



MEETING MINUTES
March 16, 2010

Attendees:

Allen Law	City of Oakland	atlaw@oaklandnet.com
Brian Chan	City of Foster City	bchan@fostercity.org
Cara Ingebrigtsen	Brown & Caldwell	cingebrigtsen@brwncald.com
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Dru Nielson	DCM/GeoEngineers	dnielson@geoengineers.com
Edgar Benitez	Ameron	edgar_benitez@ameron.com
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Glen Hungerbuhler	Mission Clay	glenh@missionclay.com
Gunawan Santoso	City of Oakland	gsantoso@oaklandnet.com
Jimmy Dang	Kennedy Jenks	jimmydang@kennedyjenks.com
Joe Parker	National Clay Pipe Institute	jparker@claypipe.com
Jonathan Lee	WVSD	jlee@westvalleysan.org
Jose Dominguez	EXARO	jd@exarotec.com
Katherine Hayden	Brown & Caldwell	khayden@brwncald.com
Keen Cook	WCWD	kcook@wcwd.org
Kevin Kai	Brown & Caldwell	kkai@brwncald.com
Kurt Vincelette	R&B Company	kvincelette@rbcompany.com
Nona Espinosa	Nolte Associates	nona.espinosa@nolte.com
Pat Symons	Gladding McBean	pat.symons@paccoast.com
Rita Cheng	CCCSO	rcheng@centralsan.org
Robert Kahl	DCM/GeoEngineers	rkahl@geoengineers.com
Roberts McMullin	URS Corporation	rob_mcmullin@urscorp.com
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Sergio Ramirez	City of Foster City	sramirez@fostercity.org
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Stan Shogren	Kennedy Jenks	stanshogren@kennedyjenks.com
Ted Hopkins	Shannon Wilson	twh@shanwil.com
Tyree Jackson	CVSD	tyree@cvsan.org
Winn Nguyen	SRCSD	nguyendu@sacsewer.com

Presentation: Anatomy of a (VCP) Pipeline Failure by Patrick Symons of Gladding McBean.

The presentation covered:

1. Case history of a local VCP construction project that resulted in the largest construction claim in the history of the VCP industry
2. Analysis of design and construction
3. Lessons learned during project

Minutes by: Roberts McMullin, URS Corporation
 Secretary, Nor Cal PUG

Page 1 of 4

Highlights from the presentation include:

1. The original project involved the following installations:
 - 2,450 LF of 27" VCP
 - 2,700 LF of 30" VCP
 - 12,550 LF of 42" VCP
 - 23 Manholes – spaced at 800'
2. In December 2001, the pipeline was tested and accepted. In February 2002, the pipeline was found full of water with many installation defects.
3. Inspection determined (i) manholes were improperly installed and accepted; and (ii) pipeline was improperly installed and accepted.
4. Construction inspection, testing, and acceptance were improper and dishonest.
5. Work to repair defective pipeline cost 46% of the original contract.
6. Lessons learned:
 - Verify experience of consultants
 - Provide independent verification of critical items (pipeline air test & manhole vacuum test)
 - Promote project communication – listen to warnings from team members
 - For manhole connections, use a VCP bell and grout in place, instead of the rubber boot.
7. Refer to the PUG website (www.norcalpug.com) for the complete presentation.

Handouts: No handouts.

Thank you Patrick for an excellent presentation!

General:

January 19, 2010 Meeting Minutes: A motion was made to approve the minutes, which was seconded and minutes are approved with no corrections.

Announcements:

2009/2010 Membership: Please submit your 2009/2010 membership renewals. Memberships cost is \$350 per entity. Remember that 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.

PUG Sharing Technologies Seminar 2010: The 18th Annual Sharing Technologies Seminar was held on **Thursday, February 18, 2010**. The seminar was a success with over 150 attendees. Thank you to everyone that helped out.

PUG Board Meeting: The PUG Board will be holding a Board meeting on Wednesday, March 24, 2010 to discuss upcoming events for 2010 and 2011. Topics will include elections, PUG Administrator transition, and field trips.

