



# In the Flow

MAY 2010

Produced with Volunteer Help

Issue 59

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360-417-2281

## In This Issue

2010 Volunteer Training News  
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 Steelhead Spawning Surveys  
 Bull Trout Survey Project  
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 JiJi Grant  
 "BUGS" a.k.a. Macroinvertebrates

### Attachments:

"Dealing with the Downturn"  
 2010 Work Plan & Sampling Plan  
 2010 Water Quality & Fecal Sites



## Volunteer Training Begins in June

### Many Ways to Help!

- Stream Quarterly Monitoring:** Measures physical, chemical, and biological indicators
- Data-Entry:** Enters, checks, troubleshoots, and analyzes data
- Education/Outreach:** Teaches about Streamkeepers and watershed stewardship
- Research Team:** Assesses, analyzes, and interprets data for decision-makers and the general public, & publishes papers
- Grab Sampling:** Collects quarterly water samples for fecal coliform testing
- Redd Counting:** Walks streams and counts fish nests during spawning season
- Bug Sorting:** Sorts bugs from Benthic Macroinvertebrate collection

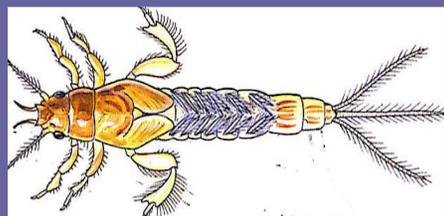
**READERS: TO WHOM COULD YOU RECOMMEND THIS TRAINING?**

### STREAMKEEPERS 2010 VOLUNTEER TRAINING SCHEDULE

DAY/DATE	TIME	SUBJECT	PLACE
Tues., June 15	6-9:00 pm	Streamkeepers Intro and Introduction to Teams	EOC Courthouse Basement *
Tues., June 22	6-9:00 pm	Streamkeepers In Depth Intro to Clallam Streams	EOC Courthouse Basement *
Tues., June 29	6-9:00 pm	Quality Assurance and Noxious Weeds	EOC Courthouse Basement *
Sat., July TBA	9 am – 4 pm	Field Training	To Be Announced
Sat., July TBA	9 am – 4 pm	Field Training	To Be Announced

\* Enter basement via outside stairs on east end of Courthouse. Call Streamkeepers at 360-417-2281 to sign up.

### CAN YOU NAME THIS BUG?



Macroinvertebrate #1

This macroinvertebrate is found in the waters of the Olympic Peninsula. Search for other "bugs" throughout this issue.

(Answers on last page)

### WANT TO GO PAPERLESS?

If we're mailing you a copy of "In The Flow" and you want to go paperless, please let us know. You may download a copy from the Clallam County Streamkeepers' website. Call us now: 417-2281

### CLEAN WATER DISTRICT PROJECT

Streamkeepers has been monitoring water quality and grabbing water samples for fecal coliform testing in the Sequim area since our inception, and our data has helped document water quality problems there. At the same time, shellfish problems in Dungeness and Sequim Bays, and "Impaired" listings under the Clean Water Act for Dungeness Bay and the lower Dungeness watershed have caused a greater focus on these waters by local, state, and federal actors. Clallam County created the Clean Water District in the eastern part of the County in order to address these problems, and monitored these waters in conjunction with the Jamestown S'Klallam Tribe and other entities under a grant. When the grant ended last year, the County and Tribe came to Streamkeepers to ask us to take up the slack, and we've now committed to sampling 13 sites in the Sequim area simultaneously for water quality, flow, and fecal coliform—a whole new challenge involving new equipment and multiple teams and requiring ballet-like logistical precision. Lots of help needed; let us know if you'd like to join this effort.

### STORMWATER PROJECT UPDATE

We are well into our second year of sampling Sequim-area stormwater under the County's 3-year EPA grant. This year we are concentrating on the following "receiving waters": Dungeness, Matriotti, McDonald, and Bell, and focusing on two different kinds of extreme storm: those with extremely high flows, and those with extremely long preceding dry periods. We also plan to target storms during the time when coho migrate upriver in the fall, because some storm events in the Seattle area have caused massive die-offs of these spawners. We've borrowed auto-sampling devices (sophisticated wet-vacs) from the Dept. of Ecology, which make sampling both easier and more complex. As always, we are in need of a variety of help, ranging from field work to data analysis to team-organizing.

