



MEETING MINUTES
September 14, 2021
 Virtual Meeting

Attendees:

Name of Attendees	Company / Agency	Email Address
Adam Brown	West Yost	abrown@westyost.com
Alexandra Watson	HydroScience Engineers	awatson@hydroscience.com
Asa Utterback	Coast Land Civil	autterback@coastlandcivil.com
Bao Nguyen	Solano Irrigation Water District	bnguyen@sidwater.org
Ben Wright	Black and Veatch	wrightb@bv.com
Bill Brick	CDM Smith	brickwd@cdmsmith.com
Christina Ramirez	West Yost	cramirez@westyost.com
Christopher Brown	Oro Loma Sanitary District	cbrown@oroloma.org
Chung Linh	SFDPW	chung.linh@sfdpw.org
Dan Zarraonandia	Pre-ConsProducts	danz@pre-conproducts.com
Daniel Landy	PE Pipe	dlandy@pepipe.org
Davina Carboni	Brown and Caldwell	dcarboni@brwnncald.com
Dillon Miele	Sacramento Sewer District	mieled@sacsewer.com
Dru Nielson	McMillen Jacobs Associates	nielson@mcmjac.com
Dustin La Vallee	EBMUD	dustin.lavallee@ebmud.com
Edgar Benitez	Forterra	edgar.benitez@forterrabp.com
Eric Yu	SFDPW	eric.yu@sfdpw.org
Gean Na	Concrete Pipe	gna@concretepipe.org
Gerardo Santana	Solano Irrigation Water District	gsantana@sidwater.org
Jacob Monroe	ADS Pipe	jacob.monroe@ads-pipe.com
James Yorita	City of Sacramento	jyorita@cityofsacramento.org
James Kohne	Woodard & Curran	jrkohne@gmail.com
Jeremy Hynum	McGuire and Hester	jhynum@mcguireandhester.com
Jimmy Dang	Oro Loma Sanitary District	jdang@oroloma.org
Jocelyn Kung	SFDPW	jocelyn.kung@sfdpw.org
Joe Barnes		jdbarnes209@gmail.com
John Moala	SFDPW	john.moala@sfdpw.org
Joseph Osolongo	City of San Jose	joseph.osolongo@sanjoseca.gov
ken deibert	West County Wastewater	kdeibert@wccd.org
Kevin Yoshiki	Central San	kyoshiki@centralsan.org
Kevin Kai	H204U	h2o4u@hotmail.com
Kevin Randeni	DSRSD	randeni@dsrsd.com
Kevin Morales	Central San	kmorales@centralsan.org
Kris Decker	Oro Loma Sanitary District	kdecker@oroloma.org

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 Secretary, Nor Cal PUG

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kurt Chirbs	Cs-Nri Sanitary District	kchirbas@cs-nri.com
Marisa Boyce	EBMUD	marisa.boyce@ebmud.com
Madison Veggian	Woodard & Curran	mveggian@woodardcurran.com
Maryna Asuncion	West Yost	masuncion@westyost.com
Matthew Lim	SFDPW	Matthew.Lim@sfdpw.org
Mike Garcia-Forterra	Forterra	Mike.Garcia@forterrabp.com
Mike Scholz	JCMIND	mscholz@jcmind.com
Ming Yee	SFDPW	mmyee@sflower.org
Morgan DeAngelis	House Associates	mdeangelis@housenassociates.com
My Huynh	Sacramento Sewer District	huynhm@sacsewer.com
Mykaiah Clermont	West Yost	mclermont@westyost.com
Nancy McWilliams	Solano Irrigation Water District	nmcwilliams@sidwater.org
Nealsen Cayanan	Central San	ncayanan@centralsan.org
Nohemi Sanchez	Central San	nsanchez@centralsan.org
Oranis Pimentel	Mott MacDonald	oranis.pimentel@mottmac.com
Peter Dyke	PE Pipe	pdyke@pepipe.org
Peter Wright	City of Sacramento	pwright@cityofsacramento.org
Richard Davis	Harris & Associates	Richard.Davis@weareHarris.com
Robert Le	HydroScience Engineers	rle@hydroscience.com
Robert Allen	Trident	ballen@Tridenteng.com
Saied Khan	SFDPW	saied.khan@sfdpw.org
Tony Leonardo	DSRSD	tleonardo@dsrsd.com
Uriel Romero	Solano Irrigation Water District	uromero@sidwater.org
Weizhi Cheng	City of Burlingame	wcheng@burlingame.org
Zaheer Shaikh	Harris & Associates	zaheer.shaikh@weareharris.com

Announcements:

- **PUG**
 - **PUG Membership Renewal**
Please renew your membership.
The PUG new year has started in June. We are looking forward to this new year.
 - **Future Presentations for Monthly Meetings**
For future meetings, PUG is open to presentations for future topics. We are booked through December.
- **NASTT**
 - **September 13-14, 2021 - LIVE**
South Central Trenchless Technology Conference – Sugar Land, TX.
 - **September 17, 2021, Virtual**
Laterals Good Practices Course
 - **October 13-14, 2021 - Virtual**
New Installation Methods Good Practices Course
 - **November 8-10, 2021 - LIVE**
No-Dig - North Vancouver, BC

- **WEFTEC 2021**
 - *October 16-20 Conference - LIVE - McCormick Place, Chicago and On-line*
 - *October 18-20 Exhibition*
 - *November 16-18 WEFTEC Online.*

General:

August 2021 Meeting Minutes: An overview of the July meeting minutes was presented.

