



MEETING MINUTES

Aug 9, 2024

In-Person Meeting

Attendees:

Name	Company	Email Address
Alexandra Watson	HydroScience Engineers	awatson@hydrosience.com
Alisa Tseng	Brown and Caldwell	atseng@brwnald.com
Anna Williams	East Bay Municipal Utility District	anna.williams@ebmud.com
Anika Young	AMERICAN Ductile Iron Pipe	awyoung@american-usa.com
ashley stalf	EBMUD	ashley.stalf@ebmud.com
Bryan Perkins	Contra Costa Water District	bperkins@ccwater.com
Chase Temple	Griffin Soil Group	chase@griffinsoil.com
Chris MacDonald	CPM Pipelines	chris@cpmpipelines.com
Chris Marinez	Harris & Associates	chris.marinez@weareharris.com
Chris Peters	Brown and Caldwell	cpeters@brwnald.com
David Ng	City of Oakland	dng@oaklandca.gov
Diego Soto Lopez	Central San	dsotolopez@centralsan.org
Ding Tran	City of Sacramento	dtrancity@sacramento.org
Dustin La Vallee	EBMUD	dustin.lavallee@ebmud.com
Elena Topete	EBMUD	elena.topete@ebmud.com
Elizabeth Diaz Gunning	Black & Veatch	diazgunninge@bv.com
Eric Neill	Hazen and Sawyer	eneill@hazenandsawyer.com
Eric Yao	HDR	Yuan.Yao@hdrinc.com
Ferisca Putri	Sacramento Area Sewer District	putrif@sacsewer.com
Fidel Salamanca	Harris & Associates	fidel.salamanca@weareharris.com
Iris Yuen	CDM Smith, Inc.	yuence@cdmsmith.com
James Kohne	Woodard & Curran	jkohne@woodardcurran.com
James Pera	CPM Pipelines	jp@workandplaydynamics.com
Jane Hou	Mott MacDonald	Jane.Hou@mottmac.com
Joe Heavin	S&W	--

Minutes by James Kohne, Woodard & Curran
Secretary, Nor Cal PUG

Page 1 of 5

***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. ***

Name	Company	Email Address
Jon Marshall	Carollo Engineers	jpmarshall@carollo.com
Kwin Peterson	RH Borden	kwin.peterson@rhborden.com
Lisa Zou	CCCSD	lzou@centralsan.org
Lu Wang	Mott MacDonald	lu.wang@mottmac.com
Makayla Dennis	HDR	makayla.dennis@hdrinc.com
Michael Lee	City of Oakland Public Work Wastewater Management Division	mwlee@oaklandca.gov
Molly Wedel	EBMUD	mwedel@ebmud.com
Nancy McWilliams	Solano Irrigation District	nmcwilliams@sidwater.org
Nohemi Sanchez	Central Contra Costa San Dist	nsanchez@centralsan.org
Omar Adina	CCWD	oadina@ccwater.com
patrick lam	Delve Underground	lam@delveunderground.com
Raymond Kong	City of Sacramento	rkong@cityofsacramento.org
Ryan Blalock	Therma	ryanblalock@therma.com
Sarah La Vallee	Contra Costa Water District	slavallee@ccwater.com
Sarah Rahimi	EBMUD	sarah.rahimi-ardabilly@ebmud.com
Sasha Mestetsky	CCCSD	smestets@centralsan.org
Sean Maurel	Contra Costa Water District	smaurel@ccwater.com
Stephanie Wong	Brown and Caldwell	swong@brwncald.com
Tara Sweet	EBMUD	tara.sweet@ebmud.com
Taylor Fagan	Harris & Associates	taylor.fagan@weareharris.com
Victoria	Harris & Associates	victoria.orduno@weareharris.com
Yujie Liu	Oro Loma Sanitary District	yliu@oroloma.org

Announcements and General Business:

Dustin opened the meeting and conducted the group's business.

1. Participant introductions
2. Reminded the group about signing up for monthly presentations.
3. Upcoming conference dates:
 - a. Breakthroughs in Tunnelling Short Course - September 9-11, University of Denver in Denver, CO
 - b. WEFTEC 2024 - October 5-9 New Orleans, La
 - c. AWWA California Nevada Fall Conference - October 21-24, Reno, Nevada
 - d. NASTT No-Dig 2025 - Denver CO, March 25-April 3, 2025

Minutes by James Kohne, Woodard & Curran
Secretary, Nor Cal PUG

Page 2 of 5

***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. ***

- e. AWWA ACE 2025 - Denver CO, June 8-11, 2025
 - f. USEI (ASCE) PIPELINES 2025 - Tampa, Florida, August 9-13 2025 – Abstracts due 10/1
 - g. PUG Training Day (Practical Considerations for Pipeline Design and Construction) October 17, B&C Walnut Creek
 - h. PUG December Meeting Field Trip, Center for Smart Infrastructure, Richmond Field Station, December 10th, Richmond
 - i. PUG 2025 Annual Seminar, February 13, 2025 Concord, Ca
4. James Kohne provided a recap of the June meeting minutes.
 5. Adam Brown provided the financial summary report. The current total in the organization account is \$86,555.24. It was previously \$88,256.00, but there were expenses, totaling \$1,700.76.