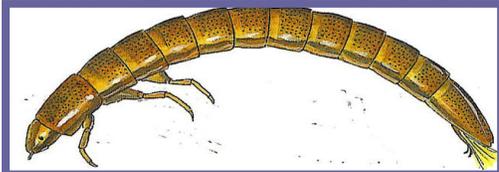
### BULL TROUT SURVEYS

Starting in the fall of 2005, Streamkeepers has conducted spawning surveys for Bull Trout in the upper Dungeness and Greywolf Rivers. The Forest Service is the sponsor of this study. Some years this endeavor has involved snorkeling down rivers, and the underwater beauty of these streams is a real treat. It's quite a delight to glide into a pool full of salmon and encounter them eye to eye. Usually however we put on waders and wander up and down the stream in search of spawning sites. Every year spawning activity has been detected. If you like to hike through beautiful woodlands and mountainous terrain, consider joining the Bull Trout Survey Team this fall. These fish are endangered and need all the help that they can get. Every bit of information concerning their present status is needed and our data is used by the Forest Service in devising Bull Trout management plans. So Bull Trout surveying allows one to do something really useful and have a great time doing it. Thanks to **Karen Rimpel, Melanie Roed, David Christian, Marcos Grimsditch, and Coleman Byrnes** for the 2009 surveys.

### SIEBERT CREEK STEELHEAD SPAWNING SURVEYS

This spring marks the 7<sup>th</sup> year of monitoring the spawning success of Steelhead in the Siebert Creek Canyon. We drop into the canyon and wade downstream. We also climb over log jams, bushwhack through dense brush, and sometimes get wet. But it's all fun. The canyon is undeveloped and the human world seems far away. The tracks of bears and cougars are sometimes encountered and we do find signs of Cutthroat and Steelhead spawning activity. Steelhead throughout the Strait of Juan de Fuca and Puget Sound are in decline. The number of spawning Steelhead in Siebert also seems to be declining. Surveying Siebert Creek is a good way of getting to know the habits of these iconic fish and to monitor their presence in a small part of their habitat. Join us at Siebert Creek next spring. This year's surveys were done by **Sue Nattinger, Steve and Chris Heilman, Vali Sandstrom, Melanie Roed, Marcos Grimsditch, Keith Peters, Pat Willets, and Coleman Byrnes.**

### NAME THIS BUG?



**Macroinvertebrate # 2**  
(Answers on last page)

### STREAMKEEPERS FEATURED

The Washington Dept. of Fish & Wildlife posts an biennial review of its Aquatic Lands Enhancement Program Volunteer Cooperative Grants. Clallam county Streamkeepers was featured on pg. 9. We had one of the highest ratios of volunteer hours donated per grant dollar. See review at: [http://wdfw.wa.gov/grants/alea/coop\\_funding/2009\\_alea\\_report.pdf](http://wdfw.wa.gov/grants/alea/coop_funding/2009_alea_report.pdf)

## Recognitions/Kudos

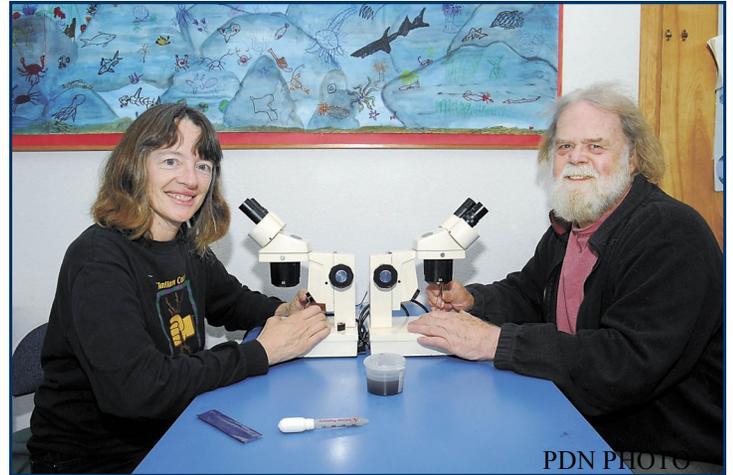
### Streamkeeper Volunteers Honored

**Sue Nattinger** and **Coleman Byrnes** were among 7 recipients who received Clallam Co. Community Service Awards at an appreciation ceremony held April 29th. The award honors the “dedication, sacrifice and accomplishments” of community leaders and volunteers “who have made a difference in Clallam County, who have made our community a better place by doing extraordinary things for their neighbors, their community, or the environment.” Both are long-time volunteers with Streamkeepers, Sue since 2000 and Coleman since Streamkeepers’ predecessor program began in 1997. They not only are the leaders of multiple stream-monitoring teams, but also help to calibrate

