
446.05(1)	FTA lead/co-lead projects . . . . .	446-4
446.05(2)	FRA Lead/Co-Lead Projects . . . . .	446-4
446.05(3)	WSF Projects . . . . .	446-4
446.05(4)	WSDOT Airports . . . . .	446-4
446.06	Applicable Statutes and Regulations . . . . .	446-5
446.07	Abbreviations and Acronyms . . . . .	446-5
446.08	Glossary . . . . .	446-6
<b>Chapter 447</b>	<b>Hazardous Materials (HazMat) and Solid Waste . . . . .</b>	<b>447-1</b>
447.01	Considering HazMat During the Project Lifecycle . . . . .	447-1
447.02	Determining Suitable HazMat Documentation from the ERS . . . . .	447-1
447.03	Writing and Right-Sizing HazMat Analysis . . . . .	447-2
447.04	Identifying Potentially Contaminated Property . . . . .	447-3
447.04(1)	Phase I Environmental Site Assessment (Phase I ESA) . . . . .	447-3
447.04(2)	Phase II Environmental Site Assessment (Phase II ESA) . . . . .	447-4
447.05	Managing Liability During Real Estate Acquisition . . . . .	447-5
447.06	Planning for Sediment Management . . . . .	447-6
447.07	Using Construction Specifications and Provisions . . . . .	447-6
447.07(1)	Identifying and Reporting HazMat During Construction . . . . .	447-7
447.07(2)	Encountering Unknown Underground Storage Tanks (USTs) . . . . .	447-7
447.07(3)	Finding Releases of Unknown HazMat . . . . .	447-8
447.07(4)	Responding to Spills From Construction Activities . . . . .	447-9
447.07(5)	Reporting Spills Caused by the Traveling Public (Third-Party) . . . . .	447-9
447.08	Managing HazMat During Construction . . . . .	447-11

447.09	Reusing or Disposing of Project Waste Materials . . . . .	447-12
447.10	Laws and Regulations . . . . .	447-13
	447.10(1) Federal Laws and Regulations . . . . .	447-13
	447.10(2) State Regulations . . . . .	447-13
447.11	Abbreviations and Acronyms . . . . .	447-13
447.12	Glossary . . . . .	447-14
<b>Chapter 455</b>	<b>Land Use and Transportation . . . . .</b>	<b>455-1</b>
455.01	Land Use, Transportation and Practical Solutions . . . . .	455-1
	455.01(1) Advisory Team Roles and Responsibilities . . . . .	455-2
455.02	Requirements for Land Use Analysis . . . . .	455-2
455.03	Requirements for Transportation Analysis . . . . .	455-3
455.04	Coordination with Federal Agencies other than FHWA . . . . .	455-4
	455.04(1) Waterborne Navigation and Ferry Facilities . . . . .	455-4
	455.04(2) Rail Facilities . . . . .	455-5
	455.04(3) Aviation Facilities . . . . .	455-6
455.05	Documenting Land Use Analysis for Legal Sufficiency under NEPA . . . . .	455-6
455.06	Bicycling and Pedestrian Facilities . . . . .	455-7
455.07	Transit . . . . .	455-8
455.08	Farmland . . . . .	455-8
	455.08(1) Farmland and Mitigation Sites . . . . .	455-9
	455.08(2) State Conservation Commission Memorandum of Understandings . . . . .	455-9
455.09	Resource Conservation Areas . . . . .	455-9
455.10	Recreational Land Conversions Section 6(f) . . . . .	455-10
	455.10(1) Section 6(f) Reviews . . . . .	455-10
	455.10(2) Other Grant Funded Properties . . . . .	455-12
455.11	Wild and Scenic Rivers . . . . .	455-13
	455.11(1) National Rivers Inventory . . . . .	455-14
	455.11(2) Washington State Scenic River System . . . . .	455-14
455.12	Statutes and Regulations . . . . .	455-14
455.13	Abbreviations and Acronyms . . . . .	455-15
455.14	Glossary . . . . .	455-16
<b>Chapter 456</b>	<b>Cultural Resources . . . . .</b>	<b>456-1</b>
456.01	Cultural Resources Overview . . . . .	456-1
456.02	Section 106 Review and Compliance: FHWA . . . . .	456-3
456.03	Section 106 Review and Compliance: Federal Lands . . . . .	456-5
456.04	Section 106 Review and Compliance: COE . . . . .	456-5
456.05	Section 106 Review and Compliance: Other Federal Agencies . . . . .	456-5
456.06	Governor’s Executive Order 05-05 Review and Compliance . . . . .	456-7
456.07	Bridge Compliance . . . . .	456-11

