

## Monitored natural attenuation - BTEX

### Problems:

- 12 000 µg BTEX/l (BTEX: benzene, toluene, ethylbenzene, xylenes)
- 10 000 tons of soil affected
- Subsurface: fill material, sand

### Our Responses:

- Bioremediation feasibility study undertaken proving that the diffuse BTEX contamination can be degraded within the boundaries of the site after removing hot-spots with high ecotoxicity.
- Natural attenuation rate stable and sufficient
- Monitoring system installed

**Location:** Annecy, France

**Initial cost estimates using standard technologies:** 1 mill US\$

**Actual costs using *in-situ* bioremediation:** 150 k US\$

**Time for active *in-situ* remediation :** 0 years