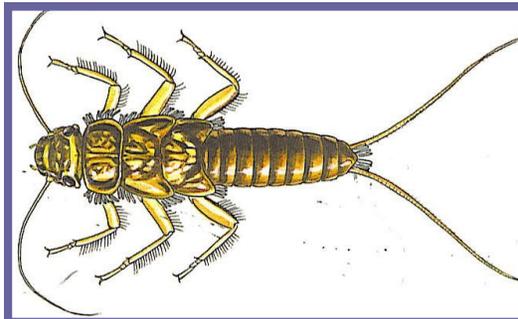
and maintain our equipment and started up a team that pores over microscopes once a week to help us sort our “stream-bug” samples. In addition, they regularly volunteer to help train new recruits. In the past five years, Sue has averaged 240 and Coleman 120 hours per year. These figures are all the more remarkable when one realizes the myriad other pursuits in which these two are involved, among which are the following:

- ▶ These two are known for not leaving a stream site without clearing out a garbage-bag full of noxious weeds!
- ▶ Sue combines her passion for removing noxious weeds with her snorkeling skills to help homeowners with a massive project to remove Eurasian milfoil from Lake Sutherland.
- ▶ For nearly 20 years, Sue has volunteered to help clear trails in Olympic National Park, an arduous task involving lugging heavy equipment and clearing blowdowns for miles up winding trails.
- ▶ Coleman is a citizen member of the Lyre-Hoko Watershed Planning Committee, which for about ten years has been drawing up a management plan for all the streams west of the Elwha all the way to Neah Bay, and also the Lake Ozette Sockeye Steering Committee, which is dedicated to saving that endangered fish from extinction.
- ▶ On behalf of the Lyre-Hoko Committee, Coleman single-handedly carried out a water-quality study of the Clallam River, descending into and then climbing back out of many precipitous ravines to bring home the data. This is a man who long ago saw his 60<sup>th</sup> birthday!
- ▶ Working with the North Olympic Land Trust, they have placed a conservation easement on their home on Salt Creek, to protect wildlife habitat, native plants, groundwater recharge, open space and scenic qualities.
- ▶ From their home, they participate in the Cornell Ornithology Lab’s home-based “e-bird” observation study, in which they regularly submit data about local bird observations to a worldwide database.
- ▶ They are also regular participants in the Audubon Society bird counts, and Sue has participated with the U.S. Fish and Wildlife Service in marbled murrelet surveys off the coast.
- ▶ They volunteer with the Washington Department of Fish and Wildlife and North Olympic Salmon Coalition, helping to restore creeks and repopulate them with native salmonid broodstock. As part of this project, for many years Sue ran minnow traps along Valley Creek to track the progress of a restoration project there.
- ▶ They help organize a citizen-based effort to annually document the spring steelhead run on Siebert Creek, scrambling over rocks and blowdowns over miles of creek every week during the spawning season to identify egg nests (a.k.a. redds).

### Inspirational Duo Sort “BUGS” at the Feiro Marine Lab



**NAME THIS BUG?**



**Macroinvertebrate # 3  
(Answers on last page)**

## Recognitions/Transitions

### New Volunteers

We have some great new people who've joined since last summer and are doing all kinds of special projects for us: --**Colin Stief**, an Americorps volunteer doing trail work in Olympic National Park, is also volunteering with us doing geospatial analysis—yikes!

--**Marcia Sterhan** and **Cathy Wright** have been doing data checking and troubleshooting projects.

--**Fred Ulf** has been helping **Steve Rankin** establish and survey staff gages and cross-section monuments at our new Clean Water District sites.

--**Randy Washburne** has taken on figuring out how to auto-download weather data from about a dozen different weather sites, for our stormwater project.

--We've hired recent Huxley grad, **Lara Kawal**, as temporary staff doing hydrologic analysis of existing stream-gage data to look for signs of changed water-flow patterns due to human activity.

### "Old Hands" Doing New Projects

--**Ron Sidwell** has been doing flow and rainfall analysis to help us pinpoint our stormwater monitoring project.

--**Jack Orsborn** has been advising us about hydrology and its measurement and analysis.

