

Public Participation is essential to the success of EPA's community involvement program. If you have any questions, please contact:

Brian Quinn

Remedial Project Manager
(212) 637-4381
quinn.brian@epa.gov

Donette O. Samuel

Community Involvement Coordinator
212-637-3570
samuel.donette@epa.gov

For more information on the site, visit:
www.epa.gov/superfund/bridgeport

Current and Upcoming Activities

In spring/summer 2021, the U.S. Environmental Protection Agency (EPA) will begin the second phase of the groundwater cleanup process at the Bridgeport Rental Oil Services (BROS) Superfund site as laid out in the cleanup plan selected for the site in 2006. During phase 2 of the cleanup, a Pumping Facilitated Enhanced Biodegradation (PFEB) technology will be used to further reduce levels of contaminants of concern in groundwater at the site. EPA studied the effectiveness of the PFEB technology during a pilot study completed in June 2020. When that study was completed, the existing groundwater extraction and treatment system (GWETS) was restarted and will continue operation until the new PFEB system is designed and installed. The PFEB technology successfully treated site groundwater contaminants during the pilot study, and an engineering design for this technology is underway. The design work is expected to be completed in June 2021. Installation of the PFEB technology will begin in Spring 2021 and it will be used from June 2021 to May 2023. This will be followed by extensive monitoring to ensure the effectiveness of the technology. The

groundwater cleanup at the site includes shallow and deep groundwater components. In many areas, a clay layer separates the shallow groundwater from the deep groundwater. The shallow groundwater cleanup work has been ongoing for approximately 10 years and consists of "bioslurping," where contaminated oily product is vacuumed from the top of the groundwater while associated vapors and gases are also captured. Deep groundwater is being pumped and treated in-situ, or in place, with chemical and biological agents that change harmful contaminants into less toxic ones. Treatment of deep groundwater began in 2013 and it has substantially reduced contaminant concentrations.

Past Activities

To date, nearly 300 million gallons of deep contaminated groundwater have been extracted and treated at the site. Based on sampling results, EPA has determined that the existing deep GWETS has already substantially reduced contaminants in deep groundwater, but the system's effectiveness has declined over the years. This trend indicates the need to transition to another remedial technology to reach the cleanup goals for the deep groundwater. The GWETS was temporarily shut down to conduct a pilot study on the new PFEB technology between March 2019 and May 2020 and was turned back on in June 2020.

Wetland remediation and restoration was completed on July 26, 2018. A Five-Year Review of the remedy, completed by EPA in September 2018, concluded that although groundwater cleanup goals have not yet been met, the remedial activities conducted to date have effectively addressed exposure pathways and currently protect human health and the environment.

Site Background

The BROS Superfund site is a 30-acre property in Logan Township, New Jersey. From 1960 to 1981, the site was a waste oil storage and recovery facility that included a waste lagoon and tank farm. The vessels and tanks stored 2.5 million gallons of oil contaminated with polychlorinated biphenyl (PCB)-contaminated sediments and sludge, and 70 million gallons of contaminated wastewater. Groundwater underlying the site and extending about 6,000 feet from the lagoon was contaminated with PCBs and volatile organic compounds (VOCs). The waste lagoon breached its dike in the early 1970s and caused widespread damage to nearby wetlands. Cleanup activities for the site are being performed by responsible parties and overseen by EPA. The area surrounding the site is primarily rural and agricultural. EPA placed the BROS site on the Superfund Program's National Priorities List (NPL) in 1983.

Map of Bridgeport Rental Oil Services Superfund site