Financial Update: The current total in the organization account as of August 31 is \$77,787.15 (Dustin La Vallee)

Project Discussions:

(Glen Hermanson):

- Project currently under construction: City of Sacramento 84” pipeline conveys flow under the wet weather located under the I-5. Pipe was originally there before Highway I-5. Project included pipe rehabilitation. remove and OLDS closed two loans \$ 25M/each to spend in the next 5 years for collections system projects. Schedule to install 12 to 13 miles of pipe annually.
- 2/3 pipe bursting and 1/3 open cut All fused HDPE.
- Entire project is divided into 10 phases. Each phase is 3 to 4 miles 4 contracts concurrently. Bids are coming under engineers estimate.
- Lateral connection will be fuse saddle and 6 feet of new lateral replacement. Lateral will be open cut.
- Pipe diameter Majority of the pipe are 6” to 8” in diameter, some are 10” and a few 12” pipe size.
- rebuilt the old manhole.
- CIPP used to rehab pipe (11 layers of felt) v
- Various projects photos were presented during discussion.

Presentation: “Smart Remote Monitor Review”, Brogan Quist, Smart Cover System.

Highlights from the presentation include:

- This presentation will provide a review how customers can adopt unique and patented monitoring technology, which gives them data in the field that they did not have before. This specific presentation will review a few different case studies and applications, such as: SSO prevention, "Smart Cleaning" programs, H2S monitoring, Lift Station Backup, Inflow and Infiltration tracking, and others. Overview:

Company History

- 16 years in the industry
- HQ in Southern California, Escondido, San Diego County.
- Founded by Greg Quist and David Drake
- Teamed with XPV Water Partners to increase the growth
- Innovators – 17 Patents
- Logged over 200 million operating hours

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- Over 25 k surcharges detected

Company Overview What they do

- Smart Technology for wastewater operations: Evaluate, Assess, Trace, Repair
- Sewer Overflow prevention
- I/I detection
- CSO Outfall monitoring
- H2S monitoring
- Stormwater management (lake, canals, rivers)
- Entry detection
- Real time collection system monitoring
- Asset management

SmartCover Integrated Solution

- Instant communication from data to the satellite Iridium, received and analysis
- Without an alarm costumers receive about 6 data points an hour
- System has the flexibility to be adjusted and have more data points based on the needs.
 - Real time remote sewer monitoring 5 min measurement(alarm), 10 min data points, 60 min transmission
- System is secured satellite communications, data backup storage on redundant servers, easy to use, web-based interface, customize alarm settings, data can be access on any web-enable device.

System Components

- E-Box (computer, data, transmission, power management digital radio)
- Power Pack (battery 2-year lifespan)
- Sub-Sonic Dual Sensor (4" to 74" range w/ pressure sensor)
- Antenna (E-dot, or E-square, flushed mounted, traffic rated and snowplow resistance)
- Cable (15', 25', or custom)

Subsonic Dual Sensor

- Pressure sensor
- Ultrasonic sensor mode

Full dynamic range of your manhole, accuracy on narrow inverts, low maintenance, ideal for remote location.

Installation (it is based on the application and customer needs)

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- No confined space entry (for standard setup)
 - Easy attaches to any manhole or hatch
 - One step satellite comms activation
 - About 45 minutes to 1 hour
 - Slide impact shield available
 - Optional “manhole marker”
- Side mount bracket requires confined space entry

Cable communications SartCover® user

- Iridium satellite system includes 66 active satellites in low earth orbit and polar caps
- Global redundant coverage
- Small horizon visibility
- Mission critical reliability
- Used by the U.S. DOD
- No issue with underpasses or trees
- 100% reliability during hurricanes, blackouts, sever weather patterns

Easy user access

- Secure, dedicated user website and the client owns data
- Cloud-based, 24/7 access with any web-enable
- New mobile application (IOS and Android compatible) new mobile device App is available through google play and apple app Store, free to all users.
- Unlimited users, data storage, archives, text & email notifications.
- Automatic system updates and upgrades
- Customer service with life agent.

Cost

Subscription cost annual & renewal monitor level \$377 per unit

Purchase unites are \$5,500/unit

Lease/own program

SSO Monitoring System

Flooding hot spot, High frequency cleaning locations, Lift stations, siphons, easements, grease areas, environmentally sensitive areas, previous spill locations, future CIP, or old pipe sites.

Flow trend Analysis “Smart Clean” (proprietary software: SmartTrend®)

- Daily automated scan of level & flow
- Identifies abnormalities
- Issues notifications and alert

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- Dry season vs. wet season
- Planned vs. reactive response
- Prioritize resources allocation
- Lowers risk and cost

SmartFLOE™ System (Advantage for Pervasive data collection)

- No Confined Space Entry installation
- Fast relocation with a MH cover attachment
- I&I reports use same dashboard
- Two-year battery life and low maintenance
- Non-contact sensors
- Rain, tidal, river, stream data fully integrated

SmartFLOE™ System works (applications)

- Input from each location (pipe diameter, slope, roughness coefficient, pipe material (Manning's equation))
- Dynamic measure at site (distance or level)
- Ability to adjust variables based on KNOWN values

Inflow & infiltration studies.

Solution to H2Scents® Real time remote hydrogen sulfide monitoring

- Minimum 3-month calibration interval
- Common interface integrates with SmartCover dashboard
- Detects 0-1,000 ppm
- Ability to integrate data with level, flow, or rain data.

Thank you to Brogan Quist for a great presentation and contribution to PUG monthly meeting.
Brogan contact information: (760) 291-1980, email: bquist@smartcoversystems.com

Next Meeting:

The next meeting is scheduled for Tuesday, October 12, 2021. “UESI Pipelines 2021 Conference Recap”,
Bob Allen, Nancy McWilliams, and Adam Brown.