

## Remediation of PCP-contaminated Wood Pole Storage Yards



### TYPE OF CLIENT:

Telecommunications  
Company

### COST (\$CAN):

- < 500 K  
 0.5 – 1 M  
 1 – 5 M  
 5 – 10 M  
 > 10 M

### BACKGROUND

Outdoor storage facilities for wood poles treated with pentachlorophenol (PCP) can generate significant soil and groundwater contamination by leachate due to exposure to heat and precipitation. Biogénie's mandate was to restore the existing storage sites, as well as design and manage the construction of 16 new storage sites equipped with efficient, economical and low maintenance environmental protection systems.

Other logistical challenges stemmed from site location (residential area), permanent structures, power lines and strong odors emanating from the contaminants.

### SOLUTION

The PCP-contaminated soil was treated utilizing Biogénie's *ex situ* Biopile process. The environmental protection system consisted of impermeable recovery basins that directed the PCP-contaminated storm water to a physico-chemical treatment unit. Once separated from the water, the oily solvent was sent for disposal and, in accordance with negotiated criteria with different municipalities, the water was discharged into the sewage system.

### SERVICES

- Characterization study to determine the extent and degree of soil and groundwater contamination on the existing storage sites;
- Remediation of commercial and industrial storage sites, notably the biological treatment of 6,000 tons of PCP-contaminated soil;
- Design of environmental protection systems for soil and groundwater assuring the recovery of PCP-contaminated water utilizing a physico-chemical treatment process;
- Design, preparation of plans and preliminary estimates, as well as documents pertaining to proposals for the construction of environmental protection systems;
- Secure certificates of approval from the Ministry of Environment for the construction of 16 new storage sites;
- Management of the construction phase of the new storage sites;
- Environmental monitoring (sampling of recovered water, treated water and groundwater).