



Community Clean Water Institute

Annual Report for 2009



This picture of Mark West creek was taken in April by our intern, Nick Bel.

Dear Friends,

Sonoma County is celebrating the winter and spring rains which have left our rivers and creeks with plenty of clear clean water going into summer. Many of CCWI's water monitors have noted that local rivers and creeks have more water and are more beautiful than they have been in the past several years. This is a very promising start to the summer season, but we should not let our guard down just yet. Several years of drought have left us with a shortage of water in many reservoirs so we must still be conscious of how we use and protect this precious resource.

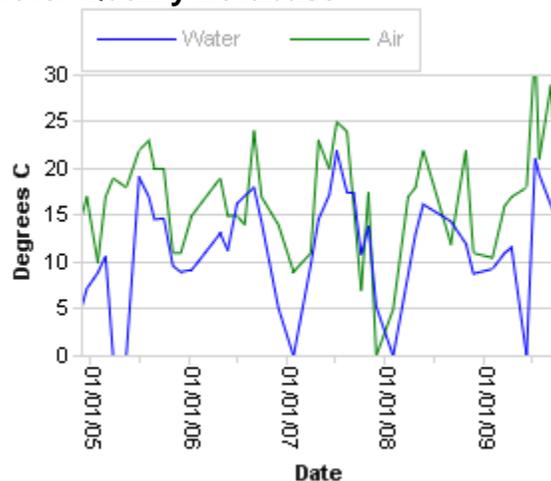
CCWI has a new program Director! Art Hasson joined the Community Clean Water Institute in 2008 as an intern and volunteer water monitor. Art has a business degree from the State University of New York, which he has put to good use as our new program director. He has updated our water quality database engaged in field work, performed flow studies and bacterial analysis for the past two years. Art is focused on protecting our public health through the preservation of our waterways. CCWI would like

to thank outgoing program director Terrance Fleming for his hard work and valuable contributions to protect water resources. We wish him the very best in his future endeavors.

CCWI would like to thank our donors for their support in building our online database interactive database. It contains nine years of data that CCWI volunteer water monitors have collected on local creeks and streams in and around Sonoma County. It was a huge undertaking in the current economic climate, but it guarantees everyone access to all of our data. We hope that students, educators and policy makers will benefit from this unique tool. We would also like to thank Nels Worden, chair of CCWI Board of Directors, for the many hours he has donated to double check our data and to make sure that all of the proper protocols and procedures are followed.

Thank you,
Art Hasson, Program Director
Lynn Hamilton, Administrator
Nels Worden, Chair CCWI Board of Directors

Online Interactive Water Quality Database



This graph is just a small sample of what you will find on our new database!

Check out our new online interactive database which was built with the assistance of Marc Sloop and Pyxis Web Design. This website displays nearly nine years of data on dissolved oxygen, pH, electrical conductivity, turbidity, temperature, and nutrients graphically so that the viewer can easily compare parameters to see changes and trends overtime.

The information in the website is searchable based on stream, time frame, and monitoring site. The main page of the website has a map of Sonoma County allowing the user to choose their water body of interest. From there a map of the specific streams sub watershed will show visitors where our monitoring sites are located. This is also where people can choose the site and time frame they are interested in studying. It is currently in beta testing on our webpage and can be seen by clicking on the link at www.ccwi.org.

The Dutch Bill Creek Report is Now Available Online!

The primary objective of CCWI's Dutch Bill Creek Water Quality Study, Turbidity, Nutrients and Bacteria was to collect water quality samples on Dutch Bill Creek between

2007 and 2009 in winter months in order to document and analyze the water quality of Dutch Bill Creek during storm events. The water quality parameters analyzed were turbidity, nitrates, phosphates, conductivity, pH, dissolved oxygen, temperature, and bacteria concentrations. A secondary objective of our study was to train interns and interested citizens on this very important watershed.

The study was a success in that over 200 samples were collected and analyzed. Water quality conditions during these storm events have been documented and three student interns were trained in water quality science and study techniques. All the data we collected has been made public and decisions in regards to best management techniques, restoration, and future monitoring of the Dutch Bill Creek watershed can be better discussed in light of data we have collected. You can read our full report on Dutch Bill Creek on our website.

First Saturday Clean Up at Santa Rosa Creek

CCWI has partnered with Chops Teen Center and First Saturday Clean Up to hold monthly educational forums and to continue our monthly creek clean ups along Santa Rosa Creek. Volunteers of all ages participate in hands on water quality monitoring activities and learn about watersheds, birds, flora and fauna from expert guest speakers while they help clean up Santa Rosa Creek.

Workshops

CCWI conducted several water quality monitoring workshops last year for local high school students in Rohnert Park and Santa Rosa. In addition, CCWI has held a series of lectures, presentations and work shops for at-risk teens with the First Saturday Clean Up held each month. Our presentations are designed to encourage students to actively take part in their communities, teach them skills that can be used in their future employment and to demonstrate the importance and relevance of earning their education. We hope to empower local youth to become tomorrows leaders.

2009 Water Quality

Flow and temperature were the primary topics for 2009 here in Sonoma County especially with the dewatering of the Russian River and several tributary creeks and streams for agriculture. When combined with the onslaught of the drought, water temperatures were too high for Salmon fry to survive in many locations along Mark West Creek as early as May. The water levels at many of these sites were among the lowest on record as well. This demonstrates just how strong the correlation between temperatures and stream flow are along Mark West creek.

