



DEWA - In-River Test Program

Marine Users Group

October 16th 2025

Template No. FRTP-CFP-PWD-50-QUA-TMP-00044 R0

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Agenda

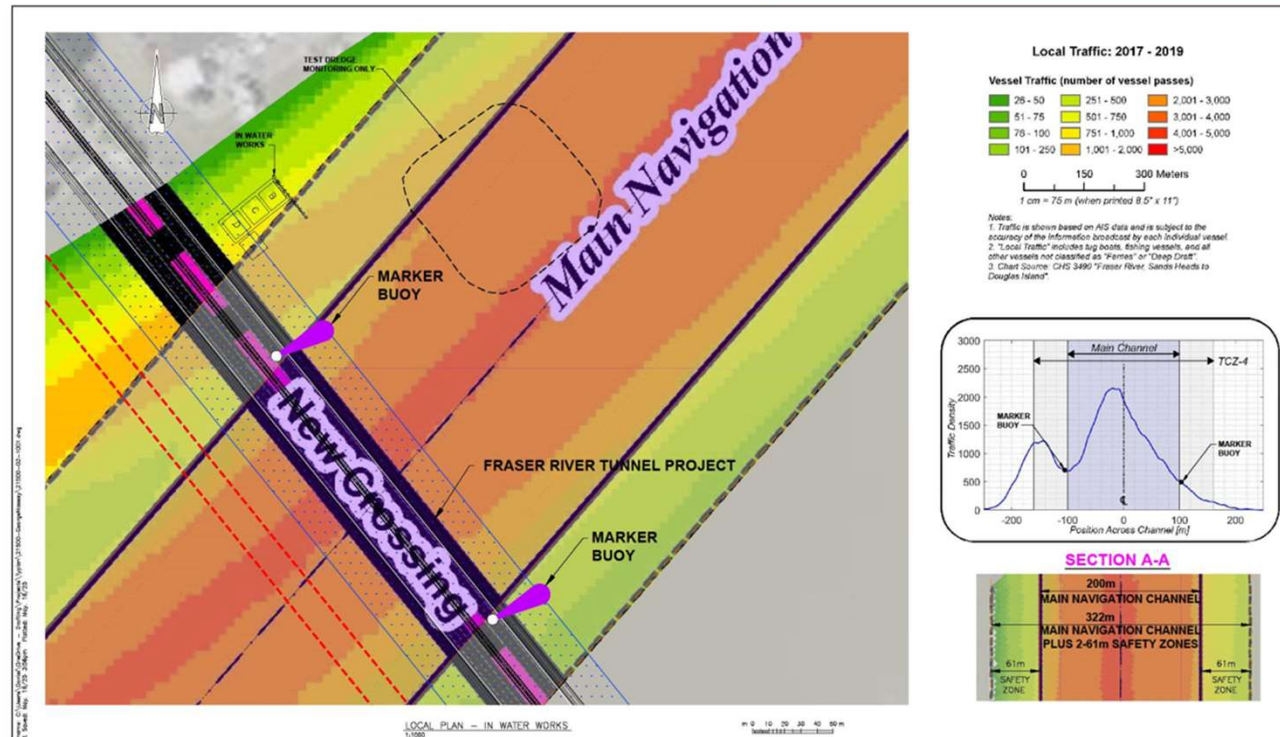
- 1 – Introductions**
- 2 – Overview**
- 3 – NAVWARNs / Daily Exhibits**
- 4 – Communications**
- 5 – In-River Test Program**
 - **Organization / Contacts**
 - **Schedule**
 - **Navigation**
- 6 – Main Channel Geotech.**
- 7 – Ladner Reach**
- 8 – Organization / Contacts**
 - **Schedule**
 - **Navigation**
- 9 – Questions**



In-River Works

Site Clearance, Ground Improvement, Trial Separation Wall, and Test Dredge

Note: ADCP Buoy Location has been modified based on discussions with mariners and regulators



NAVWARN / DAILY EXHIBITS

- NAVWARNs issued weekly to Mariners – 96 hours in advance VIA MCTSCCG
- NAVWARNs updated weekly for any significant change in the works and marine equipment locations.
- NAVWARNs cancelled to return navigation to normal operations
- Daily Construction Notices (Exhibits) provided to CMC FRP and FRIA
- . Planned positioning of marine construction equipment distributed at (8 AM daily)

Canada



Canadian Coast Guard
www.ccg.gc.ca

MCTS Western NAVWARN Issuing Desk
Website: nls.ccg.gc.ca
Phone: 250-627-3070
Email: mctsvictoria@pac.gc.ca

Navigational Warning Request

Organization Name: Crosser Fraser Partnership (CFP)

Site Name: Fraser River Tunnel Project: Geotechnical Investigations – Main river channel

Start Date and Time: January 31st 2025 at 12:00
End Date and Time: February 3rd 2025 at 08:00

Location of Activity: Fraser River in the vicinity of the existing George Massey Tunnel
Lat 49° 07' 17.99" N
Long 123° 04' 32.26" W

- The planned location of barge will be shared each day in a notification to marine users.

Brief Description of Work: Geotechnical investigation (drilling) works will be conducted from a spud barge in the river.

Hours of Operation: 24/7

Vessels on Site: PPMCC Derrick Barge (Vessel ID: PAMTAY), Westview Chinook Tug (Vessel ID: VG3278).

VHF Channel Monitored:
VHF channels to be monitored include: Channel 16 for the Canadian Coast Guard, Channel 74 for Emergencies, Channel 72 for geotechnical Marine Contractors (Foundex).



Fraser River Tunnel Project
Suite 1100-401 West Georgia Street
Vancouver, BC V6B 5A1

Transportation Investment Corporation
Cross Fraser Partnership
2100 – 401 West Georgia Street
Vancouver, British Columbia
V6B 5A1

Date Range: March 31 – April 06, 2025
CFP Prime Contractor Designation

This daily notification provides an update on the status of geotechnical investigation works for the Fraser River tunnel project. These daily updates are a supplement to the weekly NAVWARN which should be referred to for further detail of the project.

The PPMCC "PAMTAY" barge shown in Figure 1 will be operating in the North navigation channel. The Mercury "MLT 4" barge will be operating in the Steveston temporary moorage area (Figure 2).



Figure 1: Geotechnical Investigations Stage 16 (PAMTAY barge)

