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BIO-TECH TALK

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GBI BREAKS GROUND AT NEW SITE

On July 7, 2004, GBI began installation of a *Butane Biostimulation Technologies*™ treatment system to remediate petroleum contamination resulting from historic releases at a former gasoline dispensing facility located in Waltham, Massachusetts.

According to the Waltham Fire Department historic records, there have been as many as 12 underground storage tanks (USTs) at the Site. Most notably, the Site had a 1,000-gallon diesel fuel UST, which was installed in 1970, and a 275-gallon heating oil UST of unknown age. According to the Site owner, the 1,000-gallon diesel fuel UST and the 275-gallon heating oil UST were removed from the Site around 1982. On April 18, 1982, a 5,000-gallon UST and three 6,000-gallon USTs were removed from the Site. Waltham Fire Department personnel were present during the UST removals. No leakage or soil contamination was observed during the UST removal activities.

The use of *Butane Biostimulation Technologies* ™ was proposed for the Site as a Release Abatement Measure (RAM) Plan. The *Butane Biosparging*™ component of the treatment system is designed to treat groundwater by employing an engineered system to enhance biological destruction of contaminants *in-situ* by promoting the growth of naturally occurring butane-utilizing bacteria. GBI has developed several innovative and patented processes that include the use of a skid-mounted butane delivery system that introduces butane to the subsurface through small diameter injection wells. The technology is inexpensive compared to conventional technologies and results in contaminant destruction within the subsurface, thus eliminating the need for transfer media such as activated carbon. Inoculation or bioaugmentation methods are not employed at a treatment site.