



Sharing Technologies Together

May 2024 Monthly Meeting

Date: Tuesday, May 14th, 2024

Time: 11:00 a.m. – 1:00 p.m.

Meeting Location:

Brown and Caldwell

201 N. Civic Drive, Ste 300

Walnut Creek, CA 94596

925-937-9010

Meeting Agenda Items

11:00 a.m. Business Meeting

- Announcements
- April Meeting Recap
- Financial Update
- Open Forum: Project Discussions, Industry News, Questions, etc.

11:30 a.m. Lunch

12:00 p.m. Presentation Begins

1:00 p.m. Adjournment

[Click Here to RSVP](#)

Presentation Topic

“The Revolution in Pipeline Installation”

Presenter: Amster Howard

The presentation will include a discussion of the significant improvements in the construction of buried pipe. The AWWA Manual M55 provides the best summary of these changes and serves as the best reference. Example topics include uncompacted bedding, an uncompacted zone over the top of the pipe, and uniform terminology.

Meeting Questions

Contact: Adam Brown, Hazen and Sawyer

Phone: 831-521-9623

Email: PUGnorcal@gmail.com

Web: www.norcalpug.com

Upcoming PUG Events

June 11, 2024

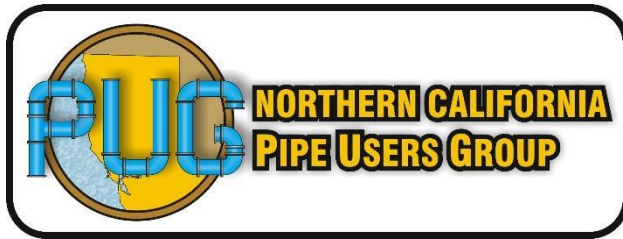
All About Bypassing (Rain for Rent)

July 9, 2024

Hot Taps and Line Stops (Steve Helm, Tap Master)

August 13, 2024

Geotechnical Engineering for Pipelines (Su Soe and Patrick Lam, Delve Underground)



MEETING MINUTES

April 9, 2024

In-Person Meeting

Attendees:

Name	Company	Email Address
Aaron Terrell	ACWD	Aaron.Terrell@acwd.com
Adam Brown	Hazen and Sawyer	abrown@hazenandsawyer.com
Alan Velasquez	ACWD	alan.velasquez@acwd.com
Alexandra Watson	HydroScience Engineers	awatson@hydroscience.com
Benjamin Ricketts-Mann	EBMUD	bmann@ebmud.com
CAMREN SAVILLE	RAIN FOR RENT	csaville@rainforrent.com
Daniel Milburn	Rain for Rent	Dmilburn@rainforrent.com
Diego Soto Lopez	Central San	dsotolopez@centralsan.org
Dorothy Bechler	Central San	dbechler@centralsan.org
Dru Nielson	Delve Underground	nielson@delveunderground.com
Dustin Rainey	Jacobs	dustin.rainey@jacobs.com
James Kohne	W&C	jkohne@woodardcurran.com
James Rabang	SASD	rabangj@sacsewer.com
Jane Hou	Mott MacDonald	Jane.Hou@mottmac.com
Jason Fitch	Central San	jfitch@centralsan.org
Joe Heavin	Shannon & Wilson	joseph.heavin@shanwil.com
Jordyn Doyle	MNS Engineers	jdoyle@mnsengineers.com
Kevin Randeni	Central San	krandeni@centralsan.org
Kyle Gourley	Carollo Engineers	kgourley@carollo.com
Landon Lochrie	CVSan	ironloch@gmail.com
Lisa Zou	Centralsan	lzou@centralsan.org
Maksim Tsakke	SASD	tsakkem@sacsewer.com
Mike Scholz	JCM Industries Inc	mscholz@jcmind.com
Molly Wedel	EBMUD	mwedel@ebmud.com
Nancy McWilliams	Solano Irrigation District	nmcwilliams@sidwater.org

Minutes by Adam Brown, Hazen and Sawyer
Secretary, Nor Cal PUG

Page 1 of 4

***The information disseminated on behalf of industry individuals/organizations via PUG is not necessarily the opinion of PUG, nor has PUG verified comprehensiveness or validity of the information. ***

