

Staff Report of Oakland Bay Activities 7/1/08 to 9/30/08

10/15/08
Stephanie Kenny

Funded through Consolidated Contract # C14956

Task 1-Coordination, updates and public education on implementation work

During the third quarter of 2008 MCPH held three Oakland Bay Closure Response Group meetings. Meeting notes and monthly updates on sampling activities were distributed at the meetings. Two monthly updates were emailed to the group. The monthly updates, including maps and sample results have been included in this report.

An updated display was developed for two community events to provide the public with background on pollution problems in Oakland Bay as well as information on how shoreline surveys and other actions will help. The display posters are attached to this report as separate documents due to their size.

Staff attended Mason County Public Works mycoremediation project meetings. Mason County Public Health, Mason County Public Works, Mason County Utilities and the Mason Conservation District are working to make sure all stormwater implementation projects in the area complement each other. Staff is providing some assistance on water quality issues related to stormwater.

Staff and management attended Department of Ecology's Oakland Bay Sediment Study meetings. Staff or management attended Squaxin Island Tribe's Western Estuary project meetings.

Task 2-District Development

The county commissioners formally created the Oakland Bay Clean Water District Board and set up the Oakland Bay Clean Water District Advisory Committee as advisors to the board. Staff worked this quarter filling any remaining vacancies on the board. One vacancy was filled. Jo Henry has agreed to represent the EPA. Three business and one shellfish grower positions remain open.

MCPH attended three education subcommittee meetings and contributed material for an Oakland Bay website. The website is discussed further under task four.

Staff researched funding options for the district. In past quarters we have explored options for creating a non-profit group that can complement governmental clean up activities. This quarter we researched our options for creating or restructure funding sources. We would like to create stable funding for work that is properly within the scope of government. One management level meeting was held.

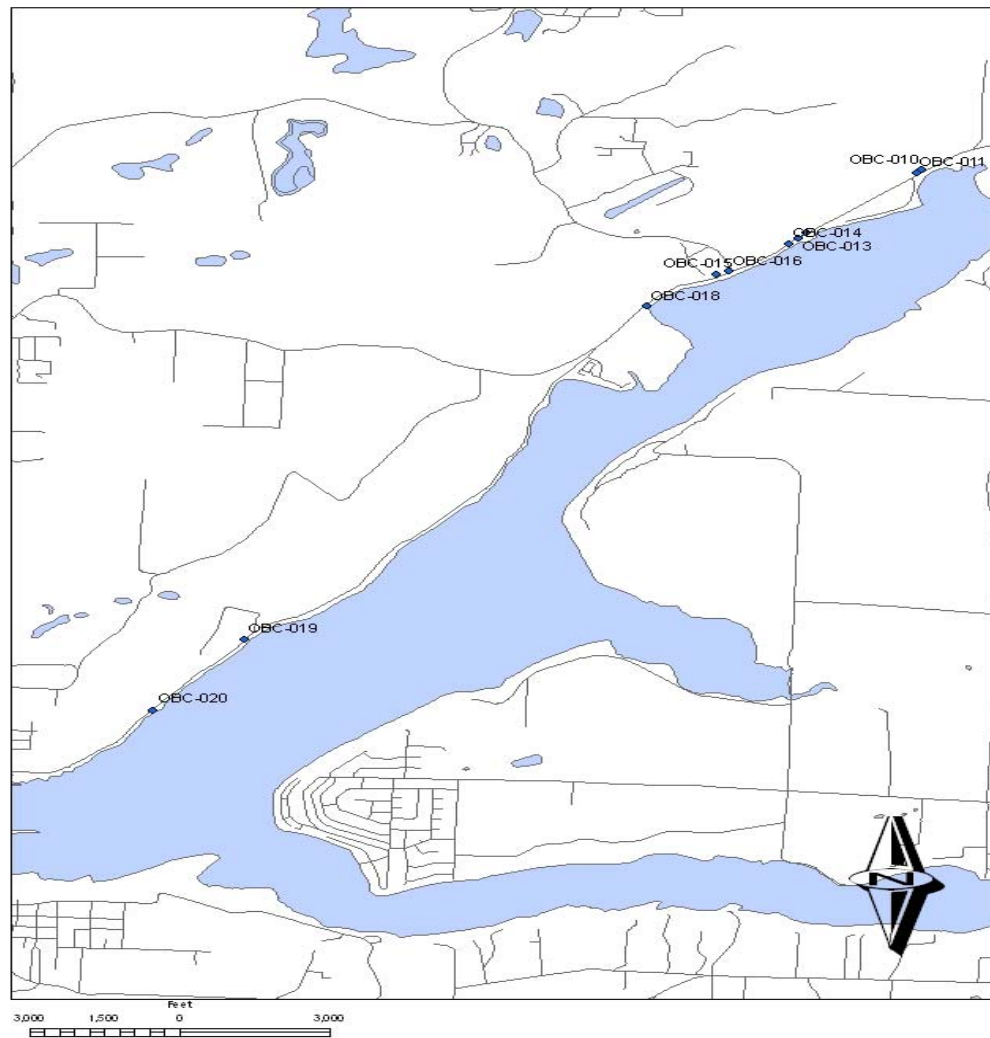
Task 3-Identifying On-site Sewage System Sources

This quarter new staff was added to the water quality program. Christine Clark was trained in shoreline and sanitary survey techniques. In the future she will be primarily responsible for the fieldwork portion of the grant.

