



MEETING MINUTES

March 9, 2021

Virtual Meeting

Attendees:

Name of Attendee(s)	Company / Agency Name	Email Address
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Secretary, Nor Cal PUG

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Announcements:

- **PUG**
A GREAT BIG THANK YOU for your attendance, for the presenters, and for the PUG Board who made the 2021 Sharing Technologies Virtual Seminar happen.
- **Future Presentations for Monthly Meetings** – *For future meetings, PUG is open to presentations for future topics.*
- **NASTT**
 - **March 28 – April 1, 2021: NASTT 2021 Live - No-Dig Show in Orlando, Florida at the Orange County Convention Center.**
 - *Registration is now open.*
 - *Municipal and Public Utility Scholarship are available for applications by January 15, 2021.*
 - **September 27-28, 2021: Live - South Central Trenchless Technology Conference – Sugar Land, TX.**
 - **November 8-10, 2021 LIVE - No-Dig North Vancouver, BC (over)**
- **UESI (ASCE Pipelines)**
 - **UESI Pipelines 2021 Conference ~~LIVE~~ – Calgary, Alberta, Canada – August 3 – 6, 2021 (This conference was changed to Virtual Platform)**
- **Trenchless Technology Road Show 2021**
- **May 11, 12, 13, 18, and 20, 2021 Virtual Event**
 - *Early bird pricing through April 10th!*
 - <https://www.cattrenchlessroadshow.ca/>

General:

January 2021 Meeting Minutes: An overview of the January meeting was presented (by Bob Allen).

Financial Update: The current total in the organization account as of February 28, 2021 is \$70,580.94 (Dustin La Vallee)

Project Discussions:

1. No update to Adam's project discussion from last time. Kickoff is opening next week.
2. Brian Danley did not have an update either on his discussion from last time.
3. Bid opening announcement (Bob Allen) – West County Wastewater District pipe bursting project with 8 areas, totaling 22,284 LF. Bids were opened Feb. 26, 2021 for the Rumrill South of Market Neighborhood: 1,507 LF of 8" HDPE, 3,257 LF of 10" HDPE, and 1,023 LF of 14" HDPE. There were five bidders.
 - a. Engineer's estimate - \$1.756M
 - b. Pacific Trenchless Inc.- \$1.415M (low)
 - c. Ranger Pipelines - \$1.899M (high)
4. Jimmy Dang, Bid opening announcement.
 - a. Point Repairs
 - i. 28-point repairs. Low bid \$284k APB General Eng – 7 bids. Next bid up was \$448k
 - b. Sewer Replacement: mostly pipe bursting.
 - i. 1.4 miles of pipe to be replaced. Low bid \$1.48M (APB General Eng) – 11 bids. \$1.5M spread. Engineer's estimate was in the middle.
5. Falguni Amin
 - a. Was informed that T-lock liners are no longer available. Asked the group what are other options are available? In City of Santa Clara, they have used epoxy for MHs, but what other products are other agencies using?
 - i. Amerlock provides PVC liners like T-Lock, but Falguni needs to check if Amerlock is lining MHs.
 - ii. There is another product called "StudLiner" (HDPE) that competes with Amerlock.
 - iii. Per Gean Na, in Dec 2019, the Greenbook Committee has worked on including language to account for other lining technologies for various structures. Updated Greenbook version will be available in April 21.
 - iv. Background: T-lock was the 1st manufacturer, and they had a good lock on the industry (T-lock would pre-qualify companies). Not exactly sure why T-Lock stopped producing the product, but the property where it was manufactured was leased and there could have been issues with getting that lease renewed. Also, the company that bought Ameron (NOV) could have just not been interested in the business line (like Ameron's previous non-circular fiberglass product). Pre-qualification process can now be provided by the process described in the Green Book update. Polypropylene is another material that could be used in linings.
6. Nancy McWilliams Bid being advertised for electrical contractor to upgrade the electrical on 13 pump stations and well in Solano County - Solano Irrigation District.
7. Jimmy Dang: Oro Loma is about to release ~\$40 million in pipe bursting projects over the next 3-4 years.
8. Jordan Ollanik asked if there was a follow up to the annual seminar. Yes, a feedback form was provided in email and on the blog. Nancy reported feedback was positive overall.

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- b. Check AASHTO Appendix 5.1.1 relates pipe on Highways.
 - a. Ensure equipment can deliver accurate, repeatable measurements of all items.
 - b. Manual inspection for pipes 36" and greater
 - c. Make sure equipment is calibrated and specific to the pipe size.
 - d. Measure crack width on all pipes is within range of 0.01" to 0.10"
 - e. Measure deflection flexible pipe every 10 feet along the pipe
 - c. Check AASHTO Appendix 5.2 Guide for Drainage Pipe and Evaluation
 - a. All pipes check: misalignments, crack/tears & joints.
 - b. Concrete pipes check for Spalls & slabbing.
 - c. Thermoplastic pipes check for geometry: deflection, buckling, bulging, and Coating.
- C. Pipe Asset Management (1st Ed)**
- 1. Inspection Guide provides rating scales (Good → Severe)
- D. Wildfires and culverts in California**
- 1. CA Wildfire & Forest Resilience Action plan (bill that was recently passed).
 - 2. Highlighted:
 - a. AB 747 (2019) - Caltrans will assist cities & counties addressing evacuation routes.
 - b. SB99 (2019) – Require at least 2 emergency evacuation routes (hazard areas for existing and new development)
 - 3. Noted that in GIS there is a Cal fire Wildfire Hazard Potential map that you can input your address to see what hazard level your project/location is in. Information anticipated to be updated in 2022. Nancy noted that PG&E also has some good fire zone mapping.
 - 4. If you use plastic pipe for storm drain, there are recommendations to treat the ends for fire protection (can also use a couple of sticks of concrete at each end)
- E. 2 Case studies**
- 1. Steve Nilforoushan (Rinker): Accelerated Construction with pipe and box culverts.
 - a. Napa project with pipe used as detention. Wanted improved stormwater quality and an underground detention system. Got 2,700 CF of detention using 3 rows of pipes (48" of Class V RCP). Metal and flexible systems were not as good as this precast rigid system due to the limit cover available.
 - 2. Edgar Benitez (Forterra): Accelerated bridge construction in Elk Grove.
 - a. Replace a cast in place bridge with precast box culverts. Planned for 2 months with a full closure of the intersection.

Next Meeting:

The next meeting is scheduled for Tuesday, April 6, 2021. "The topic will be **"Systematic Analysis of Siphon Operations and Assessment"**, Veronica Alvarez – Red Zone.

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