



MEETING MINUTES

March 10, 2026

In-Person Meeting

ATTENDEES: See Attachment 1 for copy of attendee list

Announcements and General Business:

Dustin opened the meeting and provided the following announcements.

1. Participant introductions
2. Reminded the group about signing up for monthly presentations.
 - a. Membership is \$400 per organization, and you can send as many people as you want to monthly meetings. Membership also provides a link to your firm on our website and reduced fees for our annual training in the fall and our annual seminar in February.
3. Call for PUG Monthly Presentations
If you'd like to present, we are scheduling We are currently scheduling presenters beginning September 2026.
4. PUG BOD Nominations
We will be looking to fill in the Communications Officer and Representative At- Large Roles for the beginning of FY27. Positions will be for two-year terms (July 2026 to June 2028). Positions then move to the next position on the BOD. Nominees must be with an agency or consultant (one nominee per agency/company). Announcements should be going out in late April with nominations due in late May.
5. Upcoming conference dates:
 - a. No Dig Conference - Palm Springs, March 29 - April 2 (Municipal Scholarship deadline - 11/1)
 - b. AWWA CA NV - Water Conference of the West - 4/6-4/9
 - c. CWEA Annual Conference - Sacramento, CA - April 7-10, 2026.
 - d. AWWA ACE - June 21-24, 2026 - Washington DC
 - e. ASCE Pipelines - August 1-5, 2026 - Detroit Mi
6. James Kohne provided a recap of January monthly presentation (Bryan Perkins from Contra Costa Water District, and Alex Baranoff from Con-Quest Contractors presented on the Critical Pipeline Repair: Ensuring Water Reliability for Remote Treated Water Customers).
7. Alexandra provided financial summary report. Total Balance at the end of February 2026 was \$103,907.60.

Attendee Announcements and Project Discussions:

- Someone asked about pipe bursting contractors
Glosage Engineering was mentioned as one of the contractors
- Question about CIPP UV Curing Specs request for the Bay.

Minutes by Alexandra Watson, HydroScience Engineers
 Vice Chair, Nor Cal PUG

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- There was a discussion about several projects that were primarily UV curing in Los Angeles, Oregon and Maryland projects.
- Discussion of various CIPP projects among the attendees.
- Cindy P. Suggestion to specify U.V and steam, hot water cure so contractor has an option competitive price during bid.

Presentation:

“Lesson Learned from Public-Facing Large Diameter CIPP Interceptor Rehabilitation”, by Adam Mansour (EBMUD).

Overview:

EBMUD and its contractor SAK rehabilitated a 66-inch RCP interceptor in the 2025 dry weather season. The project was in the City of Emeryville, and the interceptor runs under the eastbound I-80 shoulder. The interceptor was rehabilitated with Mainstay, a 12 MGD bypass system was required for the rehabilitation. This presentation will review lessons learned and go over lesser encounter situations, like what to do when your CIPP liner catches on fire.

Highlights from the presentation include:

1. Overview of Wastewater Interceptor
 - a. Serves 740 K people (Cirrito/ Albany/ Emeryville)
 - b. 88 square miles
 - c. Average daily flow of 60 MGD
 - d. Majority of the interceptor for repair located under Freeway I-80
 - e. Nearest intersection was Powell Street
 - f. Covering freeways
 - g. Other public impacts, business, residential and industrial within the vicinity of the project.
2. Rehabilitation
 - a. 2,500-Feet 66-inch diameter RCP with CIPP
 - b. 5 manholes rehabilitated with mortar-epoxy lining system.
 - c. 15 MGD bypass system with (2) 18” HDPE lines
 - i. Main pumps: 2 duty, 2 standby, 1 ragging
 - ii. 3 auxiliary stations: 1 duty, 1 standby
3. City did not have an easement but so a construction easement permit was Required.
4. Design two technics were considered sliplining and CIPP:
 - a. Sliplining
 - i. Cons: this option required large access pits and bending radius limitations. An insertion pit was at Powell Street and ramp was not ideal situation.
 - ii. Pros: Weather independent
 - b. CIPP
 - i. Cons: Bypass required, weather dependent
 - ii. Pros: Smaller access points, continuous structural liner
 - iii. Water curing
5. Selected Method CIPP:

