



CHELAN COUNTY

Chelan PUD

FINAL Stormwater Management Program (SWMP) Plan

SWMP Plan for the Eastern Washington Secondary Permittee

PERMIT COVERAGE NO. WAR04-6208

Updated August 2021

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PREFACE

This document was originally prepared by PACE Engineers, Inc. in March 2015 to meet the requirements of the Eastern Washington NPDES Phase II Secondary Permit with the collaborative efforts and input from the following Chelan PUD staff:

- Jennifer Burns, Environmental/Cultural Program Manager
- Greg Jones, Facilities Manager
- Ryan Baker, Park Superintendent
- Tim Randall, Surveyor

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Appendix A: Notification of Coverage under the Eastern Washington Phase II Municipal Stormwater General Permit No. WAR04-6208.

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ABBREVIATIONS AND ACRONYMS

AKART – All Known, Available, and Reasonable methods of prevention, control and Treatment
BMPs – Best Management Practices
Ecology – Washington State Department of Ecology
EPA – Federal Environmental Protection Agency
CESCL – Certified Erosion and Sediment Control Lead
CWA – Clean Water Act
GIS – Geographic Information System
IDDE – Illicit Discharge Detection and Elimination
MS4 – Municipal Separate Storm Sewer System
NPDES – National Pollution Discharge Elimination System
O&M – Operation and Maintenance
Permit – NPDES Phase II Permit for Eastern Washington
PUD – Chelan County Public Utility District
SWMP – Stormwater Management Program
TMDL – Total Maximum Daily Load
WMC – Wenatchee Municipal Code

REFERENCES

- Stormwater Management Program Self-Assessment Questionnaire (*January 2015*)
- Department of Ecology's Eastern Washington Phase II Municipal Stormwater General Permit:
- [Eastern Washington Phase II Municipal Stormwater Permit - Washington State Department of Ecology](#) <accessed August 10, 2021>
- Department of Ecology's Construction Stormwater General Permit: [Construction stormwater permit - Washington State Department of Ecology](#) <accessed August 10, 2021>
- Email correspondence with Chelan PUD Staff, <January and February 2015>
- Wenatchee Municipal Code: <http://www.codepublishing.com/WA/wenatchee.html> <accessed August 10, 2021>

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SECTION 1: BACKGROUND

1.1 INTRODUCTION

The 1972 amendments to the Federal Water Pollution Control Act, also known as the Clean Water Act (CWA), provide the regulatory and legal basis for the National Pollution Discharge Elimination System (NPDES) Permit program and implement other regulatory and non-regulatory tools to protect the quality of waters within the United States. The major CWA requirements related to stormwater management are NPDES Permits, stormwater permitting, the 303(d) listings of the Columbia River, and the Army Corps of Engineers Section 404 permits for capital projects.

The Federal Environmental Protection Agency (EPA) NPDES Permit provides the basic structure for regulating the discharge of pollutants from point sources to waters of the United States. The CWA allows the EPA to delegate the NPDES Permit Program to the Washington State government through the Department of Ecology (Ecology) to conduct permitting, administrative, and enforcement aspects of the NPDES Permit Program.

As authorized by the Clean Water Act, the NPDES permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States. In 1990, the U.S. Environmental Protection Agency (EPA) developed Phase I of the NPDES Stormwater Program, which requires a stormwater permit for medium and large municipal separate storm sewer systems (MS4s)¹ located in incorporated places or counties with populations of 100,000 or more, and for construction activity that disturbs 5 or more acres of land. Phase II of the NPDES Stormwater Program, which was introduced in 1999, requires a permit for stormwater discharges from certain regulated small MS4s and for construction activity that disturbs between 1 and 5 acres of land. For both Phase I and Phase II jurisdictions, the EPA rules require operators of MS4s to develop and implement a stormwater management program that:

- Reduces the discharge of pollutants to the “maximum extent practicable.”
- Protects water quality.

The NPDES Phase II Permit applies to cities and counties with a population of less than 100,000 or located within a federally designed urbanized area that operates an MS4. The City of Wenatchee has therefore been designated an NPDES Phase II Permittee. Public Utility District No. 1 of Chelan County (Chelan PUD) is a Secondary Permittee to the City of Wenatchee. Chelan PUD is required to comply with specific rules, regulations, and ordinances of the City of Wenatchee, for those properties located within the City limits and the City’s Urban Growth Area, all of which are described in this document and in Figures 1 through 7. The City of Wenatchee has been regulated under the Phase II NPDES permit since January 17, 2007.

