

Sept 2018

BARSCREEN BEE

The Official Newsletter of the Northern Sacramento Valley Section
of the California Water Environment Association



www.nsvs.cwea.org



Welcome to Redding for Training

Tuesday, September 18, 2018

NEW LOCATION!

McConnell Foundation Lema Ranch Facility
800 Shasta View Drive, Redding, CA 96003

8:30 SIGN-IN and NETWORK with your peers over coffee & donuts.

9:00 PIPE BURSTING FOR SEWER COLLECTION SYSTEMS
Nick Visconti, Assistant Engineer, City of Redding

9:50 WASTEWATER OPERATOR EXAM SURVIVAL TIPS
Jessica Chandler, P.E., Engineer, PACE Engineering & Shasta College.

**10:40 WHEN A WILDFIRE COMES TO TOWN, PUBLIC WORKS
LESSONS LEARNED REGARDING RESPONSE, RECOVERY,
DTSC, OES, AND FEMA**
Brian Crane, Retired Public Works Director, City of Redding
OES representative, invited.

11:30 ULTRAVIOLET WASTEWATER DISINFECTION SYSTEMS

12:40 LUNCH \$10, cash or check payable to CWEA NSVS
**Mary's Pizza Shack: Meat Lasagna, Chicken Fettuccini Alfredo,
Bread Sticks and Salad.**

1:30 TOUR- STILLWATER WASTEWATER TREATMENT PLANT
City of Redding, 6475 Airport Road, Anderson, CA 96007

**Attendees of technical sessions will be issued up to four Continuing
Education contact hours toward CWEA Technical Certification and or 4
SWRCB education points toward wastewater certification.**

To find out if a class qualifies for CWEA continuing education in your area of certification, go to the CWEA web site. Click on Certification - Wastewater Trainers and Educators - CWEA Trainers- Training Subjects, for list of class subjects.

All wastewater relevant sessions count as one education point per 50 minute presentation for the purpose of SWRCB operator certification.

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jdobson@cityofredding.org

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**Web site manager:
Open...**

WWW.NSVS.CWEA.ORG
The Barscreen Bee is a
publication of the Northern
Sacramento Valley Section
of the California Water
Environment Association.



Welcome to Redding for Training
Tuesday, September 18, 2018

NEW LOCATION!

McConnell Foundation
Lema Ranch Facility
800 Shasta View Drive
Redding, CA 96003
(530) 226-6200

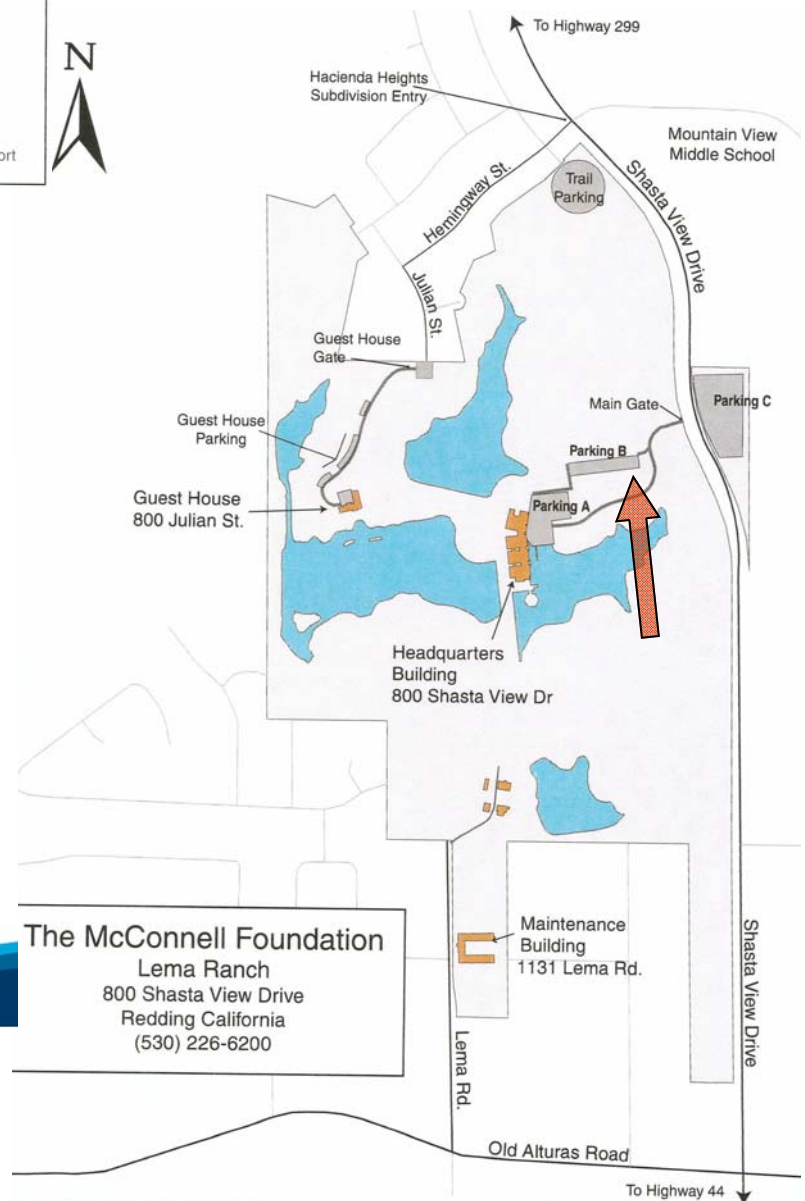
Park in upper lot, follow
walking path to Headquarters
Building Training Room