Shoreline survey work was started this quarter in the northwest section. This section is mostly along Hwy 3. Potential stormwater and residential sources will be surveyed and sampled in this area. The sample sites are shown in Figure 1.

Additional samples will be collected next quarter and any stormwater problems referred to other departments. On-site issues will be addressed through this grant.

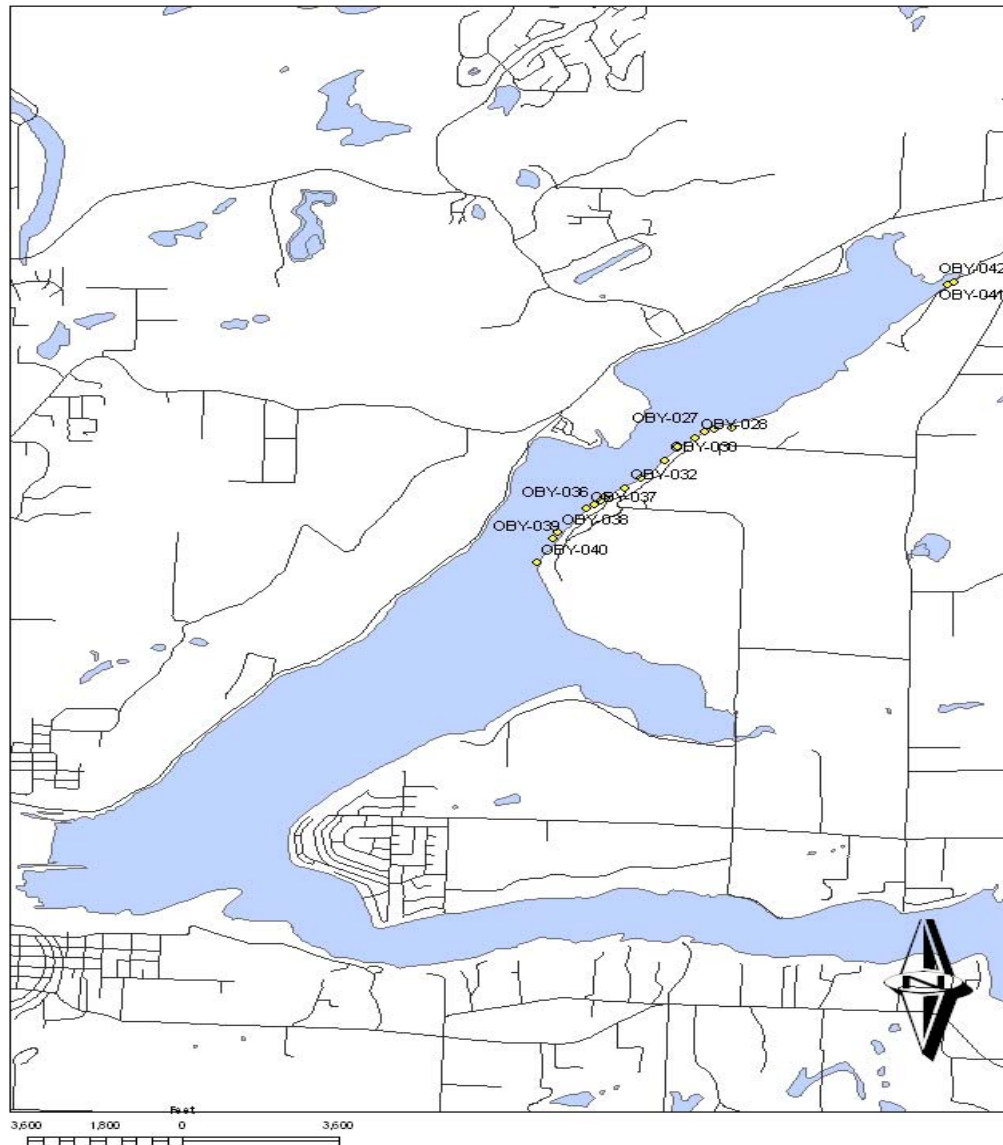
Figure 1 Cobalt Section



Shoreline survey continued this quarter in the northeast section between Gosser Rd. and Beaver Lane. This section was scheduled for survey during the summer because it has a higher number of vacation residences than most other areas of the Oakland Bay Shoreline. Vacation residences are best surveys during the summer because that is when they are most used.