456.08	Artifact Collection and Disposition (Curation) . . . . .	456-15
456.08(1)	Factors in Determining a Curation Facility . . . . .	456-15
456.08(2)	Disposition of Archaeological Artifacts and Records From State Land, Federal Land, or Tribal Land . . . . .	456-15
456.08(3)	Submitting Collections to the Selected Curation Facility . . . . .	456-17
456.09	Use of Museums and Information Centers as Potential Mitigation . . . . .	456-17
456.09(1)	Exhibits/Displays . . . . .	456-17
456.09(2)	Stand-Alone Facilities . . . . .	456-18
456.10	Additional Cultural Resource Regulatory Guidance . . . . .	456-18
456.10(1)	Federal . . . . .	456-18
456.10(2)	State . . . . .	456-19
456.11	Acronyms and Abbreviations . . . . .	456-20
456.12	Glossary . . . . .	456-20
<b>Chapter 457</b>	<b>Section 4(f) Evaluation . . . . .</b>	<b>457-1</b>
457.01	Section 4(f) Requirements . . . . .	457-1
457.02	Identifying a Section 4(f) Property . . . . .	457-2
457.03	Individual Section 4(f) Compliance . . . . .	457-3
457.03(1)	De Minimis Section 4(f) Evaluations . . . . .	457-3
457.03(2)	Programmatic Section 4(f) Evaluations . . . . .	457-3
457.04	Cultural Resources May Be Protected Under Section 4(f) . . . . .	457-7
<b>457.05</b>	<b>Railroads and Rail Transit Lines . . . . .</b>	<b>457-7</b>
457.06	Section 6(f) Conversion May Be Required . . . . .	457-8
457.07	Section 4(f) Requirements May Differ for Other Federal Agencies . . . . .	457-8
457.08	Procedures for Completing a Section 4(f) Analysis . . . . .	457-8
457.09	Section 4(f) and Related Statutes . . . . .	457-8
457.10	Abbreviations and Acronyms . . . . .	457-9
457.11	Glossary . . . . .	457-9
<b>Chapter 458</b>	<b>Social and Community Effects . . . . .</b>	<b>458-1</b>
458.01	Social and Community Effects Analysis . . . . .	458-1
458.02	Equity Effects – Environmental Justice . . . . .	458-5
458.03	Social and Community Effects . . . . .	458-6
458.04	Economic Effects . . . . .	458-7
458.05	Relocation Impacts . . . . .	458-8
458.06	Public Services and Utilities . . . . .	458-9
458.07	Public Involvement Requirements – LEP . . . . .	458-10
458.07(1)	Limited English Proficiency – LEP . . . . .	458-10
458.08	Coordination with Tribal Governments . . . . .	458-11
458.09	Completing a Social and Community Effects Analysis . . . . .	458-11
458.10	Non-Road Project Requirements . . . . .	458-11
458.11	Links to Social Analysis Statutes and Regulations . . . . .	458-12

458.12	Abbreviations and Acronyms . . . . .	458-12
458.13	Glossary . . . . .	458-12
<b>Chapter 459</b>	<b>Visual Impacts . . . . .</b>	<b>459-1</b>
459.01	Visual Impacts Analysis Requirements . . . . .	459-1
	459.01(1) Why we do visual analysis . . . . .	459-1
	459.01(2) Summary of Requirements . . . . .	459-1
459.02	Non Road Project Requirements . . . . .	459-3
459.03	Applicable Statutes and Regulations . . . . .	459-4
	459.03(1) Federal . . . . .	459-4
	459.03(2) State . . . . .	459-5
459.04	Glossary . . . . .	459-5
<b>Chapter 490</b>	<b>Tracking Environmental Commitments During Design . . . . .</b>	<b>490-1</b>
490.01	Commitments Must Be Tracked . . . . .	490-1
490.02	Identify Environmental Commitments During Environmental Review and Design . . . . .	490-1
490.03	Perform a Constructability Review . . . . .	490-2
490.04	Project Design Must Reflect Environmental Commitments . . . . .	490-2
490.05	Procedures for Tracking Commitments During Design . . . . .	490-2
490.06	Links to Related Statutes . . . . .	490-3
490.07	Abbreviations and Acronyms . . . . .	490-3
490.08	Glossary . . . . .	490-3
<b>Chapter 500</b>	<b>Environmental Permitting . . . . .</b>	<b>500-1</b>
500.01	Introduction . . . . .	500-1
500.02	Permit Overview . . . . .	500-2
500.03	Roles and Responsibilities . . . . .	500-3
	500.03(1) Resource Agencies . . . . .	500-3
	500.03(2) Environmental Manager/Assistant Manager/Supervisors . . . . .	500-3
	500.03(3) Project Environmental Coordinator . . . . .	500-3
	500.03(4) WSDOT Environmental Technical Experts (Headquarters, Regions, and Modes) . . . . .	500-4
	500.03(5) Design Team . . . . .	500-4
	500.03(6) ESO Compliance Solutions Branch . . . . .	500-4
	500.03(7) Regional Maintenance Environmental Coordinator (RMEC)/ Maintenance Staff . . . . .	500-4
500.04	Identify the Required Permits Through Early Coordination . . . . .	500-5
500.05	Seek Permit Streamlining Options and Provide Schedule Input . . . . .	500-5
500.06	Submit a Complete Permit Application and Obtain Permits . . . . .	500-6
500.07	Review and Manage Permits During PS&E . . . . .	500-7
500.08	Manage Permits and Conditions During Construction . . . . .	500-7
500.09	Permitting Procedures . . . . .	500-8
500.10	Links to Permitting Resources . . . . .	500-8

