## PROJECT SNAPSHOT

**Dioxin Treatment at Da Nang Airport - Phase 2** 

Location: Da Nang, Vietnam	<b>Goal:</b> 150 ppt for 2,3,7,8-TEQ
Client: USAID	Number of Heaters: 1,254
Contamination: Dioxins (2,3,7,8-TEQ)	Duration: 9 months of operation
<b>Volume:</b> 49,071 m <sup>3</sup>	Pile Size: 105m by 70m by 6m
Mars than 40 years ofter the Vietnam War during which Agent	

WHAT MAKES THIS PROJECT UNIQUE? More than 49 years after the Vietnam War, during which Agent Orange was used for defoliation, a large area at the Da Nang airport remained heavily contaminated by residues of the chemicals, including dioxins such as 2,3,7,8-tetrachlorodibenzo-p- dioxin. U.S. Agency for International Development (USAID) funded and implemented this project in partnership with the Vietnam Ministry of National Defense. TerraTherm's role included design, construction, operation and decommissioning of the in-pile thermal desorption

(IPTD<sup>®</sup>) treatment system and treatment of the contaminated soil and sediments tin two sequential phases.

## **Important Project Details**

- Approach: For Phase 2, impacted soil was excavated and loaded into a pile the size of a football field and 6m tall. With a required target temperature of 335°C for effective treatment, thermal conduction heating (TCH) was the only available heating technology. The soil was heated, treated, cooled and used as clean fill for airport expansion after confirmatory sampling.
- **Challenges:** Heating was observed to be slowest at the top and bottom of the pile. This prolonged the first phase, and lead to improvements of the cover design, and a revised heating strategy for Phase 2, which was completed on schedule.
- **Results:** Contaminant concentrations were reduced from a range of 2,461 to an average of 0.199 ppt. TerraTherm received the EBJ 2018 Business Achievement Award for Project Merit in Remediation.



## **CONTACT INFO**

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