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mhumberstone@miscowater.com

www.miscowater.com



The McConnell Foundation
Lema Ranch
800 Shasta View Drive
Redding California
(530) 226-6200

NSVS Calendar of Events VOLUNTEERS

- Sept 11, 2018 HDPE Pipe Roadshow (sponsored event), Redding
- Sept 18, 2018 Training. Redding
- Oct 16, 2018 Board Meeting
- Oct 24, 2018 Northern Safety Day 2018 Training, Yolo County Fairgrounds, Woodland, CA
- Nov 13, 2018 Board Meeting
- Dec 11, 2018 Board Meeting
- Jan 19, 2019 Dinner Banquet at Sierra Nevada Brewery, Chico, CA 5-8 pm

Board meetings held at 11:00-1:00 p.m.,
Various locations. Contact
twyhliko@cityofredding.com for
location information.
Members always welcome

NEEDED:

2-Year Director: Attends board meetings, trainings, helps direct future training content.

Website Manager: Updates website using "Word Press" software, updates Facebook page for local section.

Contact any of the NSVS Executive Board members on page 1 if interested.

Mark your calendar!
2019 Annual Banquet
Saturday January 19, 2019, 5-8 p.m.



Calling Municipal Staff, Civil Engineers and Underground Contractors

This event is a water and waste water oriented, custom, interactive presentation intended to grow your HDPE knowledge and answer your questions. FREE SHOW

High-Density Polyethylene Pipe Total Solutions Roadshow



Tuesday, Sept. 11th, 2018
7:30 AM - 1:30 PM

Host



Sponsor



Location

City of Redding Public Works
20055 Viking Way, Bldg #3
Redding CA 96003

Program

- Continental Breakfast
- Catered Lunch
- Free Parking
- FREE SHOW
- Access to national HDPE Experts
- WIN an IPAD
- Program begins at 8:15 AM

Sign-In - Fusion Demos	7:30 AM
HDPE 101 Features + Benefits	8:15 AM
HDPE 204 Pipe Bursting	9:45 AM
HDPE 301 An Engineer's View	10:30 AM
Or	
HDPE 307 Repair, Connections + Fittings	10:30 AM
Lunch	Noon
HDPE 306 Case Study Review	12:30 PM

For Directions, more information,
and RSVP (required) please email
Peter Dyke at pdyke@pepipe.org



High-Density Polyethylene Pipe Total Solutions Roadshow and Expo

Agenda and Expo Guide

This excellent educational venue will provide both the beginning and experienced pipe user what they need to know to [use HDPE with confidence](#).