500.11	Abbreviations and Acronyms . . . . .	500-8
500.12	Glossary . . . . .	500-9
<b>Chapter 530</b>	<b>Tribal Approvals . . . . .</b>	<b>530-1</b>
530.01	WSDOT Policy for Working With Tribes . . . . .	530-1
530.02	Treaty Rights . . . . .	530-1
530.03	Section 401 Water Quality Certification by Tribes . . . . .	530-2
530.04	Section 106 Consultation . . . . .	530-2
530.05	Archaeological Resources Protection Act Permit . . . . .	530-2
530.06	Hydraulic Project Approval . . . . .	530-3
530.07	Tribal Law . . . . .	530-3
530.08	Permit Assistance . . . . .	530-3
<b>Chapter 590</b>	<b>Incorporating Environmental Commitments Into Contracts . . . . .</b>	<b>590-1</b>
590.01	WSDOT’s Contracts Must Reflect the Environmental Commitments . . . . .	590-1
590.02	Procedures for Incorporating Commitments Into Contracts . . . . .	590-1
590.03	Glossary . . . . .	590-2
<b>Chapter 600</b>	<b>Construction . . . . .</b>	<b>600-1</b>
600.01	Construction Overview . . . . .	600-1
600.02	Roles and Responsibilities . . . . .	600-2
600.02(1)	WSDOT Region/Mode Environmental Manager (REM) . . . . .	600-2
600.02(2)	WSDOT Construction Project Engineer (PE) . . . . .	600-2
600.02(3)	WSDOT Environmental Coordinator and/or Project Office Inspector . . . . .	600-2
600.02(4)	WSDOT Environmental Technical Experts (Regions, Modes, and Headquarters) . . . . .	600-3
600.02(5)	Regulatory Agencies . . . . .	600-3
600.02(6)	WSDOT Environmental Services Office (Headquarters) . . . . .	600-4
600.03	Construction Compliance Expectations . . . . .	600-4
600.04	Procedures for Construction . . . . .	600-4
600.05	Abbreviations and Acronyms . . . . .	600-4
600.06	Glossary . . . . .	600-5
<b>Chapter 610</b>	<b>Preparation for Construction . . . . .</b>	<b>610-1</b>
610.01	Prepare a Compliance Binder or Notebook for the Project . . . . .	610-1
610.02	Discuss Environmental Compliance at the Pre-Construction Meeting . . . . .	610-1
610.03	Verify Contractor and WSDOT Credentials . . . . .	610-2
610.04	Take Environmental Training . . . . .	610-2
610.05	Provide Notifications and Submittals to Resource Agencies . . . . .	610-3
610.06	Mark Clearing Limits and Protect Sensitive Areas . . . . .	610-3
610.07	Procedures for Construction . . . . .	610-4
610.08	Abbreviations and Acronyms . . . . .	610-4
610.09	Glossary . . . . .	610-4