The official issuance date of the Permit by Ecology to the Chelan PUD was January 1, 2015. See Appendix A for a copy of the *Notification of Coverage under the Eastern Washington Phase II Municipal Stormwater General Permit No. WAR04-6208*.

¹ An MS4 is any system that collects, conveys and discharges stormwater.

A stormwater management program involves planning, public education and involvement, illicit discharge detection and maintenance programs, and passing appropriate ordinances to reduce stormwater pollution. The Washington State Department of Ecology (Ecology) first issued a Phase II NPDES permit for Eastern Washington in 2007, modified it in 2009, and reissued it unmodified on August 1, 2012. At legislative direction, it became effective through July 31, 2014. Ecology also reissued an updated permit for 2019-2024 on July 1, 2019 to become effective on August 1, 2019. On January 1, 2015, the Chelan PUD petitioned Ecology via a Notice of Intent to come under the requirements of the Secondary Permit of the Eastern Washington NPDES Phase II Permit.²

The geographic extent of the Chelan PUD coverage area includes the following properties and can be viewed in Figures 1 through 7. Chelan PUD is currently constructing a new Service Center that will be included in coverage under the permit at the completion of the project.

- Figure 1. Overview of all facilities
- Figure 2. Wenatchee Headquarters Property. The property is located at 327 N. Wenatchee Ave.
- Figures 3a, 3b, and 3c. Riverfront Park. Properties extend along Riverfront Drive from Pybus Market to 5th Street.
- Figures 4a and 4b. Walla Walla Point Park. Properties extend from along Walla Walla Street from 9th Street to the Town Toyota Center.
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- Figure 6. Horan Road Pump House and Storage Building Site. The property is location on the north side of the Wenatchee River at 2310 Horan Road.
- Figure 7. Hawley Street Facility (Figure 6) located at 1150 Hawley St.
- Figure 8. Service Center (Placeholder)

The current Phase II NPDES permits can be accessed on the Ecology website at the following link:

[Eastern Washington Phase II Municipal Stormwater Permit - Washington State Department of Ecology](#)

1.2 STORMWATER MANAGEMENT PROGRAM COMPONENTS

The Secondary Permit of the NPDES Phase II Permit is written with six major stormwater program elements. Chelan PUD's Stormwater Management Program (SWMP) is the

² Department of Ecology's Eastern Washington Phase II Municipal Permit Stormwater Permit
[Eastern Washington Phase II Municipal Stormwater Permit - Washington State Department of Ecology](#)

mechanism for implementation and enforcement of these elements. The six major stormwater program elements are:

1. Public Education and Outreach
2. Public Participation and Involvement
3. Illicit Discharge Detection and Elimination
4. Construction Site Stormwater Runoff Control
5. Post-Construction Stormwater Management for New Development and Redevelopment
6. Pollution Prevention and Good Housekeeping for Municipal Operations

The purpose of the SWMP is to reduce the total discharge of pollutants into the local receiving waters, improve water quality, and satisfy the state requirement to apply “All Known, Available, and Reasonable methods of prevention, control, and Treatment” (AKART).

The SWMP outlines the details of each of the six major stormwater program elements. By complying with the SWMP, the Chelan PUD fulfills the requirements of S6.D.C.2.b. This Plan provides written documentation to the Department of Ecology on how the Chelan PUD will comply with the various requirements of the Permit. The SWMP also documents the status of the PUD’s current and future activities for compliance with the Permit.

1.3 SUMMARY OF STORMWATER PROGRAM DEFINITION PROCESS

The **Chelan PUD** is required to complete a SWMP that addresses the regulatory requirements of the NPDES Phase II Secondary Permit that apply to the identified PUD facilities within the City of Wenatchee and within the urban growth boundary. In January of 2015, a workshop was conducted by PACE Engineers, Inc., with four³ **Chelan** PUD staff to discuss and organize information pertaining to required elements in the SWMP. A *Stormwater Management Program Self-Assessment Questionnaire* was used to discuss and document the PUD’s current stormwater program activities. The results of the questionnaire and workshop are documented in this SWMP. The document presents existing activities and planned future activities specific to achieving compliance with the stormwater NPDES Phase II Municipal Stormwater General Permit No. WAR04-6208.

