

Trenchless News

A Publication of Akkerman Inc.

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Central Contra Costa Sanitary District install A-Line Relief Interceptor with 116" Akkerman EPBM

The City of Concord, CA in unison with Central Contra Costa Sanitary District (CCCSD) is in the process of getting an essential sewer line replacement which will decommission one of the largest pumping stations in the country. The current phase of this project will place pipelines under a golf course, major intersections in a commercial area and alongside a creek. The A-Line Relief Interceptor Phase 2A will employ the use of several construction methods. The Earth Pressure Balance Machine (EPBM) will install 3,000 feet of 96" pipe reinforced concrete pipe (RCP), a microtunneling system will install 870' of 72" RCP and 540' of twin 48" RCP pipe segments will be open cut.

The existing 78" diameter sewage collection line travels to the Concord Pump Station. The 30-year-old, 30-39" diameter force main can not be inspected or maintained given that there is no way to take it out of service. Additionally, the force main offers no options for wet weather overflow. In the 90s, Central Contra Costa Sanitary District (CCCSD) created a 102" interceptor, positioned downstream, during improvements to the larger collection system in hopes to tie it into a gravity sewer in the future. This foresight made this current gravity sewer installation more straightforward.

The new 4,400' larger capacity gravity flow connection will eliminate the need for the Concord Sewage Pump Station. Its elimination presents an estimated \$350,000 yearly cost savings in electricity, manpower, chemicals and maintenance.

The project general contractor is Mountain Cascade Inc., Livermore, CA and the tunneling contractor is Pacific Boring of Caruthers, CA. Pacific Boring is using an Akkerman Inc. manufactured 116" EPBM and intermediate jacking stations to reduce jacking force by distributing thrust on long drives. The EPBM excavates the soil at the cutting face and transports the spoils via ribbon auger to muck cars and haul units. As the EPBM advances a 20' length 96" ID RCP section is placed in the jacking frame and pushed forward.

Pacific Boring's scope of work entails pipe jacking 3,000 feet of 96" pipe from Buchanan Fields Golf Course to the intersection of Meridian Park Boulevard and Galaxy Way in two drives just west of downtown Concord. The first drive is 1,300' and will bore under the Buchanan Field Golf Course greens, fairways and driving range. This 9-hole, par 31 executive golf course experiences steady traffic year-round. Maintaining expert

Earth Pressure Balance | Guided Boring | Microtunneling | Pipejacking | Tunneling



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Concord EPBM job continued...

tunneling line and grade is necessary as to not disrupt the green just 25' above. The second drive is 1,700' and will run under Meridian Park Boulevard, a congested commercial area.

The EPBM will use the same 25' deep, octagonal launch shaft to complete both drives. Upon completion of the first drive, the EPBM will launch again 135 degrees from the first entry point for the second drive. As of this date of publication, Pacific Boring successfully completed the first drive.

Future work includes connecting the 96" RCP to 72" RCP in two drives conducted via microtunneling work by tunneling contractor Nada Pacific of Caruthers, CA. They will complete approximately 870' with an Akkerman MTBM SL60 with an increase kit and MT890

jacking frame along side a Home Depot store. The 72" pipeline will connect to 540' of 48" twin pipelines which will be open cut 540' between the banks of the Walnut Creek channel. Before the final project is fully put into use, CCCSD will test its effectiveness in a wet season cycle to ensure its productivity.



Aerial view of the octagonal launch shaft at Pacific Boring job site.

Akktoberfest

September 25-26, 2008



Planning continues for Akkerman's own "Akktoberfest" on September 25-26, 2008. Akkerman will be celebrating its 35th year of tunneling expertise and would like to revel with those who have made our success possible. On Thursday afternoon, guests will tour our new manufacturing facility and see live equipment demonstrations. Later that day, we will enjoy great food and entertainment in our on site beer garden. On Friday, remaining guests will finalize meetings and questions and play a round of golf in the afternoon. Those attending will enjoy complimentary housing and meals. We hope to see you here!

Recent Appointments and Summer Assistants

It's an exciting time here at Akkerman. All around us is evidence of a busy production schedule as well construction on our facility expansion. Akkerman hosts professional experiences for summer employees to learn about our industry and the manufacturing environment. In April, **Tim Staver** began employment as a machinist in the production department. Akkerman's engineering department acquired **Tim Fay**, design engineer in June. Fay previously worked with Akkerman for several summers. Additionally, temporary summer employees include: **Seth Froyum** and junior assistants **Justin Scherbring** and **Marie Kulmann** in the engineering department; materials handling assistant **Lynn Dorrenkemper**; publications assistant **Andrew Akkerman**; **Jordan Luinstra** in production and **Derek and Joshua Hall** in the painting department.

