



SUSTAINABLE NAPIER COMMITTEE

Open Minutes Attachments

Meeting Date: Thursday 20 June 2024

Time: 9.30am – 11.21am

Venue: Large Exhibition Hall
War Memorial Centre
Marine Parade
Napier

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Meeanee Awatoto Watermain

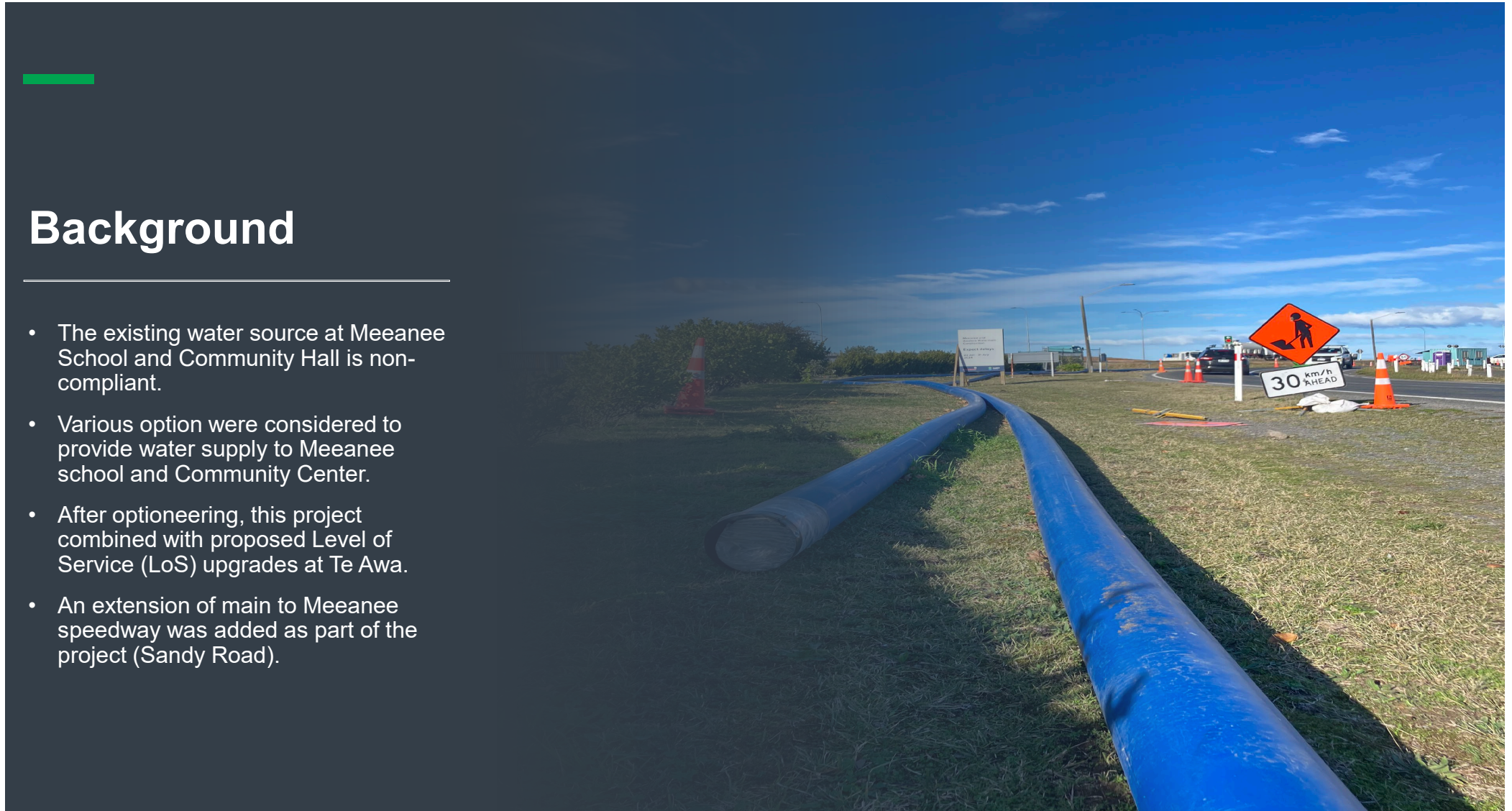
Sustainable Napier Committee

20th June 2024



Background

- The existing water source at Meeanee School and Community Hall is non-compliant.
- Various options were considered to provide water supply to Meeanee school and Community Center.
