



In the Flow

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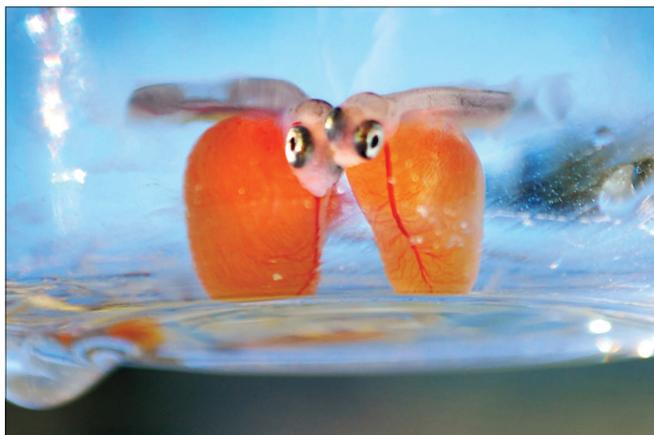
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BABY CHUMS



Baby Chums in Jimmy-Come-Lately Creek, photographed by Mike Hovis

NEW TEAM LEADERS TAKE THE REINS

Thanks to those who've taken on new leadership duties :

** West End: Bob Johnston- Coordinator

** Barnes Creek: Keith Peters- Leader

** Salt Creek: Coleman Byrnes & Sue Nattinger-
Temporary Leaders

** Tumwater/Valley Creeks: Dan Lieberman & NOP
Skills Center students- Leaders

** Ennis/Morse Creeks: Valli Sanstrom- Leader

Much gratitude to outgoing team leaders, Steve and Sandy Bengston, Marilyn Harbaugh, Bob Shaffer, and Adar Feller.



* Find Plans & Reports
on last pages of newsletter

STREAMKEEPER MONITORING TEAMS

TEAM	PERSON	ROLL	COMMENTS
Sequim	Steve Rankin, Lori DeLorm	Field Leaders	Need Coordinator *
McDonald	Janet Oja, Janet Bruening	Field Leaders	Need Coordinator *
Bagley/Siebert	Sue Nattinger, Lila Petroff	Leaders	
Ennis/Morse	Valli Sanstrom	Leader	
Lees/Peabody	Ron Sidwell	Leader	
Tumwater/Valley	Dan Lieberman	Leader	
Salt	Coleman Byrnes, Sue Nattinger	Leaders-temp.*	Need permanent leader *
Barnes	Keith Peters	Leader	
West End	Bob Johnston	Coordinator	Need regular field leader *

* Please consider volunteering for one of these very important positions

Job description for TEAM COORDINATOR (which doesn't mean that you have to be a field leader):

1. Keep in touch with all team members, to notify them of upcoming activities and solicit their availability.
2. Communicate with team members and Streamkeepers staff to schedule team activities and reserve equipment.
3. Ensure that field kits and data sheets are returned to the Streamkeepers office in good time and good condition.
4. Act as a liaison to the Streamkeepers office for your stream team.
5. Welcome and orient new team members to the team.

Outside Money Helps Streamkeepers

SK Awarded \$5K to Help Assess WRIA 19 Stormwater

The Olympic Forest Coalition has received \$5000 in grant money to assess stormwater turbidity and suspended sediment impacts in the Western Straits area west of the Elwha, and they've passed that money over to Streamkeepers to oversee the project, under the direction of Streamkeeper, Coleman Byrnes and in collaboration with the Makah Tribe. The money will reimburse volunteer mileage and Ed Chadd's technical-assistance time.

