



January 2025

BARSCREEN BEE

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



<http://nsvs.cwea.org/>

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

CWEA Northern Sacramento Valley Section Annual Awards Banquet

Saturday, February 22, 2025

Rolling Hills Casino

2655 Everett Freeman Way

Corning, CA 96021

5:00 –8:00 pm

Retro pricing! \$25.00 Per Person

RSVP now using link below.

After you RSVP, you will receive a separate email
from our treasurer (email address shows as
"CWEA-NSVS (via Clover)" to process the
payment.

5:00 No-Host Cocktails

5:30 Opening Program

6:00 Dinner

6:30 Award Presentations

7:15 Installation of Officers

7:30 Door Prizes - Of Course,
Additional Prizes Always Welcome

CWEA NSVS - 2025 Annual Awards
Banquet RSVP



Please RSVP by WEDNESDAY, FEBRUARY 12, 2025

Here is the link to the **banquet registration**, or scan the QR
code above: <https://forms.microsoft.com/r/3SQA2pajtE>.

Note: We are obligated to pay for every dinner reservation submitted.
Please inform us immediately if you need to change your reservations.

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Training Day Summary from Williams, CA , Nov 13, 2024

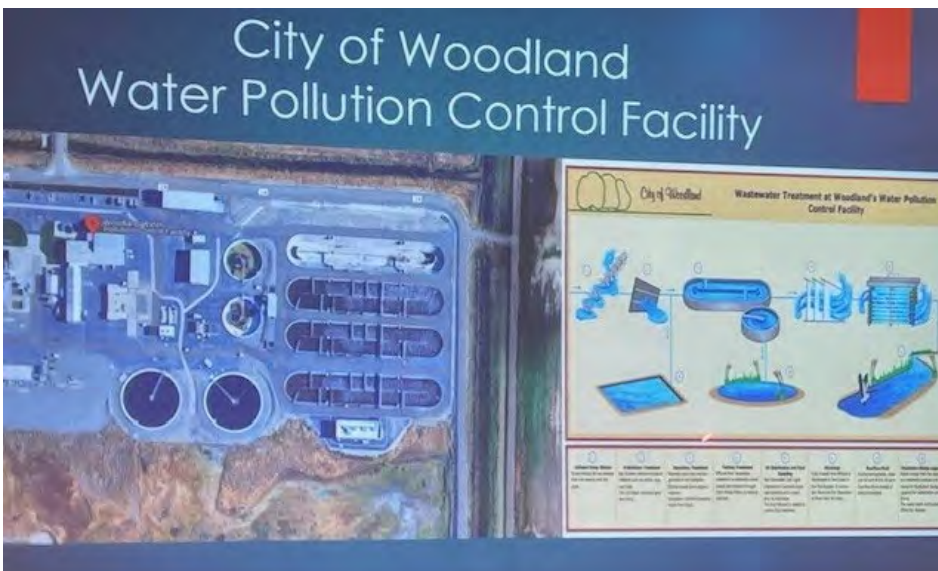


Rianna Laughridge from City of Woodland opened the morning training session with a discussion about the journey to become a wastewater treatment plant operator. She described the history of wastewater treatment dating back to the Indus Valley and Mesopotamia creating drainage channels and cesspits. Ancient Rome created the Cloaca Maxima wastewater and stormwater drainage system to move water from the city to the river. Even in modern times, 80% of wastewater world-wide is discharged **WITHOUT TREATMENT**! It is calculated that there are 1.7 million deaths annually, that could be prevented with adequate wastewater treatment. Rianna became interested in this career due to her passion for travel and scuba diving. She was seeing real-time evidence of damage to coral reefs because of untreated wastewater discharges.

The path to becoming a wastewater treatment operator has taken her from volunteering at the Easterly plant in Vacaville, to a temporary position in Woodland, to a position in Pacifica, and back to wastewater treatment in Woodland. She studied the Operator Certification Requirements Pathways chart and found that she could use education credits to her advantage to take higher level operator certification exams faster.

Mr. Josh Vieira spoke about the design and operation of the City of Woodland's wastewater treatment plant. The plant's rating changed from a Grade 4 to a Grade 5 plant due to increased treatment capacity, even though the actual flow has gone down over the years due to inflow and infiltration repairs and water conservation. Woodland now has disk fabric filters and a UV disinfection system. He mentioned that the UV system is more time intensive than traditional chlorine and sulfur dioxide, but is much safer for the staff and the nearby community.

Mr. Vieira also spoke about his wastewater treatment operations career path. He worked his way up from the collection system and a part time wastewater treatment operator into a Grade 5 supervisor of the plant. Mr. Vieira began wastewater operations in the 1990's at Cache Creek Casino, transferred to Woodland for a few years, worked in Marysville for over a decade, and moved back to Woodland in 2012 as a Grade 3 operator. Mr. Vieira encouraged everyone in the audience to continue to grow their knowledge of this career field.



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Training Day Summary from Williams, CA , Nov 13, 2024



Mr. Dennis Gordon of Peterson CAT spoke about Emergency Stand-by power for water and wastewater facilities. Generators are typically fueled by diesel or other fuel oils and require regular maintenance and inspections. One option for cities to maintain generators and the associated power transfer switches is to enter into a service agreement with a generator provider. The service providers typically perform

inspections, load bank testing, battery evaluations, oil sampling, coolant sampling, and additional inspections to ensure that the generator is going to function when it is needed. He mentioned that one cause of generator failure is rodent intrusion into the warm environment provided by the block heaters, where rodents can chew on the wiring and damage the system. Many companies provide rental generators and other emergency equipment such as transfer switches, air compressors, cable bridges, spill containment, boilers, dehumidifiers, A/C chillers, etc.