- After optioneering, this project combined with proposed Level of Service (LoS) upgrades at Te Awa.
- An extension of main to Meeanee speedway was added as part of the project (Sandy Road).



Costs and Benefits

Key Benefits



Improve LoS at Te Awa



Water Supply to Meeanee School



Water Supply to Meeanee Sports Center and Community Hall



Water Supply to Meeanee Speedway



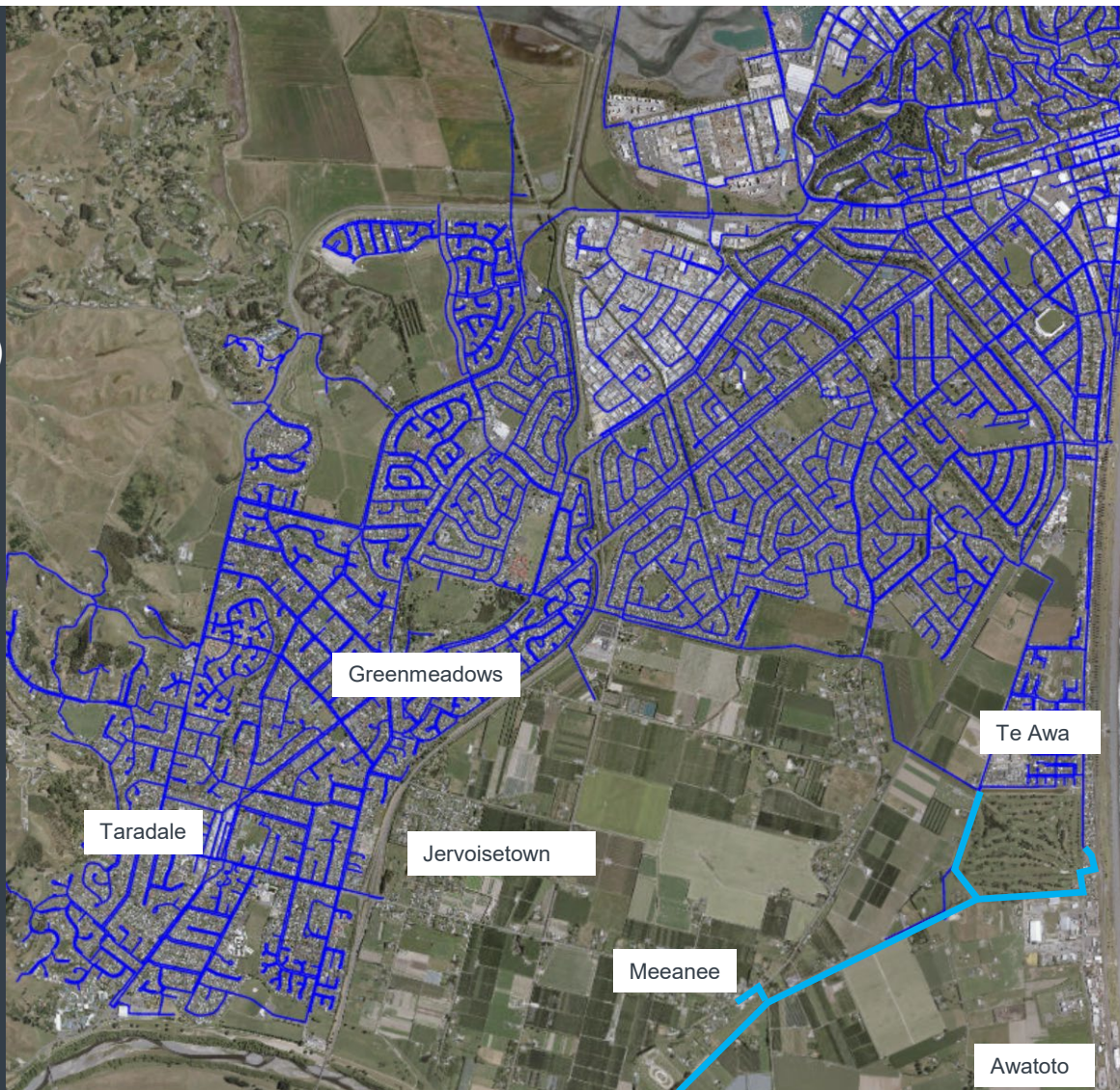
Residential City Water supply to Awatoto and Meeanee.

