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## Inside

- Brian Begley Appointed New PGDP Section Supervisor and FFA Manager Pg. 2
- Bill Murphie Retires Pg. 3

# Oversight News

Newsletter of the Commonwealth's Environmental Oversight of the Paducah Gaseous Diffusion Plant (PGDP)

*Kentucky Department for Environmental Protection  
Division of Waste Management  
Hazardous Waste Branch  
Paducah Gaseous Diffusion Plant Section*

## SWMU 1 Deep Soil Mixing Project Treatment Completed



The clean-up project to remediate historical trichloroethene (TCE) contamination at Solid Waste Management Unit (SWMU) 1 was completed on Oct. 8, 2015. The project deployed eight foot diameter augers to mix the TCE-laden soils from the surface down to a depth approaching 65 feet below the ground surface. During mixing operations steam was injected through the auger and a vacuum was maintained at the surface via a 12-foot diameter shroud. This process was repeated until concentrations in the vapor stream

met pre-determined criteria. The final remedial step injected zero-valent iron at varying concentrations which were dependent upon the initial concentrations observed in the vapor stream. Once all of the heavy-equipment was removed, soil stabilization efforts commenced and lime was used to amend the soil. Lime stabilization activities were completed on Nov. 13<sup>th</sup>. Final grading of the site, including returning four feet of soil removed prior to treatment, will take place as weather permits. Post-treatment sampling will take place in about six months, to allow time for the

**SWMU 1 during soil stabilization with lime.**

subsurface soil to cool down, which will also allow the zero-valent iron to further interact with any residual TCE.

DOE has estimated that approximately 25 gallons of TCE was recovered from the steam/vapor treatment process. The amount of TCE that was destroyed and/or treated in-situ as a result of the steam and zero-valent iron injections is expected to be much greater than the amount recovered.

## Brian Begley Appointed new PGDP Section Supervisor and FFA Manager

On Nov. 1, 2015 Brian Begley was promoted to section supervisor of the Paducah Gaseous Diffusion Plant (currently referred to as Paducah Site) Section within the Kentucky Division of Waste Management's Hazardous Waste Branch. The Paducah Site Section currently consists of six staff with more than 130 years of combined environmental-related experience, 73 of which has been supporting the Paducah Site Section. Brian is excited to be the supervisor of such a diverse and experience-rich section.

Brian started his career with the Commonwealth of Kentucky in 1999, working in the Paducah Site Section. In 2003, Brian earned his Professional Geologist license. Brian grew up in Cincinnati, Ohio and started da-

ting his wife (Jennifer Faul Begley) of 18 years, during their Senior Year at Colerain High School. Both completed undergraduate studies at Hanover College in 1996, where Brian earned his Bachelor of Arts degree, majoring in Geology. Brian was offered a full-ride scholarship to continue his education and attend Graduate School at the University of Akron. Brian earned his Master of Science degree from The University of Akron in 1998 and his wife completed a Master of Social Work degree from the University of Kentucky in 1999. They have lived in Lexington since 1998 where they are raising two boys.

Brian is an avid basketball and football fan. He enjoys working in the yard and spending time with his family and friends.

Congratulations Brian!



Brian Begley



## Bill Murphie Retires

Bill Murphie, Paducah Portsmouth Project Office (PPPO) Manager, retired Dec. 3. His career with DOE began in 1980. He served on the team that established the Ohio Field Office and later the PPPO. He was PPPO Manager since its inception 12 years ago. We wish Bill the best in his retirement. Robert Edwards will serve as the acting PPPO Manager until a permanent replacement is selected.



### *Kentucky Department for Environmental Protection*

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The mission of the Kentucky Division of Waste Management is to protect human health and the environment by minimizing adverse impacts on all citizens of the Commonwealth through the development of fair, equitable, and effective waste management programs.



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## Kentucky Department for Environmental Protection

Kentucky Environmental Oversight News is published quarterly by the Kentucky Department for Environmental Protection's Division of Waste Management. It features information regarding environmental cleanup activities at the Paducah Gaseous Diffusion Plant site and related topics. Additional information is available from:

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