--**Steve Obrebski** has been reviewing **Lara Kawal's** statistical work and will be attempting to analyze Streamkeepers' data for trend analysis.

--**Rowann Osborne** has been helping us change the structure of our database to make it accept all different kinds of data sets (including our stormwater data).

--**Steve Belcher** and **Walt Johnson** have been upgrading the database so that it can track all of our equipment-calibration activity and automatically flag data gathered with equipment that failed its QC tests.

--**Lucille Schmitt** has joined **Gerri Ferguson** in recording all of the volunteer hours that you all dutifully turn in each month.

--**Steve Rankin** has become our resident expert with the whiz-bang Hydrolab meters which we're borrowing from Clallam County Environmental Health and the Jamestown S'Klallam Tribe for our Stormwater and Clean Water District projects. These little jobbies can measure DO, temperature, pH, conductivity/salinity, and turbidity all at one shot. We're trying to figure out how Streamkeepers can upgrade to equipment like this.

--**Bob Johnston** has taken over coordination of the West End team from **Ed Ansorg**. Thanks, Ed, for stepping into the breach when we needed you, and thanks to Bob for stepping into a leadership role in your first year.

--**Peter Gregory** has taken over leadership of the Ennis/Morse team, taking the helm from the supremely-experienced trio of **Gary Gleason** (Streamkeeper since 1997!) and **John and Donna Spence**.

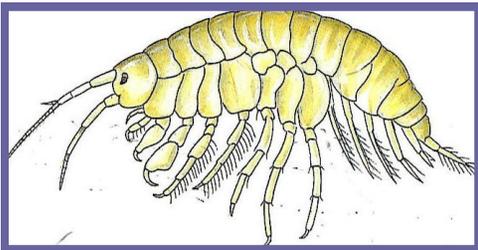
--**Steve Rankin**, adding on to his already-considerable duties, has taken on field leadership of the new Clean Water District monitoring team, on which we'll be partnering with the Jamestown S'Klallam Tribe (most notably "Hydrolab Queen" **Lori DeLorm**).

**We appreciate the fact that the leaders who are stepping down still intend to continue as volunteers—thanks for your dedication to healthy streams!**

### We'll Miss You, Phyllis

Phyllis Day writes:

### NAME THIS BUG?



**Macroinvertebrate # 4**  
**(Answers on last page)**

Dear Ed & Everyone, Just wanted to tell you all that I am leaving this area around April 1st and moving to Bellingham. I bought an older home in the Fairhaven area and will be selling this Sequim house this spring. So things are moving along on both fronts - coming & going !! I wanted to say farewell to everyone I've met and worked with in the Streamkeepers here - you have all been so helpful and supportive for all us field volunteers. Each of you has a lot to contribute to the Streamkeepers and each of you is a vital part of the program!! It has been fun getting to learn the stream monitoring and see the "backwoods" of the area. I hope to find the Streamkeepers office in Bellingham, or something similar in stream work. My e-mail will remain the same. Best regards, Phyllis

**FAREWELL, STU MACROBBIE**

Streamkeepers might not be around were it not for the redoubtable, yet so irreverent, Stu MacRobbie. Stu and his wife Pat showed up in 1997 at the first meeting of Streamkeepers' predecessor, the Eight Streams Project, only to find that their home stream, Cassalery Creek, wasn't one of the Eight Streams. Well, by the end of that meeting, it had become the de facto Nine Streams Project, with Stu and Pat forming their own stream team on the spot. Stu was so into the natural world that he was the only mere mortal volunteer in Clallam County to have ever counted an entire macroinvertebrate sample, just to see what all those critters would look like—it only took him a year! When the Eight Streams Project's funding was coming to an end in 1998, Stu led a group of volunteers to ask the County Commissioners to continue funding the stream teams. He got up with his big frame, booming voice, and overweening smile, and said, "You can't pass this deal up—we're motivated, we're trained, and WE'RE FREE!" That was an offer the Commissioners luckily didn't refuse, and here we still are a decade later. Stu unfortunately is not, having passed away earlier this year, but Streamkeepers is one of many legacies he leaves behind. Stu, you are missed and remembered.