SK Will Get \$11K to Help on King County Bioassessment Grant

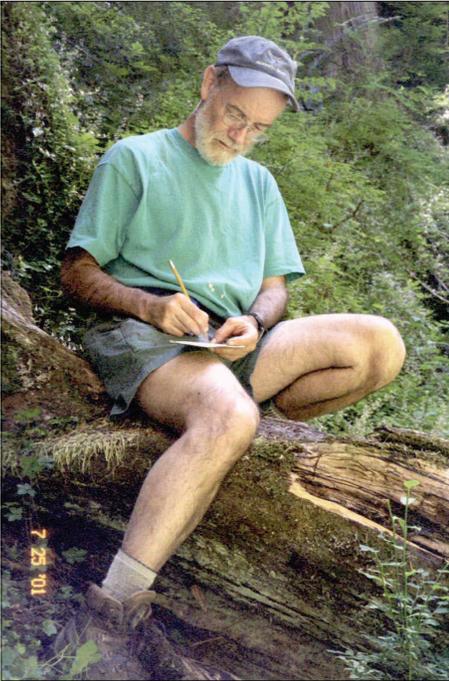
King County has received a grant from EPA to develop a macroinvertebrate-based bioassessment tool and reporting system for the Puget Sound region. This tool will improve on the B-IBI that Streamkeepers and many other entities in the Puget Sound region currently use, and through coordination with the State Dept. of Ecology, will provide a more effective and universally-accepted way to document the health of our stream ecosystems. Streamkeepers will receive \$11K over a three-year period to provide data and serve in an advisory capacity.

Expanded Partnership with City of Port Angeles

Due to past Streamkeeper data findings showing unacceptable levels of fecal coliform in Port Angeles streams and runoff, the City of Port Angeles has asked Streamkeepers to expand the monitoring we perform on their behalf. We'll be adding some sites, including Hollywood Beach and the mouth of Peabody Creek, and also increasing sampling frequency at many of the sites from quarterly to monthly. So far, six volunteers, led by Adar Feller and Sue Nattinger, have agreed to help with this sampling. Let us know if you'd like to join them!

Remembering Bob Boardman

By Ed Chadd



**Bob Boardman, in the field,
recording data for Streamkeepers**

Most of you have probably heard about my amazing brother-in-law, Bob Boardman, who was killed by an aggressive mountain goat in Olympic National Park in October. Media stories and websites such as <http://bobboardman.wordpress.com> have chronicled Bob's multi-faceted, passionate, joyous, caring life, but it's a little-known fact that along with everything else he was involved in, Bob was a Streamkeeper too. In 2002, he and my sister Susan dutifully performed twice-monthly flow monitoring on the Little River near their house as part of the WRIA 18 watershed-planning process. Late that year, Bob came back from a trip to the field reporting that, "By God, we've been rendered obsolete, replaced by R2D2!" The Dept. of Ecology had installed a flow-gage station. If there was something cool and worthwhile going on, Bob often found himself part of it, and everything he did, he did with a unique mix of conscientious loyalty and offbeat humor. Bob, you'll never know how much you're missed.



"R2D2" surveys the Little River

Cecil Carson Remembered

Cecil Carson passed away on Dec. 24. Cecil and his wife Emilie found themselves thrust into team leadership on Cassalery Creek immediately upon finishing training in 2001 and continuing through 2003. Cecil always had a ready smile and a good word for everyone, even when wading through mud, wending through blackberry thorns, wrestling with arcane protocols, or dealing with health problems that ultimately led him to step down. His beaming visage and mellifluous voice will long be remembered in these parts.

From Leo Sprinzen to Fellow Streamkeepers

There was a moment during one of the bug collecting sessions when we worked in tandem, each person always aware of the others' presence and finding things to do without a real leader being established. I felt connected to the people and environment around me. I felt in flow.

I have learned much about streams and the woods over the past few months. I worked with at least thirty volunteers, and explored almost every stream on the Streamkeeper list (and a few that weren't). Besides streamkeeping, I have painted, hiked, biked, taught, cooked, read, butchered, explored, and studied with you. Thank you for your time, your words, and your spirit. You have left me with great memories.

