

Shellfish Protection District 2018 Annual Reporting

Reporting Period: July 1, 2017 – June 30, 2018

Date: August 13, 2018

Name of Shellfish Protection District: Portage Bay

Name of County: Whatcom

Primary Point of Contact: Erika Douglas

Number of SPD/Clean Water District Meetings 2017/2018 Meetings: 4 full advisory committee meetings, plus subcommittee meetings for executive, data management and community outreach subcommittees

1. Summary

Please provide a summary of the following:

- Funding sources for Portage Bay SPD include Whatcom County Flood Tax and DOH PIC Grant Funds. State and local partners bring in additional resources that support the efforts of the shellfish recovery plan.
- Whatcom County and the Washington State Departments of Agriculture and Ecology received NEP funds to continue and enhance WCWP efforts. The WCWP process flow chart continues to be adapted to support coordination and integration of programs between agencies as the County's PIC program expands into subwatersheds where some work has already been completed by Ecology. Personnel in some positions have changed.
- Successes-Examples of successes in the Portage Bay Shellfish Protection District include but are not limited to the following actions:
 - Extensive and coordinated monitoring in the Nooksack watershed continues to help focus community outreach efforts, water quality improvement projects, and to track progress.
 - Whatcom County and the Whatcom Conservation District (WCD) are working collaboratively with the North Lynden Watershed Improvement District and City of Lynden to contact landowners about potential bacteria sources in the Fishtrap watershed.
 - The Health Department implemented the OSS O&M program in the Silver Creek/Lower Delta subwatersheds in this period.
 - Ecology, County Planning and the WCD are working with landowners with non-dairy agricultural operations to implement enhanced BMPs to protect water quality.
 - WSDA has completed dairy inspections and worked with operators to identify and fix sources of bacteria.
 - The WCWP data coordinator implements a coordinated water quality database. Water quality data is shared through online maps of preliminary data and water quality summaries posted on the web.

- While several stations are not meeting both parts of the water quality standards for fecal coliform, declining bacteria levels are being observed throughout the Nooksack watershed.
- Transboundary meetings occurred throughout this period and a draft three year work plan has been developed.
- Challenges- Some of the primary challenges that have been identified include:
 - Large geographic area of the Portage Bay Shellfish Protection District.
 - Property access to assist with identifying and fixing problems.
 - Two of the largest watersheds are partially located in Canada. Cross-border effort to address bacteria sources on both sides of the border underway at a state and provincial level.
 - Complicated nature of non-point pollution and identifying sources to improve water quality.

2. Pollution Control Implementation Table

Please fill in the relevant fields below. The orange text is example language. If the SPD information in the fields below is not a part of your pollution identification and correction plan or program please put a N/A. In addition, if you are unable to obtain the SPD information, please describe why in the comment field. There are a few blanks at the bottom of the table to allow you to add any additional tasks that are not represented on this table.

SPD Information	Number	Outcomes	Comments
Miles of shoreline evaluated	N/A	N/A	This is not a component of our current program.
Discharges/streams monitored	71 routine (ambient)	WCPW Nooksack routine- 19 WCPW Fishtrap focus area- 25 DOE-3 (Kamm) WSDA—7 (Bertrand, Fishtrap) Nooksack Indian Tribe-5 (Fishtrap, Bertrand, Tenmile, Forks) Lummi Nation- 2 (Marine Drive, Silver) Tenmile Watershed Group- 10	Twice a month at WCPW Nooksack routine sites, 3 times per month during closure periods Monthly at other routine sites Weekly at Fishtrap Focus Area sites Additional monitoring by: Short-term ambient and source ID sampling by WSDA & DOE Tenmile Watershed Group and WIDs WCD/City of Lynden Stream Team in Fishtrap LEPS- Canada
Sites with elevated bacteria or “hot spots”	11	WCPW Routine- 3 sites exceed both parts of the standard (compared to 8 sites in 2016/2017) Fishtrap Focus Area- 8 sites exceed both parts of the standard (primarily mainstem stations, compare to 11 sites in 2016/2017)	Hot spots identified by WCPW routine sites exceeding both parts of fecal coliform standard. All routine sites in the Nooksack watershed have had lower or equivalent geometric means in the last twelve months in comparison with the last three years. All Nooksack and Fishtrap routine sites have geometric means below 140 FC/100mL continuing to show an improvement.
Parcel/property evaluations	N/A	Completed in response to PIC focus areas, DOE/WSDA landowner contacts, OSS O&M program, ERTS.	See other sections.
OSS in the Shellfish Protection District	14,174		Current MRA
Reports of System Status (OSS)	2,283	O&M evaluations submitted (1 899 ROSS + 384 HROSS)	
O&M warning letters	92	Civil penalty notices- out of compliance with evaluation schedule	
Failed OSS	48	40 OSS replacements	
Low interest OSS repair	22	15 fully funded, 7 partially funded	Craft3