**FAREWELL, BOB BALDWIN**

Bob Baldwin passed away this month, a robust man in his 70's taken down by cancer. Bob was a careful observer of both "natural" and "human" worlds and understood that they were one. He and his wife, Bobbie, were part of the first Streamkeepers training group in 1999, and they and Elwha neighbor Ben Peters (Marty and Keith's son) helped Jack Smith monitor Bell Creek that first year, simply because no one else was available to do the job. Bob was among the first to sound the alarm about his namesake "Stinky Bob" (herb Robert), which was rapidly spreading up the seemingly-impregnable Elwha riparian corridor near their home. Ever systematic and observant, Bob left little flags on his property where he'd remove herb Robert patches every year before they went to seed. New plants continued to sprout a decade later, underscoring the idea that if you're going to battle noxious weeds, you'd better be in it for the long haul, as indeed Bob was, getting up from his sick bed to seek out this hardy little nemesis and cluck over its will to live.

**JOBS LOOKING FOR VOLUNTEERS**

**PRESENTER:** Beachwatchers has asked us for a presentation on "The State of the Streams" as part of their upcoming training. Anyone interested in taking this on?

**FESTIVAL HELP:** The Lavender Festival has offered us a booth as part of their Fun on the Field, with kid/family-oriented activities. Anyone interested in organizing this? At past fairs, we've done a Watershed Treasure Hunt and Bug Viewing, but we've never done the Lavender Festival. We'd have to staff the booth for 3 full days, July 16-18.

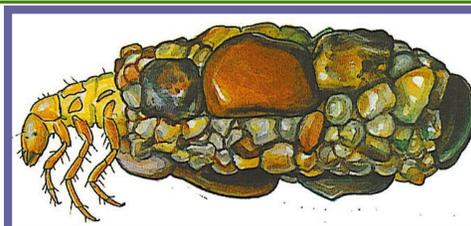
**DEMONSTRATOR:** Demonstrating the Enviroscape watershed model.

**STREAMFEST HELP:** The North Olympic Land Trust's Streamfest is Sunday, August 29. Streamkeepers has had a booth there pretty much every year, and we'd hope to have one there this year as well. Let us know if you'd be willing to help organize, design, set up, take down, or staff this booth. Booth hours would be 1-4.

**INVASIVES-SPREADING PREVENTION:** There's concern that stream monitors can spread invasive plants and animals from site to site. We need someone to read an introductory article on this topic, conduct further research, and report findings to us.

**SCRAPBOOKER:** We've got an inch-thick folder with 11 years of Streamkeepers clippings. Would anyone like to put together a physical and/or electronic scrapbook that we could put out on the table at fairs?

**CHEMICAL SAFEGUARDS TABLE:** We've collected MSDS's for all of the chemicals we use, and we try to follow the precautions recommended by the MSDS's, but it would be valuable to create a table in which all the various MSDS provisions are collated into one place for easy reference.

**NAME THIS BUG?**

**Macroinvertebrate # 5**  
(Answers on last page)

## Lower Elwha Klallam Tribe named Conservation Organization of Year

The Lower Elwha Klallam Tribe has been named Conservation Organization of the Year by the Washington-British Columbia Chapter of the American Fisheries Society.

This award is given to an organization that has significantly contributed to a program or activity for conservation of fishery resources or habitats. The Lower Elwha Klallam Tribe was selected to receive the award for its extensive habitat restoration work on the North Olympic Peninsula, its removal of numerous fish passage migration barriers, its removal of dikes and installation of engineered logjams, along with invasive species control and native vegetation planting. Thank you for your long term advocacy to restore Elwha area watersheds.

## WSU EXTENSION CLALLAM COUNTY BEACH WATCHERS TRAINING

The 2010 W.S.U. Beach Watchers volunteer marine stewardship educator training is scheduled for Mondays & Wednesdays in May, and Wednesdays & Fridays in September. There will be an orientation for new, registered volunteers at 6:30 p.m. on Friday, April 30<sup>th</sup>. Classes will be held between 9:00 a.m. and 4:00 p.m. at the Feiro Marine Life Center in Port Angeles.

Many people have said how much they'd enjoy the fascinating range of topics presented by university level instructors, and the opportunities for citizen science and public outreach regarding oceanic issues. Volunteers will receive 100 hours of top notch education about everything from basic oceanography to tide pool invertebrates. They will also commit to donating 100 hours to our community via marine stewardship outreach, citizen science, or participation in marine habitat restoration & protection projects. The \$45.00 class fee covers parking permits and class notebooks & materials.

To learn more about W.S.U. Beach Watchers and to download an application, you can visit <http://www.beachwatchers.wsu.edu/clallam/> online, or call (360) 565-2619 to speak to the program coordinator.