Attendee Announcements and Project Discussions:

1. Nancy McWilliams summarized recent bid opening results. She had 7 bidders for ~130 feet of 30" PVC under a road and a concrete structure. Pipe material will be provided by the Owner. Engineers estimate was ~400K. The bids varied from ~\$360k and \$700k.
2. Announcement from CMP pipelines that they're starting a ~2mi job installing bullet liner in Riverside.
3. James Kohne shared some job openings at W&C.
4. Audience question about pressure testing CIPP for a gravity line.

Presentation:

"Geotechnical Considerations for Pipeline Projects" Presenter: Patrick Lam, Delve Underground.

Overview:

The presentation addressed pre-design and pre-construction geotechnical related work including desktop studies, field explorations and laboratory testing that are useful to quantify the subsurface conditions to know what geotechnical issues require emphasis and management for either open cut or trenchless installation applications.

Highlights from the presentation include:

1. Provided background on himself and Delve Underground.
2. Desired key takeaway: be able to better consume and understand geotechnical information gathered and presented related to pipeline projects.
3. Main Topic
 - a. Geohazards/Data Collection
 - i. Desktop study (historical topo & geologic maps, historical aerials, groundwater information, other "local" resource), and field reconnaissance.
 - ii. Geohazards (fault rupture, landslide, expansive soils, liquefaction risk, lateral spreading, settlement, high groundwater, flooding).
 - iii. Initial field reconnaissance: non-invasive way to make initial observations (bedrock outcrops, creek bed locations).

Minutes by James Kohne, Woodard & Curran
Secretary, Nor Cal PUG

Page 3 of 5

- iv. Following up field investigation planning (e.g., how often to perform soil samples, use of solid flight or hollow stem (used in sand type materials), rotary wash, rock coring, sonic coring, Cone Penetrometer Testing (CPT), seismic refraction survey, test pits).
- v. CPTs used primarily to quantify risk of liquefaction
- vi. They use ASTM standard when it comes to logging information in the field (ASTM D2488-17e1).
- vii. Laboratory Testing: Particle size distributions (allow identification of the appropriate cutter head), atterberg limits (higher values means “stickier”, which can log the machines), strength and other tests (unconfined compressive, direct shear, moisture density, consolidation, permeability, shrink/swell, R-value...)
- b. Open Cut Method: What characteristics do you look for?
 - i. Excavatability and ground behavior, Cal-OSHA soil classification, safe temp slopes, groundwater, etc...)
- c. Soil compaction and testing equipment: nuclear gauges, sand cone.... (1 test for every 500 cu yds (or between 250 and 500 cu yds)). For short jobs, it’s common to run tests every 50 to 100 ft, and every 6” of lift.
- d. Trenchless Method (e.g., env sensitive)
 - i. New installations (tunneling, pipe ramming, etc), or rehabilitation (e.g, CIPP)
 - ii. Lots of considerations (soil types, drive length, and pipe diameter)
 - iii. Trenchless shafts and portals: Shaft selection criteria (groundwater, dept space cost. Stabilize soil behind portal faces.
- e. Geotechnical Baseline Reports
 - i. ASCE has GBR suggested guidelines
 - ii. Contract document that establishes baseline conditions that a contractor should assume when bidding a job (e.g., location of groundwater)
 - iii. Can impact cost/tools used by the contractor and the associated risk/cost to the owner).
 - iv. Describes and allocates risk between the Owner and Contractor.
 - v. Risk analyses and funding buckets
- f. Types of “geotechnical” instruments:
 - i. **Piezometers (water)**
 - ii. **Settlement monitors**
 - iii. Inclinometers (lateral movement)
 - iv. **Vibration monitors (construction vibrations)**
 - v. Air/dust monitors (Air quality)
 - vi. Crack gauges
 - vii. Strain gauges
 - viii. Survey points.

Next Meeting:

The next general meeting is scheduled for Tuesday, September 10th, 2024, and will include a presentation by Alena Mikhayolva, with Geneva Pipe and Precast, titled "Perfect Pipe: Lined Concrete Pipe". The September 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 James Kohne at 925-627-4173 or email pugnorcal@gmail.com for additional information on this month's meeting minutes.