Field Trip: PUG is scheduling to have a field trip in May 2010 at the manufacturing facilities of Gladding McBean in Lincoln, California. Buses will be provided to transport members to and from the facility. Jonathan Lee will coordinate with Patrick Symons of Gladding McBean. More information will be provided once the field trip is confirmed.

SSC Webinars: SSC continues to present monthly lunch & learns, webinars, and events covering boring, drilling, and vacuum excavation applications. See www.sscboring.com/education for more information. The upcoming events include:

- Webinar: Vacuum Technology – **April 1, 2010**
- Event: Trenchless Case Studies – **June 3, 2010**
- Webinar: Horizontal Boring Conditions, Methods, and Alternatives – **July 8, 2010**
- Lunch and Learn: HDD Applications – **August 5, 2010**

UIM Webinars: The Water Utility Infrastructure Management (UIM) website hosts on-line and provides archived webinars related to water management. For more information, visit the UIM website: www.uimonline.com/index/webinars. See below for upcoming webinars:

- Effective Leak Detection Techniques – **March 25, 2010**
- Leak Detection Part 2 – **April 1, 2010**
- Finance and Funding – **June 1, 2010**
- Asset Management – **August 1, 2010**

Trenchless Technologies Webinars: The Trenchless Technologies website hosts on-line webinars related to the trenchless industry. For more information, visit their website at: <http://www.trenchlessonline.com/index/webinars>. See below for upcoming webinars:

- Structural Rehab of a Water Main (Case Study) – **March 30, 2010**
- Pipe Bursting – **April 1, 2010**
- Do-It-Yourself Solutions – **May 1, 2010**

NASTT No-Dig Show: The 2010 NASTT No-Dig Show will be held in Chicago, Illinois during **May 2 – 7, 2010**. The PUG Board will be attending this year. Auction items will be purchased to help college students and provide raffle gifts for future PUG events. For more information, visit <http://www.nodigshow.com/>. We hope to see you there...

McElroy University: McElroy University is offering training classes on small diameter fusion machines, mid-range fusion machines, large diameter fusion machines, and tracstar machines. Visit <http://www.mcelroy.com/fusion/training/index.htm> for more information.

PPIC Free Poster: The Pressure Pipeline Inspection Company (PPIC) is offering a free pipeline condition assessment poster. Visit www.ppic.com for more information.

Trenchless International: Trenchless International has the following news:

- No-Dig Moscow will be held **June 1 – 4, 2010**
- No-Dig Singapore will host the 28th Annual International No-Dig Conference and Exhibition over **November 8 – 10, 2010**

Water Environment Federation: Upcoming WEF Specialty conferences can be found on the website: <http://www.wef.org/Conferences>. See below for upcoming events:

- Utility Management Conference 2010 in San Francisco – **February 21 – 24, 2010**
- 2010 AWWA / WEF Information Management & Technology Conference in Portland – **March 21 – 24, 2010**
- Collection Systems 2010 in Phoenix – **June 13 – 16, 2010**

Green Wastewater Projects: Hawaii commended for green wastewater project. A microtunneling project is just one of many green projects currently underway in Hawaii that have been commended by the U.S. EPA.

Green Projects Discussions:

PUG took a moment to talk about green projects with meeting members. Some thoughts were discussed on ways to save energy at lift stations. A wave generated pump called the SEADOG was also discussed as a means to pump water near the ocean.

Projects Discussions:

A discussion took place on HDPE fittings. It was noted that HDPE fittings are rated to a lower psi lever for the same DR. As a result, fittings may require a higher DR to meet internal pressures.

Kurt Vincelette of the R&B Company discussed an EBMUD cast iron pipe bursting project. So far, Phase I burst 700 LF of DR 18 FPVC. Phase II begins in April to burst an additional 1,000 LF using FPVC.

Next Meeting: The next general meeting will be held **Tuesday, April 20, 2010** at the office of [Brown & Caldwell located at 201 N. Civic Dr., Suite 300, Walnut Creek, CA](#). The topic will be on the **Lateral CIPP and T-Liners** by Don Wible of Veolia ES Sewer Services. Please call Roberts McMullin at 510-874-3102 or email rob_mcmullin@urscorp.com to RSVP or ask for additional information on this month's meeting minutes.