- a. One lane was closed for the duration of project near Powell intersection
 - b. Require a Bypass pit near Powell Street (insertion pit).
 - c. The bypass pipe was along surface except buried at Powel Street where a trench was required to prevent traffic disruptions.
 - d. 5 pumps for bypassing and 5 auxiliary pumps available for bypassing.
 - e. properties were impacted by the project
 - f. Suction pit was located on the north side (near 64th Street).
 - g. CIPP liner divided into two segments: Shot 1: 1,800-feet and shot 2: 700-feet.
 - h. SAK Construction, JMB - Civil, Sunbelt – Bypass, H&R Manhole Rehabilitation.
 - i. \$9.8 Million.
 - j. Key Stakeholders City of Emeryville, Caltrans, 10 private properties: 3 required temporary construction easement.
6. **Challenges:**
- a. Constant irrigation leaks onto Powell St.
 - b. Repeated coordination with City to address public concerns
 - c. Lessons Learned: always request private property maintenance contact information.
7. Challenges Differing Site Conditions
- a. Unforeseen 30" pipe discovered halfway into the excavation was not in the as-builts or USA markings – at the end it was a SD own by Caltrans.
 - b. Further Coordination with Caltrans for temporary removal and replacement of the 30" pipe segment.
 - c. Silt issues, Tidal flows, removal and new problems discovered
 - d. New issues: additional 9 miscellaneous utilities (6 abandoned and 3 active) and interceptor and tunnel locations off by several feet and further than expected, shoring was extended near the fence line. (Shoring -re-review required)
 - e. Change orders: ~ \$550 k
 - f. Delay: 4 weeks total
 - g. Lessons learned start early or set milestones, utility locations in Caltrans R/W.
8. Failed Liner
- a. Liner failed on shot 1 (stitching)
 - b. Liner removed into workable pieces for curing
 - c. Failed liner staged at unoccupied building
9. Liner Combustion
- a. Liner self-ignited at 3:00 A.M: fire was self-mitigated by SAK, SAK had 24-hour for water mitigation for precaution, did not make the news in the morning or social media.
 - b. Reason: friction when removing the liner and curing fumes self-ignited
 - c. Public Impact and several minor fires of CIPP.
 - d. Steps: moved the burnt liner offsite to staging area EBMUD wastewater treatment site 100 feet away from staff building but smoke and fumes continued at facility and employees were affected. Employees complained of fatigue, dizziness, and nausea.
 - e. First step was to mitigate odor: One solution was to cure liner so it would stop the fumes. Adding charcoal filter in the HVAC system which helped.

- f. How to cure the removed and burning liner. (normally liner is cured at a facility or a control station in the project site).
 - g. Spread the burnt liner into segments and burn with butane torches so they will cure and stop the fumes, it only worked for 15% of liner.
 - h. Another mitigation approach to stop the fumes was to steam the bags of burnt liners which worked.
 - i. Also, odor was monitored during curing and after curing at EBMUD site: to check for styrene odor, two monitors to measure odor at EBMUD building and outside building where the burnt liner was cured before disposal.
10. Finally, the liner was successfully installed.
11. Challenges for Manhole Rehabilitation
12. Composite mortar-epoxy lining
13. Specifications requirements,
14. Pull test results: issues:
- a. Inadequate preparation
 - b. Existing manhole issue.
 - c. Pull test
 - d. Square test
 - e. Re-prepped areas with more rigorous QC and hold points
 - f. Test resulted below the specified parameters but were for most part better than the initial result.
15. Conclusion:
- a. Lessons Learned:
 - i. Start early or set milestones and incentive to start sooner
 - ii. Utility location in Caltrans R/W
 - iii. Set QC hold points during manhole rehabilitation
 - b. Recommendations:
 - i. Coordinate early and often with public, private properties, and agencies
 - ii. 24/7 inspection.

Next Meeting:

The next general meeting will be at the Brown & Caldwell office on Tuesday, April 7th, 2026. The presentation is titled, "Hybrid Designs for FRP and Steel Pipe Systems for Cost-Effective Irrigation Infrastructure" and will be presented by Sanaz Ghalambor from Thompson Pipe.

Please email pugnocal@gmail.com for additional information.

SIGN IN SHEET
MEETING DATE: Jan 13, 2026

**Attendees:**

No	Name	Agency/Company	Email Address	Present?
1	Alexandra Watson	HydroScience Engineers	awatson@hydroscience.com	✓
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