What have attendees said about the Alliance's Total Solutions Roadshow?

*"Your roadshow was an excellent effort to increase the understanding and acceptance of your product."
Martin D. Worden, P.E. Site Engineering Services, Milwaukee*

*"...about as good a seminar as I have ever attended."
Consulting Engineer, Dallas Texas*

HDPE 101 "Features and Benefits"	Features and benefits of HDPE Pipe including: leak free, flexible + lowest life cycle cost. Manager confidence in the process is fundamental. Learn how other municipalities have adopted HDPE into their cities. Detailed information on formulas, behavior, surge calculations, Manning coefficient, water hammer, C-factor + pipe comparisons. One of the most common HDPE pipe install methods explored in detail + lessons learned. An important session for field staff, this presentation covers field knowledge and practical tips on use of HDPE in the field
HDPE 306 "Case Studies"	
HDPE 301 "An Engineer's View – In Depth"	
HDPE 204 "Pipe Bursting Municipal Water"	
HDPE 307 "Fittings and Repair"	
Go Pro Cameras + Video	Fusion Demonstrations use technology to enhance experience + understanding
Parts, Connections, Fittings, Transitions	Connections, Fittings & Transitions, molded and prefab fittings on display
Fusion Butt, Electro, Saddle, Socket	Live Fusion Demonstrations and Training
Resource Center How to Design for and Use HDPE	Market Availability, Resin features, Timing, Standard Products and Processes.



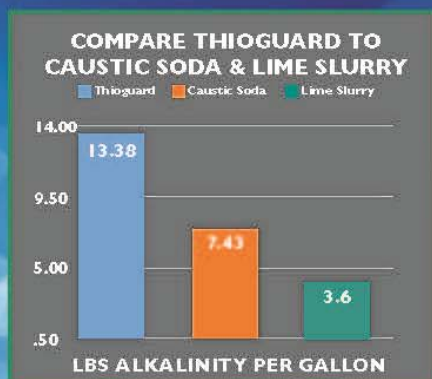
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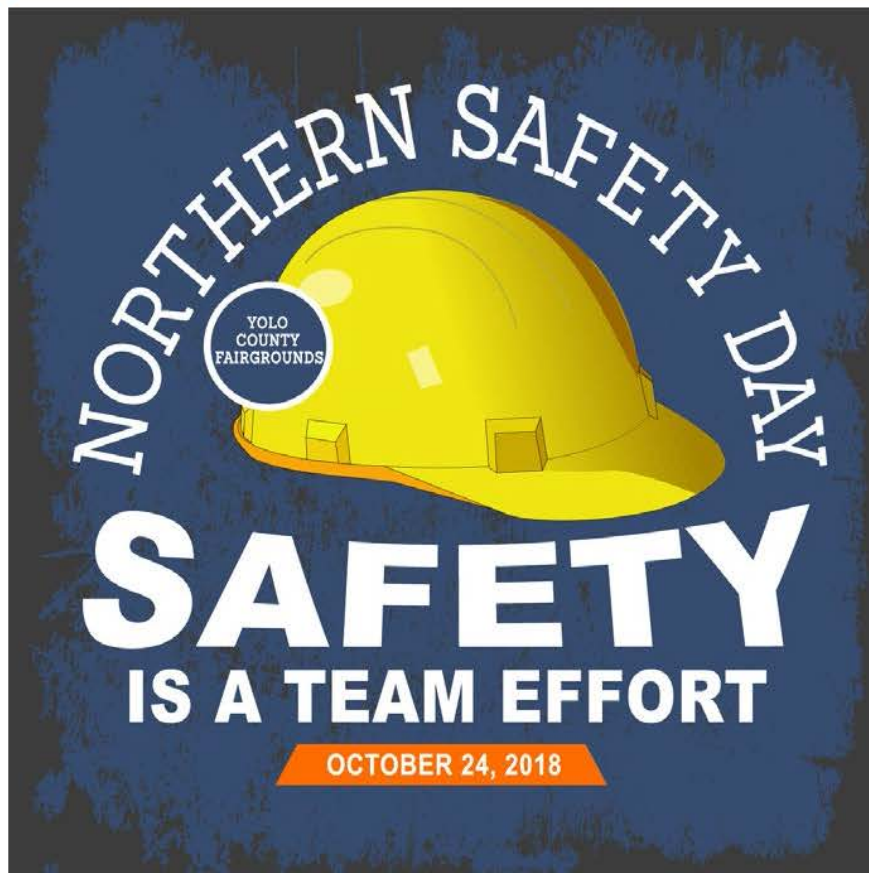
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NORTHERN SAFETY DAY 2018