Costs

Description	Value
Construction Contract (Meeanee Awatoto Main)	\$2.22M
Variations to date	\$0.20M
Handy Road Extension	\$0.31M
Total	\$2.75M

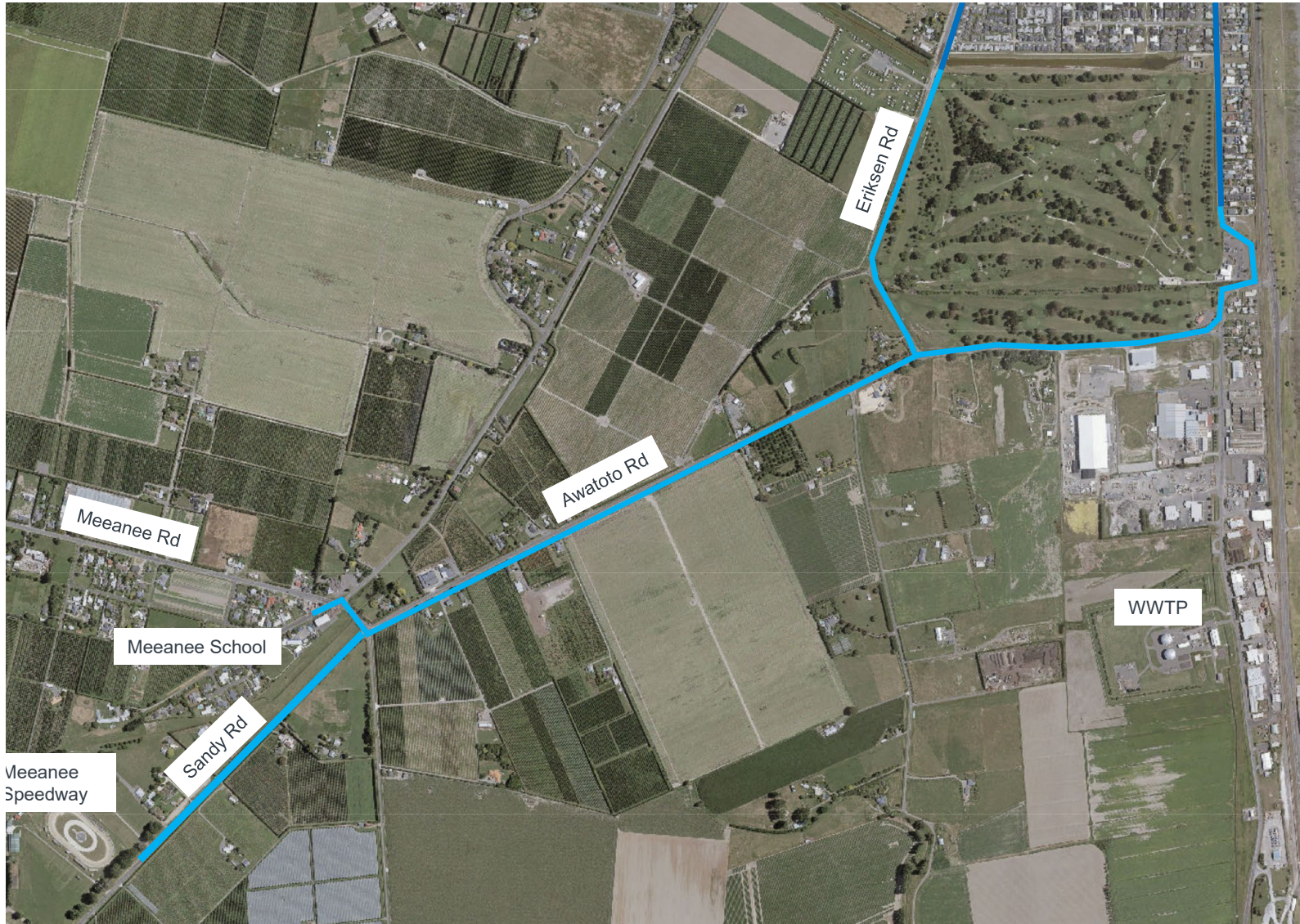


Napier Water Supply Network (Excluding Bay View)



Project Scope





Project Scope



Pipe Decontamination



Figure 1: Watermains prior to Cyclone Gabriel (left) and post Cyclone Gabriel (right)

Decontamination process

- Flushing
- Foam swabbing
- Chlorination
- Flushing
- String and Testing

Key Dates

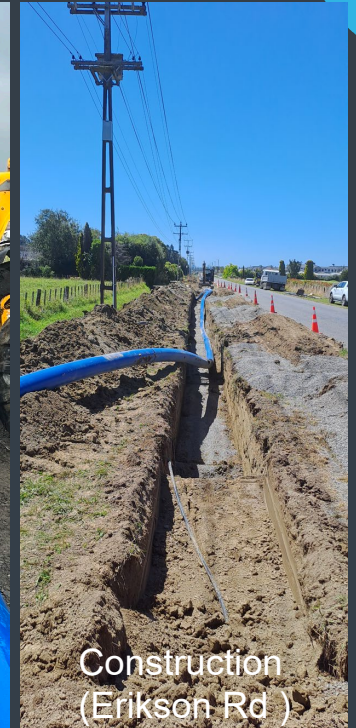
- **June 2022:** *Pipe Purchased*
- **February 2023:** *Pipes contaminated from flooding*
- **September 2023:** *Construction Contract awarded to Drainways*
- **December 2023:** *Pipes disinfected, and construction started*
- **August 2024:** *Commissioning*

Project Team

- **Stantec** : Design
- **Beca** : Project and Contract Management
- **Drainways:** Construction



Pipe Disinfection Process



Construction (Erikson Rd)

Photos



Item 2 Attachment 1

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Long Term Plan

- *Water Supply to Awatoto Industrial Area.*
- *Water Supply to Meeanee Settlement Zone.*

Questions.