Request for Job Stories

Are you involved in a job where Akkerman equipment is being utilized in a unique capacity or unusual environment? Did your equipment advance a record distance or perform in particularly challenging ground conditions? Do you have some really cool photos of your Akkerman equipment in use that you'd like to share with us? Please contact Laura at ext. 157 or landerson@akkerman.com to see about collaborating on a job story for print in a trade publication or newsletter.

From the President's Desk



The beginning of the summer finds us in full swing here at Akkerman. An industrious production schedule and our facility expansion project are two things to be truly thankful for. Even though it's easy to become consumed with our internal activities, we believe it's imperative to be informed of what is happening in our industry. We do this by gleaned information from our customers and industry professionals.

The best way to gather what's going on is to visit job sites. Many helpful facts about our products are learned through communication on the job site with equipment operators. Often, Akkerman's innovative designs develop as a result of conversations with our customers.

Akkerman is a regular exhibitor and conference attendee at 12+ industry tradeshows in the US and abroad. Attending tradeshows is an excellent way to keep abreast of industry standards. We recently attended NAT in San Francisco. We are exhibiting at several regional shows through the end of 2008. Next year we are slated to exhibit at UCT, NUCA Utility

Construction Expo, 2009 Int'l No Dig, RETC, ICUEE and several other regional events.

Akkerman holds many individual and corporate memberships to industry associations. Membership benefits make it possible to educate ourselves and maintain connections with trade professionals through events and publications.

We maintain subscriptions and advertise in a variety of trade publications. Many staff members read these publications in print and online. We also purchase many publications for reference and maintain an electronic inventory of references on our server.

I'd like to extend my best wishes to long-time employee Dennis Vogt (a.k.a. Smurf) who recently left Akkerman. His service to Akkerman over the past 20 years will be remembered fondly.

Best wishes for an enjoyable summer!

Maynard

New GBM Accessories

Two new accessories are available for the Guided Boring Machine (GBM) equipment line.

The first is an upsizing tool, the new Cutter Head Assembly, featuring an internal bearing, is designed for hard ground conditions with a blow count ranging from 35-50. It attaches to the last length of pilot tube and the first length of augers and casings to allow the pilot tubes to remain stationary while only the Cutter Head's teeth rotate and excavate.

Our new Universal Auger Bore Rig Adapter allows customers to attach the GBM frame to any auger bore rig track that is 30-72" wide in one simple process.

Questions regarding these two products may be directed to the Sales department at 800.533.0386.



Cutter Head Assembly



Universal Auger Bore Rig Adapter

Come visit us at the following events:

July 22-23, 2008

Trenchless Road Show

Booth #42

Holiday Inn

Strongsville, OH

September 17-18, 2008

Trenchless Road Show

Booth #TBD

Hilton Concord Hotel

Concord, CA

November 11-12, 2008

Trenchless Road Show

Booth #TBD

Turf Valley Resort

Ellicott City, MD

January 20-22, 2009

UCT 2009

Booth #344-345

Gonzalez Convention Center

San Antonio, TX

March 4-8, 2009

NUCA Utility Construction Expo 2009

Booth #736

Phoenix Convention Center

Phoenix, AZ

March 29 – April 3, 2009

2009 Int'l No-Dig Show

Booth #207

Toronto, Ontario, Canada

Sheraton Centre Toronto

Technican's Tip



To get the best performance from your pilot tube investment, Akkerman recommends a cleaning regime following each job before storage. If neglected, solidified lubrication can harden in the annular space and become difficult to dislodge. Akkerman's unique dual-walled pilot tubes should be cleaned between the annular space as well as the inner tube.

First, completely clean each section of pilot tube with a tube cleaner tool. Next, install the fluid connector to each pilot tube section and connect a clean water supply. Rotate and flush each tube's annular space with a recommended minimum water pressure of 10 gpm @ 1,000 psi. After the pilot tubes are dry, lubricate the threads as noted in the Operator's Manual 9-38. Finally replace the thread caps and return the pilot tubes to their rack. As with all Akkerman equipment and accessories, inside storage is most desirable.



Paul Krebsbach (pronounced Krebs-Back), aftermarket support specialist, joined the aftermarket support department in May. Krebsbach has been employed with Akkerman for close to nine years as a mechanic. During this

time, he has built and serviced virtually all types of Akkerman equipment with an emphasis on the conventional line. Prior to his employment with Akkerman, Krebsbach worked at an agricultural implement dealer mechanic on hydraulics, electric, engines, and maintenance. You may contact Paul at 800.533.0386 ext. 117 or pkrebsbach@akkerman.



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