<b>Chapter 620</b>	<b>During Construction</b>	620-1
620.01	Introduction	620-1
620.02	Air	620-1
620.03	Cultural and Historic	620-1
620.04	Earth (Geology and Soils)	620-2
620.05	Fish, Wildlife, and Vegetation	620-2
620.06	Hazardous Materials (HazMat)	620-3
620.07	Noise	620-3
620.08	Public Services and Utilities	620-3
620.09	Transportation and Traffic	620-4
620.10	Water Quality	620-4
620.11	Wetlands and Other Waters	620-5
620.12	Enforce the Contract During Construction	620-5
620.13	Respond to Project Modifications	620-5
620.14	Respond to Noncompliance	620-6
620.15	Procedures for Construction	620-6
620.16	Abbreviations and Acronyms	620-6
620.17	Glossary	620-6
620.18	Exhibits	620-6
<b>Chapter 630</b>	<b>Construction Close Out for Environmental</b>	630-1
630.01	Close Commitments Upon Completion	630-1
630.02	Prepare As-Built Reports for Wetland and Stream Mitigation Efforts	630-1
630.03	Initiate Post Construction Wetland Mitigation Monitoring	630-1
630.04	Coordinate Long-Term Maintenance	630-1
630.05	Procedures for Close Out of Construction Commitments	630-2
630.06	Abbreviations and Acronyms	630-2
630.07	Glossary	630-2
<b>Chapter 700</b>	<b>Maintenance and Operations</b>	700-1
700.01	Environmental Requirements for Maintenance and Operations	700-1
	700.01(1) Project Management Phases and Maintenance	700-1
700.02	WSDOT Maintenance and Operation Plans and Policies	700-2
700.03	Interagency Agreements for Maintenance Activities	700-3
	700.03(1) MOA Between WDFW and WSDOT – July 2016	700-3
	700.03(2) Implementing Agreement – Alternative Mitigation Policy Guidance for Aquatic Permitting	700-3
	700.03(3) MOU on Preservation of Agricultural and Forest Lands	700-3
	700.03(4) MOU on Highways Over National Forest Lands	700-3
700.04	Permits and Approvals	700-4
700.05	WSDOT Manuals	700-4
700.06	Abbreviations and Acronyms	700-5

<b>Chapter 800</b>	<b>Property Management and Disposal</b> . . . . .	<b>800-1</b>
800.01	Overview . . . . .	800-1
800.02	Environmental Commitments for Utilities Accommodation . . . . .	800-1
	800.02(1) Accommodation of Utility Facilities within State Highway Right of Way . . . . .	800-1
	800.02(2) Utility Work Performed as part of WSDOT Projects . . . . .	800-2
800.03	Environmental Considerations in Real Property Disposal/Lease . . . . .	800-2
800.04	Environmental Considerations in Disposal of Pit Sites . . . . .	800-4
800.05	Environmental Considerations for Changes in Limited Access . . . . .	800-4
800.06	Statutes and Regulations . . . . .	800-5
800.07	Abbreviations and Acronyms . . . . .	800-5
800.08	Glossary . . . . .	800-5
<b>Appendix A</b>	<b>Executive Orders</b> . . . . .	<b>A-1</b>
<b>Appendix B</b>	<b>Interagency Agreements</b> . . . . .	<b>B-1</b>
<b>Appendix C</b>	<b>Letters, Memos and Directives</b> . . . . .	<b>C-1</b>



430.01	Surface Water Quality Requirements
430.02	Analyzing Surface Water Impacts
430.03	303(d) and TMDL Impaired Water Bodies
430.04	Surface Water Interagency Agreements
430.05	Water Quality Permits and Approvals
430.06	Non-Road Project Surface Water Requirements
430.07	Surface Water Quality Resource Materials
430.08	Applicable Statutes and Regulations
430.09	Abbreviations and Acronyms
430.10	Glossary

### **430.01 Surface Water Quality Requirements**

Untreated and uncontrolled stormwater runoff from projects can adversely impact water resources. Water quality and other surface water-related issues that WSDOT must address during project development and design include:

- In-water work
- Interference with stream flows
- Critical areas
- Stormwater runoff discharges
- Herbicide application
- Water rights

WSDOT must comply with all applicable federal, state, and local laws, regulations, policies, and plans. According to these laws, regulations, policies, and plans, WSDOT must evaluate potential stormwater impacts prior to submitting permit applications to resource agencies so project construction can proceed.

Surface water quality obligations emerge through the Clean Water Act (CWA) Section 401 certifications, water quality modifications, and compliance with the standards in Washington State's Water Pollution Control laws and regulations ([RCW 90.48](#) and [WAC 173-201A](#)). Applications for water quality-related permits include the Joint Aquatic Resources Permit Application (JARPA) for Section 401 Water Quality Certifications, and the National Pollutant Discharge Elimination System (NPDES) permits. [Section 430.05](#) lists permits, certificates, and approvals related to water quality. While this chapter focuses primarily on requirements pertaining to road projects, [Section 430.06](#) describes surface water and water quality requirements specific to ferries, airports, rail, and non-motorized transportation.

[Chapter 610](#) covers aspects of erosion and sediment control. [Chapter 620](#) includes a section on water quality during construction. For other water-related issues required under NEPA and SEPA see [Chapters 431](#), [432](#), and [433](#).