³ PUD Staff in Attendance: Jennifer Burns, Greg Jones, Ray Heit, and Tim Randall

SECTION 2: CHELAN PUD'S NPDES PHASE II PERMIT STORMWATER MANAGEMENT PROGRAM

2.1 PUBLIC EDUCATION AND OUTREACH (S6.D.1)

Regulatory Requirements

Chelan PUD is required to implement the following stormwater public education and outreach activities:

- Label stormwater inlets owned and operated by Chelan PUD by four years after the initial date (1/1/19) of permit coverage at:
 - Maintenance Yards
 - Parking Lots
 - Sidewalks
 - Pedestrian Access Points
- *Chelan PUD is not required to implement the requirements of S.6.D.1.b regarding the distribution of public education and outreach materials because they are not a public port, college, or university.*

Status of Existing Activities

- Chelan PUD has completed labelling stormwater inlets in maintenance yards, parking lots, sidewalks, and pedestrian access points.

Future Activities

- Chelan PUD regularly inspects and replaces labels associated with our storm drains. This activity is included as part of ongoing maintenance at each of our regulated facilities.
- *Optional Activity: Chelan PUD may also participate in the Salmon Festival for additional public education and outreach; however, this is not required by the Permit.*

2.2 PUBLIC INVOLVEMENT AND PARTICIPATION (S6.D.2)

Regulatory Requirements

Chelan PUD is required to implement the following public involvement and participation activities:

- Complete an annual report, submit to Ecology by March 31, 2016 and post on Chelan PUD's website by May 31, 2016.
- Complete all subsequent annual reports, submit to Ecology by March 31 and post on Chelan PUD's website annually by May 31.

- Make the latest updated version of the SWMP available on Chelan PUD's website annually by May 31.

Status of Existing Activities

- Chelan PUD has developed a SWMP and posted on website.
- Chelan PUD has submitted annual reports consistently to Ecology since March 31, 2019.
- Chelan PUD submitted the 2021 annual report by May 31, 2021.
- On August 10, 2021, Chelan PUD notified Ecology of the failure to comply with making the latest updated version of the SWMP available on Chelan PUD's website annually by May 31.
- On August 10, 2021, Chelan PUD updated the SWMP and posted on website.

Future Activities

- The PUD will complete all subsequent annual reports, submit to Ecology by March 31 and post on PUD's website annually by May 31.
- The PUD will make the latest updated version of the SWMP available on Chelan PUD's website by May 31.

2.3 ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE) (S6.D.3)

Regulatory Requirements

Chelan PUD is required to develop, implement and enforce an Illicit Discharge Detection and Elimination (IDDE) program to eliminate illicit discharges for small MS4s located at regulated facilities. Chelan PUD is required to implement the following IDDE activities on all facilities with MS4s:

- From the start of the Permit, comply with all IDDE rules, regulations and ordinance of the City of Wenatchee. If the Wenatchee Municipal Code is updated during the Permit cycle, Chelan PUD will comply with the most current version of the code.
- Develop and implement IDDE policies within one year from the initial date (1/1/16) of the Permit. Develop and implement IDDE procedures and enforcement plan to ensure compliance with the City of Wenatchee's IDDE policies within 18 months (7/1/16) of the initial date of the Permit.
- Develop a map of the MS4 with all known outfalls, receiving waters, and delineation of drainage basins to each known outfall for the following properties no later than 4.5 years (7/1/19) from the initial date of the Permit.
 - Wenatchee Headquarters Property
 - Riverfront Park
 - Walla Walla Point Park

- Wenatchee Confluence State Park
- Hawley Street Facility
- Service Center (Placeholder)

Note: The Horan Pump House and Storage Building Site is excluded from the IDDE requirements because there is no MS4 on the site.

Figures 1 through 7, following Section 2, show the locations of the properties.

- Conduct field inspection and visually inspect outfalls for illicit discharges. Visually inspect one-third of known MS4 outfalls annually, beginning no later than two years (1/1/17) from the initial date of permit coverage. Within two years of Permit coverage, implement procedures for identifying and removing any illicit discharges. Keep records of all inspections and follow-up activities.
- Develop and implement a spill response plan within 4.5 years (7/1/19) of the initial date of Permit coverage for each site listed above that has a MS4.
- Provide staff training to all staff that have a role in preventing illicit discharges. All staff shall be trained no later than two years (1/15/17) from the initial date of the Permit coverage.

