



**Mason County Hood Canal Marine Recovery Area On-site Septic System
Discovery and Pollution Abatement Project
Centennial Clean Water Fund
Grant # G1000278**



Trails End Creek – March 27, 2012 - monitoring event

**1st Quarter Report
January 1, 2012 – March 31, 2012
April 13, 2012**

**Prepared for
Washington State Department of Ecology**

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Quarterly Report, January 1, 2012 – March 31, 2012

Work performed throughout the quarter:

Task 1 – Project Administration and Management

Mason County Public Health (MCPH) prepared and submitted 3rd Quarter 2011:

- Quarterly report
- Payment vouchers
- Fiscal forms

Task 2- O&M Enhancement

- 2419 additional parcel records were pulled and verified this quarter. To date, MCPH has verified, scanned and indexed 6508 existing parcels files within the Hood Canal study area.
- Parcel records associated with 40 new septic permits, 107 record requests and 107 OSS records associated with property reviews for building permits were verified, updated in Carmody and scanned this quarter. To date, MCPH has verified, scanned and indexed 510 new septic system permits, 1705 septic records associated with records requests and 1711 septic records associated with parcel review for building permits.
- Under this grant, MCPH has validated 10,313 on-site septic system records and had them scanned into Land Records.

Task 3- O&M Education

- No additional O&M education was performed this quarter.

Task 4- Water Quality Monitoring

- MCPH continued performing monthly monitoring at the three 303(d) listed streams that did not meet the water quality standard, Big Bend, Deveraux and Trails End. Those streams were monitored in January, February and March.
- MCPH took a total of 12 ambient samples this quarter from the main monitoring locations.
- MCPH reloaded all monitoring results to date, in January 2012. All data entry through December, 2011 was finalized.
- MCPH e-mailed DOE staff, Ken Koch, to determine if additional monitoring should be performed at those streams that MCPH has requested be de-listed, so far DOE has not provided a definitive answer. If DOE cannot provide a definitive answer within this month, MCPH will propose to continue monitoring those streams through the summer to provide additional data for the next freshwater listing call for data.
- The following is a summary of the monitoring results to date for those streams that did not meet the extraordinary water quality standard (not included in this table are the data pertaining to field parameters, flow/loading rates, nutrients and stream segmenting).

303(d) Stream Monitoring Summary

303(d) Stream	Site ID	GEO-MEAN	90th Percentile	# of Samples	# of samples >100 FC	% of Samples >100FC	Meets WQ Standard*	MIN	MAX
Deveraux	DE-01	21	175	20	6	30%	Exceedance	2	900
Trails End	TE-01	19	183	20	5	25%	Exceedance	2	300
Big Bend	I-73	32	134	20	4	20%	Exceedance	8	1600

* Based on the Extraordinary Primary Contact Water Quality Standard which requires that fecal coliform levels cannot exceed a geometric mean value of 50 colonies/100mL, with not more than 10% of all samples exceeding 100 colonies/100mL.

- Monitoring results from all 3 streams have been low this quarter (no samples >50 FC/100mL).
- MCPH will continue to perform monthly monitoring at the three 303(d) listed streams this quarter.

Task 5- Septic System Sanitary Surveys

- MCPH is still working with one owner to abate a failing OSS.
- MCPH has had 2 non-shoreline OSS repairs this quarter within the study area.
- MCPH researched and pulled 32 priority parcel files from those properties that are adjacent to Deveraux, Trails End and Big Bend creeks.
- MCPH performed data entry for existing data on the sanitary survey forms for sites adjacent to the streams.
- MCPH has begun performing sanitary surveys in these areas and plans to focus on that work during the coming quarter.