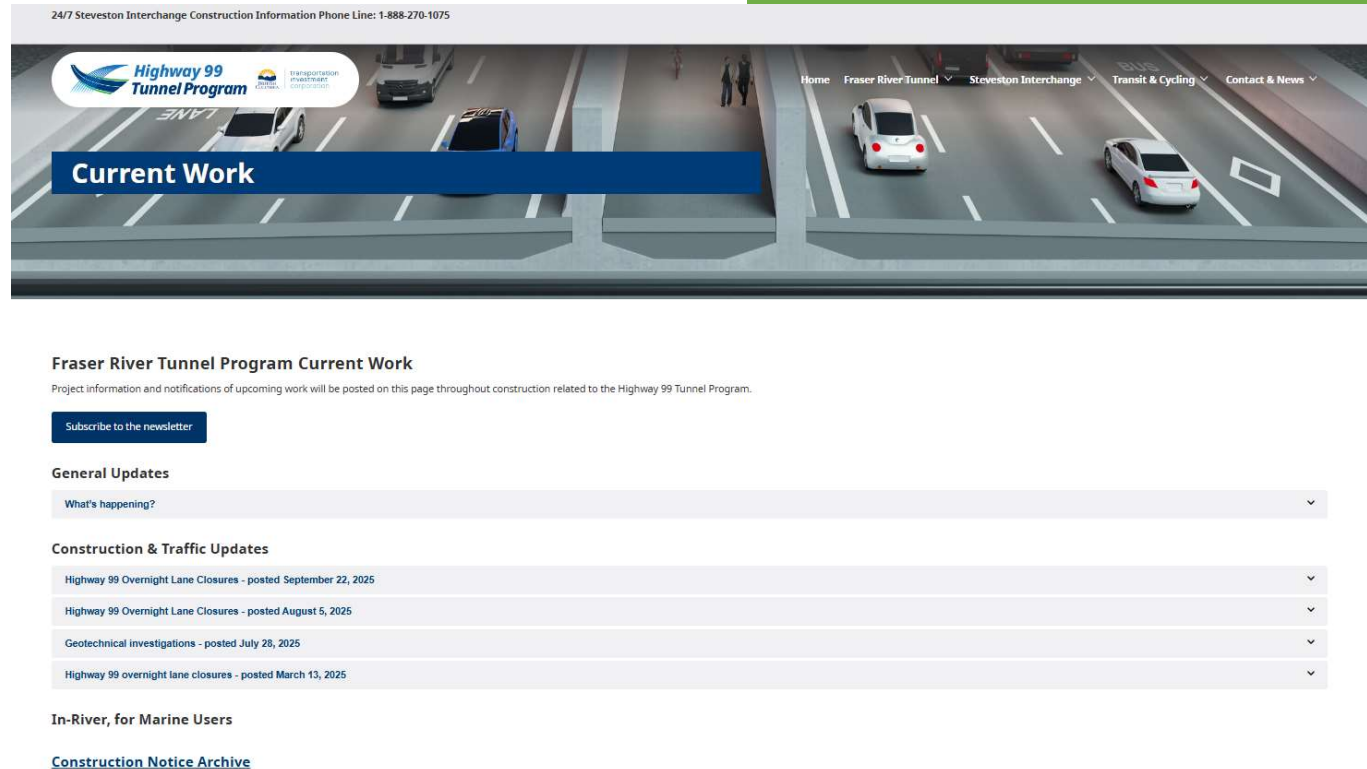
PROJECT WEBSITE

CONSTRUCTION UPDATES

- At the request of mariner's a project web site has been set up to support project activities (works) potentially impacting navigation
- Overall Marine Construction Staging Plan and Marine Communication Plans (MCSPMCP) will be posted on the web site
- Weekly project NAVWARNs will be posted
- Daily construction Notices will be posted
- Key contacts for all projects will be identified

Highway99Tunnel.ca

24/7 Steveston Interchange Construction Information Phone Line: 1-888-270-1075



Highway 99 Tunnel Program

Home Fraser River Tunnel Steveston Interchange Transit & Cycling Contact & News

Current Work

Fraser River Tunnel Program Current Work

Project information and notifications of upcoming work will be posted on this page throughout construction related to the Highway 99 Tunnel Program.

[Subscribe to the newsletter](#)

General Updates

What's happening?

Construction & Traffic Updates

- Highway 99 Overnight Lane Closures - posted September 22, 2025
- Highway 99 Overnight Lane Closures - posted August 5, 2025
- Geotechnical investigations - posted July 28, 2025
- Highway 99 overnight lane closures - posted March 13, 2025

[In-River, for Marine Users](#)

[Construction Notice Archive](#)

RECREATIONAL NOTICES



transportation
investment
corporation



NOTICE: GEOTECHNICAL ACTIVITIES IN THE FRASER RIVER

In-river geotechnical work for the Fraser River Tunnel Project will begin in late October 2025 and continue until February 2026.

- From Monday to Saturday, crews will work day-shifts from barges and other marine equipment in the areas identified on the map below (yellow).
- During certain periods of construction, night shifts will be in effect.
- Recreational boaters should use caution transiting through the work areas shown below.
- Weekly navigational warnings will be posted to highway99tunnel.ca/ERT-Current-Work.



LEGEND  Geotechnical investigation area

Contact the Project



Project website
highway99tunnel.ca



Project email
highway99tunnelprogram@gov.bc.ca



Marine channels
VHF 16 – Canadian Coast Guard
VHF 72 – Geotechnical Marine
Contractors
VHF 74 – Emergencies

- At the request of mariner's a project web site has been set up to support project activities (works) potentially impacting navigation
- Overall Marine Construction Staging Plan and Marine Communication Plans (MCSPMCP) will be posted on the web site
- Weekly project NAVWARNS will be posted
- Daily construction Notices will be posted
- Key contacts for all projects will be identified

In-river Test Program and Supplemental Test Dredge

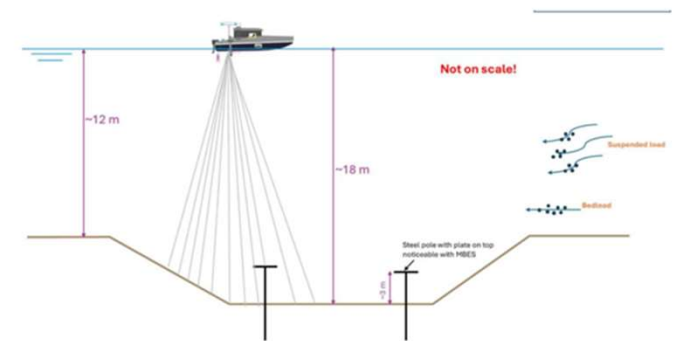
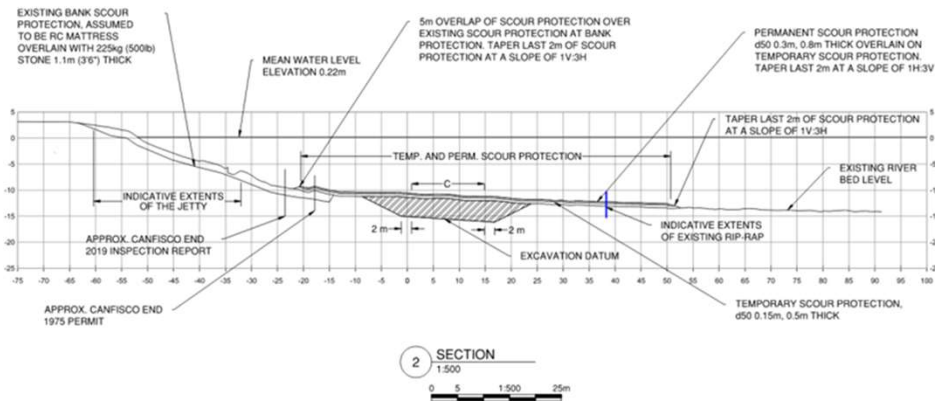
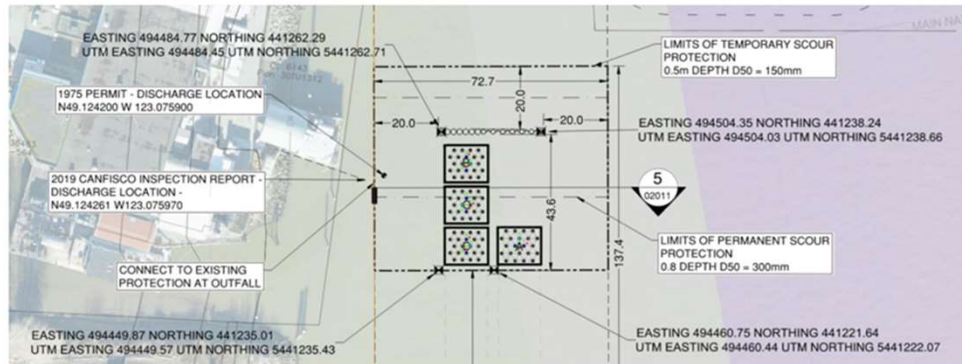
October 2025– February 2026



