

**Hood Canal Regional Pollution Identification and Correction
NEP Phase 2 Grant
Guidance Group Meeting Minutes
June 11, 2015**

Leslie Banigan, Kitsap Public Health (Kitsap Health)
Seth Book, Skokomish Tribe
Mike Dawson, Jefferson Public Health (Jefferson Health)
Joy Garitone, Kitsap Conservation District (Kitsap CD)
Glenn Gately, Jefferson Conservation District (Jefferson CD)
Amy Georgeson, Washington State Department of Health (WSDOH)
Haley Harguth, Hood Canal Coordinating Council (HCCC)
Paul McCollum, Port Gamble S'Klallam Tribe (PGST)
Debbie Riley, Mason County Public Health (Mason Health)
Cindy Waite, Mason Health

Health and Natural Resource sub-group quarterly reports

Leslie reminded the group that these quarterly meetings are an opportunity to document grant progress for semi-annual reports and to document fecal sources corrected for WSDOH. We need a cumulative list of shoreline miles surveyed, hotspots confirmed, hotspots referred by WSDOH, parcels surveyed, failures identified, failures corrected.

Kitsap Health

Leslie reported for Kitsap Health on their work in the Hood Canal shoreline during the past year:

- 2014: Hood Canal 1 and Port Gamble Bay during wet and dry – 21 miles
- 2015: Hood Canal 4 & 5 during wet and dry – 10.5 miles
- 2016: scheduled to do Hood Canal 2 – 14.5 miles
- Five OSS failures identified since June 2014
 - One - vacated in lieu of repair June 2014
 - One - met designer on site May 2015 and awaiting design
 - One - water cut to building October 2014, repair plan approved June 2015
 - One - gravity repair permitted 11-5-14
 - One - minor repair approved 4-10-15.
- One dry weather hotspot confirmed June 2015

Jefferson Health

Mike reported for Jefferson Health. Jefferson has conducted 12.25 miles of shoreline survey over 16 days and collected 102 samples at 73 sites.

- They conducted 32 parcel inspections and identified six OSS failures: one in Port Ludlow, four in Brinnon, and one in Port Hadlock.
 - One - RV that has been vacated,
 - one - greywater discharge that the homeowner has corrected

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- four - in the correction process.
- They have two confirmed hotspots under investigation: Irondale Creek and Little Goose Creek in Oak Bay
- They will be working on Pleasant Harbor and Hood Head later in the summer to evaluate seasonal cabins. They need boat access to Pleasant Harbor as their boat is not currently in service.
- Longtime employee Dana Fickheisen retired and they have a water quality intern for the summer.

Mason Health

Cindy reported for Mason Health.

- Under other funding:
 - , they are kicking off a septic maintenance “blitz”. Signs and banners are scheduled to be installed June 15, 2015. Banners will be posted in Shelton, Hoodspport, Cushman, Blue Heron Bridge, and Belfair. The Pioneer School reader board will have a related notice.
 - They recently sent out 21,000 “All Septic Systems Require Maintenance: Is Your Septic System Due?” notices through every door direct mail.
 - Radio ads start June 16, 2015
 - They sent 620 reminders for OSS without service since 2004 and their phones have been very busy with responses. This also helps identify and correct database errors – 100 of the notices were sent regarding vacant lots
 - They have completed their rebate program.
 - They have been working on a Norovirus outbreak in the Hamma Hamma River and are in the process of conducting dye testing in consultation with Tom Aley of Ozark Underground Laboratory.
 - Mason Health had a booth at the Taylor oyster seed sale with OSS maintenance banners. WSU-Extension was there also.
- For HCRPIC:
 - Mason conducted one mile of shoreline survey in Hoodspport twice during the wet season. They entered the stations and data into Kitsap Health’s cloud database. They identified one “hotspot” and are investigating that and four WSDOH referrals. They have closed one referral investigation.
 - They have sampled Finch Creek in Hoodspport monthly since August 2014.
 - They are working with the new owner of Robin Hood Village. The mobile home park is served by two OSS and the new owner has figured out the connections.
 - They are working with B-line septic on the Blue Heron Resort in Union. The pump tanks are connected at the bottom. They found big rocks in the pump tanks and are working to engineer the creek above.
 - They found two potential problem areas in Potlatch. One is a potential squatter with an ATU surfacing in the driveway. They think the owner lives on Alpine Way. The other is on Highway 101 nearby. The parcel had a previous bulkhead failure and now has a new owner.