## Ed Chadd Awarded Grant to Attend National Water Quality Monitoring Council Conference

Ed Chadd, Streamkeeper coordinator, was awarded a grant by YSI, Inc. to attend the National Water Quality Monitoring Council Conference in Denver, Colorado on April 25-30. This \$850 grant, covering registration and travel, helps Streamkeepers to remain current with professional standards and research in the assessment of Clallam County's streams.

More information about the conference is available at <http://quest.cvent.com/EVENTS/Info/Summary.aspx?e=988d98fa-0e81-42d9-bef8-6bcd23993231>.

The NWQMC's purpose is to provide a national forum for coordination of consistent and scientifically defensible methods and strategies to improve water quality monitoring, assessment and reporting, and to promote partnerships to foster collaboration, advance the science, and improve management within all elements of the water quality monitoring community. More information is available at <http://acwi.gov/monitoring/index.html>.

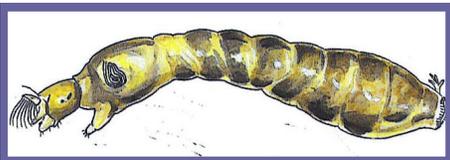
## Defensive Driving Class

Clallam County is doing its Defensive Driving class on-line now, and it's available for free to all volunteers. There are two reasons you might want this:

- If you want to be the designated Crew Driver for your monitoring team (ie. driving the carpool from the RDVZ point to the various sites).
- It may qualify you for reduced insurance rates.

If you're interested, RSVP and we will give you further instructions.

## NAME THIS BUG?



**Macroinvertebrate # 6**  
(Answers on last page)

## OSS (Onsite Septic Systems) Inspections "Clean Water is Our Goal!"

Water quality concerns for Puget Sound and the Strait of Juan de Fuca, including the waters in Clallam County have resulted in two new Washington State laws that require septic systems to be regularly inspected and maintained. Owners of traditional gravity systems must have their system properly inspected every 3 years and an owner of an alternative system with pumps must have their system inspected every year. Part of Clallam County is within a Marine Recovery Area which has more specific inspection requirements.

Clallam County's Environmental Health will be offering a "Do It Yourself" inspection training program for septic owners who want to learn how to do their own inspections. To be eligible for this training, homeowners will need to first take the free "Septics 101" workshop, held monthly. The septic system is one of the most expensive parts of many homes, requiring regular inspection and maintenance. By keeping your system operating well, you are also protecting the environment. "Septics 101," taught by Clallam Co. Environmental Health Division, covers how septic systems work, different designs, and how to keep systems in good working condition. You can find the county's management plan and information about the workshop and training opportunities on the county's website at [www.Clallam.net](http://www.Clallam.net) To pre-register for this class call: 360-417-2258.

## IN THE NEWS

### Conservation Victory on the Hoh River *Seattle Times* 04/08/2010

After nearly 10 years of work and more than \$11 million, one of the largest single conservation efforts in Washington has permanently protected some 7,000 acres of land along the Hoh River on the Olympic Peninsula.

### Ecology Says Closed Port Angeles Landfill Not Affecting Strait; Dry Creek Coalition Says Danger is Real <http://www.peninsuladailynews.com/article/20100407/NEWS/3040799911>

PORT ANGELES -- On a bluff overlooking the Strait of Juan de Fuca sits the city's closed landfill, 44 acres of dump brimming with 2 million tons of rotting garbage, engine parts -- you name it. Is that mass of detritus two miles west of downtown Port Angeles bleeding leachates -- deadly, water-borne pollutants -- that are creating a lifeless "dead zone" a half-mile into the Strait? An initial look by the state Department of Ecology says no, but the Dry Creek Coalition begs to differ.

### Washington is first to tackle toxic copper in brakes *Kitsap Sun* 03/10/2010

Washington state has done it again, being the first state in the country to take a legal stand against a toxic chemical. The Legislature this week voted to phase out copper in brake pads. It also finalized rules banning bisphenol A in baby bottles and sports bottles.

### Deep-Ocean Low Oxygen Zones Spreading in NW *Scientific American* 02/24/2010

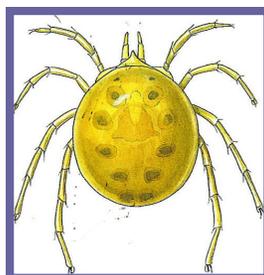
A plague of oxygen-deprived waters from the deep ocean is creeping up over the continental shelves off the Pacific Northwest and forcing marine species there to relocate or die. Biodiversity will be the big loser as these low-oxygen zones knock out some species and promote others, like squid and jellyfish.

