



**MEETING MINUTES**  
**August 11, 2015**

**Attendees:**

Andrea Bautista	Oro Loma Sanitary District	abuatista@oroloma.org
Andrew Peters	City of Pittsburg	apeters@ci.pittsburg.ca.us
Andy Sterling	Underground Solutions	asterling@mobilepipe.net
Antonio Martinez	EBMUD	amartine@ebmud.com
Bill Chavez	SRCS	chavezb@Sacsewer.com
Bill Miller	City of Sacramento	bmiller@cityofsacramento.org
Bob Allen	CDM Smith	allenrob@cdmsmith.com
Bryan Bollardo	City of Pittsburg	bbollardo@ci.pittsburg.ca.us
Cindy Preuss	HydroScience Engineers	cpreuss@hydroscience.com
Don Wible	Nor-Cal Pipeline	don@norcalpipe.com
Freddy Rivera	City of Pittsburg	frivera@ci.pittsburg.ca.us
Hank Williams	EBMUD	hankw@ebmud.com
Jimmy Dang	Oro Loma Sanitary District	jdang@oroloma.org
Justin Waples	CCCS	jwaples@centralsan.org
Kevin Kai	Brown & Caldwell	kkai@brwncald.com
Kirk Meyer	Hatch Mott MacDonald	Kirk.Meyer@hatchmott.com
Kyle Carbert	Harris and Associates	kcarbert@harris-assoc.com
Michael Heaton	Black & Veatch	HeatonMI@bv.com
Nick Lazarakis	Kennedy/Jenks	nicklazarakis@kennedyjenks.com
Oliver Pohl	V&A	opohl@vaengineering.com
Rob Craw	Underground Solutions	rcraw@undergroundsolutions.com
Rob McMullin	EBMUD	rmcmulli@ebmud.com
Ryan Wade	ADS Pipe	Robert.latimer@ads-pipe.com
Sean Williams	City of Pittsburg	swilliams@ci.pittsburg.ca.us
Sonia Lopez	City of Sacramento	slopez@cityofsacramento.org
Stu Williams	City of Sacramento	swilliams@cityofsacramento.org
Thomas Vedder	P&F Distributors	tom@pfdistributors.com

**Presentation:** “East Bay Municipal Utility District’s Experience with Premature Failure of Copper Laterals” by Antonio Martinez of EBMUD.

***Highlights from the presentations include:***

Mr. Martinez said that the long standing myth that copper tube is resistant to corrosion has been based on the service life of copper service laterals connected to cast iron water mains which rarely corrode because the copper is a more noble metal than the iron, the corrosion cycle preferring the cast iron water main first. However, as cast iron water mains are replaced with non-metallic water mains, the copper tube is electrically disconnected from the other sacrificial metals in the ground.

As a result, over the last decade, EBMUD has experienced an increase in copper service line failures. Unfortunately, pinhole leaks in copper service lines rarely surface. They remain

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undetected until enough holes are formed that the leak does surface, resulting complete failure or the flow is detected using a leak detection survey.

EBMUD decided to use a subdivision that had a repeated pattern of copper service line leaks as a pilot for navigating premature copper service line failures and for creating a procedure to address these types of failures within the distribution system. Once pinhole leaks were identified by a leak survey, resources were allocated to address the failure in the three step process:

1. All leaking service lines were replaced
2. A passive corrosion system using an anode was installed at each remaining lateral, and
3. Future leak surveys was scheduled on a regular basis for the subdivision.

EBMUD conducted a search to determine how many copper service lines within the distribution system fit the same pattern as seen in the pilot subdivision, including copper laterals connected to non-metallic pipe. The data indicated that EBMUD could have upwards of 32,000 service lines at risk. EBMUD is investigating copper lateral leaks in those areas most at risk and collecting data on premature failure rate of copper laterals. In addition to costs, actual leak rates from copper pinholes are actively being gathered to aid in the root cause analysis. In addition, it was observed 90% of the leaks are on the bottom of the line.