## 430.02 Analyzing Surface Water Impacts

WSDOT estimates potential surface water impacts. The process begins during scoping and continues through the NEPA and SEPA environmental documentation process. If the project may result in adverse impacts to surface water, NEPA and SEPA require a surface water impact analysis to be completed and recorded in the environmental document (see [Chapter 400](#)). Surface water impact analysis involves characterizing surface water, groundwater, wellhead protection areas, source water protection areas, soils and topographic features affecting basin hydrology, existing water quality conditions, and land use patterns affecting stormwater runoff conditions. The analysis also includes assessing potential impacts to water quality in a watershed.

1. **Determining the Necessary Level of Effort** – A proposed project generally needs to analyze surface water impacts when the project could affect receiving waters by:
  - Increasing the amount of pollutants discharged to surface waters.
  - Increasing peak runoff flows to surface waters.
  - Presenting a risk of eroded sediments or spilled pollutants entering surface waters.
  - Involving construction within surface water bodies, their buffers, or floodplains.

Situations where build options reduce the amount of pollutants or peak flows to surface waters may also require a surface water impact analysis if significant differences exist in the water quality benefits provided by each of the alternatives. Document the analysis of surface water 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 [Surface Water Discipline Report Checklist](#) to help ensure adequate consideration of all project-related surface water issues in the report.

In the event uncertainty exists as to whether surface water impacts may occur as a result of the project, perform a preliminary investigation of the impacts from each of the alternatives. Project managers can also contact the regional water quality lead for assistance. Terminate the investigation if it becomes apparent no significant impacts or differences in water quality exist among the alternatives. In the project file, document the rationale for the determination that the project did not need a surface water 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 early planning stage of a project. Do not use other pollutant loading methodologies in analyzing surface water impacts (i.e., the Highway Runoff Dilution and Loading Stormwater (HIRUN) model).
3. **Highway Runoff Manual** – The [Highway Runoff Manual](#) M 31-16 (HRM) summarizes stormwater management requirements and describes approved methods of managing stormwater runoff known as Best Management Practices (BMPs). 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 instances, this process will spur the need to design construction and post construction BMPs according to the criteria provided in Chapters 4 and 5. With release of the 2014 [HRM](#), what was formerly [HRM](#) Chapter 6 became a separate document titled *Temporary Erosion and Sediment Control Manual* M 3109 (TESCM).

The TESCM provides WSDOT procedures for meeting the statewide stormwater pollution prevention planning (SWPPP) discharge sampling and reporting requirements in the NPDES Construction Stormwater General Permit (CSWGP). It includes criteria for selecting appropriate erosion and sediment control BMPs, as well as guidelines on water quality monitoring for projects required to monitor runoff quality and potential effects to receiving water during construction.

The Washington State Department of Ecology (Ecology) approved the [HRM](#) as equivalent to the Ecology *Stormwater Management Manuals* for Western and Eastern Washington for compliance with Ecology-issued stormwater permits and [WAC 173-270](#).

Most projects lend themselves to relatively straightforward application of one or more of the BMP options presented in the [HRM](#). See [HRM](#) Section 1-4 on who to contact in instances where a site presents a challenge and does not lend itself easily to the approaches prescribed in the manual.

### 430.03 303(d) and TMDL Impaired Water Bodies

The CWA Section 303(d) requires Washington State to identify polluted water bodies every two years and submit the list to the U.S. Environmental Protection Agency (USEPA). Ecology develops a Total Maximum Daily Load (TMDL) for each water body segment included on the 303(d) list ([40 CFR 130.7](#)). TMDL water cleanup plans:

- Identify water pollution problems in the watershed.
- Specify how much pollution needs to be reduced or eliminated.
- Provide targets and strategies to achieve beneficial uses.
- Include a TMDL effectiveness monitoring plan to verify compliance with targets.

Once approved by USEPA, TMDL-related obligations can be included as commitments in the Corps Section 404 and 401, or as additional requirements in NPDES 402 stormwater permits.

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 USEPA 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 USEPA 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. WSDOT's [Water resources policies and procedures](#) webpage provides [guidance for how to determine if stormwater from a project will discharge to an impaired water body](#) and how to determine impacts. For more information on TMDLs or 303(d) listings, contact the Stormwater and Watersheds Program in the Environmental Services Office, or visit [Ecology's Water Quality Improvement](#) website.

## 430.04 Surface Water Interagency Agreements

[Appendix B](#) contains the following interagency agreements pertaining to surface water:

- **Memorandum of Agreement (MOA) on Hydraulic Project Approvals for Transportation Activities** – WSDOT and Washington Department of Fish and Wildlife (WDFW) signed the “Administration of Hydraulic Project Approvals for Transportation Activities and Implementation of the Fish Passage Retrofit Program and Chronic Deficiency Program” MOA to establish mutual understanding and procedures between the agencies for complying with the Hydraulic Code Rules ([WAC 220-660](#)) applicable to transportation projects. Additional information about HPAs is available in Chapter 2 of the [Complete Permit Application Guidance](#).
- **Implementing Agreement Regarding Application of the Highway Runoff Manual** – 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. In March 2014 this [implementing agreement](#) was amended and revised.