On Wednesday, **October 24, 2018** water professionals from all over California will gather at the Yolo County Fairgrounds in Woodland to improve their professional knowledge around safety, experience hands-on equipment demonstrations and network with fellow attendees and exhibitors. Join friends, peers and colleagues for CWEA's 33rd Annual Northern Safety Day.

Safety is a Team Effort

Earn up to 6 CWEA Technical Certification Program Contact Hours.

EARLY BIRD DEADLINE: OCTOBER 5, 2018

Register by October 5th and save \$25!



Weather at the Yolo Fairgrounds can be unpredictable. Please dress in layers in case of warm, cold or inclement weather. Lunch to be served outside.

Who should attend:

- O&M Leaders
- Mechanics
- Electricians
- Instrumentation Technicians
- Inventory Managers
- Maintenance Schedulers
- Wastewater Operators
- Engineers and Support Staff

REGISTER ONLINE AT MYCWEA.ORG

Northern Safety Day 2018 | October 24, 2018

7:00 a.m.	Donuts and Registration in Home Arts Building		
8:00 - 9:00 a.m.	Opening General Session - Waite Hall		
ROOM NAME	JOHN ROGERS	WAITE HALL	MARAVIOV HALL
9:05 - 10:05 a.m.	What is Your Arc Flash NFPA 70E Plan? Ralph Stevens	Excavation Safety	Accident Investigation Larry Olivan
10:05 - 10:45 a.m.	Exhibitor Time Outside and Home Arts Building		
10:50 - 11:50 a.m.	Lock Out, Tag Out Laura Hudson, PhD, CRL Pinnacle ART	Line Jetting Safety Tim Powers, MME	Heat Illness Joe Gregory, City of San José
11:50 a.m. - 1:00 p.m.	Lunch Outside in Rotary Park followed by Exhibitor Time Inside Home Arts Building and Outside		
1:00 - 2:00 p.m.	Air Monitoring and Gas Detection Bob Comer, Industrial Scientific	Safety in the Streets Larry Olivan	A Review on Basic Fall Protection Andy Bull, CH Bull Co.
2:00 - 2:30 p.m.	Exhibit Time Outside and Home Arts Building		
2:30 - 3:30 p.m.	Closing General Session - Waite Hall		
3:30 - 3:45 p.m.	Door Prizes / Closing - Home Arts Building		

SESSION & SPEAKER INFO TO COME



DISCLAIMER: CWEA and its Board, members, and volunteers are not responsible for the actions of speakers or the contents of their papers, and no endorsement is implied or given of any persons or their philosophies, ideas, or statements, nor of any products or processes, nor of any organizations or companies who volunteer to serve as speakers at the conference or exhibitors who purchase display space in the exhibit hall.

CWEA is not responsible for theft of or damage to personal or agency/company property whether intended to be used for CWEA purposes or not.

NORTHERN SAFETY DAY 2018

Registration Form

Early Bird (due 10/5/18)

☐ Member \$134 ☐ Non-Member \$228
Registration includes BBQ lunch

☐ I am a speaker for this event.

Regular (after 10/5/18)

☐ Member \$159 ☐ Non-Member \$253
Registration includes BBQ lunch

Student

☐ Full-Time Student - No Cost
Provide proof of college attendance w/minimum of 9 units.