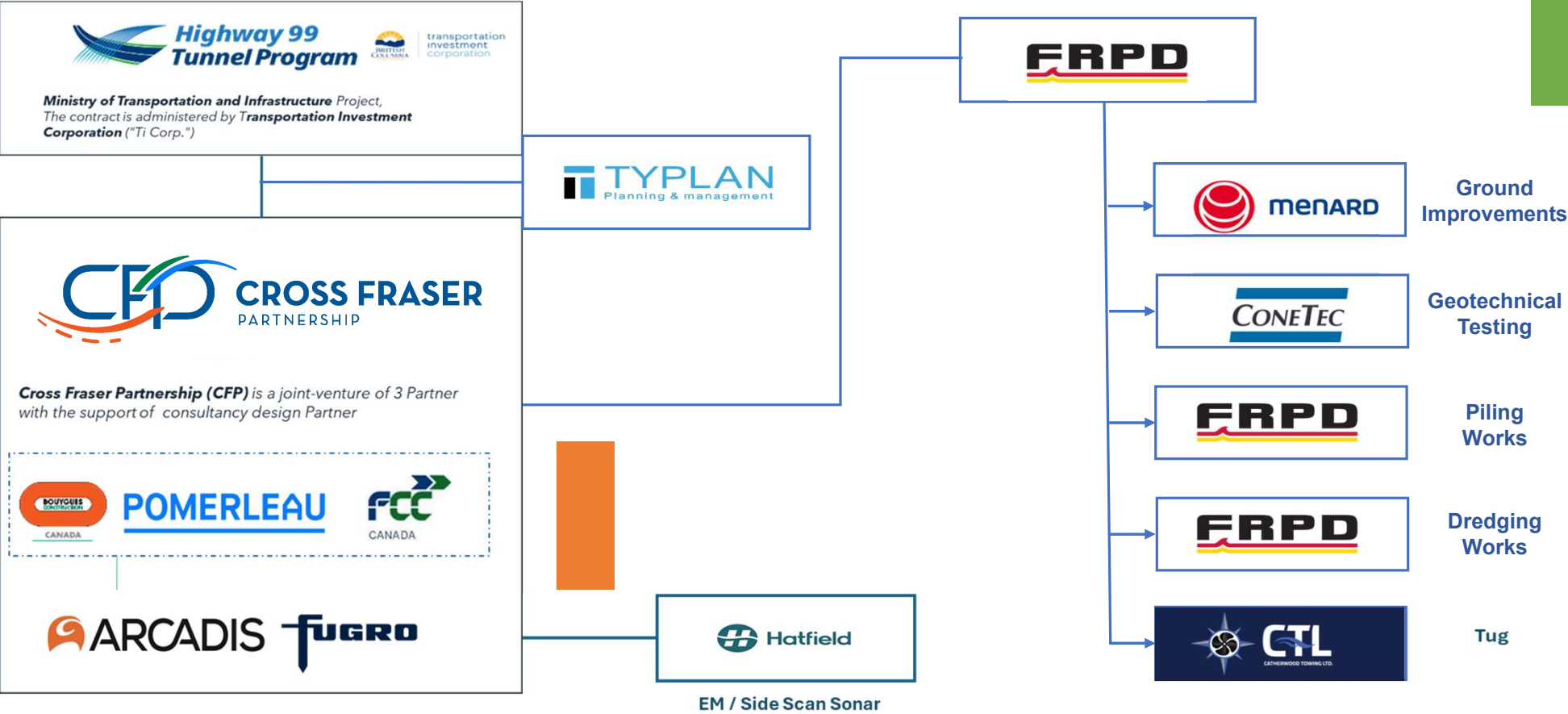
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In-River Ground Improvement and Test Supplemental Dredge



Organization - In-River Test Program



IN-RIVER TEST PROGRAM

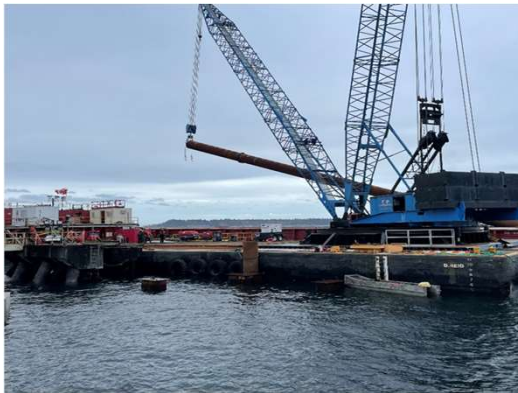
FRPD CONTACTS & EQUIPMENT

Project Manager – Sherry Kennedy, P.Eng, 604.813.5679

H&S Lead – Joe Lagos, 778.873.6725

Marine Superintendent – Jamie Steele, 604.315.0125

Pile Driving – Derrick with Spudded Barge w/
Crane: D.Reid, 350T Ringer Crane with
derrick dimensions 60' x 200'



Rock Placement/Removal – Derrick
with Spudded Barge w/ Crane: 200T
pedestal crane on spud barge with
dimensions of 49' x 122'



Densification Support Crane – Derrick
with Spudded Barge w/Crane: 150T
Crawler Crane on spud barge with
dimensions of 48' x 111



SUPPLEMENTAL TEST DREDGE

FRPD CONTACTS & EQUIPMENT

Project Manager – Sherry Kennedy, P.Eng, 604.813.5679

H&S Lead – Joe Lagos, 778.873.6725

Dredge Superintendent – Jason Ruiz, 778-791-9179

Mechanical Dredge – Derrick with Spudded Barge w/ Crane: 200T pedestal crane on spud barge with dimensions of 49' x 122'



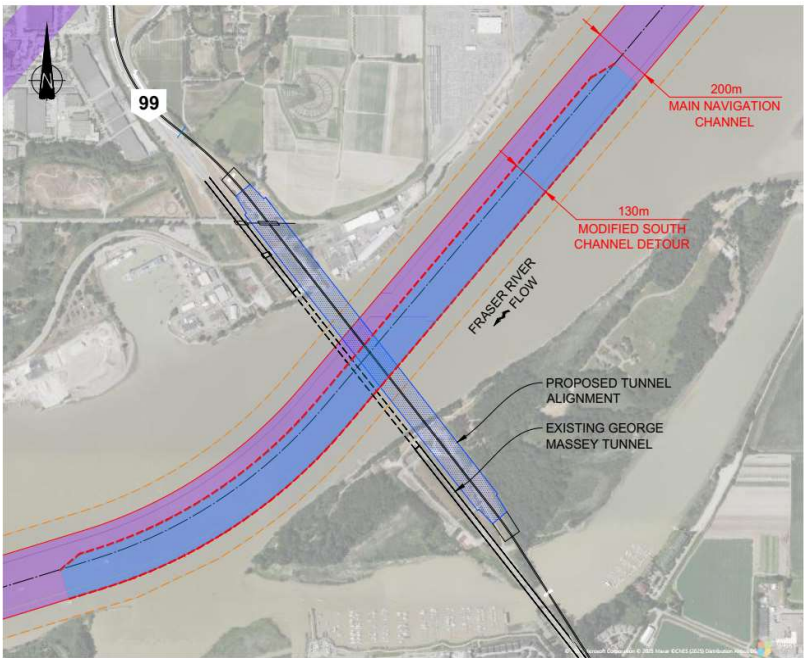
Cutter Suction Dredge – FRPD Columbia 26" Cutter Suction Dredge with dimensions 44' x 160'