Copper lateral replacements must now include a 9 pound magnesium anode as a passive cathodic protection system. EBMUD has also approved the use of ServiceGuard Composite Pipe (SVG), which is a CPVC-Aluminum-CPVC composite service line material as an alternative tubing product. The long term value of installing SVG instead of copper is continually being evaluated. As of June 30, 2014, EBMUD has surveyed 4,832 service lines, replaced 138 leaking service lines, and installed 1,263 anodes on non-leaking service lines.

**Handouts:** None.

Thank you Antonio for the outstanding presentation! We appreciate your help with PUG.

**General:**

**July 14, 2015 Meeting Minutes:** A motion was made to approve the minutes, which was seconded.

**Announcements:**

**2015/2016 Membership:** The 2015/2016 membership renewal forms are available and located on the PUG website: [www.norcalpug.com](http://www.norcalpug.com). Memberships cost is \$350 per entity. Membership has numerous benefits, such as discounts for courses and conferences, participation in raffles held at random monthly meetings, discounts on attending the annual seminar, etc. Get your renewals and/or new member applications in today. Payment options include Paypal or check.

**Financial Updates:** The current total in the organization account is \$41,852.53.

**ASCE Pipelines 2015 Conference:** Conference will be held in Baltimore, MD on August 23-26, 2015. Registration is now open. <http://www.pipelinesconference.org/>.

**ASCE Continuing Education:** ASCE has offered complete access to their on-demand webinars. For more information, you can go to [www.asce.org/on-demand-subscription](http://www.asce.org/on-demand-subscription).

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**NASTT Webinars:** NASTT hosts complimentary webinar series to bring you professional instruction from leading experts in the field of trenchless technology. They can be found at [www.nastt.org/webinars](http://www.nastt.org/webinars)

1. NASTT's Manhole Rehabilitation Webinar on Wednesday, September 23, 2015 from 2:00 PM to 3:15 PM EST. The registration link is coming soon.
2. Archived links are also available including NASTT's Carbon Calculator; CIPP; Condition Assessment for Watermains; Pipe Bursting, HDD, and CIPP for the Gas Industry; Sliplining Sewer Laterals; Trenchless Rehabilitation Parts 1 and 2; and Trenchless New Installation Parts 1 and 2.

**PUG hosted training course.** *Construction Law – How to Plan for a Successful Project. The course will focus more on specifications and non-technical aspects of design and construction. The course is scheduled for Friday, October 16, 2015, all day at the CCCSD Conference Room. Social event following. More information will be provided in a flyer very soon...*

**Upcoming National No-Dig Dallas, Texas.** *The conference will include 4 or 5 round table discussion. Watch for the Municipal and Public Utility scholarships.*

**WEFTEC 2015:** Registration is now open. Conference will be held on September 26 – September 30, 2015 at McCormick Place in Chicago, Illinois. For more information, visit the WEFTEC website: <http://www.weftec.org/>.

**Raffles:** No raffle was held at this meeting. Remember, raffles can happen at any meeting but you have to be in attendance to win a prize.

### **Project Discussions:**

Rob Crow noted that the City of Pleasanton has a project that includes 1,600 feet of 16-inch pipeline.

Roberts McMullin noted that the City of Oakland is ArcGIS format to monitor the locations and status of pavement projects throughout the City to maintain the pavement moratorium. EBMUD's goal is to use ArcGIS to show schedule projects to avoid conflicts with pavement and other scheduled projects.

Kirk Meyer with Hatch Mott MacDonald noted that the City of San Jose is tracking permanent pavement patching using GIS.

V&A asked if anyone has a piece of cast iron pipe to donate so that V&A could make some test blocks? If so, please email Roberts McMullin.

### **Next Meeting:**

The next general meeting is scheduled for Tuesday, September 8, 2015. The presentation topic is on "Go Ahead and Replace My Back Yard Sewer" by Nancy McWilliams of West Yost Associates. Please call Bob Allen at 925-296-8038 or email [allenrob@cdmsmith.com](mailto:allenrob@cdmsmith.com) for additional information on this month's meeting minutes.

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