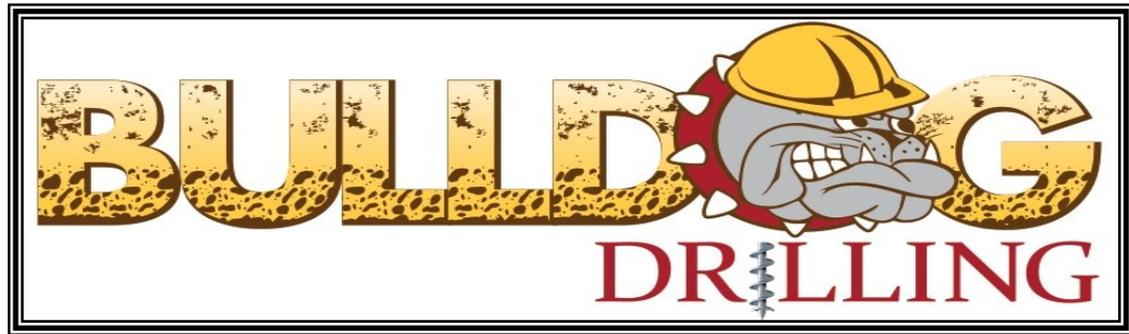


4th Quarter  
2016  
ISSUE

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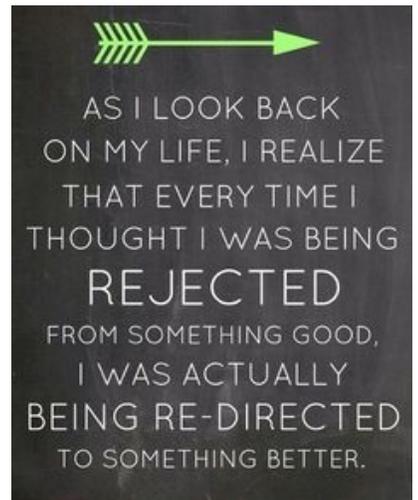
This month's featured article is Bulldog Drilling's "Direct Push Technology" or DPT sampling (commonly referred to in the industry as Geoprobe® Sampling).

For DPT sampling, Bulldog Drilling typically uses the AMS 9500-VTR DPT rig. This rig has hydraulic probe and hammer features, along with rotary Hollow Stem Auger (HSA) capabilities. All of Bulldog's HSA rigs do have the capabilities to perform DPT tasks. The unique advantage to the AMS unit is the size; it is a compact unit. The width is 78 inches and the travel height is 101 inches tall. With the tower and mast up, the overall height is 14 feet-11 inches, however, with the mast retracted (height 11 feet) the operator can utilize three foot (3ft) tooling in limited height locations.

Bulldog's DPT Sampling capabilities include soil sampling with MACRO® Core System (MC) (5ft, 4ft, and 3ft lengths) or Large Bore™ devices, vapor sampling, vapor Implant installation, groundwater sampling, temporary piezometer installation, chemical injection (ISRRs), and CPT testing. With the HSA capability, the unit can perform SPT and ST sampling, set monitoring wells (MW's), core concrete and asphalt, plus abandon MW's and well protection.



(continued on Page 2)



"Never take a job where winter winds can blow up your pants."

- Geraldo Rivera

# A Look From Within: DPT Sampling

Some notable sampling that the Bulldog crews have accomplished was:

- \* CPT testing on over 100 transmission towers for AMEREN.
- \* Chemical Injection at MGP and landfill sites,
- \* Over 1000 MC PH's and PZ's installed and sampled,
- \* Multiple UST Vapor Monitoring points installed, and
- \* Nearly a 'football length' of pavement coring was done.

On a facility in West County in St. Louis, the AMS rig crew collected Shelby tube (ST) samples in multiple borings.

Likewise, on a runway at the St. Louis Airport, the AMS crew cored the taxiway apron and collected SPT and ST samples for clients. For MSD, general contractors had the AMS crew to take rock soundings at various locations for new sewer mains and laterals.

In 2016, Geoprobe sampling was completed at more than 50 sites in the Midwest for 35 different clients.



“What good is the warmth of summer,  
without the cold of winter to give it sweetness.”  
– **John Steinbeck**

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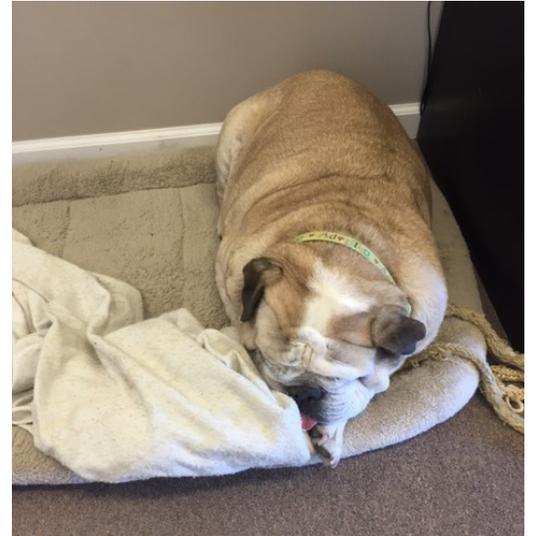
# Otis' (and Axle's) Corner



*Ok, so I don't like the thunder & lightening. I'm just glad dad let's me hang out in his office with him while it's going on. But, any other time, I'm big and mean.*



Axle is practicing his hibernating techniques for the winter. I think he has them down already, but practice never hurts.



*We would like to wish everybody a Merry Christmas and a Happy New Year!!*





# From The President's



Well 2016 is coming to an end quicker than I like because it just means time is flying by at a high rate of speed!! The year has been an interesting one to say the least, with project cancellations and delays like we have not seen in a long time. We attributed this to the elections, which according to Tom, Craig, several clients & vendors, this has been the case in previous election years. But with that being said we did ok and we are very thankful for the work we got.

I just want to convey to all of our clients how appreciative we are for your support and the projects you gave us in 2016. The trust and confidence that you have in our company to provide professional and quality service is never taken for granted. We know that if we don't meet or exceed your expectations, you have other options available. This is conveyed frequently to our drilling crews because they are out in the "trenches" with the clients and field personnel. We expect them to represent the company & it's exceptional standards so we continue to be your #1 choice. With that being said, we hope you will continue to give us the opportunity to work with you in the future.

We wish everyone prosperity, good health, and happiness for 2017. Happy Holidays!! *Sherri Marlo*

Thank you for taking the  
time to read the  
Bulldog Bulletin!  
We appreciate all your  
support and business.



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**Bulldog Drilling, Inc. offers high quality Geotechnical and Environmental drilling services to various types of clients including private individuals, Consulting Firms, State, Federal and Municipal Governments. We have the necessary equipment, trained personnel and experience to perform soil borings, soil sampling, monitoring well installation, rock coring, direct-push Sampling, and many other services in support of Geotechnical and Environmental projects. We welcome the opportunity to provide our services for both small & large projects!**

- **Geotechnical and Environmental Drilling, Sampling, and Monitoring Wells**
- **Woman-owned business**
- **Licensed in four Midwestern states & New Jersey**
- **More than 40 Years of Experience**