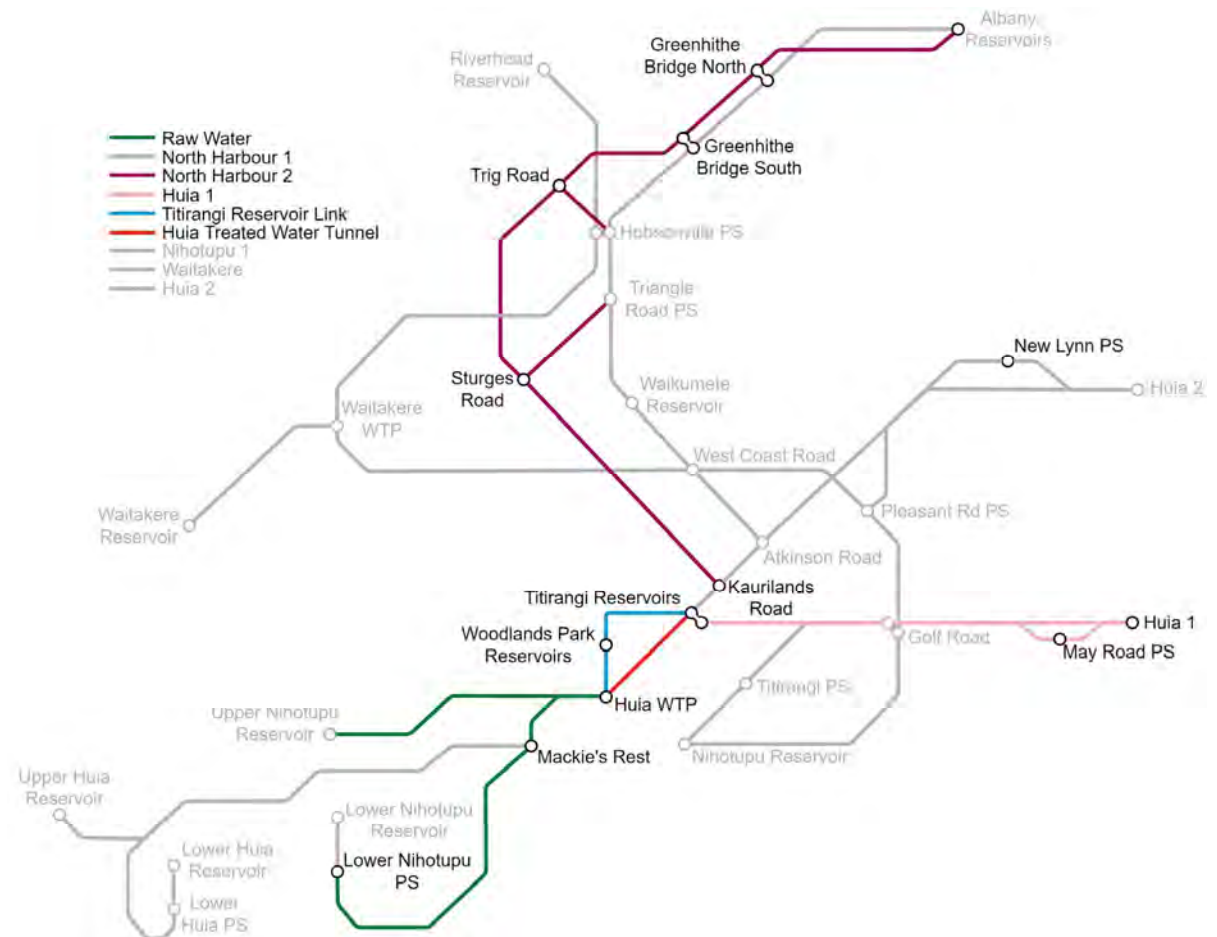


Huia WTP Project Update

July 2024

Western Water Supply Programme



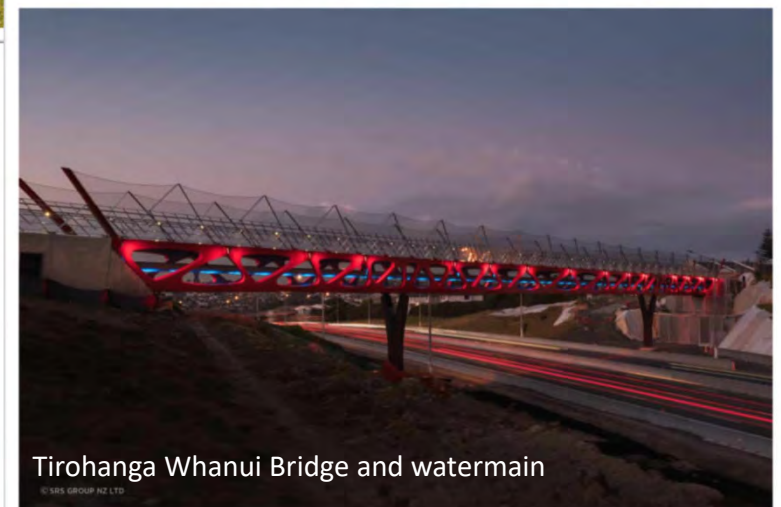
Resilience of water supply to the West and North