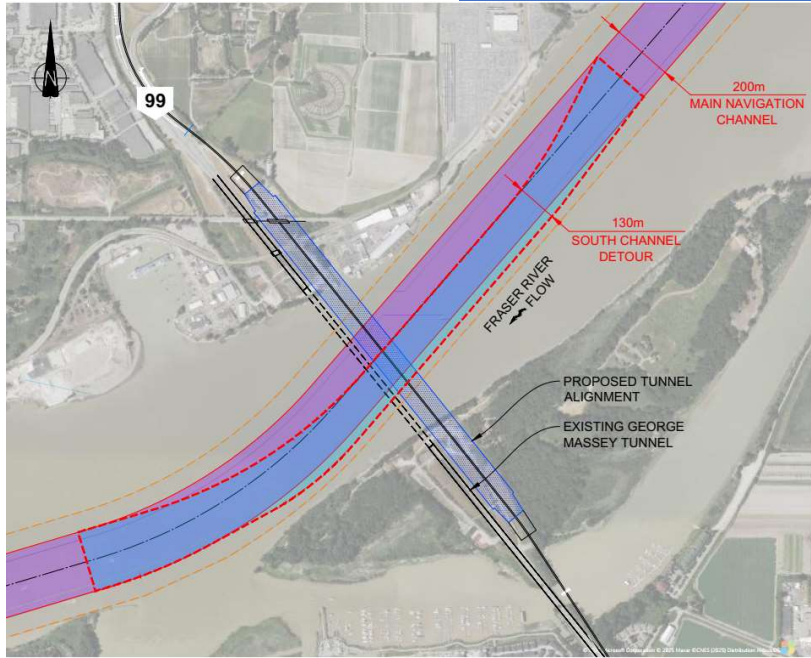
2025-2026 In-River works																								
Schedule	September				October				November				December				January				February			
	WK 1	WK 2	WK 3	WK 4	WK 1	WK 2	WK 3	WK 4	WK 1	WK 2	WK 3	WK 4	WK 1	WK 2	WK 3	WK 4	WK 1	WK 2	WK 3	WK 4	WK 1	WK 2	WK 3	WK 4
Pre-Start Activity																								
On-shore Instrumentation & Monitoring																								
In-River Test Section																								
Shop Drawings																								
Marine Mobilization																								
Site Clearance																								
CPT Testing																								
Ground Improvements																								
Additional Main Channel Geotech*																								
CPT Testing																								
Trial Separation Wall (Piling)																								
Scour Protection & Demobilization																								
Supplemental Test Dredge																								
Marine Mobilization																								
Dredging (Hydraulic)																								
Dredging (Mechanical)																								
Calibration Plates																								
Monitoring																								
In-fill and demobilization																								
ADCP Buoy																								
Installation & Monitoring																								
Ladner Reach																								
Geotechnical Investigation																								
Notes:																								
Navigation Channel Detour Implemented																								
Modified 130m South Navigation Detour																								
South Navigation Detour (Existing)																								
Location of Works																								
Administrative Safety Zone																								
Portion of Main Navigation Channel																								

NAVIGATION CHANNEL DETOURS

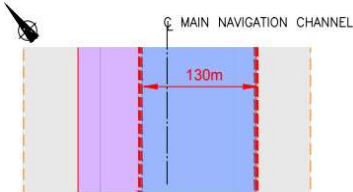
BOTH THE SOUTH AND MODIFIED SOUTH NAVIGATION CHANNEL DETOUR POTENTIALLY UTILIZED DURING IN-RIVER TEST PROGRAM