Status of Existing Activities

- Chelan PUD has developed and implemented an IDDE policy (Policy #911) and ensures compliance with the City of Wenatchee’s IDDE policies.
- Chelan PUD has mapped all known outfalls, receiving waters and associated drainage basins using Geographic Information System (GIS) software at all six Permit properties previously listed. Table 1 provides a summary of stormwater facilities.

Table 1: Stormwater Facility Inventory	
Facility Type	Total
Catch Basins and Manholes	114
Storm Pipe	2.57 miles
Conveyance Ditches	0.69 miles
Drywells	2
Major Stormwater Management Facility	1
Surface discharges to the Wenatchee River	2
Surface discharges to the Columbia River	12

- Chelan PUD conducts field inspections and visually inspects outfalls for illicit discharges.
- Chelan PUD maintains records of field inspections and responds and resolves any identified illicit discharges. The inspection form is maintained in Chelan PUD's workflow platform, Maximo and is available upon request.
- Chelan PUD currently has a spill response plan in place for the Hawley Street Facility. Site operations staff are trained on the plan.
- Chelan PUD inspects storm drains at least one time per year and cleans them as necessary.
- Chelan PUD has developed annual training for staff that have a role in preventing illicit discharges.

Future Activities

- Develop a spill response plan for regulated facilities if required. Currently, the Hawley Street Facility has a Spill Prevention Control and Countermeasure (SPCC) plan in place based on the nature of activity.

2.4 CONSTRUCTION SITE STORMWATER RUNOFF CONTROL (S6.D.4)

Regulatory Requirements

The Chelan PUD is required to develop, implement, and enforce a Construction Site Runoff Control Program, and to implement the following Construction Site Runoff Control activities:

- From the start of the Permit, comply with all Construction Site Runoff Control rules, regulations and ordinances of the City of Wenatchee. See the Wenatchee Municipal Code (WMC) *Chapter 12.10: Construction and Post Construction Stormwater* for additional information on the City's rules and regulations regarding Construction Site Runoff Control.⁴ If the Wenatchee Municipal Code is updated during the Permit cycle, the PUD will comply with the most current version of the code.
- Obtain coverage under the General NPDES Permit for Stormwater Discharge Associated with Construction Activities.⁵
- Coordinate with the City of Wenatchee on construction projects owned and operated by the City that discharge into the Chelan PUD's MS4.

⁴ Wenatchee Municipal Code: <http://www.codepublishing.com/WA/wenatchee.html>

⁵ Department of Ecology's *Construction Stormwater General Permit*: <http://www.ecy.wa.gov/programs/wq/stormwater/construction/>

- Provide training to relevant Chelan PUD staff on erosion and sediment control Best Management Practices (BMPs) and Construction runoff requirements of the Permit.
- Coordinate with Ecology and the City of Wenatchee to provide access for inspection of construction sites or other land disturbances during the active grading and/or construction phase of a project.
- Construction site requirements are limited to compliance with local regulation and the state general stormwater permit for construction activities with additional coordination for potential construction stormwater runoff to the PUD MS4 facilities.

Status of Existing Activities

- Chelan PUD currently implements the requirements of the *2019 Department of Ecology's Stormwater Management Manual for Eastern Washington* for all proposed construction projects.
- Chelan PUD's Project Manager assures that construction permits are obtained by either Chelan PUD staff or the Contractor hired to complete a project. Chelan PUD takes responsibility for notifying adjacent property owners of a proposed project.
- Several Chelan PUD staff have been certified as Certified Erosion and Sediment Control Leads (CESLC).

Future Activities

- Continue to comply with all Construction Site Runoff Control rules, regulations, and ordinances of the City of Wenatchee.
- Continue to coordinate with the City of Wenatchee on construction projects owned and operated by the City that discharge into Chelan PUD's MS4.
- Provide additional training to relevant Chelan PUD staff on erosion and sediment control Best Management Practices (BMPs) and construction runoff requirements of the Permit, as needed.
- As requested, coordinate with Ecology and the City of Wenatchee to provide access for inspection of construction sites or other land disturbances during the active grading and/or construction phase of a project.