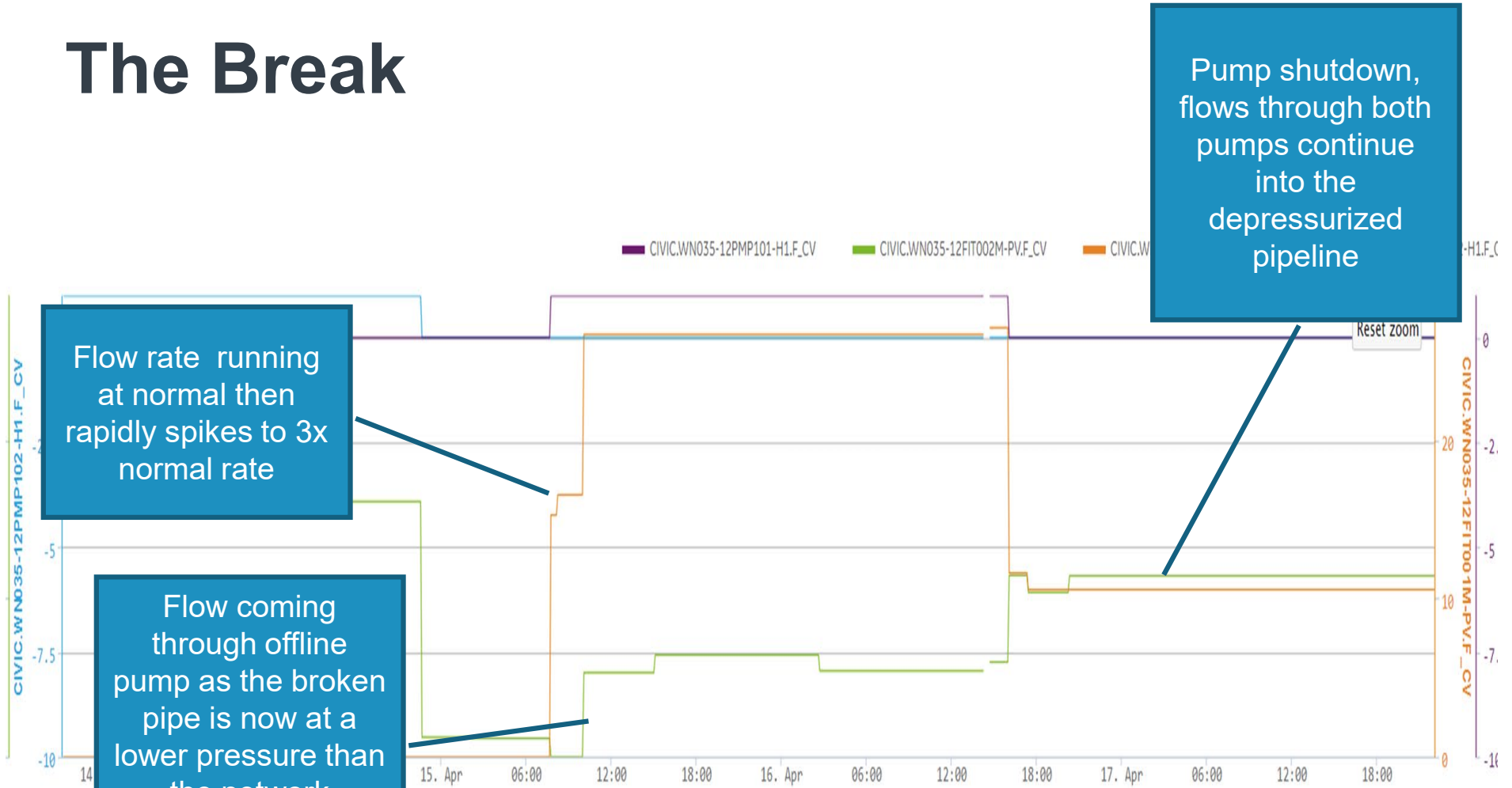


Bay View Pipeline Break and Repair

June 2024



The Break



Flow rate running at normal then rapidly spikes to 3x normal rate

Flow coming through offline pump as the broken pipe is now at a lower pressure than the network upstream of the pump station

