



MEETING MINUTES

June 21, 2011

Attendees:

Alan Kam	San Jose	alan.kam@sanjoseca.gov
Allen Law	Oakland	alaw@oaklandnet.com
Andrew Hawksworth	Carollo	ahawksworth@carollo.com
Anne Prudhel	Carollo Engineers	aprudhel@carollo.com
Beryl Clark	JM Eagle	berylclark@jmeagle.com
Bill Chavez	SRCSO	chavezb@sacsewer.com
Bonneau Dickson	Bonneau Dickson	dickson.bonneau@gmail.com
Brian Avon	Carollo Engineers	bavon@carollo.com
Brian Chan	Foster City	bchan@fostercity.org
Chip Johnson	Sprayroq, Inc.	cjohnson@sprayroq.com
Cindy Preuss	Harris & Associates	cpreuss@harris-assoc.com
Deanna Tanner	Brown & Caldwell	dtanner@brwncald.com
Gunawan Santosu	Oakland	gsantosu@oaklandnet.com
Jimmy Dang	Oro Loma SD	jdang@oroloma.org
Jon Wells	West Yost	jwells@westyost.com
Jonathan Lee	West Valley San	jlee@westvalleysan.org
Katherine Hayden	Brown and Caldwell	khayden@brwncald.com
Kevin Johnston	Oro Loma SD	kjohnston@oroloma.org
Kevin Kai	Brown & Caldwell	kkai@brwncald.com
Lani Good	HydroScience Engineers	lgood@hydroscience.com
Marshall McLeod	EBMUD	mmcleod@ebmud.com
Nona Espinosa	Nolte	nona.espinosa@nolte.com
Patrick Johnston	Kennedy Jenks	patrick.johnston@kennedyjenks.com
Roberts McMullin	EBMUD	rmcmulli@ebmud.com
Rocky Capehart	Sprayroq, Inc.	rcapehart@sprayroq.com
Roland Bueno	EBMUD	robueno@ebmud.com
Rosemary Smud	ADIP / ASP	rsmud@american-usa.com
Sandie Dudley	CDM	dudleysl@cdm.com
Sasha Mestetsky	CCCSD	smestets@centralsan.dst.ca.us
Susan Wang	Oakland	swang@oaklandnet.com
Thuy Nguyen	San Jose	thuy.nguyen@sanjoseca.gov
Tracie Sakakihara	Hatch Mott MacDonald	tracie.sakakihara@hatchmott.com

Presentation: Sprayroq Coatings and SprayWall Structural Rehabilitation by Rocky Capehart, Sprayroq, Inc.

Highlights from the presentation include:

1. Corrosion of pipelines increases due to reduction of inflow and infiltration, regulatory changes in pretreatment, and expansion of collection systems.
2. Third party testing and specifications are very important for obtaining long term quality coating and lining performance.

3. Correct product selection, installation, and inspection can help prevent polymer coating and liner disbanding, aggressive corrosion, pinholes, epoxy failure, poor adhesion, thinner coating applications, application error, roots and infiltration, substrate failure behind lining, equipment and tool damage, and wrinkles and sags.
4. Corrosion protection options: cementitious formulations, thermoplastic linings, and polymer coatings.
5. Preparation success depends on obtaining a clean, dry, and sound surface.
6. SprayWall is not an epoxy. It is spray applied polyurethane and is NSF 61 approved.
7. For more information on the presentation, visit our website at www.norcalpug.com.

Handouts: Sprayroq Protective Lining System Catalogs were available.

Thank you for another great presentation Rocky.

General:

May 17, 2011 Meeting Minutes: A motion was made to approve the minutes, which was seconded and minutes are approved with no corrections.

Announcements:

2011/2012 Membership: Please submit your 2011/2012 membership renewals. The new forms are located on the PUG website: www.norcalpug.com. 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.

Financial: PUG CFO noted that approximately \$41,574 is in the PUG bank account.

PUG Committees: PUG is forming academic and social committees to help with outreach. Sandie discussed the PUG academic committee. More information to follow in an email to the members.

PUG Go Kart Event: PUG hosted a gokart racing event on Monday, June 13, 2011, from 6:30 p.m. to 9:30 p.m. in Burlingame. Unfortunately, due to the low membership involvement, this will be the last gokart event. Pictures will be posted on the website soon.

PUG Survey Results: The results to the Pipe Users Group 60 Second Survey can be found on the PUG website. Basically, email is the preferred correspondence; PUG membership fee of \$350/organization is reasonable; PUG offers enough training and social events; and most members are not interested in volunteering time to be on a PUG committee.

