



MEETING MINUTES
April 21, 2009

Attendees:

| | | |
|------------------|------------------------|-------------------------------|
| Alex Park | Brown & Caldwell | apark@brwncald.com |
| Amy Hernandez | CCCSD | ahernand@centralsan.org |
| Chris Lyne | P&F Distributors | chris@pfdistributors.com |
| Cindy Preuss | Harris & Associates | cpreuss@harris-assoc.com |
| Dave Mathy | DCM/GeoEngineers, Inc. | dmathy@geoengineers.com |
| Don Wible | Veolia | don.wible@veoliaes.com |
| Doug Lee | Kennedy Jenks | douglee@kennedyjenks.com |
| Erik Zalkin | Brown & Caldwell | ezalkin@brwncald.com |
| Jennifer Glynn | RMC | jglynn@rmcwater.com |
| John Wong | SASD | wongj@sacsewer.com |
| Jonathan Lee | WVSD | jlee@westvalleysan.org |
| Kent Von Aspern | HDR | kent.vonaspern@hdrinc.com |
| Kevin Calderwood | RMC | kcalderwood@rmcwater.com |
| Linh Nguyen | CCCSD | languyen@centralsan.org |
| Marisa Boyce | EBMUD | mboyce@emud.com |
| Mark Wenslawski | CCCSD | mwenslawski@centralsan.org |
| Michael Laderman | CSG Consultants, Inc. | michaell@csgengr.com |
| Rick Abbett | SRCSD | abbettr@saccounty.net |
| Roberts McMullin | URS Corporation | rob_mcmullin@urscorp.com |
| Rolf Ohlemutz | VSFC | rohlemutz@vsfcd.com |
| Sasha Mestetsky | CCCSD | smestets@centralsan.dst.ca.us |
| Sergio Ramirez | Foster City | sramierz@fostercity.org |
| Stan Shogren | Kennedy Jenks | stanshogren@kennedyjenks.com |
| Ted Hopkins | Shannon & Wilson | twh@shanwil.com |
| Tim Monahan | HDR | tim.monahan@hdrinc.com |
| Walter Pease | City of Pittsburg | wpease@ci.pittsburg.ca.us |
| Willie Ryan | SASD | ryanw@sacsewer.com |

Presentation: *Managing Geotechnical Risks on Trenchless Projects* by Dave Mathy of DCM GeoEngineers, Inc.

Dave gave an outstanding presentation covering:

1. Identifying geotechnical risks
2. Avoiding geotechnical risks
3. Managing geotechnical risks that cannot be avoided

Highlights from the presentation include:

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

1. Pacific Aerial Surveys in Oakland provides a wealth of archived aerial imagery of the Bay Area. Aerial imagery review is very important in determining previous subsurface construction that could interfere with future development.
2. Previously constructed footings and other underground structures are major issues during tunneling projects, especially when discovered during construction.
3. Microtunneling does not work well when cobbles and boulders are encountered in the subsurface soils. In these cases, open trench would be a more efficient means for installing pipe.
4. Test pit holes are very helpful in determining soil information. The tests provide data on stand up time and overall soil strength.
5. Laboratory testing of the soils is required to determine rock slake/durability, or the composition of the crushed rock once broken down into fine particles.
6. Polymers can be added during tunneling projects to help coagulate the fine particles created from the crushed rock.
7. Sands are optimal for microtunneling boring machines (MTBM).
8. Stiff clays are difficult for MTBM. The clays cake on the machine and create a layer between the boring teeth and the tunnel surface making it difficult to bore.
9. MTBM on average can tunnel 85 feet and 136 feet per shift for clays and sands, respectively.

Handouts included:

1. Managing Geotechnical Risks on Trenchless Projects Table
2. ASTM D 1586 – Standard Penetration Test Blow Count (N) Table
3. Tunnelmans Ground Classification Table

Thank you Dave for a great presentation!