Pump shutdown, flows through both pumps continue into the depressurized pipeline

Trend showing when break occurred just after 10:20am 15-Apr-2024

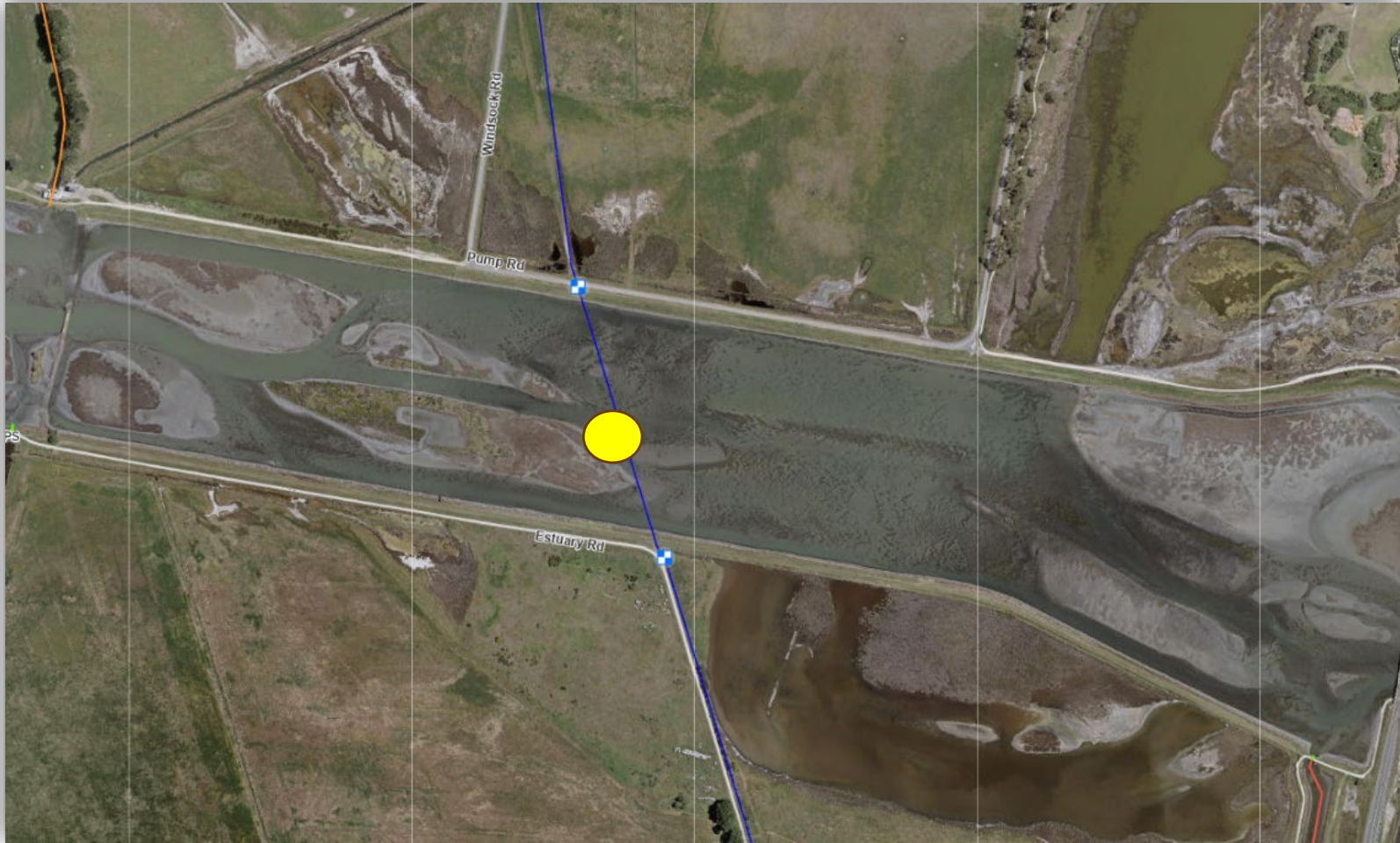


The Leak



*Footage showing the exit point of the leak,
into the estuary*

The Position



- Aerial view of where the break occurred



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The Repair

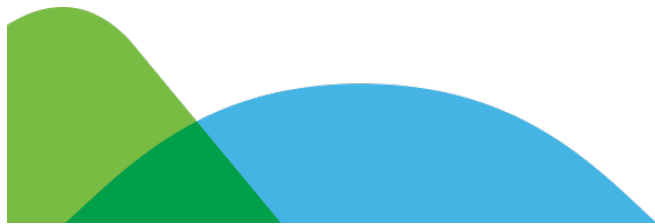


10m lengths of PE pipe are welded together into a single 320m string

The Repair



A directional drilling rig is threaded down the broken pipe and used to drag the new section back through