## 430.05 Water Quality Permits and Approvals

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.

Project notification to Ecology occurs through submittal of a [JARPA](#) application, or through telephone/email for:

- All new construction projects requiring a CWA Section 401 Water Quality Certification.
- Large or contentious projects, as well as those involving a significant amount of in-water work.
- Any project not expected to or that does not comply with conditions listed in the inter-agency agreements ([Appendix B](#)).

Surface water quality requirements and BMPs get implemented through the JARPA process, NPDES permits, WSDOT’s [HRM](#), actions triggered from Biological Opinions, and project-specific BMPs. Additional information can be found on the [Environmental permits and approvals](#) website.

### 430.05(1) **Federal**

- CWA Section 404 Permit – Wetland/Streams
- 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 General Permits
- Coastal Zone Management Act Consistency Determination

**430.05(2) State**

- Hydraulic Project Approval
- Aquatic Lands Use Authorization

**430.05(3) Local**

- Floodplain Development Permit
- Shoreline Permits/Exemptions
- Critical Areas Ordinance Permit

**430.06 Non-Road Project Surface Water Requirements****430.06(1) Ferries**

- **General Permit Requirements** – The ferry system must abide by the same permits as the road system for upland and aquatic projects. These most commonly include the US Army Corps of Engineers Section 10 or Section 404 permits, (including Nationwide Permits (NWPs) and Letters of Permission), U.S. Coast Guard (USCG) Section 9, WDFW Hydraulic Project Approval (HPA), and local shoreline permits. Washington State Ferries (WSF) typically obtains these permits through the JARPA process. WSF terminals and facilities falling within the geographic scope of the Phase 1 and Phase 2 NPDES municipal stormwater permits have coverage under WSDOT’s NPDES municipal stormwater permit.

In order to comply with permit requirements, it is important to know the accurate distance from the shoreline to the project. For marine water, measure the distance to the shoreline from the mean higher high water (MHHW). For fresh water, measure the distance from the ordinary high water mark (OHWM) or line.

- **NPDES Industrial Stormwater General Permit** – This permit governs stormwater discharges associated with industrial activities at the WSF Eagle Harbor vessel maintenance facility.

**430.06(2) Airports, Rail, and Nonmotorized Facilities**

Airport, rail, and nonmotorized projects are subject to the same water quality policies, procedures, and permits as road projects. Rail projects and railroad fills, including ties, rails, and structures over streams, are all considered pervious. For examples of pervious and impervious pavement, refer to the glossary in the [HRM](#). To prevent materials from falling off trains into waterbodies, enclosed structures must be used to transport materials. A separate stormwater design manual exists for airports, but it has not been amended to meet Ecology’s 2012 stormwater manual updates. Contact the [Aviation Division](#) for assistance designing stormwater treatment adjacent to airports.

## 430.07 Surface Water Quality Resource Materials

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 that provide useful information for surface water quality analyses. WSDOT works with federal, state, and local agencies to maintain a collection of the best available data for statewide environmental analysis. Available databases relevant to surface water quality include water resource inventory areas (WRIAs) and sub-basins, major shorelines, CWA Section 303(d) Impaired Waters 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 surface 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 USEPA. In addition, USEPA 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 surface water analysis should address the guidance outlined in watershed/basin action plans related to surface waters.

## 430.08 Applicable Statutes and Regulations

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

### 430.08(1) Federal

1. **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 considerations, such as impacts to water quality, receive appropriate consideration during decision making. [23 CFR 771](#) (FHWA) and [40 CFR 1500–1508](#) (CEQ) contain Federal implementing regulations. For details on NEPA procedures see [Chapter 400](#).
2. **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, USEPA has delegated administrative authority of the CWA to Ecology except on tribal and Federal lands (and discharges to tribal waters).

3. **Endangered Species Act (ESA)** – [USFWS](#) and [NOAA Fisheries](#) administer this act. A federal nexus triggers formal consultation under the act. These triggers include permits, funding or actions on federal land, and by the potential harm, harassment, or take of listed species or impacts to their habitat. Informal consultation, under Section 10 of the act, requires applicants to comply with the ESA even if a federal nexus does not occur.