### Views: Changes Needed to Save Puget Sound *Seattle Times* 02/18/2010

Cleaning up Puget Sound is directly linked to the health of Washington citizens and a robust economy. The Legislature needs to know there is broad public support to clean up the Sound. The next big target is the pollution in stormwater runoff.

### New Interactive Website

E3 Washington moves into action, linking education, the environment and the economy. Learn about E3 Washington's initiative to create a System of Education for Sustainable Communities. Discover programs that provide quality environmental and sustainability education. Learn about the Student Project Space to debut Earth Day! Keep up-to-date about environmental and sustainability education across the state and in your region. Find out how you can help. Website: <http://www.e3washington.org/>



NAME THIS BUG?

Macroinvertebrate # 7  
(Answers on last page)

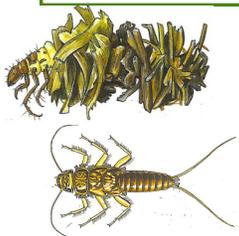
**STREAMKEEPERS RECEIVES JIJI GRANT**

Funding from the JiJi foundation will enable Streamkeepers to continue and extend biological monitoring of local streams in order to better make the connection between land use and the condition of our aquatic resources.

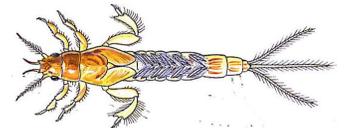
Volunteers provide a good deal of in-kind support such as sample collection, data analysis, and remote-sensing ground truthing. This grant will support the use of trained technicians to analyze benthic invertebrate samples and geographic data, as well as the coordination of these activities. This is important as the benthic index of biological integrity (B-IBI) allows us to quantitatively assess the biological health of a stream. Benthic invertebrates are often used as watershed indicators because they are susceptible to degradation of water, sediment, and habitat, and therefore can serve as a biological integrator.

**BUG SORTING**

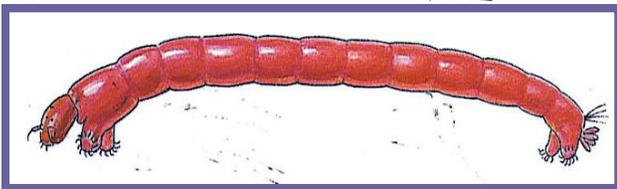
Streamkeepers has been collecting aquatic insects from Clallam County streams for a number of years. These insects are separated from the detritus that they are collected with, and then identified and counted. This data is used to evaluate stream health by means of a methodology called Benthic Index of Biological Integrity. Arthur Frost, an entomologist extraordinaire, has done most of the counting and identifying of the aquatic bugs. This year we have tried to make it easier for him by using Streamkeeper volunteers to do the bug sorting. Since September, volunteers have been meeting on Monday morning at the Feiro Marine Laboratory and sorting bugs. It is tedious but one does get to see a lot of interesting critters and it helps Arthur. The sorters are **Charlie Nichols, Rowann Osborne, Pam Russel, Dianna Cross, Keith Peters, Melanie Roed, Vali Sandstrom, Sue Nattinger, Greywolf Nattinger, Marilyn Harbaugh, and Coleman Byrnes.**



**NAME THIS BUG?**



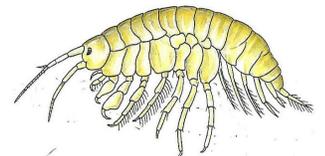
**Answers to "NAME THIS BUG?"**



**Macroinvertebrate # 8?**

If you enjoyed trying to identify these "bugs," you might enjoy learning more and helping us do an important job. We need volunteers to sort Streamkeepers' Benthic Invertebrate samples. For training opportunities, please call us.

- #1 Mayfly
- #2 Water Beetle Larvae
- #3 Stonefly
- #4 Scud
- #5 Caddis camouflaged in a stone
- #6 Black Fly
- #7 Water Mite
- #8 Non-Biting Midge



**THANK YOU TO THE MIKE HOVIS FAMILY**

"BUG" images are taken from sets of flashcards donated by the **Mike Hovis** family and are available for short term loan from Streamkeepers. They derive from J Reese Voshell, Jr.'s book, "A Guide to Common Freshwater Invertebrates of North America." Special thanks to the Hovis family for their generosity.