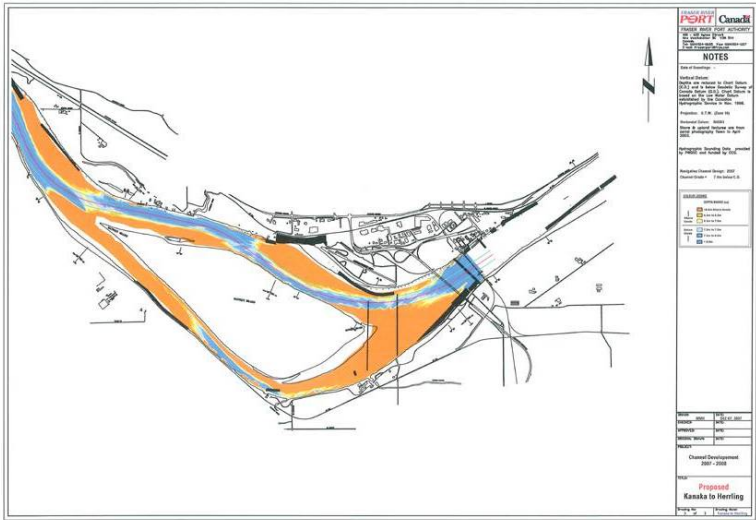




Fraser River Port Authority: Navigational Channel Prefeasibility Study-Kanaka Creek to Herring Island

Issue

The Fraser River Port Authority (FRPA) retained TyPlan to prepare a prefeasibility study associated with the creation of a navigational channel from Kanaka Bar (Maple Ridge) to Herring Island (District of Hope), intended to support the future development of a multimodal facility along the Fraser River.



Innovation

TyPlan utilized two design methodologies in the determination of the navigational channel, they included:

- 1. Canada Coast Guard Navigational Impact Assessment Guidelines (“CCG NIAG”)
- 2. The International Navigation Association (PIANC) report entitled: “Design of Approach Channels (Volume 2)”.

The conceptual design was based on initial physical, environmental data identifying sensitive fish habitat, water lots and water depth potentially restricting the development of a channel and the subsequent identification of a design ship or control vessel governing the navigational channel characteristics.

Solution

The study resulted in the identification of a 160 m wide 7.5 m draft navigational channel from Kanaka Bar to the Mission Foreshore, identifying a location that would support a multimodal facility.

This block contains contact information and a photograph of a team. On the left, the text reads: 'Contact Information', 'TYPLAN', '604.461.6664', 'or', 'russ@typlan.ca'. On the right, there is a photograph of four people (three men and one woman) in business attire, smiling and looking at a document together. The background of the photo is a light blue gradient.