Pollution Hotspots for 2009

Nitrates over 1 mg/L:

Colgan Creek
Dutch Bill Creek
Laguna de Santa Rosa
Lancel Creek

Phosphorus over .1 mg/L:

- Blucher Creek
- Colgan Creek
- Dutch Bill Creek
- Laguna de Santa Rosa
- Lancel Creek
- Mark West Creek

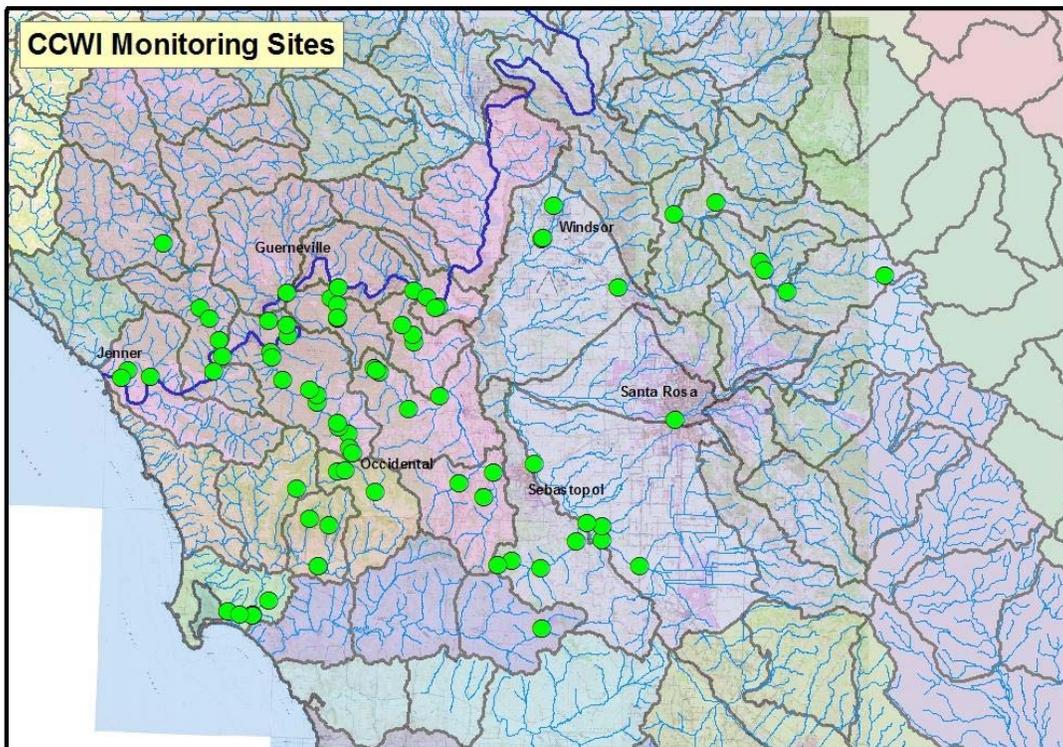
Turbidity over 100 NTUs

- Dutch Bill Creek
- Mark West Creek
- Lancel Creek
- Russian River

Conductivity over 500 uS

- Austin Creek
- Blucher Creek
- Cheney Gulch
- Colgan Creek
- Green Valley Creek
- Laguna de Santa Rosa
- Mark West Creek
- Salmon Creek
- Santa Rosa Creek
- Windsor Creek

Monitoring Sites



Citizen Monitoring Updates

For 2010 CCWI has expanded our Internship programs with Santa Rosa Junior College and Sonoma State University. Our interns will be collecting data on Dutch Bill, Purrington, and Mark West creeks. CCWI is preparing to partner with Sonoma State University to help train some of the universities biology students in field work. We look forward to forging a stronger relationship with both of these partners in the future.

How to Become a Water Quality Monitor



We are always looking for interested volunteers. Most of our citizen scientists visit one or two sites per month and collect data on six primary parameters, four of which are monitored on site. These include: temperature, dissolved Oxygen, conductivity, turbidity and pH. These are good primary indicators for the health of our waterways. As a volunteer you would also grab a sample for our lab to analyze for nitrate and phosphate levels using chromatography. The data you collect will then be posted on our website for everyone to see graphically. You will be contributing to your community by collecting scientific data and helping develop baseline data for water quality in Sonoma County!

2009 Financial Report

Community Clean Water Institute Annual Report 2009 Financial Report

Income:

Individual Donations	\$ 2,027
Foundations Grants	16,401
Bank Interest	<u>35</u>
Total Income	\$18,463

Expenses:

Administration	\$ 6,629
Fundraising	2,559
Programs	<u>32,832</u>
Total Expenses	\$ 42,020

Thank You to All of Our Generous Donors:

The Grassroots Wildlands Fund of the Tides Foundation Patagonia
The Sonoma County Fish & Wildlife Commission
Vera Bergman & the Mermaid Fest
The Royal Bank of Canada
Public Health Trust
Rose Foundation

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John Pendergraft

Coleman Valley Creek

Loba Moon

Anja GoodEagle

Mark West Creek

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Laguna de Santa Rosa

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Windsor Creek

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Green Valley Creek

Larry Hanson

Bob Burke

Cheney Gulch

E.T. Lode

Petaluma River

Theresa Fisher

Hillary Smith

Salmon Creek

Lily Berkeley

Technical Advisors

Nels Worden

Stephen Fuller-Rowell

Sarah Shaeffer

A Special Thank you to Larry Hanson CCWI's Ombudsman to NCSFC

Click on the links below if you would like to learn more about our partners.

Town Hall Coalition: <http://www.townhallcoalition.org/>

First Saturday Clean Up: <http://firstsaturdaycleanup.org/>

Would you like to donate to CCWI? We have a big heart but we cannot exist without the help of people like you. Please send us a check for \$25, \$50 or even \$100 to the address below. All donations are tax deductible.

The Community Clean Water Institute
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Sebastopol, CA 95472.

Thank you.