PUG Field Trip: PUG had to cancel the field trip to the JM Eagle Pipe Manufacturing Plant due to attendee conflicts. PUG hopes to schedule a separate field trip for October 2011. For information to follow.

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. Upcoming webinars include:

- Performance Integrity – A Flowmeter Selection Process – June 21, 2011
- A Non-Invasive Solution for Non-Revenue Water and Asbestos Pipe Condition Assessment – July 28, 2011

Trenchless Technology Webinars: The Trenchless Technologies website hosts on-line and provides archived webinars related to the trenchless industry. For more information, visit the TT website at: www.trenchlessonline.com/index/webinars. Upcoming webinars include:

- Manhole Rehabilitation: Using the Appropriate Rehabilitation System – June 30, 2011
- Water Relining – July 1, 2011

Trenchless Technology: The new 2011-2012 Trenchless Technology Directory is now available. Visit www.trenchlessonline.com for more information.

AirVac: AirVac the world leader in vacuum sewer technology is offering a free webinar on Vacuum Sewer Construction Advantages for the Client, Consultant, and Contractor – June 29, 2011. Visit www.airvac.com for more information.

Colorado School of Mines: Colorado School of Mines is offering a tunneling short course called Breakthroughs in Tunneling 2011. The course directors are Dr. Levent Ozdemir, P.E. and Timothy Coss. The course is offered September 19 – 21, 2011. For more information on registration, visit www.tunneling.com.

Water Environment Federation: WEF is offering a distance learning webcast (\$155 for members and \$195 for non-members) on Perspectives on Pipeline Renewal. Visit www.wef.org for more information. **WEFTEC 2011** is scheduled for October 15 through 19 in Los Angeles, California.

Underground Construction: Underground Construction published an article in the April 2011 magazine on US pipe demand to reach \$38.6 billion in 2015. The major increases in annual growth were found in Plastic and Ductile Iron pipe.

RETC: The Rapid Excavation and Tunneling Conference (RETC) is scheduled in San Francisco, California, over June 19 through 22, 2011. Visit www.retc.org for more information.

APWA: American Public Works Association is offering a web broadcast for May 26, 2011. The broadcast is on Small Project – Big Results: Facilities and Grounds Sustainability Projects. Visit www.apwa.net/Events for more information.

ASCE: The American Society of Civil Engineers is hosting its Pipelines 2011 Conference in Seattle, Washington over July 23 through 27, 2011. For more information on the conference, visit: <http://content.asce.org/conferences/pipelines2011/index.html>.

NASTT: The North American Society for Trenchless Technology is now accepting abstracts for its 2012 No-Dig Show in Nashville, Tennessee, over March 11 through 15, 2012. For more information, visit: <http://www.nodigshow.com/abstracts/index2012.php>

Technical Toolboxes: Technical Toolboxes is offering the following training opportunities: Cathodic Protection Design for Storage Tanks and Pipelines – June 28 and 29, 2011 Visit <http://www.toolboxes.com/Training/> for more information on the training opportunities.

Projects Discussions:

Cindy Preuss of Harris and Associates asked the group if anyone had any experience using ultra violet curing fiberglass lining. Unfortunately, no one in the group had experience. Cindy noted that it is an excellent technology but there are no contractors within the Bay Area.

Jonathan Lee West Valley Sanitation District asked the group if anyone had any experience with abandoning asbestos cement pipe (ACP). PUG had a previous monthly presentation on the ACP removal process back in July 2009.

Sasha of Central Contra Costa Sanitation District discussed the Pleasanton-Lafayette Trunk Sewer Project. The contractor is Mountain Cascade. The project will use a guided boring

system with vacuum technology, which removes spoils using vacuum technology rather than boring. Sasha noted that this could be a possible field trip idea. More information to come.

Bonneau Dickson asked about what pipe material is most resilient against brackish seawater and sunlight exposure. Multiple members all responded with High Density Polyethylene (HDPE) pipe, which is resilient to brackish seawater and ultraviolet radiation.

Next Meeting:

The next general meeting is scheduled for Tuesday, July 19, 2011. The presentation topic is on Aqua-Pipe Trenchless CIPP Water Pipe Structural Renewal Technology by Matt Wassam of SAK Construction. Please call Roberts McMullin at 510-287-1296 or email rmcmulli@ebmud.com for additional information on this month's meeting minutes.