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Port Gamble S'Klallam Tribe

Paul reported that the Port Gamble S'Klallam Tribe (PGST) continues to explore better ways of conducting PIC work.

- They tested their Hach autosampler and incorporated a double-blind study. The sampler was tested on the one shoreline "hotspot" confirmed from the PGST shoreline survey. It showed a significant bacterial spike in the sample collected at 6.55 pm. before .06 inches of rainfall was recorded between 7 and 8 pm. The dye test of the property came up negative.

It will be important to provide security when the auto-sampler is deployed.

The team suggested that the auto-sampler be used in Big Bend to conduct a diurnal study of the Blue Heron drainage in coordination with the timing of the sewage pumps.

- They have been researching holding temperatures for water samples. Our QAPP officer changed the holding temperature from 10 degrees to 4 degrees C
- They plan to test their Turner Designs Cyclops 7 optical brightener and tryptophan probes in the laboratory.

Optical brighteners are present in detergent whitener (instead of bluing agents), paper brightening (internal or in a coating), fiber whitening (internal, added to polymer melts), textile whitening (external, added to fabric finishes), and color-correcting or brightening additive in advanced cosmetic formulas (shampoos, conditioners, eye makeup).

Tryptophan is an amino acid, one of the building blocks of life. All natural water bodies contain tryptophan at some level but natural levels will be far exceeded in the case of problematic contamination. Coliform bacteria, such as Escherichia coli (E. coli) synthesize high levels of tryptophan within their cells, making tryptophan a useful biomarker of fecal contamination in a water system. L-tryptophan is used for insomnia, sleep apnea, depression, anxiety, facial pain, a severe form of premenstrual syndrome called premenstrual dysphoric disorder (PMDD), smoking cessation, grinding teeth during sleep (bruxism), attention deficit-hyperactivity disorder (ADHD), Tourette's syndrome, and to improve athletic performance.

Jefferson Conservation District

Glen Gately reported on their recently completed Chimacum project. You can find this report at http://www.jeffersoncd.org/wp-content/uploads/2015/05/Chimacum-Report-with-appendices_4-24-15.pdf

Glen noted that they have found highest fecal bacterial counts in the dry season. A study of Surprise Lake stream in Grand Teton National Park found higher counts in the summer. They noticed that algae bloomed on rocks at the same time and suggested symbiosis with bacteria growing on algae.

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Amy reported that she has completed her shoreline work and is wrapping up the internal draft and plans to distribute the draft next week.

Skokomish Tribe

Seth reported for the Skokomish tribe. They have some extra sample capacity and have been conducting some monitoring in the Skokomish river valley and in Finch Creek (Hoodsport)

The tribe is in the process of installing core sewer lines with the long-term plan of connecting all of the reservation to the membrane filter sewer system. They have had some Glendon failures repaired.

The tribe has stepped away from involvement in Minerva Beach sewage disposal due to legal issues. Minerva is discharging to the old drainfield at Potlatch State Park and are installing a new sewage system on a state park easement. The tribe only observed water in the draw leaving the area during very heavy rain.

Kitsap Conservation District

Joy encouraged the group to work with conservation districts on green stormwater solutions and pet waste problems, in addition to livestock and agricultural waste problems. Leslie will contact Joy regarding a pet waste problem in Vineland Creek.

HCRPIC Status Update

Water Quality Database

Mike, Amy, and Seth requested database training. Leslie will coordinate.