Figure 2 shows sampling locations established in the Gosser/Beaver area during the 3rd quarter.

Figure 2 Yellow Section



The sample results are:

	Geometric Mean	# samples	09/08/08	09/15/08	09/24/08	09/30/08
			calc	calc	calc	calc
OBY-024	101.98	2	80	130		
OBY-025	1.90	1	1.9			
OBY-026	8.00	1	8			
OBY-027	1.90	1	1.9			
OBY-028	1.90	1	1.9			
OBY-029	2.00	1		2		
OBY-030	50.00	1		50		
OBY-031	2.00	1		2		
OBY-032	619.68	2		1600	240	
OBY-033	13.00	1		13		
OBY-034	1.90	1		1.9		
OBY-035	170.00	1		170		
OBY-036	50.00	1			50	
OBY-037	8.00	1			8	
OBY-038	1.90	1			1.9	
OBY-039	110.00	1			110	
OBY-040	2.00	1			2	
OBY-041	11.00	1				11
OBY-042	23.00	1				23
OBY-043	23.00	1				23
OBY-044	13.00	1				13

Staff worked on a mycoremediation project this quarter. Mycoremediation uses mushroom mycelium to reduce fecal coliform in stormwater drainages. This is an experimental technology that Mason County is exploring with the inventor. One site in the Oakland Bay area was identified as good candidates for mycoremediation. Initial results were very promising. This quarter staff resegmented the stream to verify that the remediation feature was located below the polluted area.

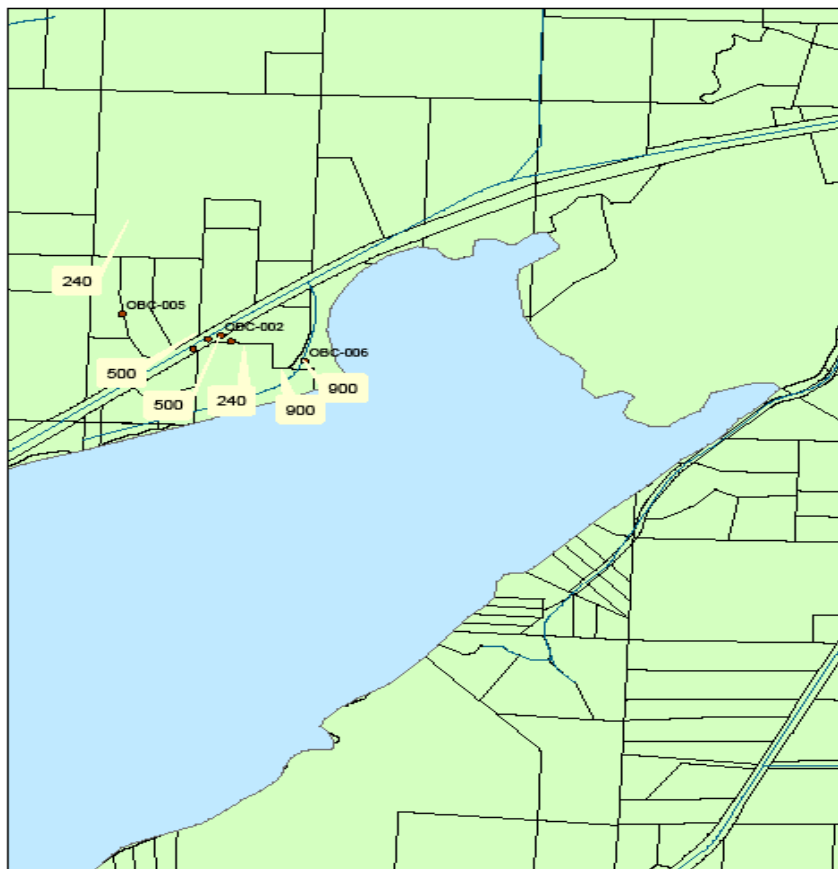


Ecler mycoremediation installation

Ecler results:

	8/12/08	8/26/08
OBC-006- mouth	900	50
Entering lower culvert	900	30
Trib junction	240	No data
OBC-004-below myco	500	170
OBC-008- above myco	500	300
Above ponds	240	130

8/12/08 MCPH samples Ecler Rd.
0.22 " rain in past 5 day



Staff also sampled bacteria levels at the Ecler mycofiltration site after a small storm event

Site	Geometric Mean	# samples	08/20/08	08/20/08	08/20/08	08/20/08	08/20/08
			calc	calc	calc	calc	calc
OBC-004 (below Ecler myco)	116.43	5	110	130	170	80	110
OBC-008 (above Ecler myco)	168.01	5	240	130	300	110	130

The reduction is not as great as the results under baseflow conditions but it is still very promising. We plan to check reductions under wet weather and storm event conditions during the next couple quarters.