Student's School _____

PLEASE PRINT OR TYPE INFORMATION (attach form with additional attendees)

NAME FOR BADGE: _____

FIRST NAME: _____ LAST NAME: _____

TITLE: _____

AGENCY/COMPANY: _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

PHONE: _____ E-MAIL: _____

EMERGENCY CONTACT: _____ EMERGENCY PHONE: _____

☐ CWEA MEMBER ☐ WEF MEMBER or ☐ CA-NV AWWA MEMBER (must have current membership for member rates)



Special Services: ☐ Please check here if you require special accommodations to fully participate.
Attach a written description of your needs and return it to CWEA 30 days before the conference.

Dietary restrictions: ☐ Please check here to indicate dietary restrictions _____

Please indicate payment method: ☐ CHECK ☐ PURCHASE ORDER (attached)

☐ VISA ☐ MASTERCARD ☐ DISCOVER ☐ AMEX

NAME OF ACCOUNT HOLDER: _____

ACCOUNT NUMBER: _____

EXPIRATION DATE: _____ BILLING ZIP CODE: _____

SIGNATURE: _____

Registration Options:

1. Register online at mycwea.org

2. Send registration form and payments to:

CWEA Workshops

7677 Oakport Street, Suite 600, Oakland, CA 94621-1935

Fax (510) 382-7810

Please make checks payable to: CWEA NSD 2018

REGISTRATION QUESTIONS?

Contact MEMBER SERVICES: 510.382.7800 x160

Full payment or purchase order is required to process registrations. If you have to cancel, written cancellation notice is required and must be received at least 15 days prior to the workshop date. A 25% service fee shall be retained on all cancellations. No refunds shall be given for cancellations made less than 15 days prior to the event. A written special service request is required 30 days in advance.

Need help? We're here for you!

Contact MEMBER SERVICES

510.382.7800 x160

memberservices@cwea.org

Want to exhibit?

Contact: Christine Carchia

510-746-7415

ccarchia@cwea.org

Sponsorship questions?

Contact: Alec Mackie

510.382.7800 x114

amackie@cwea.org

REGISTER ONLINE AT MYCWEA.ORG



Training Day Report, Oroville, Ca, July 17, 2018

By Tracy Wyhlidko

We would like to thank the Sewerage Commission – Oroville Region for hosting the CWEA NSVS training day on July 17th, 2018. The attendance was great with 33 members present. The tool discussion and tour of the Bolt Tool Museum at the end of the day was one of a kind.



The morning began a slight change of schedule. The first speaker from CWEA came down with the stomach flu the day before our class and had to cancel. Luckily, one of our scheduled speakers brought a co-worker who had a second training talk with him. With the slight change, we began the morning with Brianna Barton from Carollo Engineers presenting, "Save Energy through Aeration Blower Replacement." Ms. Barton discussed the recent blower replacement project that Carollo Engineers performed at Fairfield-Suisun Sewer District 23.7 MGD plant. The old blowers were 30% of the energy usage at the plant. The new project will



increase efficiency, reduce energy use, and is partially funded by grants and rebates that were made available by the Green Project Reserve of the State Revolving Fund.

Second, Mr. J.J. Jeffries from Rockwell Solutions and Jon Neuenschwander from Vogelsang presented, "Positive Displacement Pumps and their Application". Positive displacement pumps are more expensive than centrifugal pumps, but are better for sludge, truck loading and unloading, suction lift, viscous contents, and are easily reversible. Pump suppliers need information from wastewater operators such as pH, pressure, flow ranges, future increases, space limitations, etc. before they can properly advise you on the type of pump needed for different parts of your plant.



The third presentation was by Mr. Jon Neuenschwander from Vogelsang titled, “Grinders and Macerators”. This presentation compared the operation, construction, and maintenance between traditional twin shaft grinders and roto-cut macerators. “Grinders cut like a chain saw and macerators cut like scissors.” The blade designs from Vogelsang are unique because they are a monolithic blade machined out of a solid block of steel, rather than a blade-spacer-blade-spacer design. The presentation helped educate us on which situations are better for either a grinder or a macerator.