General:

March 17, 2008 Meeting Minutes: A motion was made to approve the minutes, which was seconded and minutes are approved with no corrections.

PUG Bylaws Update: The Board is finalizing the documents and will provide a draft copy to all members for review in May.

Website Update: The new website is operational however some bugs are still being corrected. As a result, not all of the content is included on this site, but will hopefully be uploaded very soon. The new website will have a links page that will provide links to vendors, publications, new technologies, and more. In addition, the PUG Board is reviewing ways to pay electronically for memberships, seminars, and training courses using credit card information on the website.

PUG Board Elections: Request for nominations of Treasurer and At-large Representative will be held in May. More information will be provided at the next monthly meeting.

Social Event: The first PUG Social Event is scheduled for 5:30 p.m. Friday, May 8, 2009 at the Pyramid Alehouse in Berkeley. A tour of the brewery will begin around 6:00 p.m. Cara will send out an email that will provide more information.

Announcements:

2009/2010 Membership: Please submit your upcoming 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.

No-Dig 2009: The 2009 NASTT International No-Dig Show was held over March 23 – April 3, 2009 in Toronto Canada. Three members of the PUG Board were able to attend the conference and represent PUG. It was a great success. PUG donated an I Phone to the event auction and was able to raise \$700.

SSC Webinars: SSC issues The Boring Bulletin covering boring, drilling, and vacuum excavation applications. Lunch & learn classes are offered monthly at the SSC headquarters and online from 11:30AM to 1:00PM Pacific Standard Time, see www.sscboring.com/education for more information. The classes include:

- HDD Intro & Applications – **May 7, 2009**
- Large Diameter Boring Projects – **June 4, 2009**
- Benefits of Subsurface Utility Engineering – **July 9, 2009**
- Alternative Trenchless Delivery Methods – **August 6, 2009**

WEF Specialty Conferences 2009 include the following:

- Collection Systems 2009 Conference in Louisville, Kentucky – **April 19 – 22, 2009**
- CWEA Conference in Palm Springs, California – **April 28 – May 1, 2009**
- Pipeline 2009 Conference in San Diego, California – **August 16 – 19, 2009**
- WEFTEC Exhibition & Conference in Orlando, Florida – **October 10 – 14, 2009**

Reuters: A Reuters Article was discussed regarding the benefits of the U.S. economic stimulus funds. California will receive \$260 million of the \$1 billion in U.S. economic stimulus funds slated for water infrastructure.

UIM Webinars: The Water Utility Infrastructure Management (UIM) website hosts on-line webinars related to water management. For more information, visit the UIM website: www.uimonline.com/index/webinars. The webinars are hosted from 9AM to 10AM (Pacific) and include:

- GIS/Utility Mapping by GeoSpatial – **August 1, 2009**
- Leak Detection by ADS – **October 27, 2009**
- Pipeline Condition Assessment by Pure Technologies – **November 18, 2009**

Board Meeting: The PUG Board will meet on May 5, 2009 to discuss the Bylaws, website, membership, 2010 seminar, and remaining presentations for 2009. Meeting minutes will be posted on the website.

Project Discussions:

Jonathan Lee of WVSD asked the attendees if anyone knew of any contractors that specialize in asbestos concrete pipe (ACP) removal. Jonathan discussed a current project that requires approximately 420 feet of ACP that must be removed in a 2,000 LF pipe bursting project. It was noted that a maximum of 260 feet of ACP can be crushed and disposed of per year without having to notify the regulating authority. ACP requires special abatement and disposal when the length exceeds the 260 feet limit.

Next Meeting: The next general meeting will be held **Tuesday, May 19, 2009 at the offices of Brown & Caldwell located at 201 N. Civic Dr., Suite 300, Walnut Creek, CA**. The topic will be on **Pressure Pipeline Condition Assessment for Water and Wastewater Systems presented by Myron Shenkiryk of Pure Technologies**. 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.