A Farewell from Peter Gregory to the Streamkeepers Crew

I am really proud to have been a member of Streamkeepers and really admire all that you do. What an amazing congregation of people! Each and every one of you are a true hero to not only Clallam county, but the entire Olympic Peninsula and ultimately the whole Pacific North West! Never before have I met such a collective of people with so much talent and skill. You are all an inspiration and I look forward to rejoining the ranks one day. With that I will sign off for now. Please keep in contact and I will do the same. Take care and may you always have good sampling weather. *(In his short time with us as leader of the Ennis/Morse Creek team and co-leader of the Elwha Side-by-Side team, Peter had a big impact, never turning down an opportunity and never having a bad word for anyone. He leaves big shoes to fill.)*

STREAMFEST



Chris Langley using EnviroScape model to demonstrate effect of rain.



NOLT Streamfest 2010, a celebration of local land, wildlife, and food, was held on August 29 on the Ennis Arbor Farm in Port Angeles. Streamfest is sponsored by the North Olympic Land Trust which works to preserve natural landscapes in Clallam County. Streamkeepers was one of over twenty organizations that had information booths to help spread awareness of all the work that is being done locally to help sustain our natural habitats and waterways. Our booth was coordinated by Valli Sanstrom, with help from Leo Sprinzen and Chris Langley. Along with posters and brochures explaining our mission and work, we had an "enviroscape" - a plastic model of a sample environment with bits of litter, sprinkles (representing cow poop), and powder (fertilizer). After it rains (spray bottles), it is clear to see that all the pollutants eventually end up in the ocean. Other activities included stream walks (led by Coleman Byrnes among others), the Procession of the Species parade and song, led by Dan Lieberman, birdwatching, a geology walk, and live music from the Washington Old Time Fiddlers (including John and Donna Spence).

Dungeness River Festival

The Dungeness River Festival was held on Friday to Sunday, September 24-26, at the Dungeness River Audubon Center in Sequim to celebrate local ecological education and remember our cultural heritage. Streamkeepers was one of about 25 nature exhibits that presented material about the role of rivers and water in our lives. Capitalizing on bug collecting season, we showed participants critters from the Dungeness River (picked fresh daily!) and talked about how we can determine water quality from the strength of our bug sample.

For those who are unsure of why this is, consider that bugs stay close to their home, are abundant, and are easy to catch - their populations and diversity are closely correlated to the river's health, especially that of salmon which sit above insects on the food chain. Staffed by Tara Morrow, Leo Sprinzen, Zach Hovis, and Coleman Byrnes, we received about 1100 visitors on Friday alone when the Sequim elementary schools attended the festival. Other activities over the weekend included nature and stream walks, bird identification, drumming circles, and a traditional welcome ceremony with Jamestown S'Klallam members.



Leo Sprinzen and **Zach Hovis**, helping with macroinvertebrate (a.k.a. BUG) identification.



END OF YEAR STREAMKEEPER MEETING/CELEBRATION



Notes from the meeting and other topics of interest:

Protocol revisions: all instruments now get in-field drift checks at each site; establishes the quality of the data

Database revamping is almost complete; will incorporate data and will accept a greater variety of data

Stormwater Project is still underway; will be complete by mid 2011

Other special projects- see attached Work Plan

Evaluating the value of SK data—are we gathering the right data the right way? [Steve Obrebski](#) is leading a committee studying this question and analyzing whether long-term trends can be ascertained from our data

2011 Work Plan— attached

2011 Water-Quality & Fecal Sampling Plans— attached

We had two excellent presentations:

Presentation by Gino Lucchetti

Gino Lucchetti, scientist with the King County Land and Water Resources Division, gave a presentation on an EPA grant-funded project to assess the effectiveness of King County's Critical Areas Ordinance, in order to adaptively manage those regulations. This project intends to close the gap between data-gathering and land-use decision-making. His highly-informative slide show is available [here](#).

<http://green.kingcounty.gov/WLR/Science/Seminar/pdfs/PDF137.pdf>.

