

**WHATCOM COUNTY COUNCIL
SURFACE WATER
WORK SESSION**

March 20, 2018

**JON HUTCHINGS
Director**



MEMORANDUM

TO: The Honorable Jack Louws, Whatcom County Executive, and Honorable Members of the Whatcom County Council

THROUGH: Jon Hutchings, Director

FROM: Gary S. Stoyka, Natural Resources Program Manager

DATE: March 13, 2018

RE: March 20, 2018 Council Surface Water Work Session

Please refer to the proposed agenda below for the next Surface Water Work Session. Additional supporting documents may be distributed at or before the meeting.

AGENDA

Date:	Tuesday, March 20, 2018		
Time:	10:30 a.m. to 12:00 p.m.		
Place:	Civic Center Garden Level Conference Room		
Time	Topic	Council Action Requested	Background Information Attached
10:30 AM – 10:55 AM	Water Planning Update	Discussion	None
10:55 AM – 11:40 AM	Jones Creek Flood Project	Discussion	None
11:40 AM – 12:00 PM	2017 NPDES Annual Report Summary and 2018 Program Overview	Discussion	None

If you have questions, please feel free to call me at (360) 778-6218.

cc: Mike McFarlane Joe Rutan Paula Harris John Wolpers Mike Donahue
Beth Bushaw Jeff Hegedus John Thompson Kraig Olason Erika Douglas
Tyler Schroeder Josh Fleischmann Karen Frakes Jennifer Schneider Jill Nixon
Sue Blake Roland Middleton Dana Brown-Davis Atina Casas Cathy Craver
George Boggs Ryan Ericson Lonni Cummings Kristi Felbinger Mark Personius

National Pollutant Discharge Elimination System (NPDES) Phase II Permit : *2018 Stormwater Management Program*

Whatcom County Public Works
Stormwater/NPDES
Surface Water Work Session
March 20, 2018



OBJECTIVES:

- Summarize background of the NPDES Phase II Permit and Whatcom County's NPDES Program
- 2017 Accomplishment Highlights
- 2018 Task Highlights
- Adjusted Permit Cycle Overview



BACKGROUND

- The Clean Water Act allows the Environmental Protection Agency (EPA) to authorize the National Pollutant Discharge Elimination System (NPDES) Permit Program to state governments.
 - The Clean Water Act
 - State Water Pollution Control Act
 - Western Washington Phase II Municipal Stormwater Permit
- “NPDES Phase II Permit” regulates discharges from a *small Municipal Separate Storm Sewer Systems (MS4s)* into water bodies of the State (e.g. rivers, lakes, etc.)
 - MS4s are publicly-owned and operated conveyance systems (e.g. roads with drainage systems, catch basins, curbs, gutters, ditches, storm drains, etc.).
 - The Permit lists the allowable and conditionally allowable discharges. Jurisdictions must protect water quality by implementing programs (required by the Permit) that reduce pollutants from MS4 discharges.
 - Whatcom County’s “**point of compliance**” for water quality is where our MS4 enters into a water body of the State.
- Whatcom County under Permit since 2007
- 2007-2012 Permit (*With modification in 2009)
- 2012-2013 Permit (*Continuation of the previous year’s permit)
- 2013-2018 Permit effective August 1, 2013-July 31, 2018
- 2018-2019 Permit (Continuation of current permit)
- 2019-2024 Permit (Draft release- Spring 2018; Effective August 1, 2019-July 31, 2024)