The ESA has relevance to discharges to surface waters with listed aquatic species. The presence of salmonids that are listed under the ESA within a waterbody that is receiving surface water discharges may trigger additional requirements for surface water discharges beyond those required in the [HRM](#) or by Ecology. Contact a WSDOT project biologist about any additional requirements due to the presence of ESA listed species in the project-affected watershed.

#### **430.08(2) State**

1. **State Environmental Policy Act (SEPA)** – SEPA requires that all major actions sponsored, funded, permitted, or approved by state and/or local agencies undergo planning to ensure environmental considerations during decision making, including impacts to surface water quality. [WAC 197-11](#) and [WAC 468-12](#) (WSDOT) describe state implementing regulations. For details on SEPA procedures see [Chapter 400](#).
2. **State Water Quality Laws and Rules** – The Water Pollution Control Act ([RCW 90.48](#)) is the primary water pollution law for Washington State. 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. WSDOT must apply all known, available, and reasonable methods of prevention, control, and treatment (AKART) prior to discharge into the state's waters.

With respect to all state highway rights-of-way in the Puget Sound basin under WSDOT control, [WAC 173-270-030\(1\)](#) requires WSDOT to use the [HRM](#) to direct stormwater management for its existing and new facilities and rights-of-way. Exceptions where more stringent stormwater management requirements may apply are addressed in [WAC 173-270-030\(3\)\(b\)](#).

3. **Coastal Zone Management (CZM) Act Certification** – Ecology includes a [CZM Act Certification](#) consistency response with the CWA Section 401 certification for any work in Washington's 15 coastal counties. Additional information is available in Chapter 4 of the [Complete Permit Application Guidance](#).
4. **Hydraulic Code** – WDFW administers the HPA program under the State Hydraulic Code. This code protects fish and their aquatic environment. HPA permits include provisions that list BMPs that protect water quality.

#### **430.08(3) Tribal**

Some tribes have adopted specific water quality standards that may be stricter than those required by Ecology. For projects where stormwater is discharging within tribal lands please coordinate with your region's water quality program staff to determine what standards apply. Information about Section 401 Water Quality Certification is available in [Chapter 530](#).

## 430.09 Abbreviations and Acronyms

AKART	All Known, Available, and Reasonable Methods of Prevention, Control, and Treatment
BMP	Best Management Practice
CEQ	Council on Environmental Quality
CFR	Code of Federal Regulations
Corps	US Army Corps of Engineers
CSWGP	Construction Stormwater General Permit
CWA	Clean Water Act
CZM	Coastal Zone Management
Ecology	Washington State Department of Ecology
EA	Environmental Assessment
ECS	Environmental Classification Summary
EIS	Environmental Impact Statement
ERS	Environmental Review Summary
ESA	Endangered Species Act
FHWA	Federal Highway Administration
GIS	Geographic Information System
HPA	Hydraulic Project Approval
HIRUN	Highway Runoff Dilution and Loading Stormwater model
HRM	<i>Highway Runoff Manual</i> M 31-16
JARPA	Joint Aquatic Resources Permit Application
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
NWP	Nationwide Permit (US Army Corps of Engineers)
OHWM	Ordinary High Water Mark or line
RCW	Revised Code of Washington State
SEPA	State Environmental Policy Act
SWPPP	Stormwater Pollution Prevention Plan
TESCM	<i>Temporary Erosion and Sediment Control Manual</i> M 3109
TMDL	Total Maximum Daily Load
USC	United States Code
USCG	U.S. Coast Guard
USEPA	U.S. Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Service
WAC	Washington Administrative Code
WDFW	Washington State Department of Fish and Wildlife



WLA	Waste Load Allocation
WRIA	Water Resource Inventory Area
WSDOT	Washington State Department of Transportation
WSF	Washington State Ferries

## 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.

**Coastal Zone Management (CZM) Act Certification** – The Act, administered by NOAA’s Office of Ocean and Coastal Resource Management, provides for management of the nation’s coastal resources, including the Great Lakes, and balances economic development with environmental conservation and applies to fifteen coastal counties in WA which are located adjacent to salt water.

**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.

**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.

**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 a number of 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](#))

**This page intentionally left blank.**

630.01	Close Commitments Upon Completion
630.02	Prepare As-Built Reports for Wetland and Stream Mitigation Efforts
630.03	Initiate Post Construction Wetland Mitigation Monitoring
630.04	Coordinate Long-Term Maintenance
630.05	Procedures for Close Out of Construction Commitments
630.06	Abbreviations and Acronyms
630.07	Glossary

### **630.01 Close Commitments Upon Completion**

Most construction commitments are performed by the contractor, so achieving contract physical completion should be cause for closing out the commitment. WSDOT is committed to tracking commitments ([RCW 47.85.040](#)), which includes closing them upon completion. This is a difficult task considering the volume of commitments. However, WSDOT employees that use the Commitment Tracking System (CTS) can easily close commitments using the “Commitment Status” feature.