The last presentation was by Alex Fasto and Alex Daijogo, both from the City of Galt, titled “Upgrade at the Galt WWTP for Nitrogen Removal.” The City of Galt operates a 1.7 MGD Oxidation Ditch type plant for a population of 25,000. Simple changes made to add VFD’s, a new surface aerator to the plant, and adding real time ammonia and nitrate probes have allowed plant operators to optimize the nitrogen removal. Settling in the plant increased by adding more dissolved oxygen. Monitoring the dissolved oxygen more frequently and using ORP probes has also helped track trends in the aeration process control. Fixed deflectors were installed ahead of the new probes to keep the rags from collecting on the probes. The upgrades have resulted in 100% compliance at the plant for the past 2 years.



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Training Day Report, Oroville, Ca, July 17, 2018 (continued)

The tour at Bolt's Antique Tool Museum began with a brief presentation by "Bud" Bolt. Mr. Bolt (yes, that's his real name) began working in the tool business as a Snap-On tool salesman. He started collecting old tools as a way to keep student's attention in the high school shop classes that he visited. A small collection of about a dozen tools began a lifelong passion which became the museum. Mr. Bolt believes that the single most important development in human history is our ability to create and use tools. He even passed around one of the original "Ford Fixers", which was the tool that fit every bolt on the Model T Ford. Next time you are in Oroville, it's worth your time to visit the museum at 1650 Broderick Street.



IT'S AWARD NOMINATION TIME AGAIN! Due Oct 31st.

- 1) Visit the website awards.cwea.org
- 2) Find Category information
- 3) Click APPLY button on category page
- 4) *Log in using the same credentials as MyCWEA.org*
- 5) Fill Out Application
- 6) Click **Save and Finalize** to submit

We also have a video that folks can watch. <https://www.youtube.com/watch?v=dxgECPfQdqs&feature=youtu.be>

Collection System of the Year

Given in recognition of outstanding maintenance programs, regulatory compliance and safety & training procedures. Awards are given in three categories: Small, Medium and Large.

Collection System Person of the Year

Recognizes an individual for their innovation and excellence in collection systems maintenance.

Community Engagement & Outreach Best Use of Social Media
Recognizes achievements in promoting awareness and understanding of water quality issues through the use of social media.

Electrical Instrumentation Person of the Year

Recognizes significant contributions to the field and an individual's contribution to CWEA.

Engineering Achievement

Recognizes outstanding projects by an individual, group or agency.

Laboratory Person of the Year

Recognizes involvement in projects that advance the science of laboratory technology and an individual's contributions to CWEA.

Mechanical Technician of the Year

Recognizes outstanding performance, dedication to the job, and for sharing knowledge of maintenance procedures.

Operator of the Year

Recognizes outstanding contributions to the operations of wastewater treatment facilities and the application of knowledge to improve plant processes.

Outstanding Young Professional of the Year

Recognizes professionals who demonstrate excellence in the profession and are under the age of 35.

P3S Person of the Year

Recognizes P3S professionals for exceptional achievement and contribution to the profession while being an active member of the CWEA.

Plant of the Year (Small, Medium, Large)

Recognizes accomplishments in compliance, innovative practices, cost effectiveness, and superior plant performance in small, medium and large categories.

Research Achievement

Recognizes outstanding engineering research by an individual, group, or agency.

Safety Plant of the Year

Awarded in three categories: small, medium and large. Criteria include number of injuries, lost-time accidents, record keeping, in-house training, emergency response and program implementation.

<https://cweaawards.secure-platform.com/a/page/awards>

Additional Local Section award categories:

- Outstanding Service Award
- Inspirational Award
- Lifetime Achievement Award
- Secretary of the Year

(See next page)Bri

Northern Sacramento Valley Section – CWEA

2018 Individual Award Nomination Form

- ☐ Outstanding Service Award-*NSVS Award*
- ☐ Inspirational Award-*NSVS Award*
- ☐ Lifetime Achievement Award-*NSVS Award*
- ☐ Secretary of the Year-*NSVS Award*

Nominations must be e-mailed by Monday, October 31, 2018

to the address below.