Some companies also provide re-fueling service while generators are running and offer 24/7 emergency service. It is best to know your options and work with a service provider before the emergencies occur!



The third speaker of the day was Mr. Kwin Peterson, with RH Borden, on Inflow and Infiltration monitoring with high density sensor networks. Mr. Peterson discussed flow monitoring equipment that does not require confined space entry. Monitoring software is available that integrates with city GIS information to locate the areas with the worst inflow and infiltration. Software reports identify the areas of town that need the most attention. The sensing equipment is cost effective with many battery systems lasting for 5 years. The software to access the

system is web-based. The sensors can provide graphs to chart the flow in the sewer versus the flow in a rain gauge to determine if flow increases correlate with rainfall. An inspection was demonstrated using a VR headset to view the status of a sewer line. As an additional challenge, audience members were asked to count the number of cockroaches in the video, which are common in sewer systems.



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Training Day Summary from Williams, CA , Nov 13, 2024



A tour of the Morning Star tomato paste factory concluded the training day in Williams, CA. The factory is one of the largest producers of bulk tomato paste in the world. The factory operates during the tomato harvest season and performs equipment maintenance and upgrades during the off-season. The factory irrigates 1000 acres of adjacent tomato fields with its process water.

This was an impressive facility in both size and scope. The number of customers who purchase the Morning Star tomato paste is huge and includes common brands of ketchup, soup, pasta sauce, and other food products that we all consume on a regular basis!



The factory can process 800 million pounds of tomato paste per year! When you see trucks of tomatoes driving down the frontage road adjacent to I-5 south of Williams, think of Morning Star.

WE ARE ON FACEBOOK

The CWEA Northern Sacramento Valley Sections is going to begin posting events on its Facebook page:

<https://www.facebook.com/cweansvs>

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Northern Sacramento Valley Section CWEA

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Job Postings around the Northern Sacramento Valley

Lewiston Community Services District

<https://lewistoncsd.specialdistrict.org/job-opportunity>

☞ Water/Wastewater Operator- Career Opportunity in Trinity County, CA. Lewiston, an historic gold rush town on the Trinity River is looking for a water/wastewater treatment operator to serve as General Manager. Full-time position with compensation of \$40 -\$50 per hour depending on certification. Minimum required California certifications: Distribution D1; Water treatment T2; Wastewater operator grade 3, or grade 2 and willing to obtain grade 3 within 18 months. Lewiston just completed new state-of-the-art drinking water and wastewater treatment facilities.



Jacobs:

☞ [Instrumentation & Controls Systems Design Engineer](#)

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☞ [Mid-Level/Senior Instrumentation & Controls Systems Design Engineer](#)

Redding, California, United States | 19123 | Water | Project Controls | Multiple locations

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☞ [Water/Wastewater Engineer \(All levels Entry through Senior\)](#)

Responsibilities (vary dependent upon hiring level): EIT: - Serve as an engineer on the planning, design, construction, and/or commissioning of water and wastewater treatment projects of various sizes - Perform data entry and analysis -

City of Redding: <https://www.governmentjobs.com/careers/reddingca>

☞ Technical Intern (Public Works/ Wastewater Laboratory), \$16.50 - \$21.06 Hourly

The ideal candidate should be enrolled in college classes related to biology, chemistry, or other lab sciences.

☞ Associate Civil Engineer/Assistant Engineer (Design)

Salary \$83,724 - \$141,108 Opening Date 09/17/2024 Closing Date Continuous

☞ Public Works Maintenance Worker, Opening Date 1/9/2025 continuous recruitment Regular Full-Time Positions \$29.61 - \$31.09 per hour

Temporary Full-Time /Part-Time Positions \$20.11 - \$22.80 per hour

City of Chico: <https://www.governmentjobs.com/careers/chico>

☞ Associate Engineer, Salary \$98,113 - \$131,476 Closing Date 2/9/25, Department Public Works Engineering

City of Davis: <https://www.governmentjobs.com/careers/davis>

☞ Public Works Maintenance Worker I/II (Fats, Oils & Grease (FOG) Inspector), \$21.30-28.48/hr, temp part-time

☞ Public Works Maintenance Worker I/II - Temporary Part-Time (TPT), \$23.58—31.53/hour, temporary part-time

City of Dunsmuir <https://www.ci.dunsmuir.ca.us/employment>

☞ Lead Maintenance Worker, Public Works

☞ Maintenance Foreman, Public Works

☞ Lead Wastewater Treatment Plant Operator

Call for salary info. Job description is on the website.

City of Woodland <https://www.calopps.org/city-of-woodland>

☞ Treatment Plant Mechanic Operator in Training/Treatment Plant Mechanic, Wastewater Treatment \$5852 - \$7846/month (\$70224-\$94,164/year) Closes 2/18/25

A butterfly with brown, white, and blue wings is perched on a stone ledge in the foreground. In the background, a dense city skyline with various skyscrapers is visible under a clear blue sky. The text "We see the bigger picture." is centered in the upper half of the image.

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\$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).

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