LT Environmental, Inc.
Advancing Opportunity

PROBLEM SOLVED
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Unprecedented Closure of Large Industrial Site with DNAPL Impact

PROJECT HIGHLIGHTS:

1. Used innovative injection techniques to deliver successful treatment in highly complex setting.
2. Met the challenge to achieve unrestricted residential land-use status for site redevelopment.

Client: Gates Development Corporation

Site Location: Denver, Colorado

Duration: March 2005 – June 2016

Services Provided:

- Health & Safety
- Site Investigation
- Engineering
- Pilot Testing
- Remediation
- Materials Management
- Construction Management

CHALLENGE:

Our client needed site closure to begin redevelopment at the Gates Development Corporation (Gates) property. LTE was hired to successfully close the site so redevelopment could begin as soon as possible.

APPROACH:

After encountering extensive dense non-aqueous phase liquid on site, the LTE team used our TerraCert® program to conduct widespread soil, groundwater, and soil vapor sampling to obtain a high-resolution reliable data set. We used that data to fully characterize the geometry and magnitude of the plumes, create an innovative design, implement appropriate successful remedies, and then monitor the effectiveness of the treatment.

RESULT:

The LTE team confirmed the treatment approach was successful. The key to the success of the project was that negotiations with the Colorado Voluntary Clean Up Program were conducted to demonstrate closure requirements on portions of the property as they occurred during the life of the project. This allowed redevelopment to occur in remediated areas while the remaining areas were treated. Site closure was achieved via TerraCert® for one of only a few fully-remediated chlorinated hydrocarbon sites in Colorado. LTE's innovative solution allowed Gates to eliminate future liability and to rapidly divest the property for redevelopment for both residential and commercial reuse.