

# Middle River Complex Photo Tour - Groundwater Treatment System Construction

August, 2013



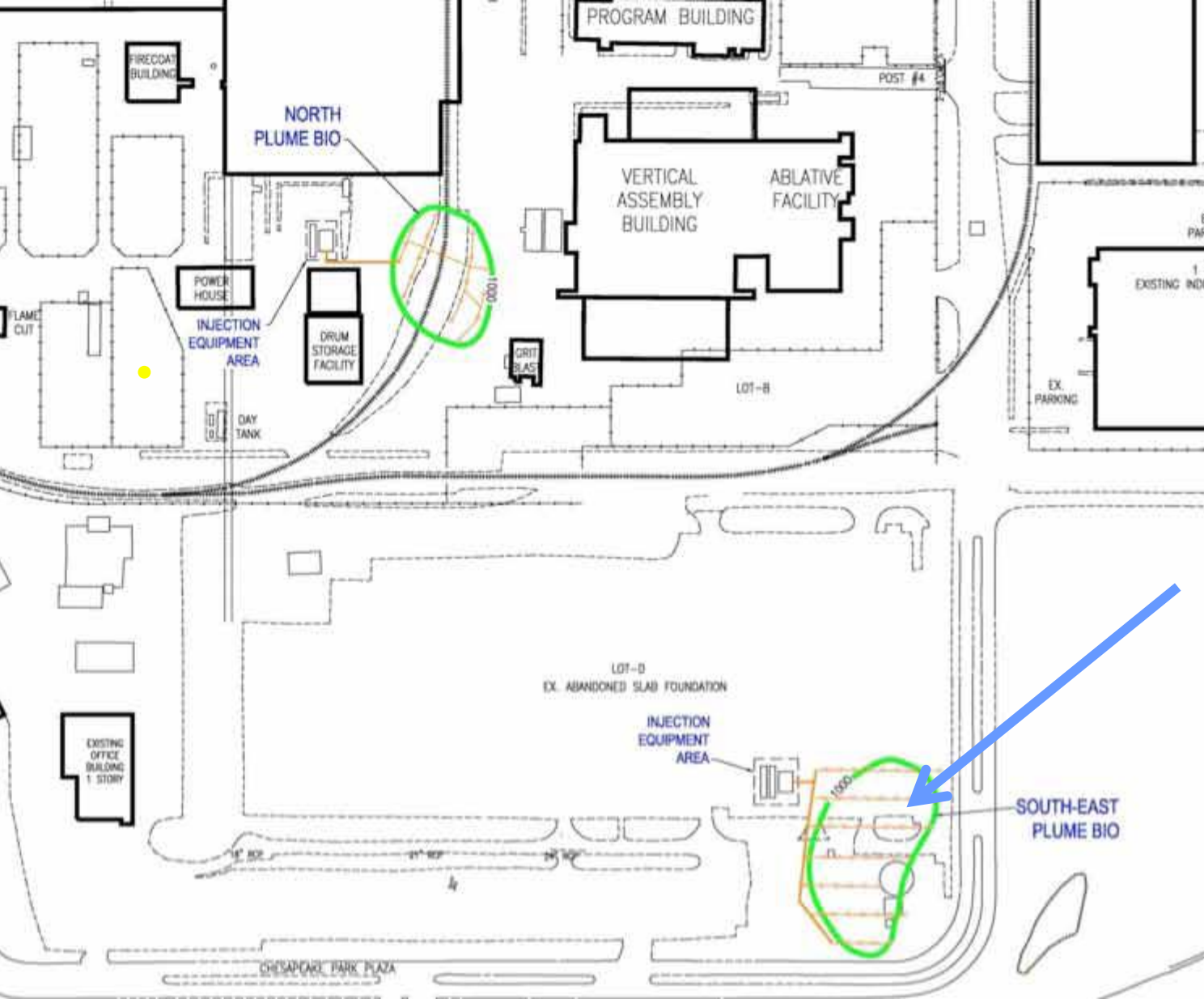
**Tom Blackman**  
Project Lead

**Gary Cambre**  
Communications Manager





**Trench digging, soil evaluation and removal as needed, and site preparation began in June 2013 in preparation for groundwater treatment system construction. Initial work was performed at Block E, the location of the former Building D, in the area near the water tower.**



**Block E construction work prepares the Southeast plume area to build one portion of the groundwater treatment system.**





**While site work is performed, ongoing safety measures include monitoring for dust in air and fencing to control erosion. 4**





**Air monitoring is performed using a portable device, called a Photoionization Detector (PID), to measure levels of volatile organic compounds in the air to protect site workers, employees and neighbors.**





**Challenges faced by the project team included significant amounts of rain in Summer 2013.**





**Summer rains  
kept trenches  
wet.**





**Trenching continued as weather improved.**





**Additional challenges came with the discovery of the first of two unexpected underground tanks.**





**The first unexpected underground storage tank held waste water and had stored petroleum/diesel. Contents were drained, drummed and tested for proper disposal.**





**Rain continued to provide challenges.**





**Erosion control measures are effective as rain continued to provide challenges.**





**Complications uncovered during construction included discovery of ventilation ducts (left), French drains (below), and other infrastructure located beneath former Building D, which unfortunately served to collect and drain rainwater.**







**Excessive rain required the use of tanks to store and separate hazardous and nonhazardous water which was then tested for proper disposal.**







**Side walls of  
trenches are tested  
to determine  
remaining levels of  
contamination in the  
soil.**







**A broken storm pipe is discovered and needed repair before being returned to use.**





**The damaged storm pipe is repaired.**





**A second unexpected underground storage tank contained trichloroethene (TCE), water and sediment, requiring additional worker protection measures be taken, and expanded air monitoring to help identify contaminants. The tank contents were drained and properly disposed.**







**The second unexpected underground storage tank, which had contained TCE, was removed for proper disposal.**





**Weather finally allows trenches to be filled.**

**Work at Block E continues and will be followed by work at Blocks G and I. Future updates will be provided.**





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Due to weather and foundation complications at Block E, the project schedule is experiencing delays. Work will continue as weather permits until completion.

For more information contact:

Gary Cambre, Senior Communications Manager  
800-449-4486 or [gary.cambre@lmco.com](mailto:gary.cambre@lmco.com)