NPDES AREA AND FACILITIES

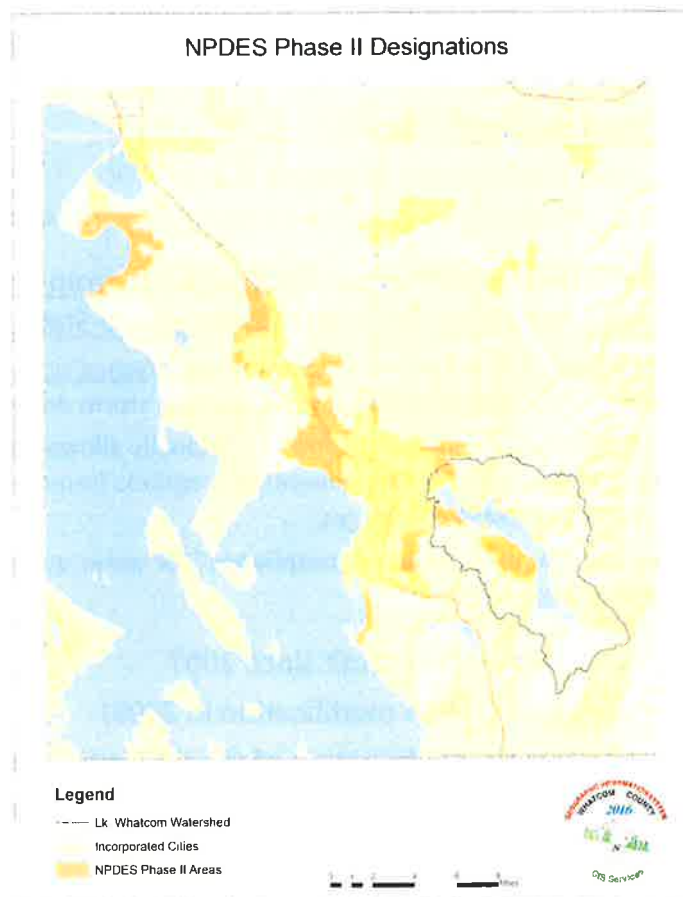
□ Approximate number of MS4 facilities:

- 2,900 catch basins
- 110 miles of ditches
- 360 outfalls

□ Stormwater Treatment and Flow Control Capital Facilities:

- 24 Filter Vaults
- 35 swales/bioretention
- 3 detention/ retention ponds

□ Area covers approximately 44,000 acres



PERMIT PROGRAM AREAS

- Public Education & Outreach
- Public Involvement & Participation
- Illicit Discharge Detection & Elimination (IDDE)
- Controlling Runoff From New Development, Redevelopment, and Construction Sites
- Municipal Operations and Maintenance

ADDITIONAL REQUIREMENTS

- Compliance With Total Maximum Daily Load Requirements (TMDL)
- Monitoring and Assessment



VELOCITY CONTROL AND BANK STABILIZATION PROJECT: AIRPORT WAY (ADJACENT TO RUNWAY).



TWO-PRONGED APPROACH TO PERMIT COMPLIANCE

□ Whatcom County responsible for specific requirements applicable to County-owned MS4 infrastructure

- Ex: Inspections, maintenance, monitoring, field reconnaissance, employee training, etc.



□ Whatcom County responsible for creating a predictable path for private property owners to protect water quality

- Ex: Educational opportunities (programs or events), adopted ordinances, technical support, etc.

BIOINFILTRATION SWALE REPAIR AND ENHANCEMENT AT LAKEWOOD LANE AND LAKEWAY DRIVE (BEHIND GENEVA ELEMENTARY SCHOOL)

NPDES BUDGET HISTORY

YEAR	APPROXIMATE ANNUAL BUDGET
2011	\$167,000
2012	\$164,000
2013	\$195,000
2014	\$300,000*
2015	\$1.2 M**
2016	\$1.05M
2017	\$997,000
2018	\$1.05M

*The increase in budget in 2014 was in response to increase programmatic development to comply with new requirements of the 2013-2018 Permit effective August 1, 2013.

**The increase in budget in 2015 initiated the ramping up in level of service needed to accomplish operations and maintenance requirements primarily through additional staffing.

NPDES PROGRAM STAFFING

2013	2014	2015	2016	2017	2018
<ul style="list-style-type: none"> ▪ Manager ▪ Sr. Planner 	<ul style="list-style-type: none"> ▪ Manager ▪ Sr. Planner 	<ul style="list-style-type: none"> ▪ Manager ▪ Sr. Planner 	<ul style="list-style-type: none"> ▪ Manager ▪ Sr. Planner ▪ Eng. Tech (Inspector) ▪ M&O Crew Leader ▪ Sr. Road Maintenance Worker 	<ul style="list-style-type: none"> ▪ Manager ▪ Senior Planner ▪ Eng. Tech (Inspector) ▪ M&O Crew Leader ▪ Sr. Road Maintenance Worker ▪ Heavy Equipment Operator ▪ Road Maintenance Worker 	<ul style="list-style-type: none"> ▪ Manager ▪ Sr. Planner ▪ 2 Eng. Techs (Inspectors) ▪ M&O Crew Leader ▪ Sr. Road Maintenance Worker ▪ Heavy Equipment Operator ▪ 2 Road Maintenance Workers
(2 FTE's)	(2 FTE's)	(2 FTE's)	(5 FTE's)	(7 FTE's)	(9 FTE's)
		<p>NEW STAFFING IN 2015</p> <ul style="list-style-type: none"> ▪ Eng. Tech (Inspector) ▪ M&O Crew Leader ▪ Sr. Road Maintenance Worker ▪ 3 Temp Extra Help (summer) 	<p>NEW STAFFING IN 2016</p> <ul style="list-style-type: none"> ▪ Heavy Equipment Operator ▪ Road Maintenance Worker (reassigned from other crew) ▪ 2 Temp Extra Help (summer) 	<p>NEW STAFFING IN 2017</p> <ul style="list-style-type: none"> ▪ Eng. Tech (Inspector) ▪ Road Maintenance Worker ▪ 2 Temp Extra Help (summer) 	<p>NEW STAFFING IN 2018</p> <ul style="list-style-type: none"> ▪ 3 Temp Extra Help (summer)
		<ul style="list-style-type: none"> ▪ \$75,000 Contract for LID Code Update 	<ul style="list-style-type: none"> ▪ Completed LID Contract December 31, 2016 		