- Refer to [Procedure 630-a](#) for guidance closing out completed commitments.

### **630.02 Prepare As-Built Reports for Wetland and Stream Mitigation Efforts**

If wetland or stream mitigation was constructed for the project, WSDOT must send as-built reports to the Washington State Department of Ecology and U.S. Army Corps of Engineers. Refer to the project permits for specific as-built report and timing requirements.

- Refer to [Procedure 630-c](#) to coordinate preparing wetland/stream mitigation as built reports.

### **630.03 Initiate Post Construction Wetland Mitigation Monitoring**

If a wetland mitigation site was constructed for the project, WSDOT is obligated to monitor wetland mitigation sites for up to ten years. As construction nears completion, the Project Engineer must submit information to the Headquarters Wetland Program so monitoring can commence. Use the [Monitoring Setup Form](#) to notify the Wetland Program.

### **630.04 Coordinate Long-Term Maintenance**

WSDOT regularly makes project-level commitments that require long-term care. It is vital WSDOT’s Maintenance and Operations personnel receive a copy of and understand these long-term compliance expectations, including maintenance for mitigation sites. WSDOT must maintain these sites in perpetuity. Transition from post construction wetland monitoring to maintenance is specifically described in [Chapter 700](#).

- Refer to [Procedure 630-d](#) to ensure long-term commitments are effectively handed off.

## 630.05 Procedures for Close Out of Construction Commitments

The [procedures available for construction](#) on the WSDOT internet include:

- Use CTS to close out completed commitments.
- Request mitigation monitoring services of the Wetland Program.
- Coordinate the preparation of wetland/stream mitigation as built reports.
- Ensure Maintenance and Operations receive commitments requiring long-term maintenance.

## 630.06 Abbreviations and Acronyms

See [Section 600.05](#) for a list of abbreviations and acronyms

## 630.07 Glossary

See [Section 600.06](#) for the glossary.

Over the years, WSDOT has entered into agreements with various agencies to clarify how they intend to deal with various environmental matters. These agreements include Memoranda of Understanding (MOUs), Memoranda of Agreement (MOAs), Implementing Agreements (IAs), and other interagency agreements. However, as circumstances change, these agreements (or parts of them) can become obsolete, and the agencies will occasionally void, replace, or amend their agreements. If you have questions about the status of an agreement, contact the WSDOT Environmental Services Office at 360-705-7493.

WSDOT's current agreements with other agencies on various environmental matters that affect WSDOT's business practices, include the following:

Agreement With	Subject/Link to Agreement
Ecology, WDFW	<a href="#">Alternative Mitigation Policy Guidance for Aquatic Permitting</a>
FHWA, NMFS, USFWS	<a href="#">Assessing Stormwater Effects in Biological Assessments</a>
CTUIR, FHWA	<a href="#">Coordination and Consultation on State Transportation Activities</a>
Ecology	<a href="#">Coordination and Cooperation on Environmental Issues Under Ecology Jurisdiction</a>
USCG, FHWA	<a href="#">Coordinating to Improve Bridge Planning and Permitting</a>
DOH	<a href="#">Drinking Water Well Protection (Sanitary Control Areas)</a>
WSCC	<a href="#">Farmland and Forest Preservation</a>
PSCAA	<a href="#">Fugitive Dust</a>
USFS	<a href="#">Highways Over National Forest Lands</a>
Ecology	<a href="#">Highway Runoff Manual Implementing Agreement</a>
ACHP, FHWA, SHPOs	<a href="#">Historic Properties (Nationwide)</a>
ACHP, FHWA, WSHPO	<a href="#">Historic Properties (Statewide Programmatic Agreement Implementing Section 106)</a>
WDFW	<a href="#">Hydraulic Project Approvals Including Fish Passage and Chronic Environmental Deficiencies</a>
FHWA	<a href="#">NEPA Programmatic Categorical Exclusions (PCE)</a>
FHWA	<a href="#">Stewardship and Oversight Agreement</a>
FHWA, FTA, Sound Transit	<a href="#">Noise Methodology and Criteria</a>
FHWA, USEPA	<a href="#">Sole Source Aquifers</a>
WDNR	<a href="#">Utilities on Bridges Over Aquatic Lands</a>
ACOE, Ecology, FHWA, NMFS, USEPA, USFWS, WDFW	<a href="#">Wetland Compensation Bank Program</a>
Ecology	<a href="#">Use of Environmental Covenant Alternatives at WSDOT Sites</a>

**This page intentionally left blank.**