Albany reservoir and pump station



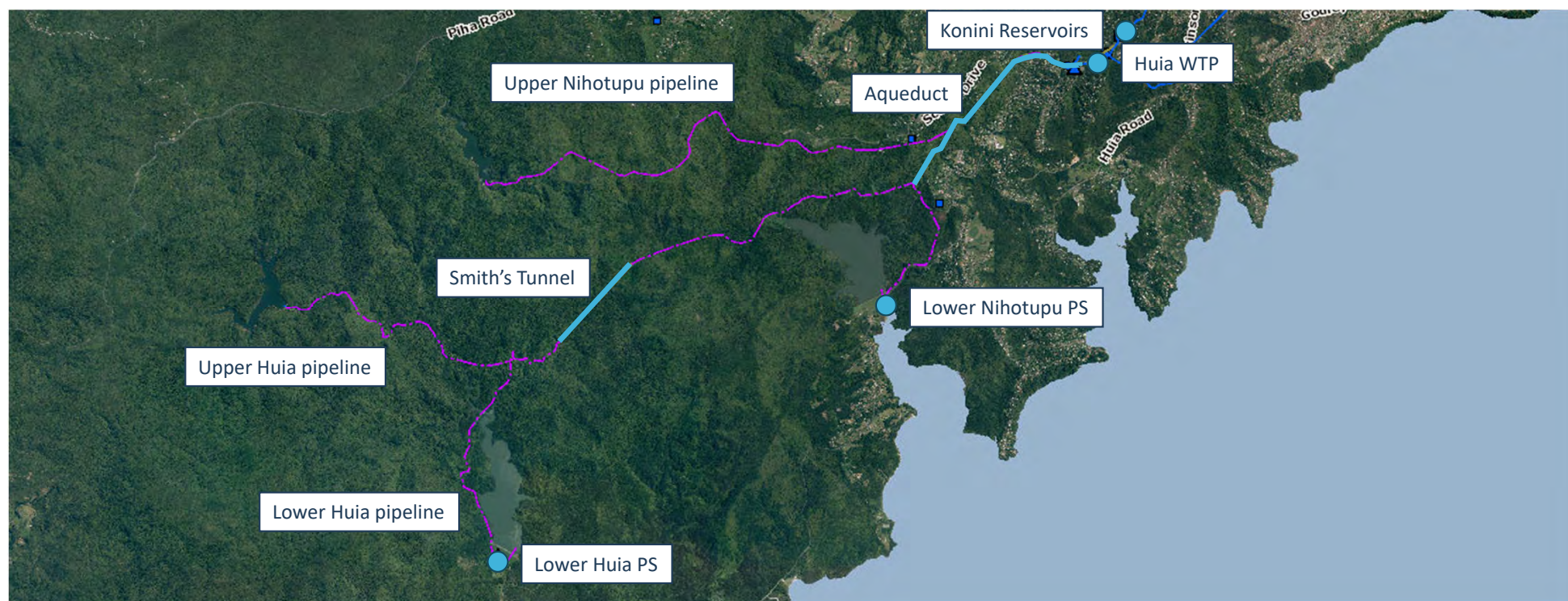
Watermains on Auckland Harbour Bridge



Tirohanga Whanui Bridge and watermain



Western Water Supply Programme – Waitākere Ranges infrastructure