2.5 POST-CONSTRUCTION STORMWATER MANAGEMENT FOR NEW DEVELOPMENT AND REDEVELOPMENT (S6.D.5)

Regulatory Requirements

Chelan PUD is required to develop, implement and enforce a Post-Construction Stormwater Management for Development and Redevelopment Program. Chelan PUD is required to implement the following Construction Site Runoff Control activities:

- Comply with all Post-Construction Stormwater Management rules, regulations and ordinance of the City of Wenatchee. See the Wenatchee Municipal Code (WMC) *Chapter 12.10: Construction and Post Construction Stormwater* for additional

information on the City's rules and regulations regarding Post-Construction Stormwater Management for New Development and Redevelopment.⁶ If the Wenatchee Municipal Code is updated during the Permit cycle, Chelan PUD will comply with the most current version of the code.

- Coordinate with the City of Wenatchee regarding projects owned or operated by the City that discharge into Chelan PUD's MS4.

Status of Existing Activities

- Chelan PUD currently trains staff on ongoing maintenance needs for newly constructed facilities.

Future Activities

- Continue to comply with all Post-Construction Stormwater Management rules, regulations and ordinance of the City of Wenatchee. This may require coordination with City staff.
- Continue to Coordinate with the City of Wenatchee regarding projects owned or operated by the City that discharge into Chelan PUD's MS4. This may require coordination with City staff.

2.6 POLLUTION PREVENTION AND GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS (S6.D.6)

Regulatory Requirements

Chelan PUD is required to develop and implement a Pollution Prevention and Good Housekeeping Program for Municipal Operations. Chelan PUD is required to implement the following Operation and Maintenance (O&M) activities:

- Develop and implement an O&M Plan to minimize stormwater pollution prevention from activities conducted by Chelan PUD. The O&M Plan should address:
 - *Stormwater collection and conveyance systems*
 - *Roads and parking lots*
 - *Vehicle fleets*
 - *External building maintenance*
 - *Parks and open space*
 - *Other facilities that could have a negative impact on stormwater runoff.*
- As needed, from the start date (1/15/15) of the Permit, all facilities should be covered by the *General NPDES Permit for Stormwater Discharges Associated with Industrial Activities* or another NPDES Permit. The Permit authorizes surface water discharges associated with the activity.

⁶ Wenatchee Municipal Code: <http://www.codepublishing.com/WA/wenatchee.html>

- The O&M Plan is required to include sufficient documentation and records to assure that the PUD's stormwater management program is complying with the details of the O&M Plan.
- Within three years of initial date (1/1/18) of the Permit, the PUD is required to train all employees who construct, operate, or maintain stormwater facilities as part of their major job function. The training include the following topics:
 - The importance of protecting water quality
 - The requirements of the Permit
 - O&M requirements
 - Inspection procedures
 - Ways to perform job while minimizing impacts to water quality
 - Record keeping procedures for IDDE and spills

Status of Existing Activities

- Chelan PUD has developed and implemented an Operation and Maintenance (O&M) plan that addresses:
 - Stormwater collection and conveyance systems
 - Roads and parking lots
 - Vehicle fleets
 - External building maintenance
 - Parks and open space
 - Other facilities that could have a negative impact on stormwater runoff.
- Chelan PUD has an Asset Management Plan and system that can be used for planning and coordinating major stormwater maintenance and capital needs.
- Chelan PUD has an existing preventative maintenance program that includes stormwater maintenance activities.
- Chelan PUD has developed a training program for all employees who construct, operate, or maintain stormwater facilities as part of their major job function.

Future Activities

- As needed for new facilities, require coverage under the General NPDES Permit for Stormwater Discharge Associated with Industrial Activities,
- Develop a formal procedure for maintaining documentation and records to ensure compliance with the Stormwater O&M Plan.

2.7 TOTAL MAXIMUM DAILY LOADS (TMDLS)

Regulatory Requirements⁷

- There is a temperature TMDL and a pH and DO TMDL on the Wenatchee River; however, neither of these TMDLs is listed in Appendix 2 of the Permit.

Status of Existing Activities

- Not Applicable.

Future Activities

- Not Applicable at this time.

⁷ Department of Ecology's Eastern Washington Phase II Municipal Stormwater Permit Appendix 2 – Total Maximum Daily Loads (TMDL)
[Eastern Washington Phase II Municipal Stormwater Permit - Washington State Department of Ecology](#)

FIGURES

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- Figure 2. Wenatchee Headquarters Property. The property is located at 327 N. Wenatchee Ave.
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APPENDIX A

**NOTIFICATION OF COVERAGE UNDER THE
EASTERN WASHINGTON PHASE II MUNICIPAL STORMWATER
GENERAL PERMIT NO. WAR04-6208**