



Terracana Installs (220) Helical Piles for an 1100 Ft. Boardwalk in Tsawwassen British Columbia

2016



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Project Name & Location:	Boardwalk - Tsawwassen British Columbia
Project Date:	2016
Project Type:	Turnkey Construction Project - Design, Engineering, Pile Installation and Construction
Helical Pile Installation Contractor:	Terracana Foundation Solutions - Richmond, BC
Helical Piles Specifications:	(220) .875" Schedule 80 RCS Helical Piles with 10",12",14" Helix Bearing Plates, Galvanized
Soils & Embedment Depth:	Sand and Clay. Average 40 ft. Embedment Depth
Project Timeline:	(2.5) Months
Helical Pile Manufacturer:	All Piles Manufactured by Terracana Foundation Solutions

In 2016 Terracana Foundation Solutions was contracted to design, engineer and construct an entire boardwalk in the marshes of Tsawwassen south of Vancouver, BC. Helical piles were the chosen as deep foundation support for the boardwalk because of the small footprint of the installation equipment and for the minimal impact the piles and the installation process would have on the estuary.

A total of (220) 2.875" schedule 80 piles were installed to an average depth of 40 feet. The lead sections were designed with 10-12-14 inch helix bearing plates. All of the piles were hot dip galvanized. A pre-production load test to 40 kips was successfully completed. Terracana manufactured all of the helical piles.

This was a build-as-you-go project with crews using a backhoe with an extended reach boom for helical pile installation. Terracana's team installed the helical piles and constructed the entire 14' wide boardwalk including the handrails in 2.5 months.