Catchments and assets at risk from extreme weather



Slips in the headworks



Raw water mains under threat from slips



Tracked carrier for repairs

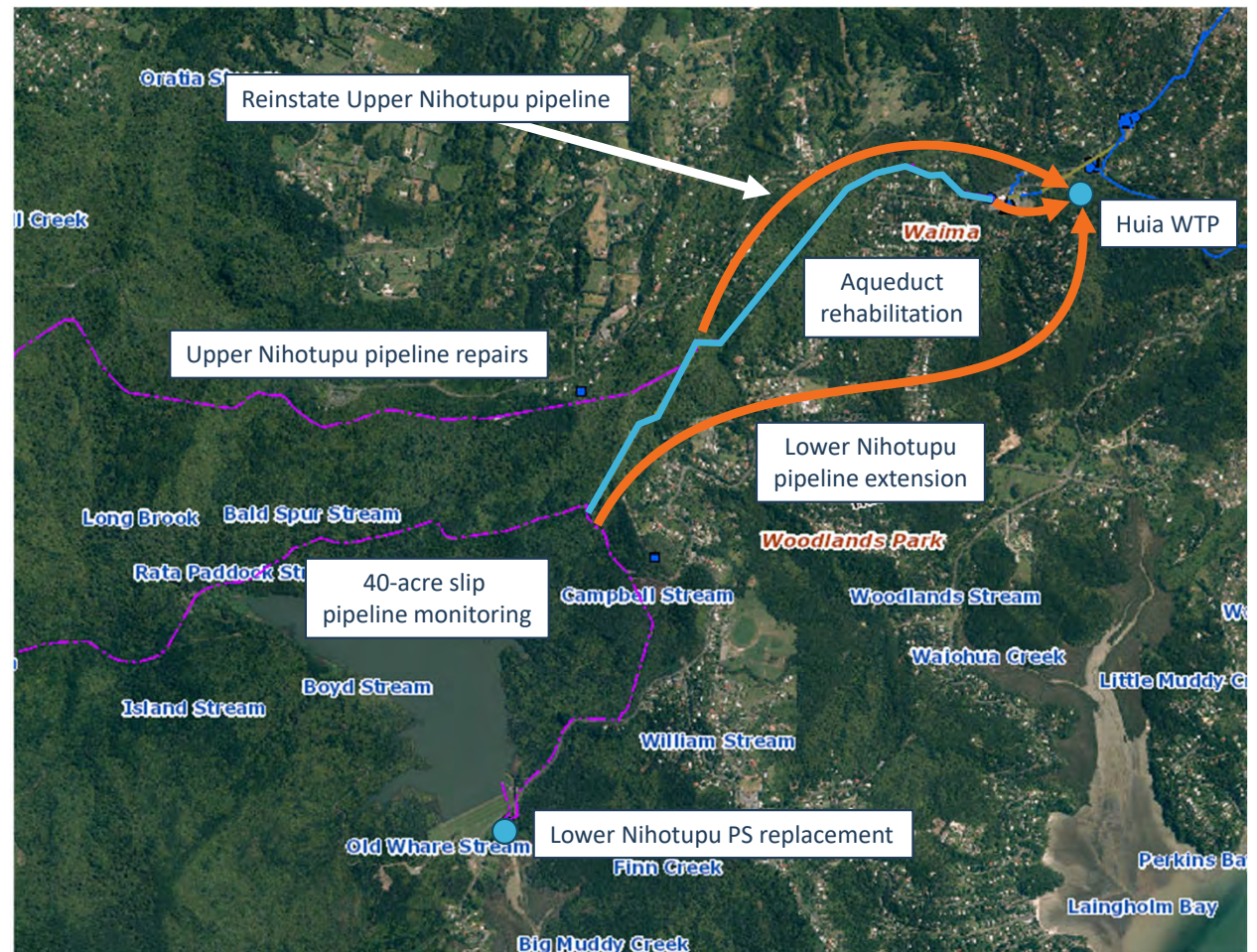
Raw watermains

The raw watermain rehabilitation and replacement will:

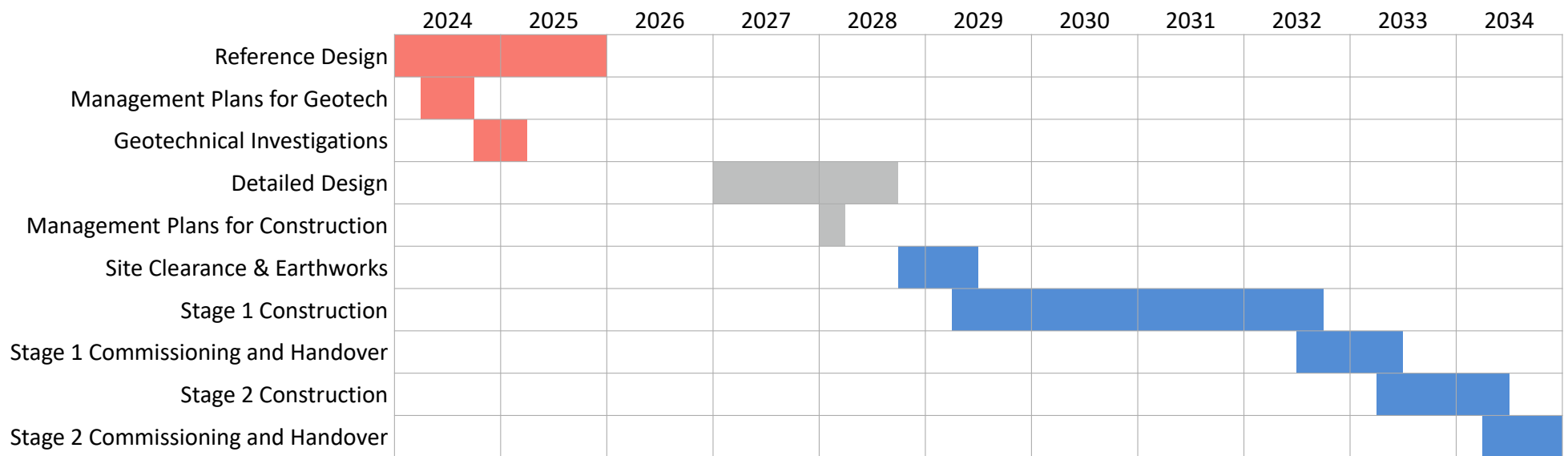
- Increase resilience and reliability of supply to the plant
- Reduce risk of failure from extreme weather events
- Supply existing and new Water Treatment Plant



Raw Water Supply to Huia WTP



Huia Water Treatment Plant Programme



Feasibility



Design



Execution

Management Plans for Huia WTP

- Management plans for upcoming geotechnical investigation requiring CLG input:

Plan	Timing	Status
Phytophthora Risk Management Plan (PRMP) for geotech	July 2024	Draft Completed
Pest Management Strategy for Biodiversity Restoration (PMSBR)	Aug/Sept 2024	Draft Completed
Ecological Management Plan (EMP)	Aug/Sept 2024	Draft Completed

- Future management plans for bulk construction works:

Plan	Timing
Phytophthora Risk Management Plan (PRMP) for construction	From January 2028
Construction Management Plans (Communication, Traffic, Noise and Vibration)	From January 2028
Nihotupu Heritage Management Restoration Plan (NHMRP)	From January 2028