Presentation by Betsy Wharton

Betsy Wharton, co-producer of the highly-acclaimed "Voices of the Straits" video, came to show the video along with Joanne Huemoeller, coordinator of the Puget Sound Partnership's Education, Communication & Outreach Network, and Bob Campbell, director of the Feiro Marine Life Center. The basic idea of the video is to talk to longtime Peninsula residents about their recollections of the abundance of resources that Puget Sound used to produce, to give us all a sense of the "baseline" against which we can measure our progress in protecting and restoring the Sound's ecosystem. The video, which will be slightly revised soon, can be viewed at the Feiro Marine Life Center's website: <http://www.feiomarinelifecenter.org/videoproject.htm>. Other local environmental videos, including "Voices of the Strait, the Scuba View," can be seen at <http://vimeo.com/channels/salishseavideos>. Video will also be presented soon at Peninsula College- see next pg.

SK Education/Outreach Team is Looking to "Hook" Volunteers to Staff Booth

The Greywolf Anglers Fly-fishing Show is planned this spring at the Sequim Boys & Girls Club. Volunteers are needed; contact us if you're interested. The booth would be open Saturday, April 9th, from 11-6 and on Sunday, April 10th, from 10-3.

PENINSULA COLLEGE'S STUDIUM GENERALE ...

...is an award winning series, celebrating its 38th year of providing the college and community with a variety of informative programs in the humanities, social sciences and sciences. Programs are held in the Little Theater (J-16) on the main campus each Thurs. from 12:30 to 1:25 p.m. Programs are open to the public at no charge.

"VOICES OF THE STRAIT"

A Documentary Film and Oral History on the Strait of Juan de Fuca (Sponsored by the Puget Sound Partnership through EcoNet in cooperation with Feiro Marine Lab.) Introduction by Betsy Wharton, followed by a panel discussion by local educators.

Thursday, Jan. 27, 2011

"ADVENTURES IN FOREST ECOLOGY"

With Peninsula College Economics Professor, Daniel Underwood

Thursday, February 17, 2011

ELWHA RIVER RESTORATION PROJECT "VISUALIZED"

From the National Park Service website:

Elwha River Restoration will restore the river to its natural free-flowing state, allowing all five species of Pacific salmon and other anadromous fish to once again reach habitat and spawning grounds.

The Elwha watershed is the largest in Olympic National Park; restoration of salmon to more than 70 miles of river and tributaries will return vital nutrients to the watershed and restore the entire ecosystem. For the Lower Elwha Klallam Tribe, this project will bring cultural, spiritual and economic healing as salmon return after a century's absence and flooded sacred sites are restored.

Learn more about Elwha Fisheries, Water Treatment, Dam Removal, Restoration Plans, and Research on the website: [National Park Service Elwha River Restoration Web Site](http://www.nps.gov/elwha/)
Visualization model of Glines Canyon Dam removal:

<http://interactive-earth.com/resources/science-visualizations/7-glines-canyon-dam-removal-process.html>

Visualization model of Elwha Dam removal:

<http://interactive-earth.com/resources/science-visualizations/8-elwha-dam-removal-process.html>



Elwha Dam and Lake Aldwell

THANKS TO OUR INTREPID BULL TROUT SURVEYORS

Another season of Bull Trout surveying for Olympic National Forest has ended, and a record number of volunteers—12—participated. Seventeen surveys were conducted when weather and water levels permitted, and seven spawning sites of this endangered species were detected. Surveys will be conducted next year and volunteers will be needed. If you like forested wilderness and wild rivers, you should give it a try. Thanks go to [Tracey Martin](#), [Leo Sprinzen](#), [Sue Nattinger](#), [Anna Ritchie](#), [Mike Craig](#), [Jim McCullough](#), [Tina Vogel](#), [Marcos Grimsditch](#), [Dave Christian](#), [Dave Schreffler](#), [Peter Jepsen](#), and [Karen Westwood](#).

~~Written by Coleman Byrnes, project coordinator



MIKE HOVIS PHOTO

Birds on the Olympic Peninsula

Interested in Learning more about birds of the Olympic Peninsula?