Nicolas West	ACWD	nicolas.west@acwd.com
RAYMOND RAMIREZ	EBMUD	raymond.ramirez@ebmud.com
Rosie Delgado	Central San	rdelgado@centralsan.org
Sasha Mestetsky	CCCSD	smestets@centralsan.org
Scott Wheatley	AECOM	scott.wheatley@aecom.com
Thai Hill	EBMUD	thai.hill@ebmud.com
Andrew Baltay	Delve Underground	baltay@delveunderground.com
Derek Shields	Primus Line	Derek.shields@primusline.com
Dustin LaVallee	EBMUD	Dustin.lavallee@ebmud.com
Chris Tran	EBMUD	Chris.tran@ebmud.com
Sam Lam	EBMUD	Samuel.lam@ebmud.com
Nathaniel Johnson	CVSan	nathaniel@cvsan.org
Ashley Stalf	EBMUD	Ashley.stalf@ebmud.com
Sarah Rahimi	EBMUD	Sarah.rahimi@ebmud.com
Bryan Perkins	CCWD	

Announcements and General Business:

Nancy opened the meeting and conducted the group’s business.

1. Nancy reminded people about PUG membership renewals coming up in July.
2. Nancy announced that monthly speaker slots are booked through January 2025 but we will always entertain requests to schedule presentations into the future.
3. Nancy made an announcement about upcoming Board elections in June
4. Upcoming conference dates:
 - a. CWEA Annual Conference (AC24) April 9-12, 2024, Sacramento, CA
 - b. NASTT No-Dig Show, April 14-18. 2024, Providence, RI
 - c. NASSCO Conference - April 17-19, New Mexico
 - d. AWWA Annual Conference (ACE 24) June 10-13, 2024, Anaheim, CA
 - e. ASCE UESI Pipelines Conference, July 27-31, 2024 Calgary, Canada
 - f. WEFTEC, New Orleans - October 5-9
 - g. PUG Training Day – October 17 (topic TBD)

Announcements:

1. No announcements from the group.

Dustin La Vallee provided a recap of the March meeting minutes.

Alexandra Watson provided the financial summary report. The current total in the organization account as of March 30, 2024 was \$90,638.69.

Project Discussions:

1. PVC pipe quotes seem to be coming down.
2. Kickoff for EBMUD aqueduct re-coating project is happening soon.
3. Castings are still taking a long time to come from foundries.
4. There was a question related to chlorine content thresholds that may be beneficial to protecting cement mortar linings in recycled water pipes. 10-year old pipes are seeing lining degradation due to higher chlorine concentrations.

Presentation:

“Primus Line FFRP System for Pressure Pipe Rehabilitation,” Presenter: Derek Shields, Primus Line.

Overview:

Primus Line is an innovative trenchless technology for pipe rehabilitation, offering a flexible fabric reinforced pipe system that allows for the rapid and cost-effective repair of damaged pipelines without the need for extensive excavation. It is widely used in various industries, including water, gas, and oil, to extend the life of existing pressure pipeline infrastructure while minimizing environmental impact and disruption to the surrounding area.

Highlights from the presentation include:

1. Primus Line is based in Germany; presence in the US for 13 years
2. No product failures documented in the US
3. Showed a video of the overview of the product and an overview of the manufacturing process
4. Provided an overview of the connector and connector installation process
5. Provided case studies of installations and other installation videos
6. Provided a chart of available sizes and pressures
7. Described the difference between low, medium, and high pressure products
8. Testing has been performed by oil and gas industry and believes the product to have a 50 to 100 year service life.
9. Product can be used on pipes strapped to bridges and in challenging environmental/traffic environments.
10. Product is de-rated at bends in the host pipe depending on the size of the pipe and degree of bend deflection.
11. Product does not interact with the host pipe but is not a fully structural solution (AWWA Class IV). Primus Line is working on developing other standards and requirements that are not yet available.
12. They are working on developing a repair kit for emergency repairs.
13. Agencies need to be a certified installer if they want to do the work themselves.
14. Approximate budgetary material costs for 12-inch liner can be around \$80 to \$90 / LF

Videos of product installation are available on YouTube:

<https://www.youtube.com/@RaedlingerPrimusLine>

Next Meeting:

The next general meeting is scheduled for Tuesday, May 14th, 2024 and will include a presentation by Amster Howard titled "Revolution in Pipeline Installation. The presentation will provide an overview of the significant improvements in the construction of buried pipelines, highlighting the summary of changes provided in AWWA's Manual M55 as well as concepts related to uncompacted bedding, uncompacted zone over the top of the pipe, and uniform terminology. The May meeting will be held in-person at Brown and Caldwell's offices located at 201 North Civic Drive, Suite 300, Walnut Creek, CA 94596.

Please call Adam Brown at 831-521-9623 or email pugnorcal@gmail.com for additional information on this month's meeting minutes.