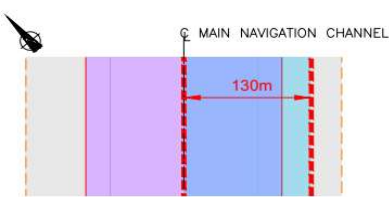
MODIFIED SOUTH CHANNEL DETOUR
1:5000



SOUTH CHANNEL DETOUR
1:5000

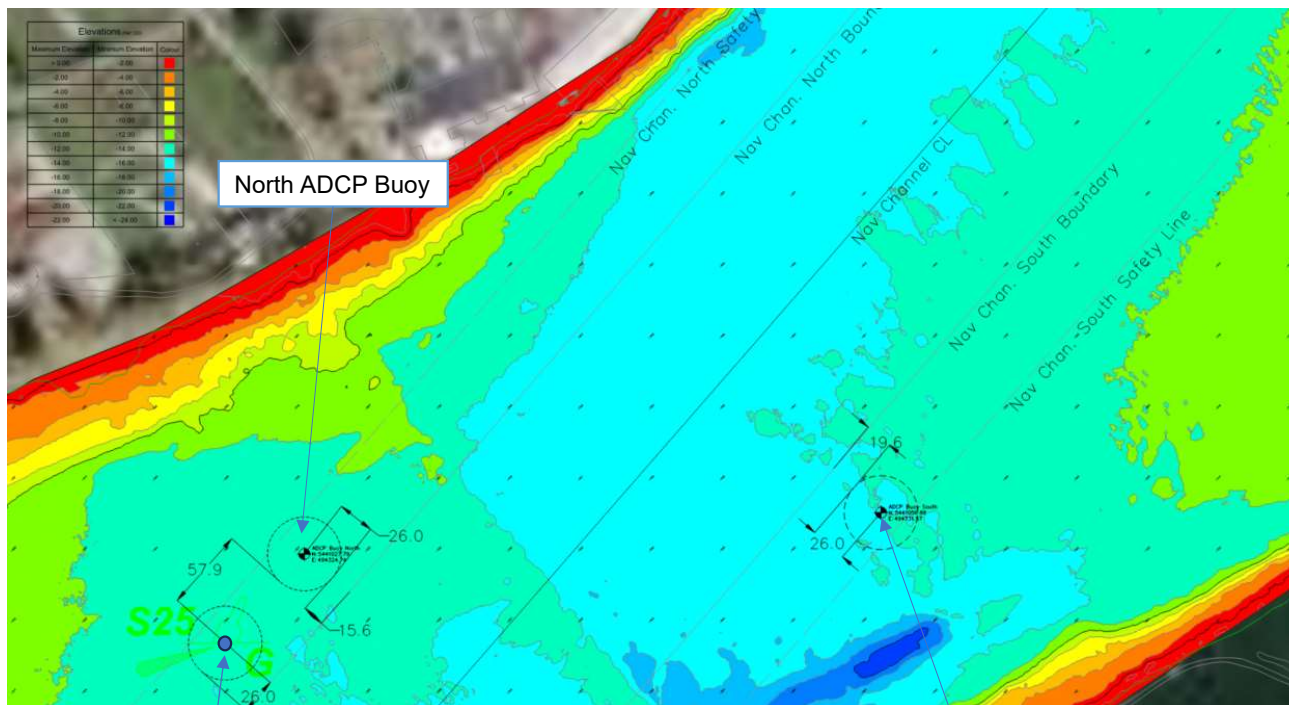


MODIFIED SOUTH CHANNEL DETOUR



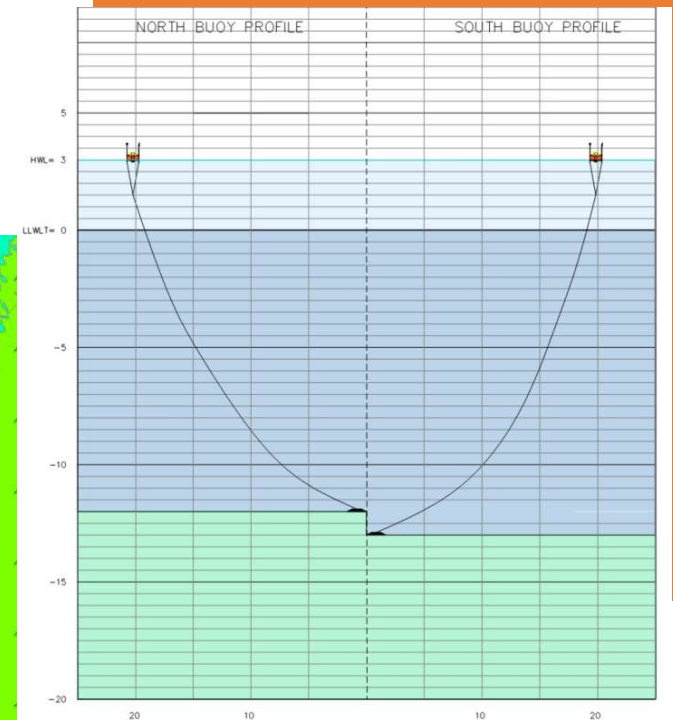
SOUTH CHANNEL DETOUR

RIVER MONITORING BUOY – MOORED ADCP



Sierra 25

South ADCP Buoy



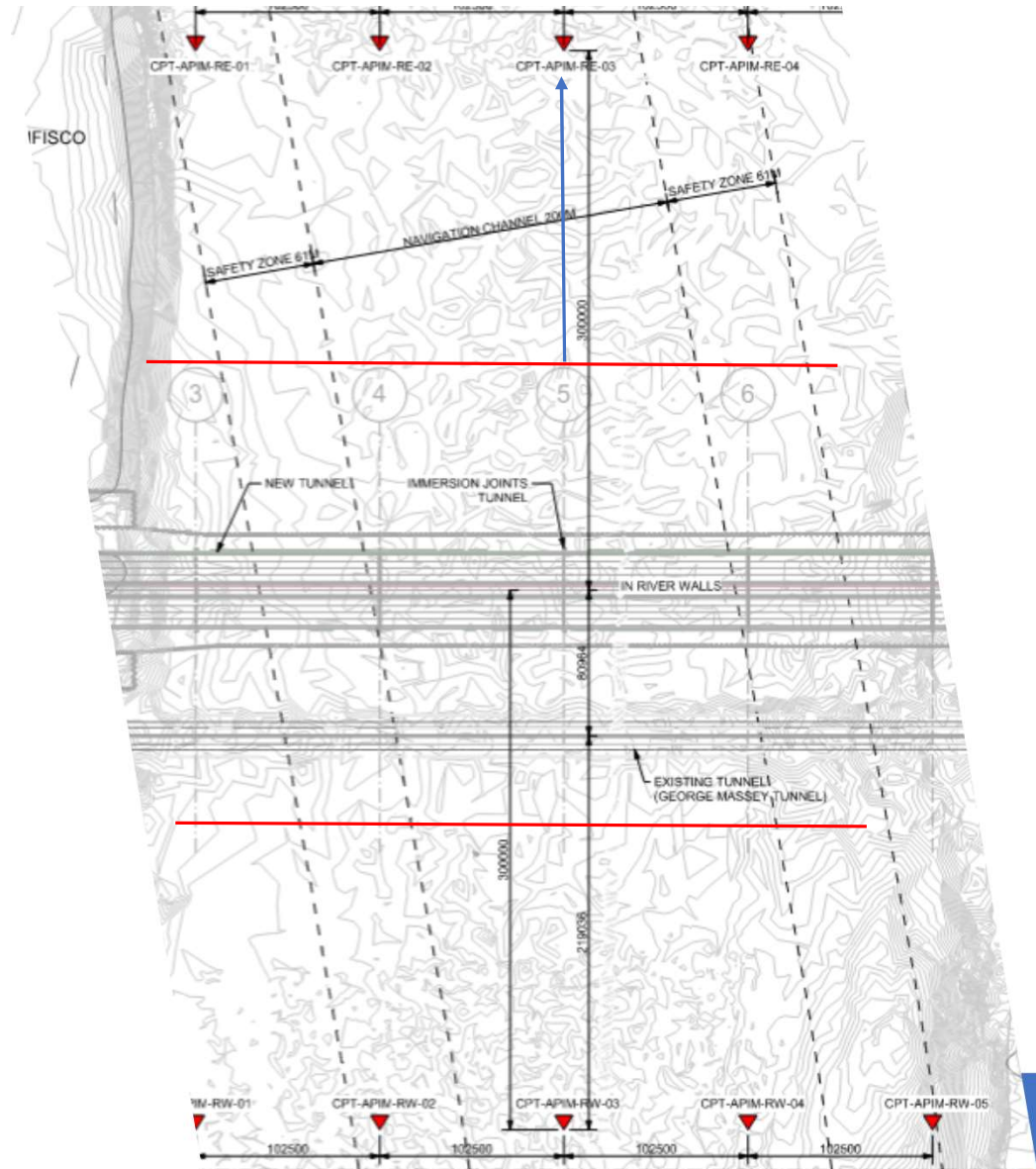
- November 2025 & July 2026 (1-month period)

MAIN RIVER CHANNEL INVESTIGATIONS

- Additional Boreholes and CPTs required to confirm design parameters
- Works form part of the overall approval for the In – River Test Program, Supplemental Test Dredge and Ladner Reach Geotechnical Investigations
- Scheduling will reflect current works to limit interference to navigation
- NAVWARNS and daily construction notices will be posted

ITT Immersion Operation and Anchor Piles

The original immersion anchor piles were too close to the immersion pontoons resulting in the contraction lines having a very steep angle that raised load stability concerns

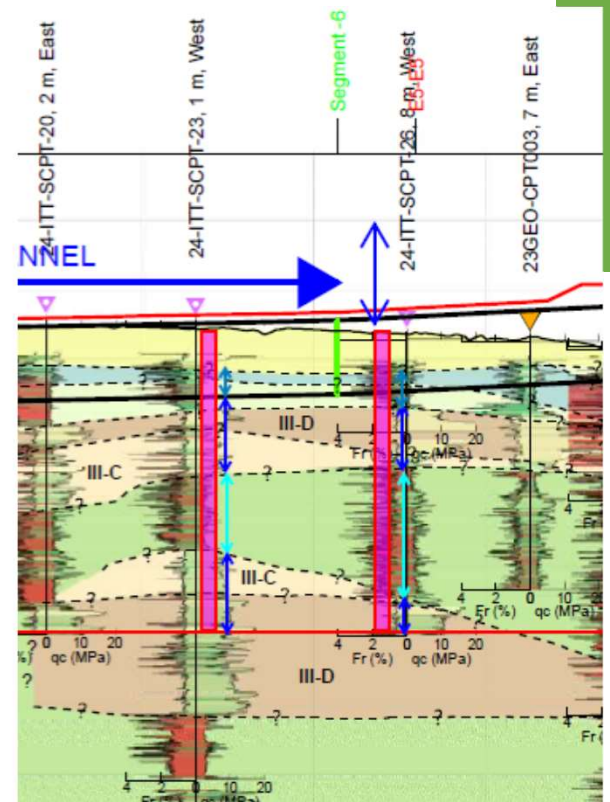
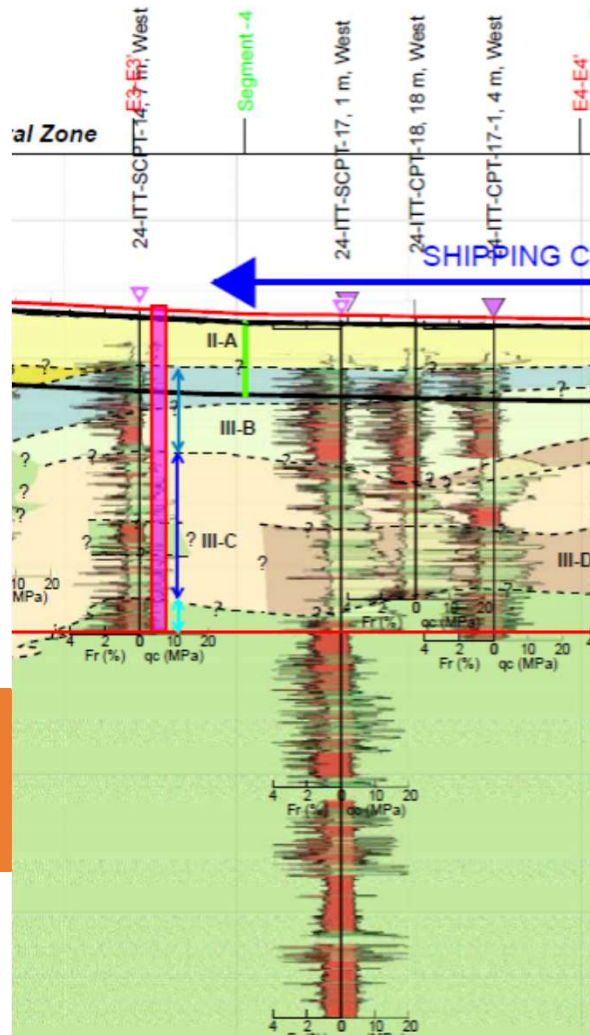