Classes, discussions, field trips beginning soon:

"Winter Birds of the North Olympic Peninsula"

"Corvids in Winter"

"Owl Prowl in the Olympics"

"Great Backyard Bird Count"

Contact Olympic Peninsula Audubon Society (OPAS) at: www.olybird.org

Or view their newsletter for information at:

http://www.olympicpeninsulaaudubon.org/pdf/HH_Jan-Feb_2011.pdf



January is Winter Quarterly Monitoring Month!
Time for extra layers, waders, rain gear, gloves, hats!
Safety first– take care of each other out there and stay warm.



SK Work Leverages \$15K for NOLT on West End

Streamkeepers' work on Elk Creek near Forks will provide match for approximately \$15,000 in grant money being received by the North Olympic Land Trust (NOLT), new owners of a 255-acre tract of forest land originally purchased for conservation purposes in 2004 under a state grant spearheaded by Streamkeeper, **Becky Dickson**, partnering with the **Wild Salmon Center**. The current grant will help NOLT better manage the property, including blocking ATV access and restoring damaged areas, replacing noxious weeds with native plants, improving the trail, installing interpretive signs, and developing education programs for students. NOLT will be hiring an Americorps volunteer to lead these activities in 2011, and they'll be hoping to engage Streamkeeper volunteers in helping to care for this beautiful property.

BUG SORTERS NEEDED

Our bug-sorting team is about to embark on its second year of sorting bugs from detritus to speed up Art Frost's taxonomic work. In general, they meet every Monday morning at the Feiro Marine Life Center on the Port Angeles City Pier. This Monday's kickoff meeting will be at 10:00.

The job requires looking through a microscope and picking out small things with forceps. Detail-orientation, fine motor skills, and patience required, but those on the team claim to love it!

If interested, you can just show up there or contact [Coleman Byrnes](mailto:Coleman.Byrnes@olympen.com) at 928-1032 or swampdog@olympen.com

If you join the team, let the Streamkeeper's office know so you can be added to the database.

ARE YOU INTERESTED IN FOLLOWING LEGISLATIVE ISSUES AND REPORTING BACK TO STREAMKEEPERS?

You can help Streamkeepers keep better tabs on upcoming legislation & regulations that may have an impact on the work we do. Some examples would be:

- Dept. of Ecology's review of its Water Quality Standards and listings policies
- New Dept. of Ecology guidance document about macroinvertebrate monitoring
- King County's effort to re-calibrate a macroinvertebrate multi-metric index
- Upcoming regulations having to do with stormwater monitoring in the Puget Sound region
- New guidance about monitoring from the Puget Sound Partnership and the State Salmon Recovery Funding Board
- Implications about monitoring in the Watershed Plans for WRIA 18, 19, and 20

The primary functions of this committee would be to review & research such developments.

W.S.U. BEACH WATCHERS ANNOUNCE TRAINING DATES FOR CLALLAM COUNTY

(From David Freed, program coordinator to Natural Resource Colleagues & Friends)

The training for new volunteers will be held on Tuesdays and Thursdays from April 19th to May 26th, 9:00 AM to 4:00 PM. Classes will be held in Port Angeles.

Classes will cover a broad range of subjects from marine mammals, harmful algal blooms and zooplankton to stormwater runoff pollution and marine shoreline gardening techniques.

There will also be many field trips to interesting and little-known beaches, estuaries, and other sites. Previous field trips have included Slip Point, Cannonball Beach, Salt Creek Recreation Area, and Dungeness Spit.

W.S.U. Beach Watchers are volunteer marine stewardship educators. Volunteers participate in a range of projects from water quality sampling and seabird monitoring to festivals, workshops, and tide pool talks.

Limited space is available for this training. Applications are now being accepted. Registration will remain open until the remaining slots are filled.

There is a \$30 fee to cover facility rental & class materials. Program information and an application packet are available online at <http://www.beachwatchers.wsu.edu/clallam/>

For more information, contact David Freed, program coordinator, at (360) 565-2619, or dfreed@wsu.edu (Also contact if you have any ideas for how our organizations could work together to benefit the nearshore areas of Clallam County)