Retaining Parcel Survey and Chain of Custody forms

Grant partners are responsible for retaining all parcel survey forms and sample chain of custody forms. Leslie will send out an updated survey form.

In late 2016, we will need a list of all parcels surveyed with rating, failures found and type of repair and date of repair for the mapping project.

Nutrient Study Status

Leslie updated the group on the pilot nutrient study status. HCRPIC is working with Andy James of University of Washington to design nutrient studies that further knowledge about bacterial and nutrient sources to Hood Canal. The contract is in progress.

The team formed a nutrient work group with Leslie, Amy, Paul, Seth, Glenn and Mike. Haley will send out a doodle poll to set up an initial meeting with Andy James. The challenge is to build useful nutrient studies within the small budget (\$30,000 total for study design and for Mason and Jefferson to conduct the studies).

There was discussion about before and after correction studies. It will be important to conduct enough pre-BMP bracketed sampling and post-BMP bracketed sampling to produce useful data

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for this project. Our HCRPIC work is more likely to obtain future funding if we show significant results. Conducting only pre-BMP sampling for this project without post-BMP sampling will produce only a baseline for one or possibly two sites without any guarantee the data will be useful in the future.

We will likely need to submit a QAPP addendum for a before and after BMP study. We can base it on Mason County's approved QAPP for the University of Washington laboratory.

Education and Outreach - Social Marketing

Bob Simmons reported on the Puget Sound Partnership-funded social marketing project in Hoodsport, Burley Lagoon, Rocky Bay, and Vaughn Bay. Washington State University Extension are working in partnership with Washington Conservation Commission through May 2015 to conduct marketing research with residential and livestock owners in Burley Lagoon, Minter Bay, Rocky Bay, and Vaughn Bay. They conducted outreach in Hoodsport and also in Burley Lagoon, Rocky Bay, and Vaughn Bay based on their research. Their final report will contain research, results, conclusions, and recommendations.

WSU Extension proposes to work with HCRPIC, HCWEN and other Hood Canal organizations to develop and implement an education and outreach strategy targeting Hood Canal residents. The project will include strategy development and prioritized implementation and evaluation.

Septic Tank Inspection/Pump Vouchers

The Skokomish Tribe proposed using the \$10,000 Skokomish implementation budget to offer vouchers to inspect/pump septic tanks and to install risers.

The group decided to start the voucher program in the Hoodsport waterfront for up to \$250 for septic tank inspection, operation and maintenance, and tank pumping. Criteria will be those properties within 100 feet of the shoreline, those systems with no records and/or no maintenance. Up to 10% of the voucher can be billed for administration.

Haley will check with HCCC to find out how this rebate process might work.

A secondary voucher focus area will be Big Bend Creek. Those vouchers will be offered when enhanced PIC work is conducted there.

Administration

Leslie would like to be able to report HCRPIC implementation cumulative numbers by season (shoreline miles, confirmed hotspots, referred hotspots, parcel surveys, sewage sources identified, and sewage sources corrected) and also report the number of surveys and sewage sources by hotspot.

Haley will send out a doodle poll for a September Guidance Group meeting.

Next Steps

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Mike and Cindy:

- Report wet season shoreline work (through April 30, 2015): shoreline miles, # hotspots confirmed, # hotspots referred by WSDOH, # surveys conducted, # sewage sources identified, # sewage sources corrected.
- Report dry season shoreline work (May 1 through June 11, 2015): shoreline miles, # hotspots confirmed, # hotspots referred by WSDOH, # surveys conducted, # sewage sources identified, # sewage sources corrected

Leslie:

- Coordinate database training for Mike, Amy, and Seth
Distribute updated survey form.

Haley:

- Send out a doodle poll to set up an initial nutrient sub-group meeting
- Check with HCCC to figure out how the rebate process might work
- Send out a doodle poll for a September Guidance Group meeting.