Undisturbed Sampling of Fraser River Delta Interbeds (FRDI)

2024/25 indicated the composition of III-C&III-D with shelly tube samples and tested reconstituted samples

proposed supplemental investigation to understand

the cyclic resistance of the sandier zones (Units III-C and III-D) in the Fraser River Delta Interbeds



LADNER REACH GEOTECHNICAL INVESTIGATIONS

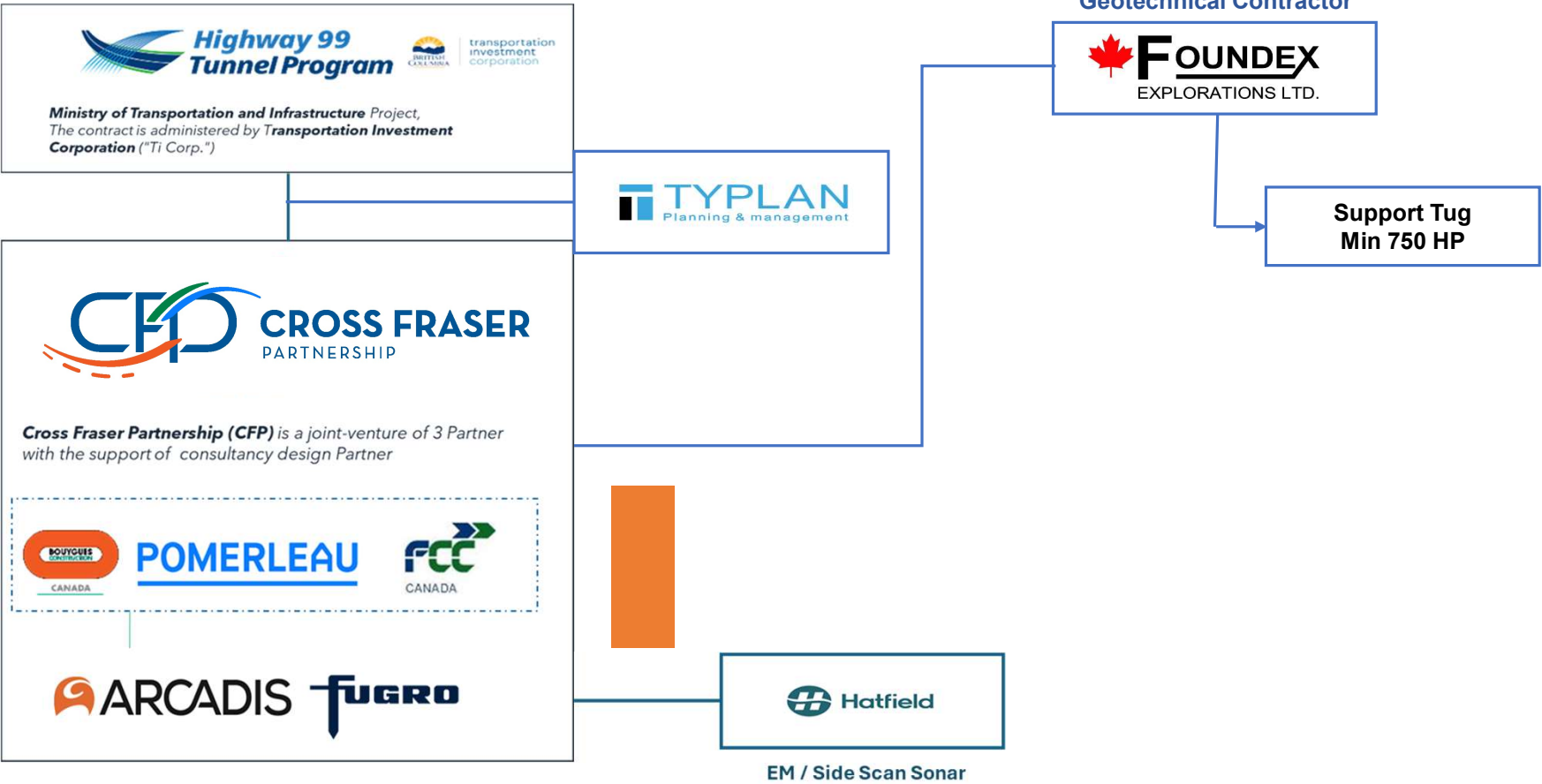
TEMPORARY STORAGE



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Organization - Ladner Reach Geotechnical Investigation



GEOTECHNICAL INVESTIGATIONS AT LADNER REACH

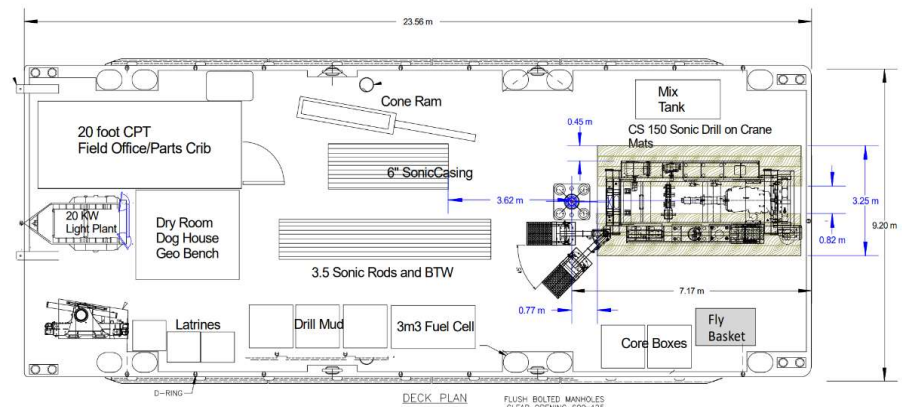
FOUNDEX CONTACTS

Name	Position	Contact Person	Telephone - Office	Telephone - Cell	Email
Foundex Explorations	Vice President	Richard Diggie	604-594-8333	778-908-1485	RDiggie@Foundex.com
	Project Manager	Mike Hadzariga	604-594-8333	250-830-4497	Mhadzariga@Foundex.com
	Project Engineer	Gregg Yin	604-594-8333	604-404-9162	GYin@Foundex.com
	Health & Safety	Dakota Gurney	604-594-8333	236-333-2295	Dgurney@Foundex.com
	Supervisor	Terry Sovdi	604-594-8333	778-549-4627	TSovdi@Foundex.com
	Supervisor	Jeff Weir	604-594-8333	778-888-4488	JWeir@Foundex.com
	Supervisor	John Wallace	604-594-8333	778-908-3715	JWallace@Foundex.com
Mercury Transport	Operations Manager	Madison Trueman	604-921-7451	604-835-1991	madison@mercurytransport.ca

