

***“A clean environment is a safe environment”
The asbestos removal case***

BONATTI J&P AVAX_TAP PROJECT

IPLOCA ENVIRONMENTAL AWARDS 2018

Sponsored by Shell

Findings

- The present case study is related to the removal of over **450,000kg** of **Asbestos contaminated materials** from several locations along the right of way of Trans Adriatic Pipeline (Lot 2 & 3)
- Greece suffers from a legacy of poor waste management infrastructure and regulatory control – Long history of unauthorized waste disposal sites
- Fly tips and potentially contaminated soils were identified during Pre Construction Surveys and further investigation was required to develop a plan for action
- During PCS 10 waste disposal sites were identified – of which 6 were later assessed to contain asbestos soil material: KP's 261, 357, 360, 371, 373, 414

Solutions

- After evaluation of all the possible alternatives such as pipeline rerouting, it was decided to proceed with asbestos removal and reinstatement of the areas
- Solution proposed had the aim of creating a safe environment for the personnel working for the pipeline installation, for local communities and landowners

Implementation

- **PCS** recorded the presence of illegal fly tips
- Development of **Site Specific Landfill Treatment Plans**
- Site investigation with trial pits and **soil samples** for laboratory analysis
- Identification of the areas that are contaminated with **asbestos**
- No facilities for disposal within the Country
- Sub-contractor **removed asbestos** contaminated soil from each of the 6 sites to a licensed storage facility until final disposal
- **Final disposal** undertaken – more than 450,000 kg of material transferred to landfill in Germany
- **Cradle-to-Grave Waste Duty of Care** – Transfer Notes, Report of Analysis, International Consignment Note
- Ministry of Environment inspected the sites post clearance and provided **Certificate of Reoccupation** of the land
- Pipeline construction and **reinstatement**, sites are now in a better condition than before

Implementation



Achievement & Long term planning

Achievement

- Over 450,000kg of asbestos were successfully removed
- No construction delays
- Working on a safe environment
- Delivery of over 4,000m² of land in better condition than before. The value of the land and its surroundings has increased

Long term planning

- A difficult case study that was successfully managed – to be used in future projects
- Social aspect campaign on local communities regarding the risks of asbestos in public health and the environment