All nominees must be members in good standing of the Northern Sacramento Valley Section of CWEA.
Secretary does not need to be a NSVS or CWEA member

Name of Nominee: _____ Title: _____

Employer: _____

Address: _____

Phone Number: _____

Nominator: _____ Title: _____

Employer: _____

Address: _____

Signature: _____ Phone Number: _____

- **On an attachment describe why this person/agency qualifies to receive this award. Use specific examples whenever possible. Attach any supporting information.**

**E-mail
Applications to:**

**Brianna Barton
Carollo Engineers**

**E-mail: BLBarton@carollo.com
Phone: (916) 576-4718**



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*Per *Engineering News-Record*, April 25/May 2, 2016, "Top 500 Design Firms" ranking.

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JOB ANNOUNCEMENTS found on www.CAWaterJobs.org

Posted August 21, 2018

Instrumentation Technician

City of Healdsburg

Healdsburg, CA, USA Full Time
Compensation: \$7,055 to \$8,608 Monthly
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Utility Worker II

City of Healdsburg

Healdsburg, CA, USA Full Time
Compensation: \$4,980 to \$6,077 Monthly
plus excellent benefit package

Wastewater Electrical/Mechanical Worker I/II

County of Nevada, CA

Nevada City, CA, USA Full Time
Compensation: \$50,044 to \$67,496 Annually




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2218 Railroad Avenue
Redding, California 96001

voice 530.243.7234
fax 530.243.7494

info@basiclab.com

Posted August 29, 2018

General Manager

Reclamation District No.1000

Sacramento, CA, USA Full Time

Compensation: \$11,021 to \$15,216 Monthly



Posted August 31, 2018

Inventory Control Specailist

Tahoe-Truckee Sanitation Agency

Truckee, CA, United States Full Time

Compensation: \$4,933 to \$5,729 Monthly



Posted August 29, 2018

Sanitation District Laboratory Quality Assurance Officer

Sacramento County

Sacramento, CA, USA Full Time

Compensation: \$6,062.16 to \$7,368.90 Monthly



Posted August 31, 2018

WWTP Senior Operator



City of Davis

Davis, CA, USA Full Time

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G.J. (Jim) Billings III, PE
President

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Posted July 10, 2018

Electrical Technician

City of Chico

Chico, CA, USA Full Time

Compensation: \$53,185 to \$71,260 Annually

The City of Chico offers a wide range of desirable employee benefits.

Posted August 16, 2018

Environmental Compliance Inspector I/II



El Dorado Irrigation District

Placerville, CA Full Time

Compensation: \$24.94 to \$33.50 Hourly

Environmental Compliance Technician



Sacramento Suburban Water District

Sacramento, CA, USA Full Time

Compensation: \$26.17 to \$31.99 Hourly

Final Filing Date: Monday, September 10, 2018, at 4:00 p.m.



Posted August 20, 2018

Hydro Engineer – Electrical

Yuba Water Agency

Dobbins, CA, USA Full Time



CA LIC# 935878

NV LIC# 74681

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Business Development Manager

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Advertisements in the bi-monthly Northern Sacramento Valley Section (NSVS) "Barscreen Bee" newsletter may be purchased for:

\$75 per year for a business-card size advertisement,

\$150 per year for a half page advertisement (8.5 x 5.5 inches), or

\$300 per year for a full page advertisement (8.5 by 11 inches).

APPLICATION (check one):

NSV Advertisement for \$75/year _____ or \$150/year _____ or \$300/year _____

DATE: _____

NAME _____

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TITLE _____

MAILING ADDRESS _____

CITY _____ **STATE** _____ **ZIP** _____

PHONE _____

E-MAIL ADDRESS _____

Submit application and payment to the NSVS Secretary/Treasurer:

Ms. Briana Barton, P.E.

Carollo Engineers, Inc.

2880 Gateway Oaks Drive, Suite 300, Sacramento, CA 95833

D: 916-576-4718, C: 530-391-5805,

Email: BLBarton@carollo.com

Make checks payable to: NSVS CWEA

**Enclose a business card or submit electronic advertisement (jpg, gif, or pdf) to the Newsletter Editor at:
Newsletter.Editor.CWEA.NSVS@outlook.com.**