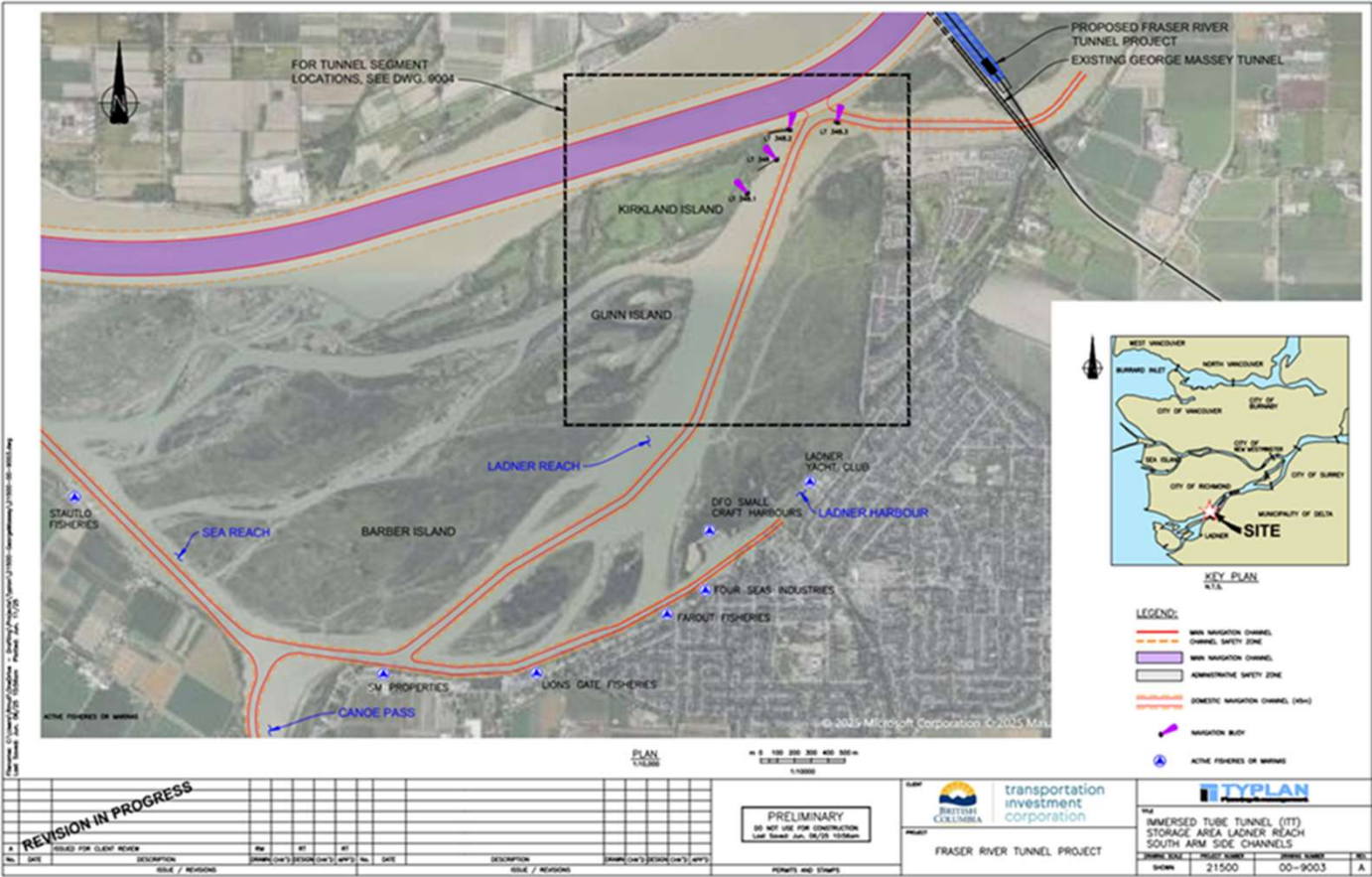
Mercury - MLT 4 Spud barge - CS 150 Sonic CPT

Shallow Draft Spud Barge – Mercury
MLT4 Spud Barge with dimensions
30' x 80' Length

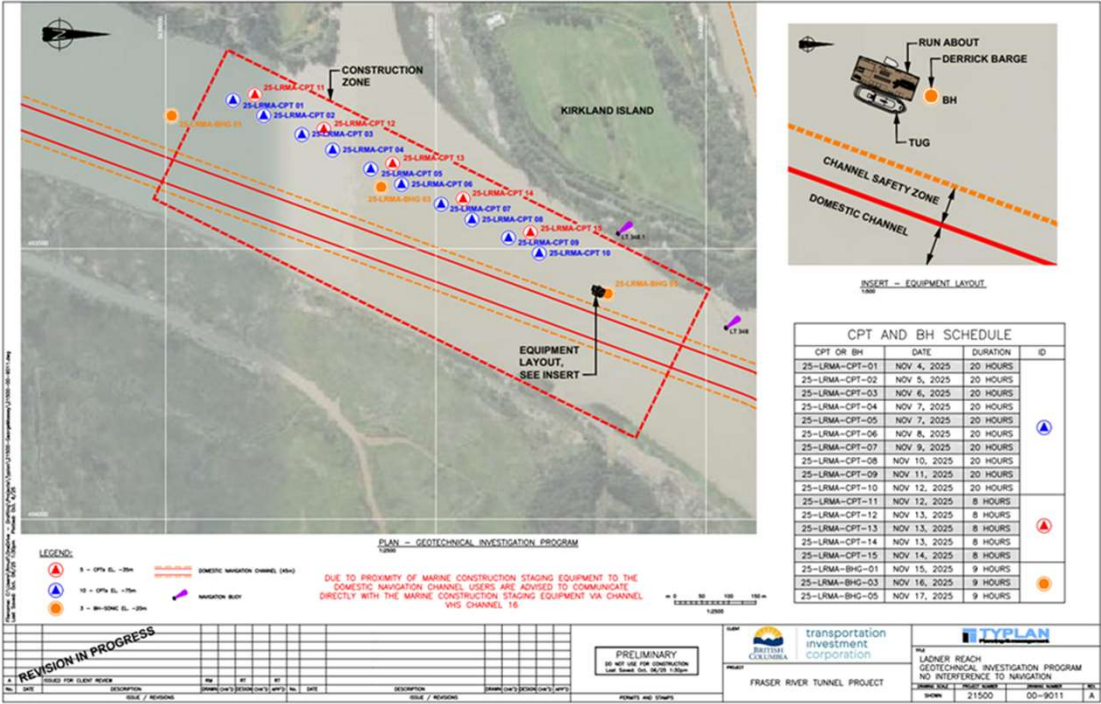
Tug – 840 HP Construction Tug 12' x 29'