SPD Information	Number	Outcomes	Comments
loans (CRAFT3 or local program)			
Farms with animals in the Shellfish Protection District	~ 900	57 Dairies, (~14 additional in Canada)	Conservation District conducted a windshield survey in 2005, windshield surveys are conducted for each new focus area
Surveillance flights	3	WSDA, ECY	
Farms evaluated	104+ site visits	41 new WCD landowner contacts, multiple continuing technical assistance contacts 35 farm plans completed 34 small farm evaluated for site risk, 12 site visits- ECY 49 dairy inspections (initial and follow up) 2 ERTS response, 39 farm plans monitored countywide- PDS	Identify pollution sources, plan BMPs
Agriculture BMPS installed	33	WCD- 11 confirmed BMPs implemented (access control, fencing, roof water management, nutrient management, pasture and hayland planting, underground outlet) ECY-18 sources of pollution confirmed controlled/eliminated WSDA- 4 dairies implemented changes	In many cases it is difficult to confirm BMPs have been installed or implemented, this is typically accomplished through windshield surveys and is an underestimate
Agriculture warning letters	14	WCPDS- 5 technical assistance, 2 NOVs ECY- 1 warning letter WSDA- 8 (warning letter or NOC)	
Utilized new source tracking technology	Yes	ZAPS units at 2 Nooksack mainstem (Ferndale, Lynden) and 2 Fishtrap Creek	
Incentives/Rebates	81	Septic O&M Rebates	Evaluations, Septic Tank Pumping, Equipment Installation (risers and lids, baffles, filters, etc.)
Penalties	94	WSDA – 2 Notices of Penalty	OSS O&M civil penalties issued after three

SPD Information	Number	Outcomes	Comments
		Health- 92 OSS O&M civil penalties- \$500	notices to complete ROSS
Workshops	9	Small Farm EXPO (booths, presenters) 8 Farm Speaker Series Workshops (countywide)	
Community events	~20	Information booths, interactive activities and watershed model, presentations	Birch Bay Beach Fest, Drayton Harbor Days, Lynden Fair, Run with the Chums, Bay to Baker Symposium, SeaFeast, Drayton Shellebration, Wings over Water, Salish Sea Conference, BTC open house, community groups and events, regional meetings, local schools
Mailers/flyers	686	See completed ROSS above	OSS O&M Notification Letters
	588	PIC letters to landowners in Anderson and Nugent focus areas	PIC intro and 1 st PIC letter to non-dairy agriculture operations
Did you conduct a social marketing survey?	Yes	Septic System survey sent to about 22,000 parcel countywide, approximately 1,000 completed surveys	
Newsletters produced		WCD Annual Newsletter, WCPDS Natural Resources Newsletters, PIC Newsletter to Focus Areas	Include articles about PIC program, agricultural BMPs
Letters of support/recommendations to council/commission	N/A		PIC presentations to Council
Are there storm water activities occurring?	Yes	Street sweeping, catch basin cleaning, water quality monitoring, IDDE, community outreach, stormwater retrofits	Cities of Lynden and Ferndale
Water quality summaries	Yes	Online maps with preliminary data Monthly water quality summaries for routine Nooksack sites and Fishtrap focus area	Links on WCPW website