

**Mason County Northshore Pollution Identification and
Correction Project**
Centennial Clean Water Fund
Grant # G1000122



Small creek along the Northshore of Hood Canal

4th Quarter Report
October 1, 2010 – December 30, 2010
January 13, 2011

Prepared for
Washington State Department of Ecology

Prepared by
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**Mason County Northshore Pollution Identification and Correction
Grant # G1000122
Quarterly Report, October 1, 2010 – December 30, 2010**

Task 1 – Project Administration and Management

Mason County Public Health (MCPH) prepared and submitted 2nd Quarter 2010:

- Quarterly report
- Payment vouchers
- Fiscal forms

Task 2- Shoreline Survey/Water Quality Monitoring

MCPH staff has performed monitoring along approximately 8 miles of the Northshore of Hood Canal and taken an additional 72 samples during 5 monitoring days this quarter. There continues to be noticeably fewer shoreline inputs along the Northshore compared to the West and South Shores.

MCPH had 72 samples analyzed for nutrients in four segments (ff, gg, hh and ii) this past quarter. MCPH has not yet tabulated the nutrient data.

Summary of Northshore Monitoring under this grant

Total Sites	221
Samples (includes multiple collected at one site)	232
Number of samples >200	15
Sites that have been re-sampled	10
Sites that need resample	2
Sites that need a Sanitary Survey	3

Quarterly Summary of Northshore Monitoring by Date

Date	# of FC samples	Elevated (>200) FC Samples (non-repeat)	Repeat FC Samples	Elevated Repeat FC Samples	New Section(s)	Nutrients?
10/4/2010	18	0	6	1	ff & gg	Yes
10/5/2010	17	0	0	0	gg & hh	Yes
10/6/2010	20	3	0	0	hh	Yes
10/20/2010	7	0	3	0	hh	Yes
11/3/2010	10	0	0	0	ii	Yes
Totals:	72	3	9	1	4 Sections	5 days

MCPH is still in a season of minimal shoreline monitoring due to tidal ranges in the winter. Low tides necessary for monitoring still tend to fall in the middle of the evening through this quarter, although they will be getting better by the end of this quarter. MCPH hopes to perform monitoring during ~8 days in the first quarter of 2011.

Task 3- Septic System Surveys

- MCPH spent a lot of time this quarter joining all of the existing databases (Carmody –MCPH OSS data, Assessor’s Parcel Data, Previous Lower Hood Canal Sanitary Surveys data, segment data, etc.). There were some issues with downloading the correct data from Carmody and then some additional issues regarding mis-matched data that resulted in having to re-join the data from the beginning.
- MCPH acquired and joined data for 3607 “developed” parcels (including all data available from those databases listed above), from along the entire Hood Canal Shoreline. MCPH did not break out the Northshore parcels for this part of the analysis.
- MCPH then performed analysis and ranking on all of these parcels to identify those that are most likely to contributing to poor water quality. Most of the ranking criteria received a score between 1-5, however the following categories all received scores of 30-35, because they were sites that MCPH determined posed the greatest risk: Sites where the drainfield is <100’ from surface water, there is a known seepage pit or there had been a unsatisfactory service event from our O&M database.
- The minimum score was 2 and the maximum score was 92. The score of 2 represents a site where everything is known (system age, location, proper O&M and no known issues). Where the score of 92 represents a site with a seepage pit that has had an unsatisfactory O&M service event. The average score is 27. MCPH included 88.6% of all of the Hood Canal records in their selection of sites for sanitary surveys. This includes sites that received a score of 36 or higher. MCPH has identified 200 potential sites for sanitary surveys from the study area of this grant (north and eastern shores of Hood Canal in Mason County).
- MCPH has not performed sanitary surveys at the sites that have been selected due to elevated fecal coliform results. MCPH has identified 3 sites for sanitary surveys based on confirmation sample results. MCPH will perform sanitary surveys at these sites this quarter.
- At the site where MCPH identified an OSS failure from the shoreline (cracked transport line), MCPH has contacted the owner, but has not received a response from them. MCPH will contact this owner again during this quarter.
- MCPH plans to actively pursue sanitary surveys this quarter.

Task 4- Public Outreach

- MCPH finished preparing for the Lower Hood Canal Watershed Coalition Presentation.
- MCPH presented to the Lower Hood Canal Watershed Coalition on 10/4/2010.
- Washington State University-extension and MCPH will be presenting on OSS and current projects in the Hood Canal area at the North Mason Timberland Library in Belfair on February 3, from 6-8pm.