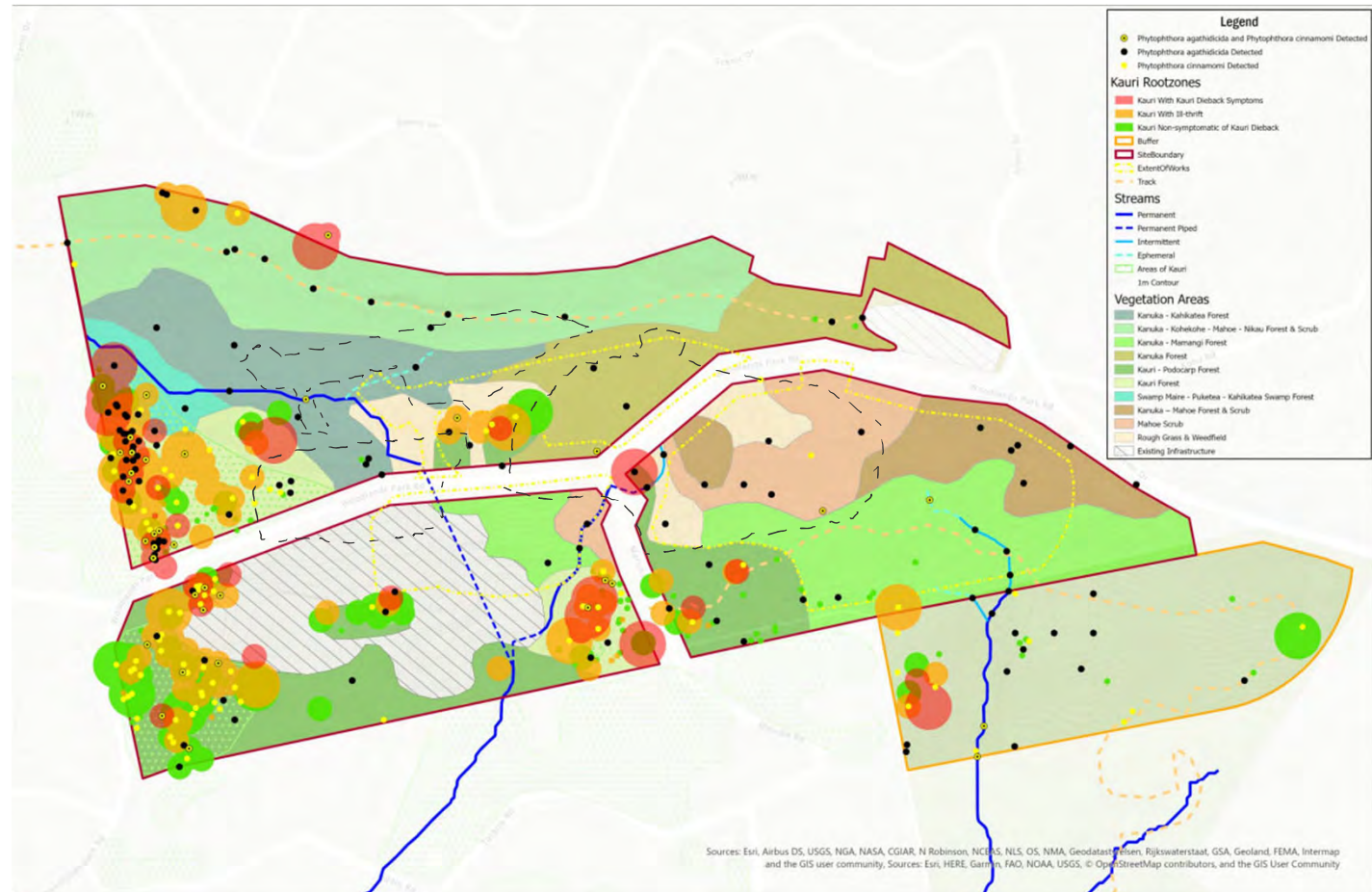
Huia WTP geotechnical investigations

Phytophthora Risk Management Plan (PRMP) and next steps



Phytophthora agathadica (Pa) : risks and management approach

- Pa is the pathogen responsible for kauri dieback disease
- Reproduces in root systems of kauri (and possibly other plants) and is soil borne
- Pa found in soil across the site, in infected kauri, in watercourses (on and off site), and in the wider catchment





Risks and management of Pa

- Pa spores are motile in water and infect kauri roots (particularly at injury sites, or if tree is stressed).
- Current evidence is that infection is ultimately lethal to kauri.
- Key modes of Pa spread are via movement of infected soil and water.
- Mobilisation of infected soil and water increases the risk of contact with uninfected trees.
- Hence, containment of potentially infected soil and water is the key to effective management.

“Traffic light system” SOP

Consent conditions require a “Traffic-light system” for staging of works:

- **Red:** Areas of removal, disturbance and stockpile of surface soils, organic materials, water and high-risk materials.
- **Orange:** Bulk earthworks activities other than in ‘red’ above.
- **Yellow:** Areas with stabilised hardfill and localized excavations within hardfill areas.
- **Green:** Areas located outside the subject site and after decontamination.

Machinery can only freely progress through the traffic light system from lower to higher risk areas. To go from a higher to a lower risk area, the machinery, equipment and/or personnel must be decontaminated as set out in the PRMP.

Geotechnical investigations: A geotechnical investigation-specific PRMP shall be developed as a standalone plan [that...] requires a subset of management measures appropriate to the limited extent of physical works to be undertaken on site.

PRMP for Geotech works

Document contents:

- Project background
- Management principles and objectives
- Draft method statement (“worst case” assumptions; to be confirmed following contractor engagement)
- Map of drill sites
- Operational procedures
- Roles and responsibilities
- Environmental risk register