Ladner Reach Geotechnical Investigations

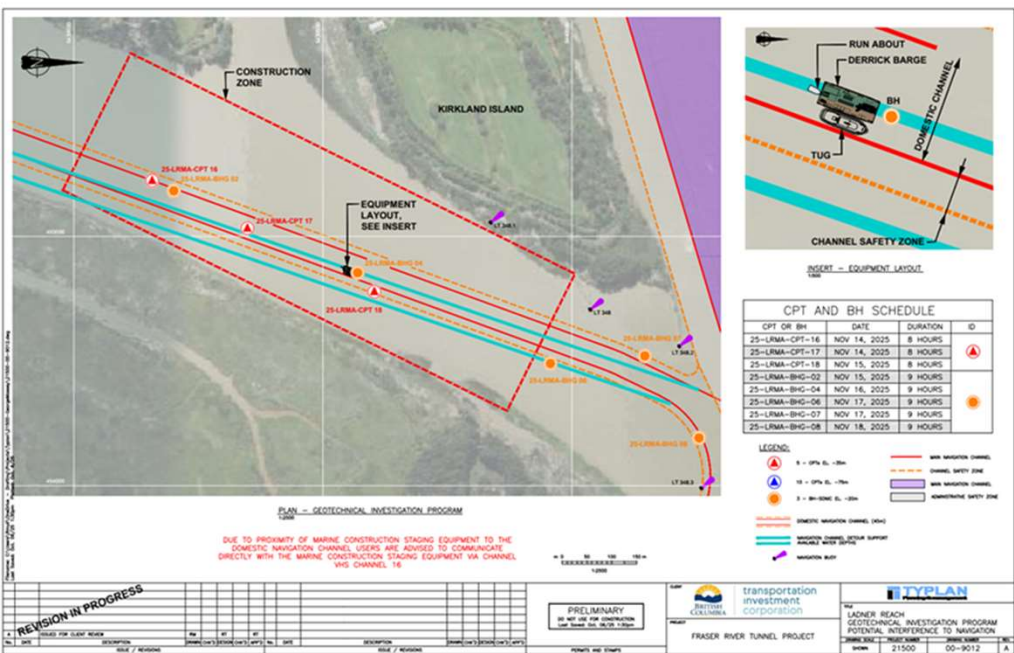


LADNER REACH SCHEDULE



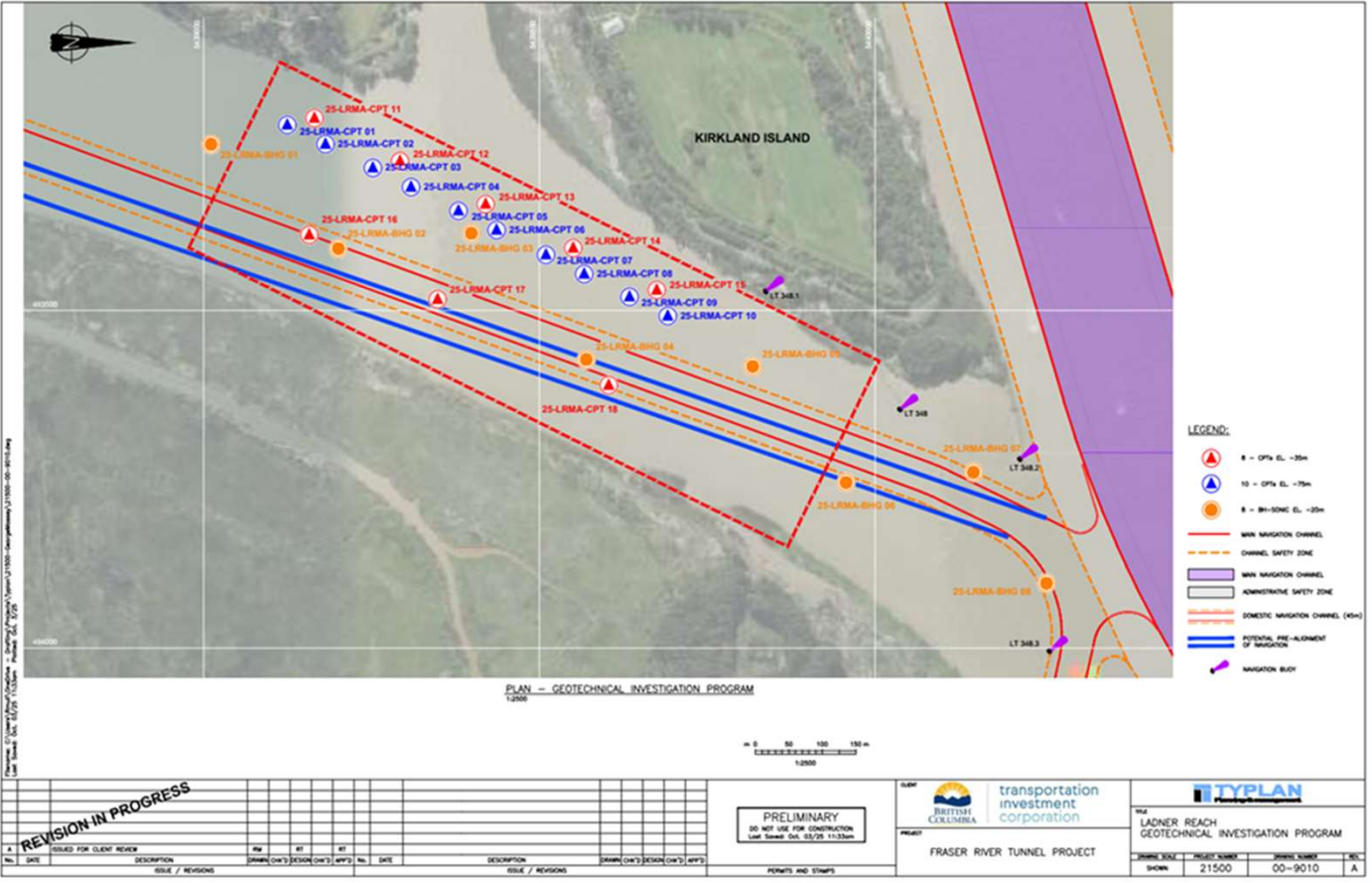
CPT AND BH SCHEDULE			
CPT OR BH	DATE	DURATION	ID
25-LRMA-CPT-01	NOV 4, 2025	20 HOURS	▲
25-LRMA-CPT-02	NOV 5, 2025	20 HOURS	
25-LRMA-CPT-03	NOV 6, 2025	20 HOURS	
25-LRMA-CPT-04	NOV 7, 2025	20 HOURS	
25-LRMA-CPT-05	NOV 7, 2025	20 HOURS	
25-LRMA-CPT-06	NOV 8, 2025	20 HOURS	
25-LRMA-CPT-07	NOV 9, 2025	20 HOURS	
25-LRMA-CPT-08	NOV 10, 2025	20 HOURS	
25-LRMA-CPT-09	NOV 11, 2025	20 HOURS	
25-LRMA-CPT-10	NOV 12, 2025	20 HOURS	
25-LRMA-CPT-11	NOV 12, 2025	8 HOURS	▲
25-LRMA-CPT-12	NOV 13, 2025	8 HOURS	
25-LRMA-CPT-13	NOV 13, 2025	8 HOURS	
25-LRMA-CPT-14	NOV 13, 2025	8 HOURS	
25-LRMA-CPT-15	NOV 14, 2025	8 HOURS	●
25-LRMA-BHG-01	NOV 15, 2025	9 HOURS	
25-LRMA-BHG-03	NOV 16, 2025	9 HOURS	
25-LRMA-BHG-05	NOV 17, 2025	9 HOURS	
25-LRMA-BHG-02	NOV 18, 2025	9 HOURS	

LADNER REACH SCHEDULE



CPT AND BH SCHEDULE			
CPT OR BH	DATE	DURATION	ID
25-LRMA-CPT-16	NOV 14, 2025	8 HOURS	▲
25-LRMA-CPT-17	NOV 14, 2025	8 HOURS	
25-LRMA-CPT-18	NOV 15, 2025	8 HOURS	
25-LRMA-BHG-02	NOV 15, 2025	9 HOURS	●
25-LRMA-BHG-04	NOV 16, 2025	9 HOURS	
25-LRMA-BHG-06	NOV 17, 2025	9 HOURS	
25-LRMA-BHG-07	NOV 17, 2025	9 HOURS	
25-LRMA-BHG-08	NOV 18, 2025	9 HOURS	
25-LRMA-BHG-09	NOV 18, 2025	9 HOURS	

LADNER REACH GEOTECHNICAL INVESTIGATIONS



Thank you

- Closing comments / questions
- TICORP/CFP would like to thank the marine stakeholders for their continued support
- Next MUG meeting will occur mid-November