2017 ACTIVITY HIGHLIGHTS

Public Education & Outreach

- Gardening Green: Sustainable Landscaping Series
- Private Stormwater Facility Maintenance Workshop; 4 inspections completed
- Coordinated with BBWARM and Whatcom Conservation District on new *Stormwatchers Program*

Controlling Runoff from Development

- Began implementing Low Impact Development Ordinance (adopted October 2016)

Municipal Operations & Maintenance

- Annual maintenance of publicly-owned treatment and flow control facilities (Capital Projects)
- Completed 675 catch basin inspections; performed maintenance on 435
- Completed 242/368 outfall inspections



2018 PLANNED TASKS HIGHLIGHTS

- Continue Outfall Inventory and Inspection Program

- Expand outreach materials:
 - Capital facility maintenance brochure/fliers
 - Illicit Discharge brochures/fliers
 - Lake Whatcom TMDL

- Continue Sustainable Landscaping: Gardening Green Series

- Continue Private Stormwater Facility Maintenance Inspections

- Identified 10 “small works projects” planned for 2018



2013-2018 PERMIT CYCLE

- Whatcom County is implementing all requirements in the 2013-2018 Permit.

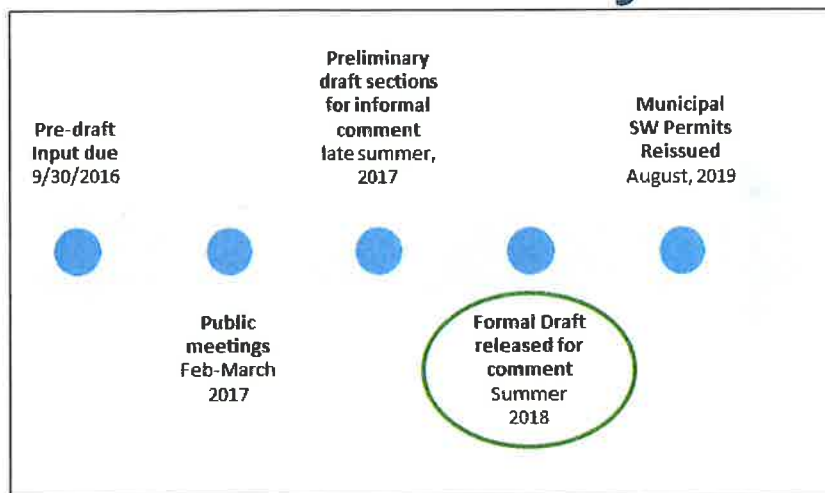
2018-2019 PERMIT CYCLE

- In June 2017, the Department of Ecology announced the **one-year extension** of the 2013-2018 Permit. (No additional requirements added.)

- Timeframe: August 1, 2018-July 31, 2019



2019-2024 Permit Cycle



Topics of Interest for new Permit:

- Additional requirements on addressing stormwater for businesses, commercial developments, and industrial developments.
- Regulatory schedule for street sweeping and culvert cleaning.

Questions or comments?

This presentation and the DRAFT 2018 Stormwater Management Program (SWMP) document are available at: <http://www.whatcomcounty.us/981/National-Pollutant-Discharge-Elimination>

Public Comment on the 2018 SWMP will be accepted until 5:00 p.m. on Tuesday, March 27, 2018

Questions and public comments can be directed to:
Cathy Craver, Senior Planner
ccraver@co.whatcom.wa.us
(360) 778-6299



**SILVER BEACH CREEK
BIOINFILTRATION SWALE**



**AIRPORT WAY/ BENNETT
DRIVE RETENTION/ POND
MAINTENANCE**