The Walker Park area was sampled once this quarter. This area is the focus of an ongoing water quality investigation due to persistent poor water in the creek. The park has been posted for no water contact since last year. Staff segmented the creek once this quarter. One dye trace is scheduled for next quarter.

MC sample results for Walker Park 9/9/08/08
(FC/100mL)



Uncle John Creek was segmented twice this quarter. On site and agricultural pollution sources were found and corrected last year. The sampling this summer was to verify that water quality has improved.

7/9/08 Uncle John Creek



9/4/08 Uncle John Creek



Task 4- WSU Water Quality Education Activities (reported by Emily Sanford)

During the third quarter of 2008 WSU Extension Mason County participated in a variety of tasks related to task 4 "Water Quality Education."

WSU Extension Mason County participated in all monthly Shellfish Closure Response Advisory Committee Meetings scheduled July-September.

In addition to the Shellfish Closure Response Meetings WSU Mason Co Extension facilitated and provided minutes for 3 Education Sub-committee meetings (7/15, 8/18 and 9/16). These meetings focused in on Open House planning for 10/8/08, updates and coordinating on outreach opportunities and educational workshops and the development of new publications surrounding the Oakland Bay Clean Water District Initiative.

The meeting on 9/16/08 discussed and two subsequent meetings (9/22 and 9/23) were held to review the 'requests for proposals' that the Squaxin Island Tribe received from consultants interested in working on a social marketing project with residents of the Clean Water District. A consultant has been selected and negotiations are on going though the project work has not yet begun.

Outreach events include: 2 'Seed Sales'- a booth at the Taylor Seed Sale event which caters to shoreline landowners who are interested in growing shellfish on their waterfront properties (7/19 and 8/30); a 3 day educational booth at the Mason County Fair (7/25-27), and a booth at the Pioneer School District Open House on 9/3.

One On-Site Septic System workshop was held on 9/17 at the Shelton Library in cooperation with Mason Co. Public Health On-sites program and another is planned for the same location on 11/5/08. A water quality focused field day with 4-H campers took place on 8/13/08. In addition, WSU Mason Co. Extension participated in a Natural Resources Teacher Workshop on 7/23 which focused on regional water quality, shellfish, and featured a tour of the Taylor Shellfish FLUPSE on Oakland Bay.

Attendance at other regionally significant meetings to Oakland Bay included the Puget Sound Partnership South Sound Action Agenda workshop held on 7/16 in Grapeview and the South Sound Core Group meeting which immediately followed. Both of these meetings are structured around informing the Puget Sound Partnership's Action Agenda of regionally significant projects and plans underway, identifying gaps and future programming. WSU Extension Mason Co also attended the Ecosystem Coordination Board Meeting in September at the Shelton Yacht Club.

There was media coverage related to the educational workshops held as well a great deal of planning and media coverage is happening currently at the end of this quarter in preparation for a major community meeting planned for 10/8/08 at Pioneer School. The mailer on the next page was developed as part of this effort. All households in the Oakland Bay Clean Water District that have a local address on file at the county assessor's office received a mailer about the event.



Oakland Bay Community Meeting

Please join us...

October 8th, 2008

Oakland Bay Community Meeting

Wednesday, October 8th, 2008

4:00-8:00 P.M. / FREE

Pioneer Primary School Gymnasium
110 E. Spencer Lake Rd, Shelton

Join your neighbors & learn the latest about:

- *Exciting opportunities– including the EPA funded Sa-Heh-Wa-Mish Stewardship Initiative beginning this fall*
- *The WA Dept. of Ecology's Oakland Bay Water Clean Up Plan for Bacteria*
- *The status of shellfish harvesting in Oakland Bay*
- *What has been done to improve water quality*

Refreshments provided!

Registration is not necessary

For more information: Emily Sanford at

elpiper@wsu.edu / (360)427.9670 x 682/ or visit:

www.co.mason.wa.us/oakland_bay/



Mason County
Clean Water District
Oakland Bay



DEPARTMENT OF
ECOLOGY
State of Washington

A Low Impact Development course is planned for 10/27/08 at the Shelton Civic Center.

The Oakland Bay Clean Water District website has been launched and is in active use featuring current events, frequently asked questions, resources, links and more. The website can be found at: http://www.co.mason.wa.us/oakland_bay/. WSU Mason Co. Extension provided content and coordination for this launch and continues to work actively with Mason Co to maintain the site.