Pressure Test



- The new section of pipe is pressure tested to ensure it meets our standards

Connection



Following disinfection, the new pipe section is connected to the network

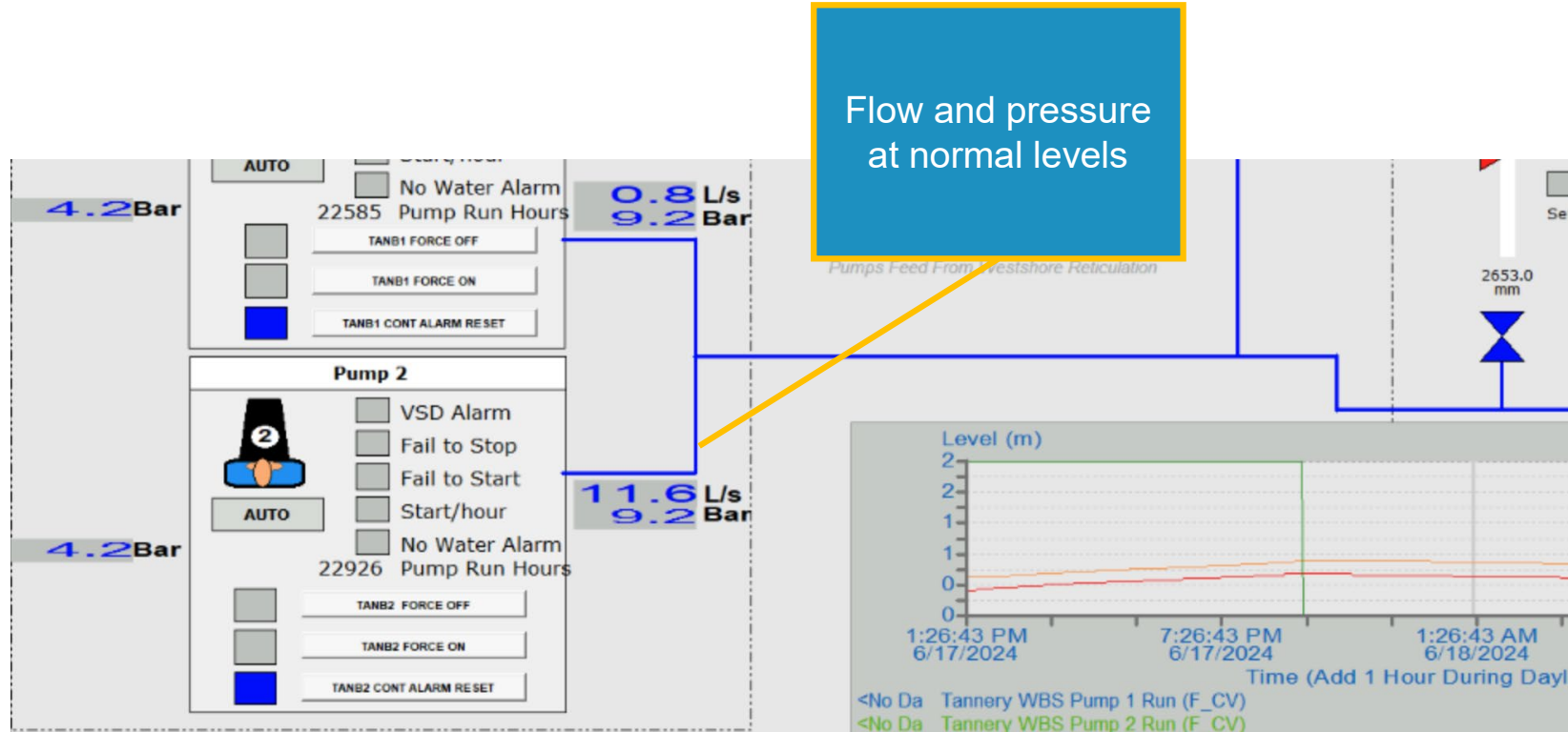
Flushing



- The whole section of pipeline is flushed to ensure there was no contaminant entry during the break



Back online



Item 3 Attachment 1

The pipeline is returned to service, providing the primary supply feed to Bay View



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Questions?

Item 3 Attachment 1